



 Read this manual carefully
before operating this vehicle.

OWNER'S MANUAL

MAJESTY

YP125E

5D8-F8199-E1



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

Welcome to the Yamaha world of motorcycling!

As the owner of the YP125E, 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 YP125E. The Owner's Manual does not only instruct you in how to operate, inspect and maintain your scooter, but also in how to safeguard yourself and others from trouble and injury.

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

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

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




 **WARNING**

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

IMPORTANT MANUAL INFORMATION

EAU10132

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

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

IMPORTANT MANUAL INFORMATION

EAUS1172

**YP125E
OWNER'S MANUAL
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TABLE OF CONTENTS

SAFETY INFORMATION	1-1	Fuel tank breather/overflow hose	3-9	Checking the spark plug	6-8
Further safe-riding points	1-5	Catalytic converter	3-10	Engine oil	6-9
DESCRIPTION	2-1	Seat	3-10	Final transmission oil	6-11
Left view	2-1	Storage compartment	3-11	Coolant	6-12
Right view	2-2	Storage compartment	3-12	Air filter and V-belt case	
Controls and instruments	2-3	Adjusting the shock absorber		air filter elements	6-14
		assemblies	3-13	Adjusting the carburetor	6-15
		Sidestand	3-13	Adjusting the throttle cable	
		Ignition circuit cut-off system	3-14	free play	6-15
INSTRUMENT AND CONTROL				Valve clearance	6-16
FUNCTIONS	3-1	FOR YOUR SAFETY – PRE-		Tires	6-16
Main switch/steering lock	3-1	OPERATION CHECKS	4-1	Cast wheels	6-18
Indicator and warning lights	3-2	Pre-operation check list	4-2	Front and rear brake lever	
Turn signal indicator lights	3-2			free play	6-18
High beam indicator light	3-2	OPERATION AND IMPORTANT		Checking the front and rear	
Oil change indicator	3-2	RIDING POINTS	5-1	brake pads	6-19
Coolant temperature warning light	3-2	Starting the engine	5-1	Checking the brake fluid	
Speedometer unit	3-3	Starting off	5-2	level	6-20
Fuel and battery voltage		Acceleration and deceleration	5-2	Changing the brake fluid	6-21
gauge	3-4	Braking	5-3	Checking and lubricating the	
Clock	3-5	Tips for reducing fuel		cables	6-21
Anti-theft alarm (optional)	3-5	consumption	5-3	Lubricating the front and	
Handlebar switches	3-6	Engine break-in	5-4	rear brake levers	6-21
Dimmer switch	3-6	Parking	5-4	Checking and lubricating the	
Turn signal switch	3-6			centerstand and sidestand	6-22
Horn switch	3-6	PERIODIC MAINTENANCE AND		Checking the front fork	6-23
Start switch	3-6	ADJUSTMENT	6-1	Checking the steering	6-23
Hazard switch	3-6	Owner's tool kit	6-1	Checking the wheel bearings	6-24
Front brake lever	3-7	Periodic maintenance and lubrication		Battery	6-24
Rear brake lever	3-7	chart	6-3	Replacing the fuses	6-26
Fuel tank cap	3-7	Removing and installing panels	6-7	Replacing a headlight bulb	6-26
Fuel	3-8				

TABLE OF CONTENTS

Replacing a front turn signal	
light bulb.....	6-28
Replacing the tail/brake light bulb or a	
rear turn signal light bulb	6-29
Replacing the license plate	
light bulb.....	6-30
Replacing an auxiliary light	
bulb	6-30
Troubleshooting	6-31
Troubleshooting charts	6-32
SCOOTER CARE AND STORAGE	7-1
Matte color caution.....	7-1
Care	7-1
Storage	7-3
SPECIFICATIONS	8-1
CONSUMER INFORMATION	9-1
Identification numbers	9-1
Key identification number.....	9-1
Vehicle identification number.....	9-1
Model label	9-2

SAFETY INFORMATION

EAU10263

Be a Responsible Owner

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

Scooters are single-track vehicles.

Their safe use and operation are dependent upon the use of proper riding techniques as well as the expertise of the operator. Every operator should know the following requirements before riding this scooter.

He or she should:

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

Safe Riding

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

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

Therefore:

- Wear a brightly colored jacket.
- Use extra caution when you are approaching and passing through intersections, since intersections are the most likely places for scooter accidents to occur.

- Ride where other motorists can see you. Avoid riding in another motorist's blind spot.
- Many accidents involve inexperienced operators. In fact, many operators who have been involved in accidents do not even have a current driver's license.
- Make sure that you are qualified and that you only lend your scooter to other qualified operators.
- Know your skills and limits. Staying within your limits may help you to avoid an accident.
- We recommend that you practice riding your scooter where there is no traffic until you have become thoroughly familiar with the scooter and all of its controls.
- Many accidents have been caused by error of the scooter operator. A typical error made by the operator is veering wide on a turn due to excessive speed or undercornering (insufficient lean angle for the speed).



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

Protective apparel

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

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

Avoid Carbon Monoxide Poisoning

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

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

- Do not run engine indoors. Even if you try to ventilate engine exhaust with fans or open windows and doors, carbon monoxide can rapidly reach dangerous levels.

SAFETY INFORMATION

1

- Do not run engine in poorly ventilated or partially enclosed areas such as barns, garages, or carports.
- Do not run engine outdoors where engine exhaust can be drawn into a building through openings such as windows and doors.

Loading

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

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

Operation of an overloaded vehicle could cause an accident.

Maximum load:
177 kg (390 lb)

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

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

- Never attach any large or heavy items to the handlebar, front fork, or front fender. Such items can create unstable handling or a slow steering response.

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

Genuine Yamaha Accessories

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

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

Aftermarket Parts, Accessories, and Modifications

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

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

- Never install accessories or carry cargo that would impair the performance of your scooter. Carefully inspect the accessory before using it to make sure that it does not in any way reduce ground clearance or cornering clearance, limit suspension tra-

vel, 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 ope-

rator and may limit control ability, therefore, such accessories are not recommended.

- Use caution when adding electrical accessories. If electrical accessories exceed the capacity of the scooter's electrical system, an electric failure could result, which could cause a dangerous loss of lights or engine power.

Aftermarket Tires and Rims

The tires and rims that came with your scooter were designed to match the performance capabilities and to provide the best combination of handling, braking, and comfort. Other tires, rims, sizes, and combinations may not be appropriate. Refer to page 6-16 for tire specifications and more information on replacing your tires.

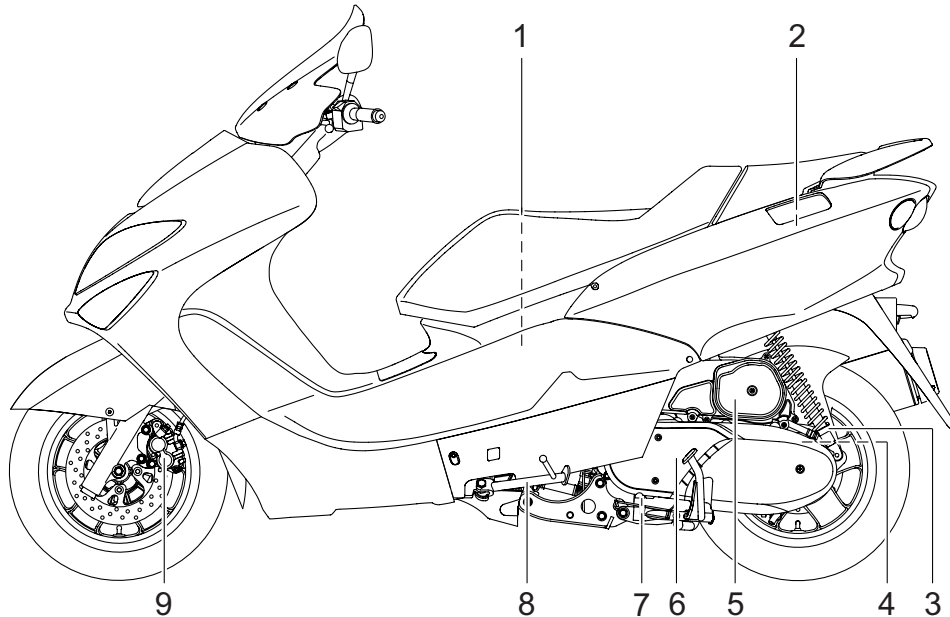
SAFETY INFORMATION

EAU10372

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.
- 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. Use a strong cord to secure any luggage to the carrier (if equipped). A loose load will affect the stability of the scooter and could divert your attention from the road. (See page 1-1).

Left view



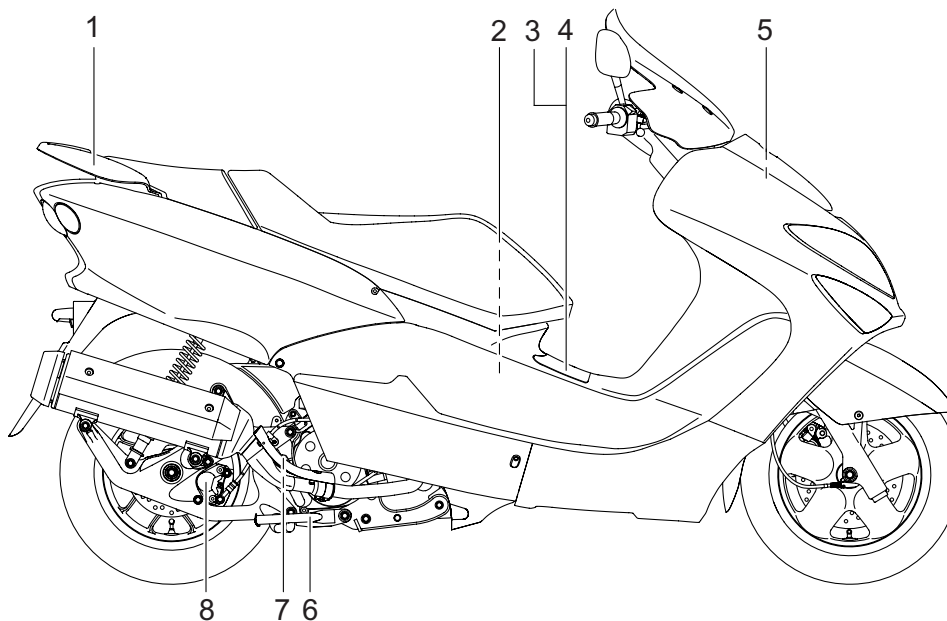
1. Storage compartment (page 3-12)
2. Fuel tank cap (page 3-7)
3. Shock absorber assembly spring preload adjusting ring (page 3-13)
4. Final transmission oil filler cap (page 6-11)
5. Air filter element (page 6-14)

6. V-belt case air filter element (page 6-14)
7. Engine oil drain bolt (page 6-9)
8. Sidestand (page 3-13, 6-22)
9. Front brake pads (page 6-19)

DESCRIPTION

EAU10420

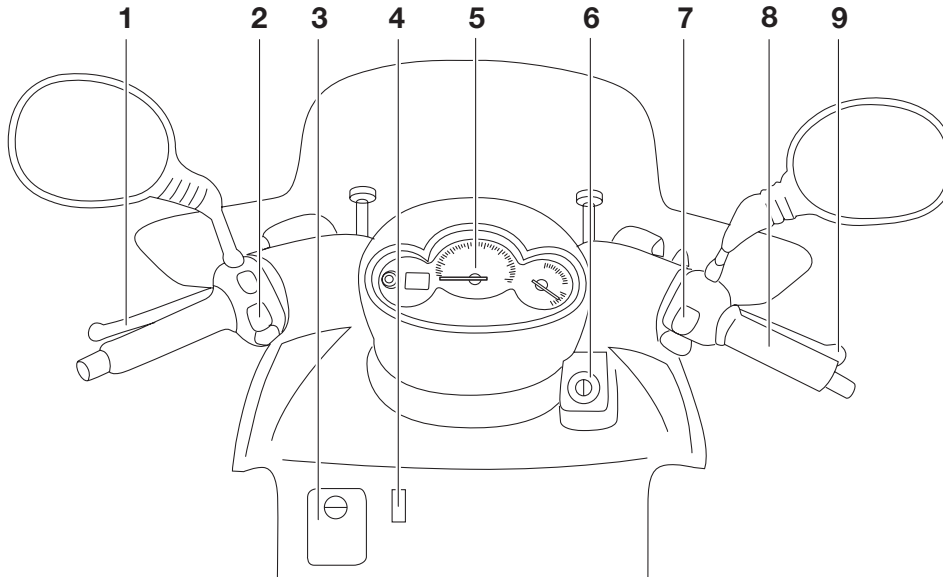
Right view



- 1. Grab bar (page 5-2)
- 2. Owner's tool kit (page 6-1)
- 3. Battery (page 6-24)
- 4. Fuse (page 6-26)

- 5. Coolant reservoir cap (page 6-12)
- 6. Centerstand (page 6-22)
- 7. Engine oil filler cap (page 6-9)
- 8. Rear brake pads (page 6-19)

Controls and instruments



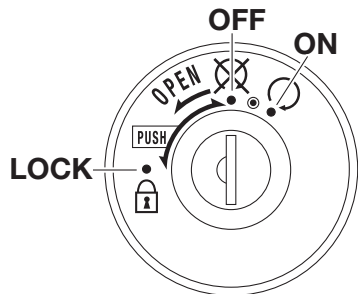
1. Rear brake lever (page 3-7)
2. Left handlebar switches (page 3-6)
3. Front storage compartment (page 3-11)
4. Coolant level check window (page 6-12)
5. Speedometer/Multi-function display (page 3-3)

6. Main switch/steering lock (page 3-1)
7. Right handlebar switches (page 3-6)
8. Throttle grip (page 6-15)
9. Front brake lever (page 3-7)

INSTRUMENT AND CONTROL FUNCTIONS

Main switch/steering lock

EAU10460



3

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

ON “○”

EAU34121

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

TIP

The headlights come on automatically when the engine is started and stay on until the key is turned to “⊗” or the sidestand is moved down.

OFF “⊗”

EAU10661

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

EWA10061

⚠ WARNING

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

“⦿”

EAU1020

The coolant temperature warning light should come on when the key is turned to “⦿”. (See page 3-2).

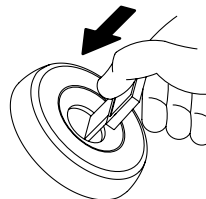
EAU10681

LOCK “🔒”

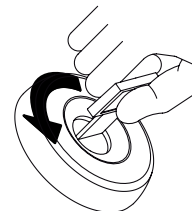
The steering is locked, and all electrical systems are off. The key can be removed.

To lock the steering

1



2

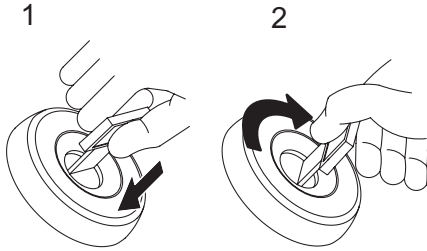


1. Push.
2. Turn.

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

INSTRUMENT AND CONTROL FUNCTIONS

To unlock the steering

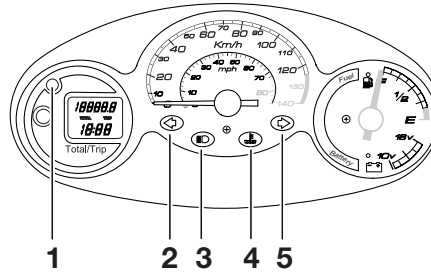


1. Push.
2. Turn.

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

EAU11003

Indicator and warning lights



1. Alarm indicator light
2. Left turn signal indicator light “”
3. High beam indicator light “”
4. Coolant temperature warning light “”
5. Right turn signal indicator 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.

EAUS1450

Oil change indicator

At the initial 1000 km (600mi) and every 3000 km (1800 mi) thereafter, “CHnGE OIL” appears in the odometer/clock display to indicate that the engine oil should be changed. (See page 6-9).

EAM1082

Coolant temperature warning light “”

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

The electrical circuit of the warning light can be checked according to the following procedure.

1. Turn the key to “”.
2. If the warning light does not come on, have a Yamaha dealer check the electrical circuit.

ECA10021

NOTICE

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

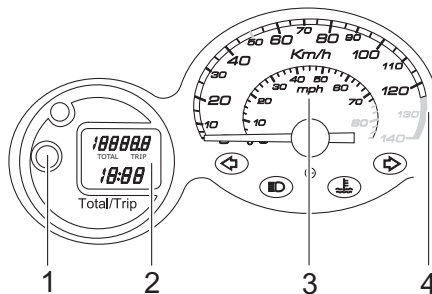
INSTRUMENT AND CONTROL FUNCTIONS

TIP

- For radiator-fan-equipped vehicles, the radiator fan(s) automatically switch on or off according to the coolant temperature in the radiator.
- If the engine overheats, see page 6-32 for further instructions.

Speedometer unit

EAUS1362



1. “TRIP” button/“RESET” button
2. Multi-function display
3. Speedometer
4. Red zone

The speedometer unit is equipped with the following:

- a speedometer (which shows the riding speed)

ECAS0010

NOTICE

Do not operate the scooter in the speedometer red zone. Red zone: 120 km/h (75 mph) and above

- an odometer (which shows the total distance traveled)

- a tripmeter (which shows the distance traveled since it was last set to zero)

Pushing the “TRIP” button switches the display between the odometer mode “ODO” and the tripmeter mode “TRIP”. To reset the tripmeter, enter the “TRIP” mode, and then hold down the “TRIP” button for at least one second. The tripmeter can be used together with the fuel gauge to estimate the distance that can be traveled with a full tank of fuel. This information will enable you to plan future fuel stops.

Setting the odometer/tripmeter reading mode

The odometer and tripmeter can be set to count in either kilometers or miles according to the following procedure.

1. Turn the key to “O” while pressing the reset button.
2. Release the reset button when the display comes on.
3. The current mode appears in the display: “CONT” (continental) for the kilometer mode and “EnGL” (English) for the mile mode.

INSTRUMENT AND CONTROL FUNCTIONS

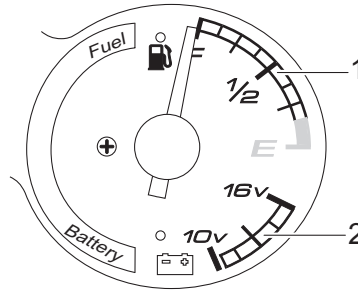
4. Press the reset button to switch the mode.
5. Press the reset button for two seconds to confirm the setting.

TIP

- The odometer/tripmeter reading mode can be changed any number of times while the odometer reading is below 10 (kilometers or miles), but it cannot be changed anymore after the reading has reached 10 (kilometers or miles).
- Switching between the kilometer mode and the mile mode does not change or convert the current odometer/tripmeter reading.

Fuel and battery voltage gauge

EAUS1460



1. Fuel gauge
2. Battery voltage

When the key is turned to “ \odot ”, the battery voltage is indicated for two seconds, and then the amount of fuel in the fuel tank is indicated.

NOTICE: If the needle drops to the “10V” (low) mark, have a Yamaha dealer check the battery. [ECAS0030]

TIP

- The needle moves towards “E” (empty) as the fuel level decreases.
- When the needle reaches “E”, refuel as soon as possible.


INSTRUMENT AND CONTROL FUNCTIONS

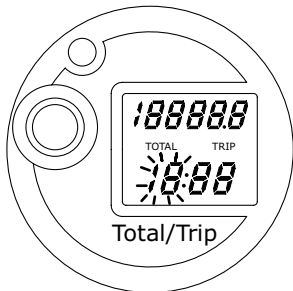
EAUS1211

EAU12331

Clock

To set the clock

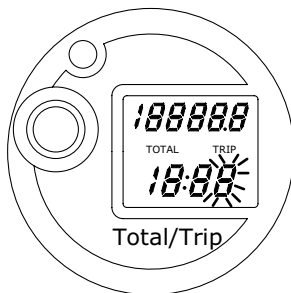
1. Turn the key to “”.



2. Press the reset button for two seconds, and the hour display will flash.
3. Press the reset button to set the hours.



4. Press the reset button for two seconds, and the first minute digit will flash.
5. Press the reset button to set the first minute digit.



6. Press the reset button for two more seconds, and the second minute digit will flash.
7. Press the reset button to set the second minute digit.
8. Press the reset button for two seconds to set the clock.

Anti-theft alarm (optional)

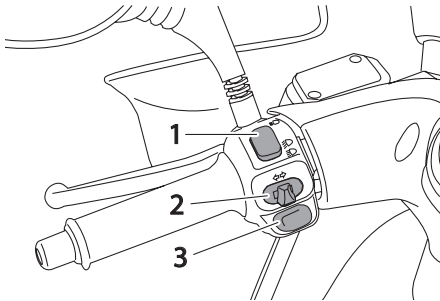
This model can be equipped with an optional anti-theft alarm by a Yamaha dealer. Contact a Yamaha dealer for more information.






INSTRUMENT AND CONTROL FUNCTIONS

EAU12347

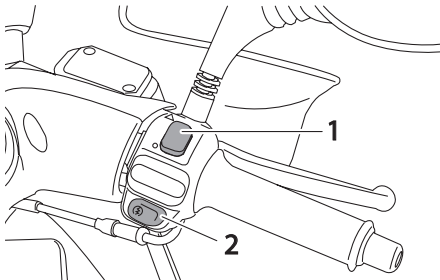
Handlebar switches



Left



1. Dimmer switch “ /  ”
2. Turn signal switch “ /  ”
3. Horn switch “ ”



Right



1. Hazard switch “ ”
2. Start switch “ ”



EAU51020

Dimmer switch “ / ”

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

EAU12460

Turn signal switch “ / ”

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

EAU12500

Horn switch “ ”

Press this switch to sound the horn.


EAU12721

Start switch “ ”

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

EAU12765

Hazard switch “ ”

With the key in the “ ” position, use this switch to turn on the hazard lights (simultaneous flashing of all turn signal lights).

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

ECA10061

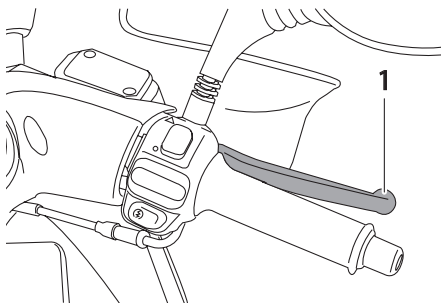
NOTICE

Do not use the hazard lights for an extended length of time with the engine not running, otherwise the battery may discharge.

INSTRUMENT AND CONTROL FUNCTIONS

EAU12900

Front brake lever

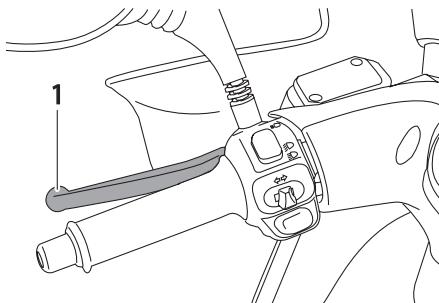


1. Front brake lever

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

EAU12950

Rear brake lever

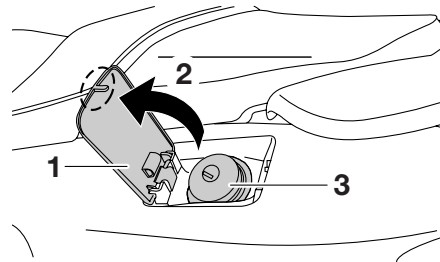


1. Rear brake lever

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

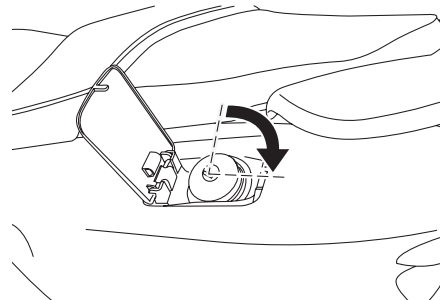
EAU1041

Fuel tank cap To open the fuel tank cap



1. Fuel tank cap cover
2. Open.
3. Fuel tank cap

1. Open the fuel tank cap cover by pushing in on the rear end of it.



INSTRUMENT AND CONTROL FUNCTIONS

2. Insert the key in the lock and turn it clockwise.

To close the fuel tank cap

1. Align the match marks, and then push the fuel tank cap into the original position.
2. Turn the key counterclockwise and remove it.
3. Close the fuel tank cover.

EWA11091

⚠ WARNING

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

EAU13221

Fuel

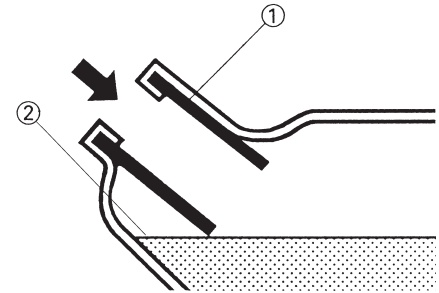
Make sure there is sufficient gasoline in the tank.

EWA10881

⚠ WARNING

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

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



1. Fuel tank filler tube

2. Fuel level

3. Wipe up any spilled fuel immediately. **NOTICE: Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts.** [ECA10071]
4. Be sure to securely close the fuel tank cap.

EWA15151

⚠ WARNING

Gasoline is poisonous and can cause injury or death. Handle gasoline with care. Never siphon gasoline by mouth. If you should swallow some gasoline or inhale a lot of gasoline vapor, or get some gasoline in your

INSTRUMENT AND CONTROL FUNCTIONS

eyes, see your doctor immediately. If gasoline spills on your skin, wash with soap and water. If gasoline spills on your clothing, change your clothes.

EAU13320

Recommended fuel:
REGULAR UNLEADED
GASOLINE ONLY

Fuel tank capacity:
10.5 L (2.77 US gal, 2.31 Imp.gal)

Fuel reserve amount:
3.0 L (0.79 US gal, 0.66 Imp.gal)

ECA11400

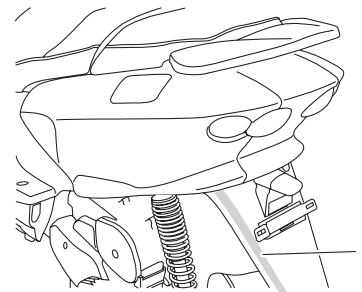
NOTICE

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

Your Yamaha engine has been designed to use 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.

Fuel tank breather/overflow hose

EAU39451



1. Fuel tank breather/overflow hose

Before operating the motorcycle:

- Check the fuel tank breather/overflow hose connection.
- Check the fuel tank breather/overflow hose for cracks or damage, and replace it if damaged.
- Make sure that the end of the fuel tank breather/overflow hose is not blocked, and clean it if necessary.

EAU13432

ECA10701

EAU13891

Catalytic converter

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

EWA10861

⚠ WARNING

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

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

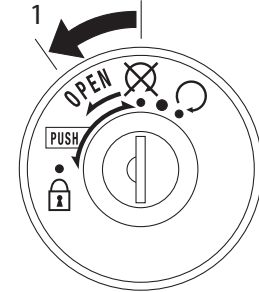
NOTICE

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

Seat

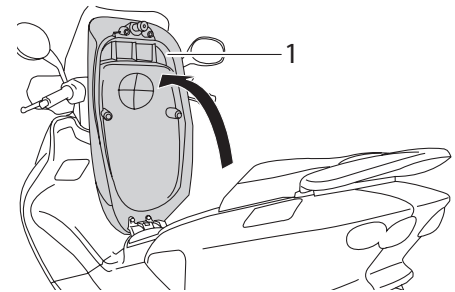
To open the seat

1. Insert the key in the lock, and then turn it as shown.



1. Open.

2. Fold the seat up.



1. Seat

INSTRUMENT AND CONTROL FUNCTIONS

To close the seat

1. Fold the seat down, and then push it down to lock it in place.
2. Remove the key.

TIP

Make sure that the seat is properly secured before riding.

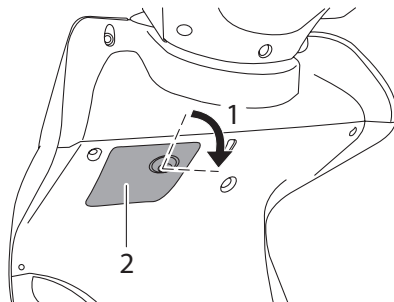
3

EAU14541

EWA10961

Storage compartment

To open the storage compartment



1. Open.
2. Front storage compartment lid

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

To close the storage compartment

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

⚠ WARNING

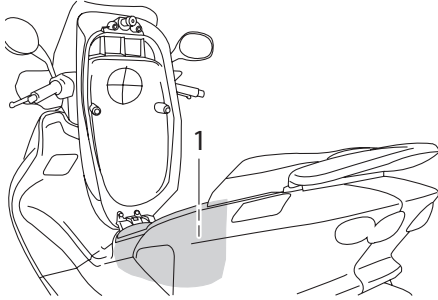
- Do not exceed the load limit of 0.5 kg (1.10 lb) for the storage compartment.
- Do not exceed the maximum load of 177 kg (390 lb) for the vehicle.

INSTRUMENT AND CONTROL FUNCTIONS

EAUM1191

ECA10080

Storage compartment



1. Storage compartment

There is a storage compartment under the seat. (See page 3-10).

EWA10961

⚠ WARNING

- Do not exceed the load limit of 10 kg (22 lb) for the storage compartment.
- Do not exceed the maximum load of 177 kg (390 lb) for the vehicle.

NOTICE

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

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

To store a helmet in the storage compartment, place the helmet with the front facing backward.

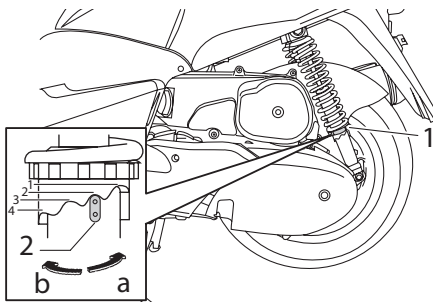
TIP

- Some helmets cannot be stored in the storage compartment because of their size or shape.
- Do not leave your scooter unattended with the seat open.

INSTRUMENT AND CONTROL FUNCTIONS

EAU14881

Adjusting the shock absorber assemblies



1. Spring preload adjusting ring
2. Position indicator

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

ECA10101

NOTICE

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

EWA10210

⚠ WARNING

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

Adjust the spring preload as follows. 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).

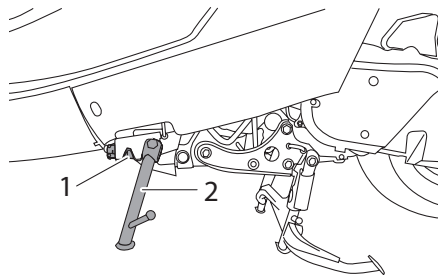
Align the appropriate notch in the adjusting ring with the position indicator on the shock absorber.

Spring preload setting:

- Minimum (soft):
1
- Standard:
2
- Maximum (hard):
4

EAU15301

Sidestand



1. Sidestand switch
2. Sidestand

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

TIP

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

EWA10240

EAU15362

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.

Ignition circuit cut-off system

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

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

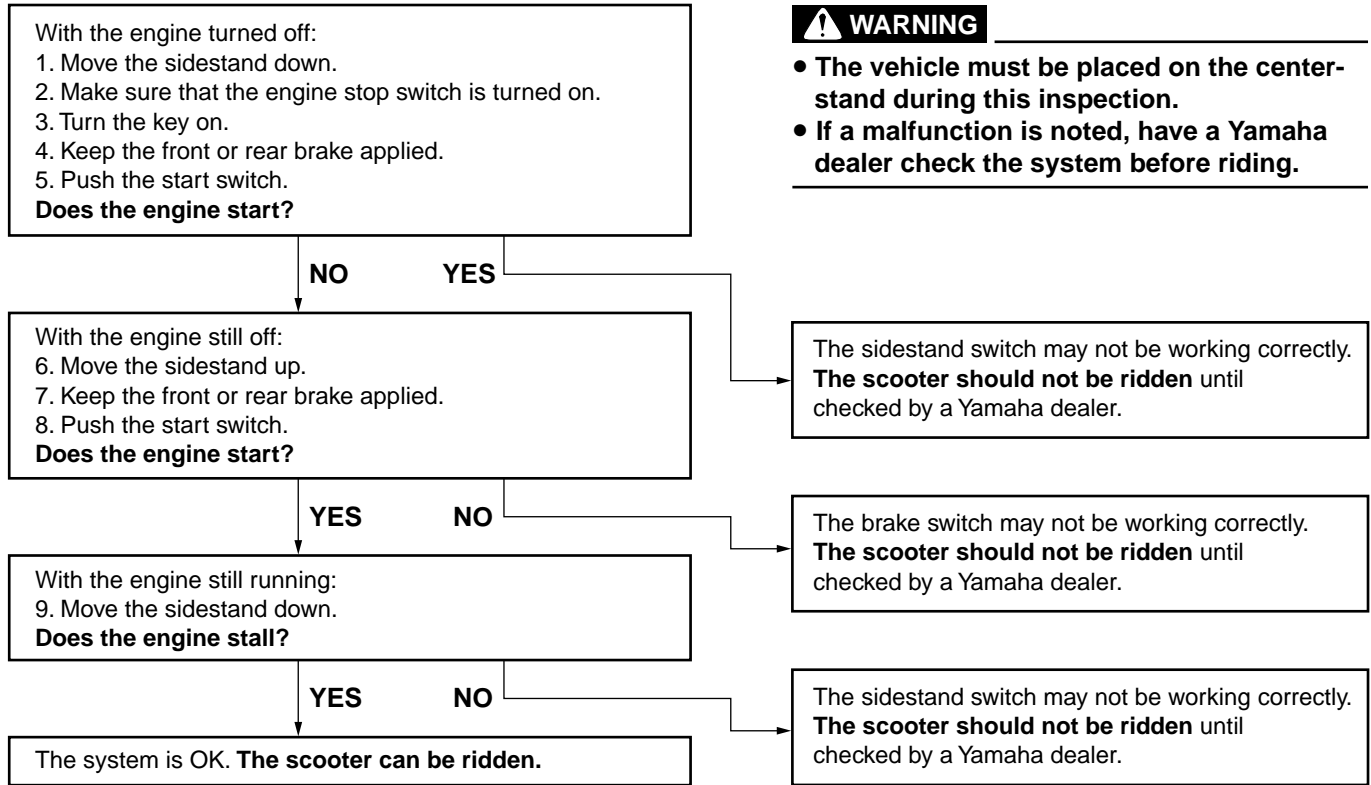
Periodically check the operation of the ignition circuit cut-off system according to the following procedure.

TIP

This check is most reliable if performed with a warmed-up engine.

INSTRUMENT AND CONTROL FUNCTIONS

3



FOR YOUR SAFETY – PRE-OPERATION CHECKS

EAU15595

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

EWA11151

WARNING

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

Before using this vehicle, check the following points:

FOR YOUR SAFETY – PRE-OPERATION CHECKS

EAU15605

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. 	3-8
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. 	6-9
Final transmission oil	<ul style="list-style-type: none"> • Check vehicle for oil leakage. 	6-11
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. 	6-12
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. 	6-18 , 6-19, 6-20, 6-21
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. 	6-18, 6-19, 6-20, 6-21
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. 	6-15
Wheels and tires	<ul style="list-style-type: none"> • Check for damage. • Check tire condition and tread depth. • Check air pressure. • Correct if necessary. 	6-16, 6-18

4

FOR YOUR SAFETY – PRE-OPERATION CHECKS

ITEM	CHECKS	PAGE
Brake levers	<ul style="list-style-type: none">• Make sure that operation is smooth.• Lubricate lever pivoting points if necessary.	6-21
Centerstand, sidestand	<ul style="list-style-type: none">• Make sure that operation is smooth.• Lubricate pivots if necessary.	6-22
Chassis fasteners	<ul style="list-style-type: none">• Make sure that all nuts, bolts and screws are properly tightened.• Tighten if necessary.	–
Instruments, lights, signals and switches	<ul style="list-style-type: none">• Check operation.• Correct if necessary.	–
Sidestand switch	<ul style="list-style-type: none">• Check operation of ignition circuit cut-off system.• If system is not working correctly, have Yamaha dealer check vehicle.	3-13
Battery	<ul style="list-style-type: none">• Check fluid level.• Fill with distilled water if necessary.	6-24

OPERATION AND IMPORTANT RIDING POINTS

EAU15951

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

EWA10271

⚠ WARNING

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

5

EAUM2171

Starting the engine

ECA10250

NOTICE

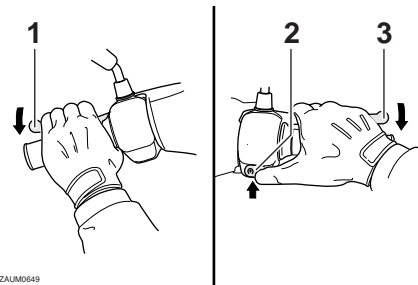
See page 5-4 for engine break-in instructions prior to operating the vehicle for the first time.

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

See page 3-14 for more information.

1. Turn the key to “ \bigcirc ”.
2. Close the throttle completely.
3. Start the engine by pushing the start switch while applying the front or rear brake. **NOTICE: For maximum engine life, never accelerate hard when the engine is cold!** [ECA11041]

If the engine does not 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. If the engine does not start, try with the throttle open 1/8 turn.



ZALUM0649

1. Rear brake lever
2. Start switch
3. Front brake lever

OPERATION AND IMPORTANT RIDING POINTS

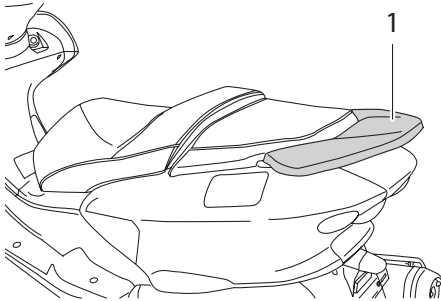
EAU16761

Starting off

TIP

Before starting off, allow the engine to warm up.

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.



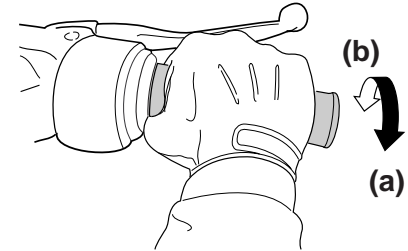
1. Grab bar

2. Sit astride the seat, and then adjust the rear view mirrors.
3. Switch the turn signals on.

4. Check for oncoming traffic, and then slowly turn the throttle grip (on the right) in order to take off.
5. Switch the turn signals off.

EAU16780

Acceleration and deceleration



ZAU00199

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

OPERATION AND IMPORTANT RIDING POINTS

EAU16793

EWA10300

EAU16820

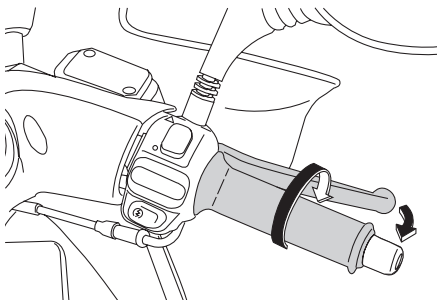
Braking

⚠ WARNING

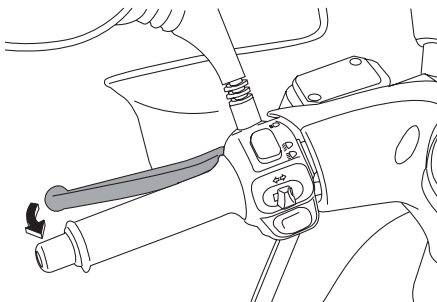
- Avoid braking hard or suddenly (especially when leaning over to one side), otherwise the scooter may skid or overturn.
- Railroad crossings, streetcar rails, iron plates on road construction sites, and manhole covers become extremely slippery when wet. Therefore, slow down when approaching such areas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

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

Front



Rear



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

EAU16830

Engine break-in

There is never a more important period in the life of your engine than the period between 0 and 1000 km (600 mi). For this reason, you should read the following material carefully.

Since the engine is brand new, do not put an excessive load on it for the first 1000 km (600 mi). The various parts in the engine wear and polish themselves to the correct operating clearances. During this period, prolonged full-throttle operation or any condition that might result in engine overheating must be avoided.

EAU16951

0–150 km (0–90 mi)

- Avoid prolonged operation above 1/3 throttle.
- After every hour of operation, stop the engine, and then let it cool for five to ten minutes.
- Vary the engine speed from time to time. Do not operate the engine at one set throttle position.

150–500 km (90–300 mi)

- Avoid prolonged operation above 1/2 throttle.
- Rev the engine freely through the gears, but do not use full throttle at any time.

500–1000 km (300–600 mi)

- Avoid prolonged operation above 3/4 throttle. **NOTICE: After 1000 km (600 mi) of operation, the engine oil must be changed and the oil strainer cleaned.**

[ECA10351]

1000 km (600 mi) and beyond

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

ECA10270

NOTICE

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

EAU17201

Parking

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

EWA10311

⚠ WARNING

- Since the engine and exhaust system can become very hot, park in a place where pedestrians or children are not likely to touch them and be burned.
- Do not park on a slope or on soft ground, otherwise the vehicle may overturn, increasing the risk of a fuel leak and fire.
- Do not park near grass or other flammable materials which might catch fire.

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU17281

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

⚠ WARNING

EWA10321

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

EWA15121

⚠ WARNING

Turn off the engine when performing maintenance unless otherwise specified.

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

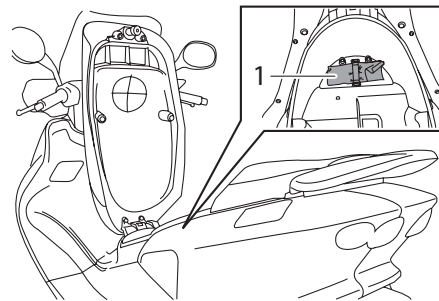
EWA10330

⚠ 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.

EAU17451

Owner's tool kit



1. Owner's tool kit

The owner's tool kit is located inside the storage compartment. (See page 3-12).

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.

PERIODIC MAINTENANCE AND ADJUSTMENT

TIP

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

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU17715

Periodic maintenance and lubrication chart

TIP

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

NO.	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING					ANNUAL CHECK
			1000 km (600 mi)	6000 km (3500 mi)	12000 km (7000 mi)	18000 km (10500 mi)	24000 km (14000 mi)	
1	* Fuel line	<ul style="list-style-type: none"> • Check fuel and vacuum hoses for cracks or damage. 		√	√	√	√	√
2	Spark plug	<ul style="list-style-type: none"> • Check condition. • Clean and regap. 		√			√	
		<ul style="list-style-type: none"> • Replace. 			√		√	
3	* Valves	<ul style="list-style-type: none"> • Check valve clearance. • Adjust. 		√	√	√	√	
4	Air filter element	<ul style="list-style-type: none"> • Clean. 		√		√		
		<ul style="list-style-type: none"> • Replace. 			√		√	
5	V-belt case air filter element	<ul style="list-style-type: none"> • Clean. 		√	√	√	√	
6	* Battery	<ul style="list-style-type: none"> • Check electrolyte level and specific gravity. • Make sure that the breather hose is properly routed. 		√	√	√	√	√

PERIODIC MAINTENANCE AND ADJUSTMENT

NO.	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING					ANNUAL CHECK
			1000 km (600 mi)	6000 km (3500 mi)	12000 km (7000 mi)	18000 km (10500 mi)	24000 km (14000 mi)	
7	* Front brake	• Check operation, fluid level and vehicle for fluid leakage.	√	√	√	√	√	√
		• Replace brake pads.	Whenever worn to the limit					
8	* Rear brake	• Check operation, fluid level and vehicle for fluid leakage.	√	√	√	√	√	√
		• Replace brake pads.	Whenever worn to the limit					
9	* Brake hoses	• Check for cracks or damage.		√	√	√	√	√
		• Replace.	Every 4 years					
10	* Wheels	• Check runout and for damage.		√	√	√	√	
11	* Tires	• Check tread depth and for damage. • Replace if necessary. • Check air pressure. • Correct if necessary.		√	√	√	√	√
12	* Wheel bearings	• Check bearing for looseness or damage.		√	√	√	√	
13	* Steering bearings	• Check bearing play and steering for roughness.	√	√	√	√	√	
		• Lubricate with lithium-soap-based grease.	Every 24000 km (14000 mi)					
14	* Chassis fasteners	• Make sure that all nuts, bolts and screws are properly tightened.		√	√	√	√	√
15	* Sidestand, centerstand	• Check operation. • Lubricate.		√	√	√	√	√
16	* Sidestand switch	• Check operation.	√	√	√	√	√	√
17	* Front fork	• Check operation and for oil leakage.		√	√	√	√	

PERIODIC MAINTENANCE AND ADJUSTMENT

NO.	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING					ANNUAL CHECK
			1000 km (600 mi)	6000 km (3500 mi)	12000 km (7000 mi)	18000 km (10500 mi)	24000 km (14000 mi)	
18 *	Shock absorber assemblies	<ul style="list-style-type: none"> Check operation and shock absorbers for oil leakage. 		√	√	√	√	
19 *	Carburetor	<ul style="list-style-type: none"> Adjust engine idling speed. 	√	√	√	√	√	√
20	Engine oil	<ul style="list-style-type: none"> Change. (See page 3-2). 	√	When the oil change indicator light comes on [every 3000 km (1800 mi)]				
		<ul style="list-style-type: none"> Check oil level and vehicle for oil leakage. 		Every 3000 km (1800 mi)				
21 *	Engine oil strainer	<ul style="list-style-type: none"> Clean. 	√					
22 *	Cooling system	<ul style="list-style-type: none"> Check coolant level and vehicle for coolant leakage. 		√	√	√	√	√
		<ul style="list-style-type: none"> Change. 	Every 3 years					
23	Final transmission oil	<ul style="list-style-type: none"> Check vehicle for oil leakage. 	√	√		√		
		<ul style="list-style-type: none"> Change. 	√		√		√	
24 *	V-belt	<ul style="list-style-type: none"> Replace. 	Every 10000 km (6000 mi)					
25 *	Front and rear brake switches	<ul style="list-style-type: none"> Check operation. 	√	√	√	√	√	√
26	Moving parts and cables	<ul style="list-style-type: none"> Lubricate. 		√	√	√	√	√
27 *	Throttle grip housing and cable	<ul style="list-style-type: none"> Check operation and free play. Adjust the throttle cable free play if necessary. Lubricate the throttle grip housing and cable. 		√	√	√	√	√

PERIODIC MAINTENANCE AND ADJUSTMENT

NO.	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING					ANNUAL CHECK
			1000 km (600 mi)	6000 km (3500 mi)	12000 km (7000 mi)	18000 km (10500 mi)	24000 km (14000 mi)	
28	* Mufflers and exhaust	<ul style="list-style-type: none"> • Check the screw clamps for looseness. 	√	√	√	√	√	√
29	* Lights, signals and switches	<ul style="list-style-type: none"> • Check operation. • Adjust headlight beam. 	√	√	√	√	√	√

EAUM2070

TIP

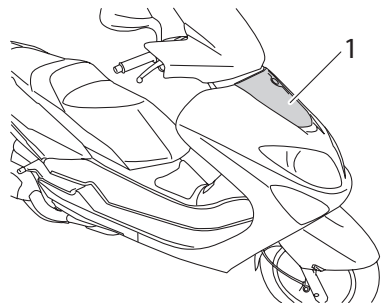
- The air filter needs more frequent service if you are riding in unusually wet or dusty areas.
- Hydraulic brake service
 - Regularly check and, if necessary, correct the brake fluid level.
 - Every two years change the brake fluid.
 - Replace the brake hoses every four years and if cracked or damaged.

PERIODIC MAINTENANCE AND ADJUSTMENT

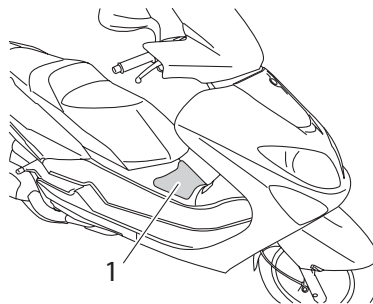
EAU18771

Removing and installing panels

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



1. Panel A

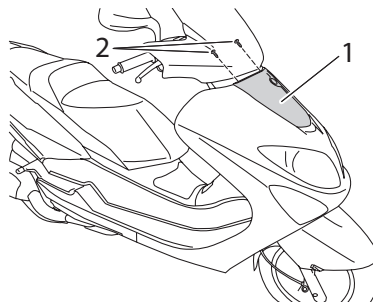


1. Panel B

Panel A

To remove the panel

1. Remove the screws, and then take the panel off.



1. Panel A
2. Screw

EAUS1490

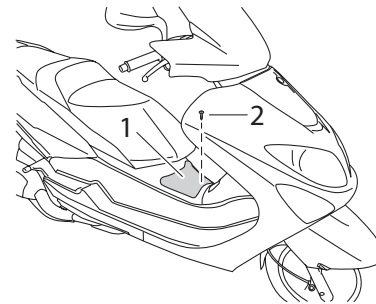
To install the panel

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

Panel B

To remove the panel

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



1. Panel B
2. Screw

To install the panel

1. Place the panel in the original position, and then install the screw.

PERIODIC MAINTENANCE AND ADJUSTMENT

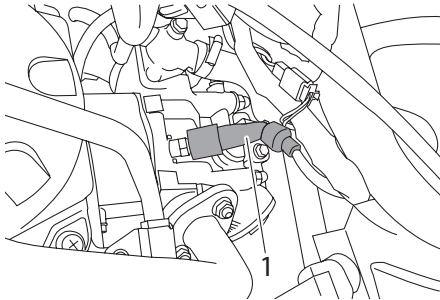
EAU19603

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.

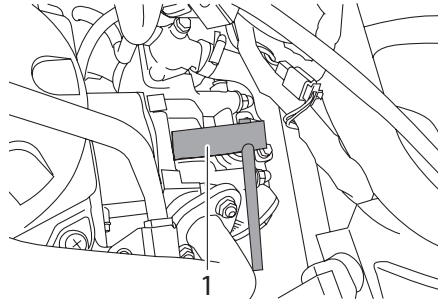
To remove the spark plug

1. Remove the spark plug cap.



1. Spark plug cap

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



1. Spark plug wrench

To check the spark plug

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

TIP

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

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

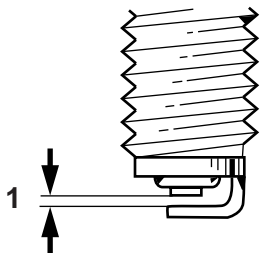
Specified spark plug:
NGK/ CR8E

To install the spark plug

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

PERIODIC MAINTENANCE AND ADJUSTMENT

EAUM1261



ZALUM0037

1. Spark plug gap

Spark plug gap:

0.7–0.8 mm (0.028–0.031 in)

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:

20 Nm (2.0 m•kgf, 14.5 ft•lbf)

TIP

If a torque wrench is not available when installing a spark plug, a good estimate of the correct torque is

1/4–1/2 turn past finger tight. However, the spark plug should be tightened to the specified torque as soon as possible.

4. Install the spark plug cap.

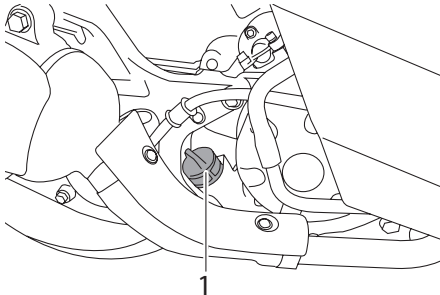
Engine oil

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 oil change indicator display comes on.

To check the engine oil level

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

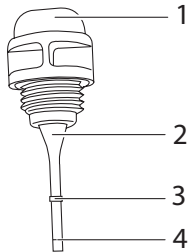
PERIODIC MAINTENANCE AND ADJUSTMENT



1. Engine oil filler cap

TIP

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

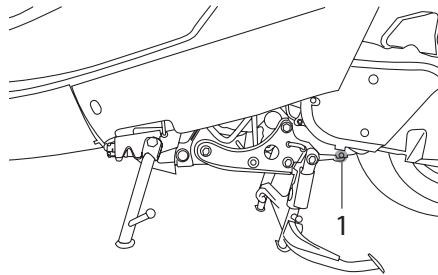


1. Engine oil filler cap
2. Dipstick
3. Maximum level mark
4. Minimum level mark

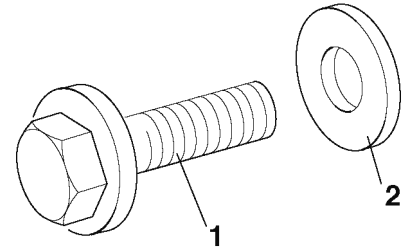
4. If the engine oil is below the minimum level mark, add sufficient oil of the recommended type to raise it to the correct level.
5. Insert the dipstick into the oil filler hole, and then tighten the oil filler cap.

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.
3. Remove the engine oil filler cap and the engine oil drain bolt to drain the oil from the crankcase.



1. Engine oil drain bolt



1. Engine oil drain bolt
2. Washer

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.

Tightening torque:

Engine oil drain bolt:
32 Nm (3.2 m•kgf, 23.1 ft•lbf)

TIP

Make sure that the washer is properly seated.

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU20064

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

Recommended engine oil:

See page 8-1

Oil change quantity:

1.20 L (1.27 US qt, 1.06 Imp.qt)

ECA11670

NOTICE

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

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 display according to the following procedure.

To reset the oil change indicator display

1. Push the reset button while turning the key to “○”.
2. Release the reset button, and the oil change indicator display will go off.

TIP

If the engine oil is changed before the oil change indicator light comes on (i.e. before the periodic oil change interval has been reached), the indicator light must be reset after the oil change for the next periodic oil change to be indicated at the correct time. To reset the oil change indicator light before the periodic oil change interval has been reached, follow the above procedure.

Final transmission oil

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

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

PERIODIC MAINTENANCE AND ADJUSTMENT

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.

EAU20103

To check the coolant level

1. Place the vehicle on the centers-stand.

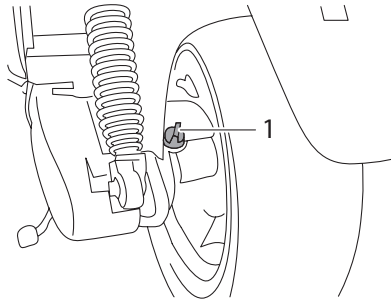
TIP

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

2. Check the coolant level in the coolant reservoir.

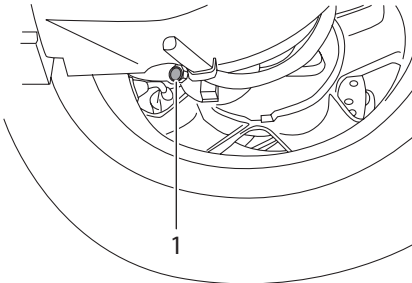
TIP

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



1. Final transmission oil filler cap

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



1. Final transmission oil drain bolt

Tightening torque:

Final transmission oil drain bolt:
22 Nm (2.2 m•kgf, 15.9 ft•lbf)

6. Refill with the specified amount of the recommended final transmission oil, and then install and tighten the oil filler cap. **WARNING! Make sure that no foreign material enters the final transmission case. Make sure that no oil gets on the tire or wheel.** [EWA11311]

Recommended final transmission oil:

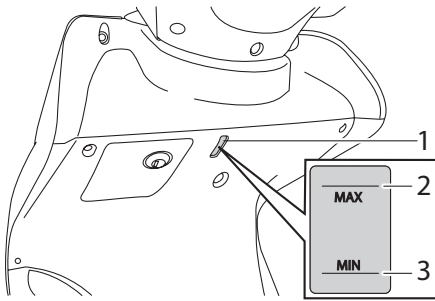
See page 8-1

Oil quantity:

0.15 L (0.16 US qt, 0.13 Imp.qt)

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

PERIODIC MAINTENANCE AND ADJUSTMENT



1. Coolant level check window
2. Maximum level mark
3. Minimum level mark

engine. If water has been used instead of coolant, replace it with coolant as soon as possible, otherwise the cooling system will not be protected against frost and corrosion. If water has been added to the coolant, have a Yamaha dealer check the antifreeze content of the coolant as soon as possible, otherwise the effectiveness of the coolant will be reduced. [ECA10472]

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

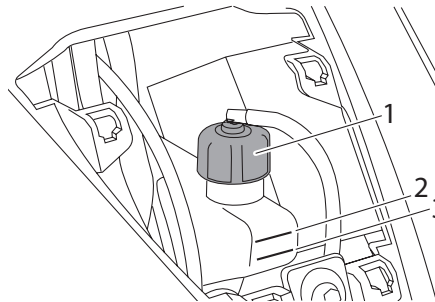
0.30 L (0.32 US qt, 0.26 Imp.qt)

EAU33031

Changing the coolant

The coolant must be changed at the intervals specified in the periodic maintenance and lubrication chart. Have a Yamaha dealer change the coolant. **WARNING! Never attempt to remove the radiator cap when the engine is hot.** [EWA10381]

3. If the coolant is at or below the minimum level mark, remove panel A (See page 6-7), remove the reservoir cap, add coolant to the maximum level mark, and then install the reservoir cap and the panel. **WARNING! Remove only the coolant reservoir cap. Never attempt to remove the radiator cap when the engine is hot.** [EWA15161]. **NOTICE: If coolant is not available, use distilled water or soft tap water instead. Do not use hard water or salt water since it is harmful to the**



1. Coolant reservoir cap
2. Maximum level mark
3. Minimum level mark

PERIODIC MAINTENANCE AND ADJUSTMENT

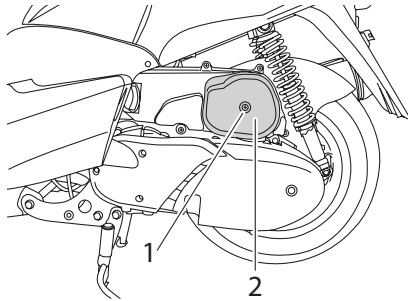
EAUM1321

Air filter and V-belt case air filter elements

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

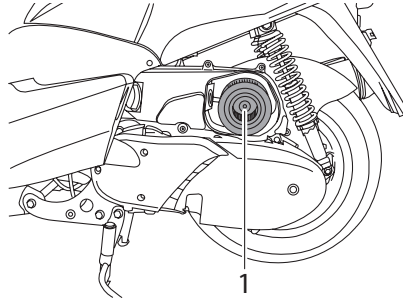
Cleaning the air filter element

1. Place the scooter on the centerstand.
2. Remove the air filter case cover by removing the screw.



1. Screw
2. Air filter case cover

3. Pull the air filter element out.

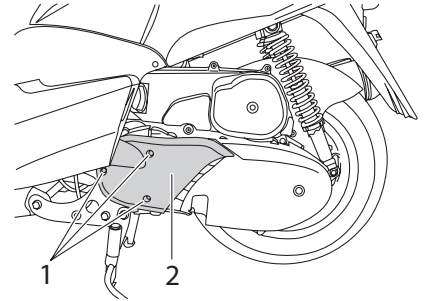


1. Air filter element

4. Lightly tap the air filter element to remove most of the dust and dirt, and then blow the remaining dirt out with compressed air.
5. Check the air filter element for damage and replace it if necessary.
6. Insert the air filter element into the air filter case.
7. Install the air filter case cover by installing the screw.

Cleaning the V-belt case air filter element

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



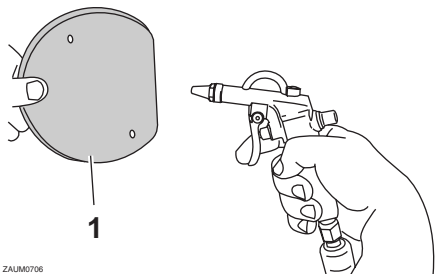
1. Screw
2. V-belt case air filter cover

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

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU21300

EAU21370



ZAJUM0706

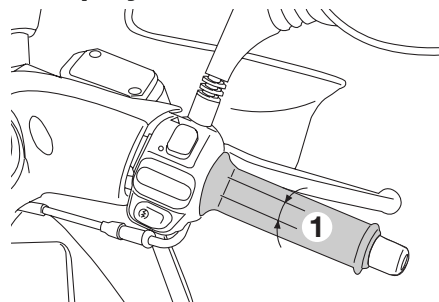
1. V-belt case air filter element

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.
NOTICE: Make sure that each filter element is properly seated in its case. The engine should never be operated without the filter elements installed, otherwise the piston(s) and/or cylinder(s) may become excessively worn. [ECA10531]

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.

Adjusting the throttle cable free play



1. Throttle cable free play

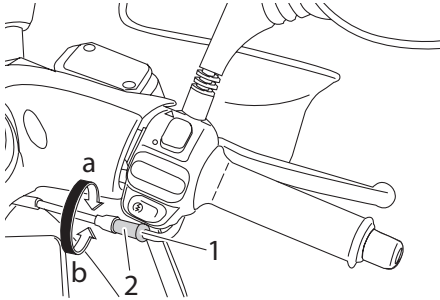
The throttle cable free play should measure 4.0–6.0 mm (0.16–0.24 in) at the throttle grip. Periodically check the throttle cable free play and, if necessary, adjust it as follows.

TIP

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

1. Loosen the locknut.
2. 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).



1. Locknut
2. Adjusting nut

3. Tighten the locknut.

EAU21401

Valve clearance

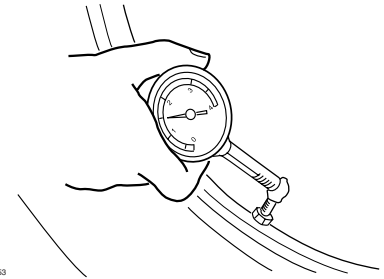
The valve clearance changes with use, resulting in improper air-fuel mixture and/or engine noise. To prevent this from occurring, the valve clearance must be adjusted by a Yamaha dealer at the intervals specified in the periodic maintenance and lubrication chart.

EAU21872

Tires

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

Tire air pressure



ZAUM0053

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

EWA10501

⚠ WARNING

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

- The tire air pressure must be checked and adjusted on cold tires (i.e., when the temperatu-

PERIODIC MAINTENANCE AND ADJUSTMENT

re 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):

0–90 kg (0–198 lb):

Front:

190 kPa (1.90 kgf/cm², 28 psi, 1.90 bar)

Rear:

220 kPa (2.20 kgf/cm², 32 psi, 2.20 bar)

90 Kg – maximum load:

Front:

190 kPa (1.90 kgf/cm², 28 psi, 1.90 bar)

Rear:

240 kPa (2.40 kgf/cm², 35 psi, 2.40 bar)

Maximum load*:

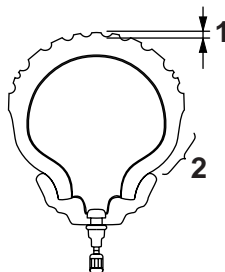
177 kg (390 lb)

* Total weight of rider, passenger, cargo and accessories

WARNING

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

Tire inspection



1. Tire tread depth
2. Tire sidewall

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)

EWA10511

TIP

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

Tire information

This model is equipped with tubeless tires.

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

Front tire:

Size:

120 / 70 - 12 51L

Manufacturer/model:

PIRELLI / SL66

MICHELIN / BOOPER

CONTINENTAL / ZIPPY 1

Rear tire:

Size:

130 / 70 - 12 56L

Manufacturer/model:

PIRELLI / SL66

MICHELIN / BOOPER

CONTINENTAL / ZIPPY 1

⚠ 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.**

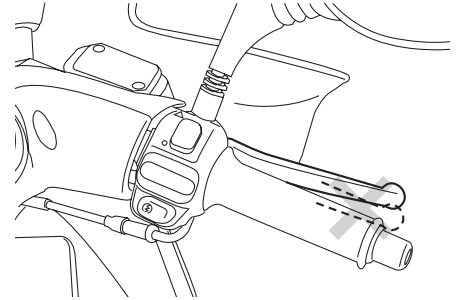
Cast wheels

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

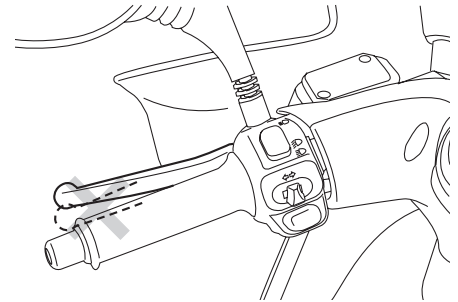
- The wheel rims should be checked for cracks, bends or warpage before each ride. If any damage is found, have a Yamaha dealer replace the wheel. Do not attempt even the smallest repair to the wheel. A deformed or cracked wheel must be replaced.
- The wheel should be balanced whenever either the tire 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

Front



Rear



There should be no free play at the brake lever ends. If there is free play,

PERIODIC MAINTENANCE AND ADJUSTMENT

have a Yamaha dealer inspect the brake system.

EWA14211

⚠ WARNING

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

6

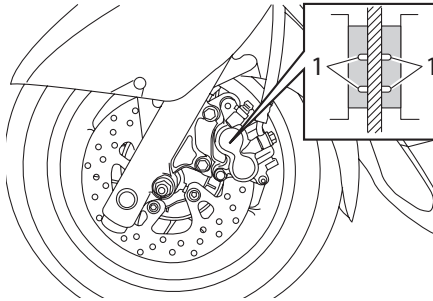
Checking the front and rear brake pads

EAU22390

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

Front brake pads

EAU22430



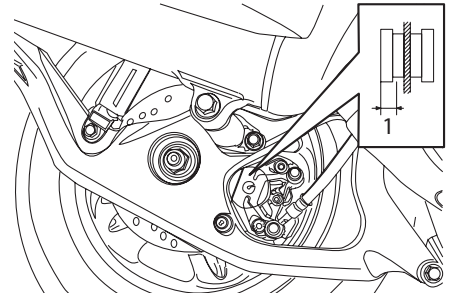
1. Brake pad wear indicator groove

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

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

Rear brake pads

EAU22500



1. Lining thickness

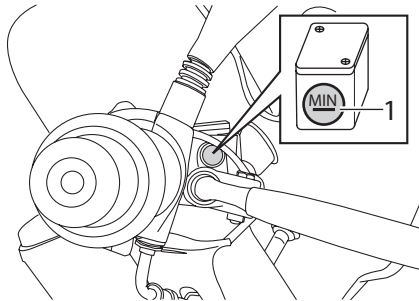
Check each rear brake pad for damage and measure the lining thickness. If a brake pad is damaged or if the lining thickness is less than 3.8 mm (0.15 in), have a Yamaha dealer replace the brake pads as a set.

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU22580

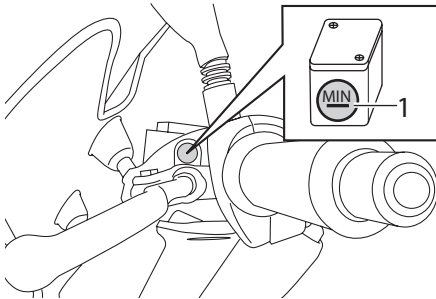
Checking the brake fluid level

Front brake



1. Minimum level mark

Rear brake



1. Minimum level mark

Insufficient brake fluid may allow air to enter the brake system, possibly causing it to become ineffective. Before riding, check that the brake fluid is above the minimum level mark and replenish if necessary. A low brake fluid level may indicate worn brake pads and/or brake system leakage. If the brake fluid level is low, be sure to check the brake pads for wear and the brake system for leakage.

Observe these precautions:

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

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.

- 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.

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU22721

Changing the brake fluid

Have a Yamaha dealer change the brake fluid at the intervals specified in the TIP after the periodic maintenance and lubrication chart. In addition, have the oil seals of the brake master cylinder and caliper as well as the brake hose replaced at the intervals listed below or whenever they are damaged or leaking.

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

6

EAU23101

Checking and lubricating the cables

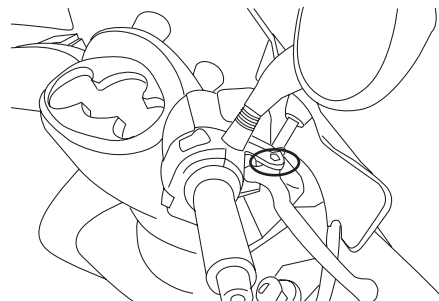
The operation of all control cables and the condition of the cables should be checked before each ride, and the cables and cable ends should be lubricated if necessary. If a cable is damaged or does not move smoothly, have a Yamaha dealer check or replace it. **WARNING! Damage to the outer sheath may interfere with proper cable operation and will cause the inner cable to rust. Replace a damaged cable as soon as possible to prevent unsafe conditions.** [EWA10721]

Recommended lubricant:
Engine oil

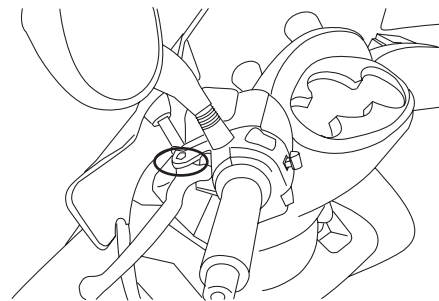
EAU23172

Lubricating the front and rear brake levers

Front brake lever



Rear brake lever



The pivoting points of the front and rear brake levers must be lubricated

PERIODIC MAINTENANCE AND ADJUSTMENT

at the intervals specified in the periodic maintenance and lubrication chart.

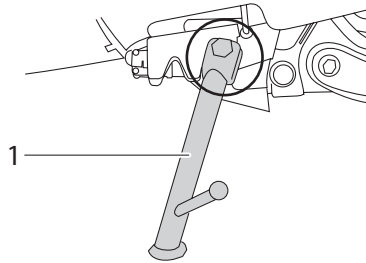
EAU23213

Checking and lubricating the centerstand and sidestand

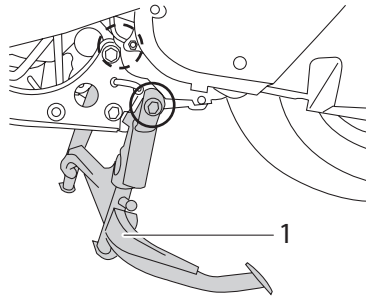
The operation of the centerstand and sidestand should be checked before each ride, and the pivots and metal-to-metal contact surfaces should be lubricated if necessary.

EWA10741

Recommended lubricant:
Silicone grease



1. Sidestand



1. Centerstand

⚠ WARNING

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

Recommended lubricant:
Lithium-soap-based grease

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU23272

Checking the front fork

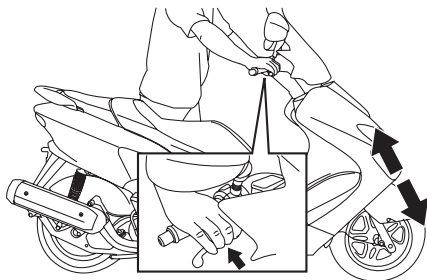
The condition and operation of the front fork must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart.

To check the condition

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

To check the operation

1. Place the vehicle on a level surface and hold it in an upright position. **WARNING! To avoid injury, securely support the vehicle so there is no danger of it falling over.** [EWA10751]
2. While applying the front brake, push down hard on the handlebars several times to check if the front fork compresses and rebounds smoothly.



ECA10590

NOTICE

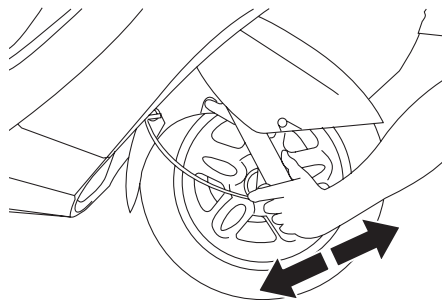
If any damage is found or the front fork does not operate smoothly, have a Yamaha dealer check or repair it.

EAU45511

Checking the steering

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

1. Place the vehicle on the centerstand. **WARNING! To avoid injury, securely support the vehicle so there is no danger of it falling over.** [EWA10751]
2. Hold the lower ends of the front fork legs and try to move them forward and backward. If any free play can be felt, have a Yamaha dealer check or repair the steering.



PERIODIC MAINTENANCE AND ADJUSTMENT

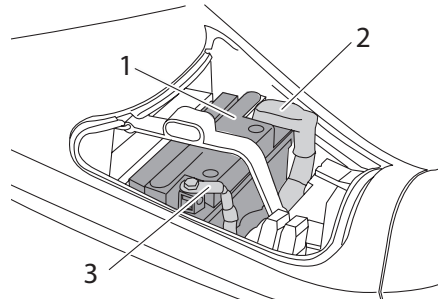
EAU23290

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.

EAU11403

Battery



1. Battery
2. Positive battery terminal
3. Negative battery terminal

A poorly maintained battery will corrode and discharge quickly. The electrolyte level, battery lead connections and breather hose routing should be checked before each ride and at the intervals specified in the periodic maintenance and lubrication chart.

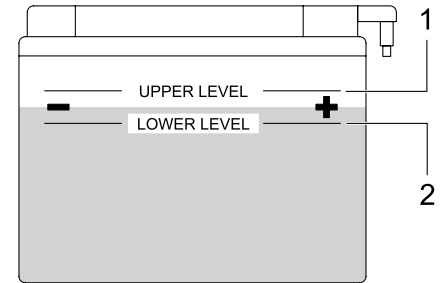
To check the electrolyte level

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

TIP

Make sure that the scooter is positioned straight up when checking the electrolyte level.

2. Remove panel B. (See page 6-7).
3. Check the electrolyte level in the battery.



1. Maximum level mark
2. Minimum level mark

TIP

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

4. If the electrolyte is at or below the minimum level mark, add distilled water to raise it to the maximum level mark. **NOTICE: Use only distilled water, as tap water**

PERIODIC MAINTENANCE AND ADJUSTMENT

contains minerals that are harmful to the battery. [ECA10611] 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.**

5. Check and, if necessary, tighten the battery lead connections and correct the breather hose routing.

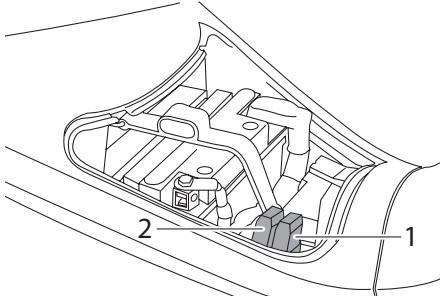
To store the battery

1. If the scooter will not be used for more than one month, remove the battery, fully charge it, and then place it in a cool, dry place.
NOTICE: When removing the battery, be sure the key is turned to “
 4. After installation, make sure that the battery leads are properly connected to the battery terminals and that the breather hose is properly routed, in good condition, and not obstructed. **NOTICE:** If the breather hose is positioned in such a way that the frame is exposed to electrolyte or gas expelled from the battery, the frame could suffer structural and external damages. [ECA10601]

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU23631

Replacing the fuses



1. Main fuse
2. Radiator fan fuse

The main fuse box and the fuse box, which contains the fuses for the individual circuits, are located under panel B. (See page 6-7).

If a fuse is blown, replace it as follows.

1. Turn the key to “ \otimes ” and turn off the electrical circuit in question.
2. Remove the blown fuse, and then install a new fuse of the specified amperage. **WARNING! Do not use a fuse of a higher amperage rating than recommended to avoid causing extensive**

damage to the electrical system and possibly a fire. [EWA15131]

Specified fuses:

- Main fuse:
20.0 A
- Radiator fan fuse:
4.0A

3. Turn the key to “ \circ ” 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.

EAU1373

Replacing a headlight bulb

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

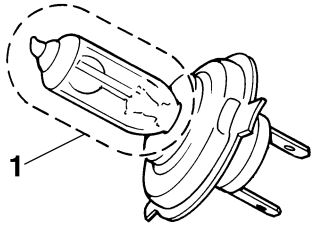
ECA10650

NOTICE

Take care not to damage the following parts:

- **Headlight bulb**
Do not touch the glass part of the headlight bulb to keep it free from oil, otherwise the transparency of the glass, the luminosity of the bulb, and the bulb life will be adversely affected. Thoroughly clean off any dirt and fingerprints on the headlight bulb using a cloth moistened with alcohol or thinner.
- **Headlight lens**
Do not affix any type of tinted film or stickers to the headlight lens.
Do not use a headlight bulb of a wattage higher than specified.

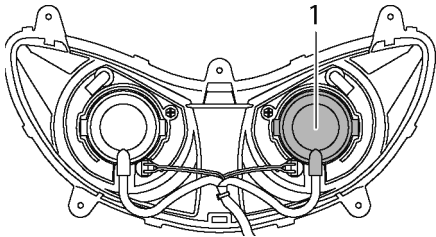
PERIODIC MAINTENANCE AND ADJUSTMENT



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

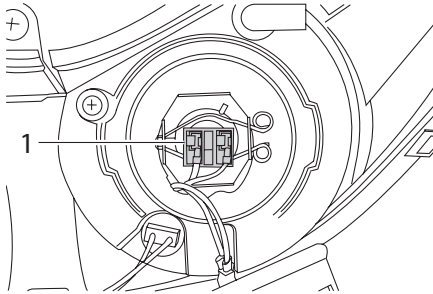
To replace the low beam headlight bulb

1. Remove panel A. (See page 6-7).
2. Remove the headlight bulb cover.



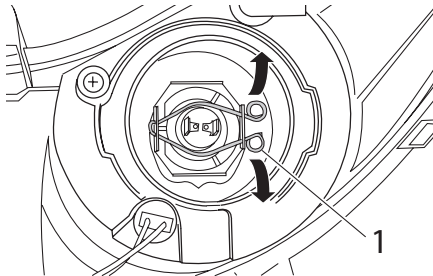
1. Headlight bulb cover

3. Disconnect the headlight coupler.



1. Headlight coupler

4. Unhook the headlight bulb holder, and then remove the burnt-out bulb.

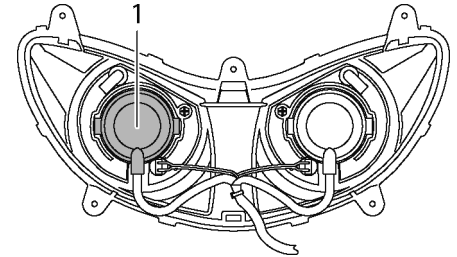


1. Headlight bulb holder

5. Place a new headlight bulb into position, and then secure it with the bulb holder.
6. Connect the headlight coupler.
7. Install the headlight bulb cover.
8. Install the panel.
9. Have a Yamaha dealer adjust the headlight beam if necessary.

To replace the high beam headlight bulb

1. Remove panel A. (See page 6-7).
2. Remove the bulb cover.

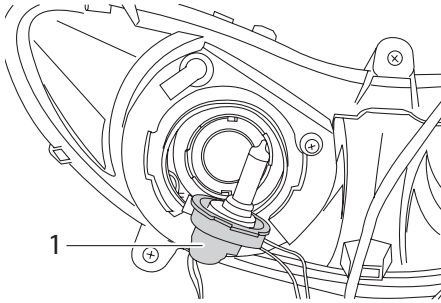


1. Headlight bulb cover

3. Unhook the headlight bulb holder by turning it counterclockwise, and then remove the burnt-out bulb.

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU24252

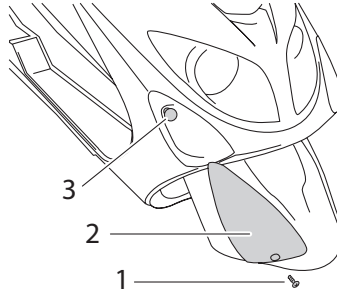


1. Headlight bulb holder

4. Place a new headlight bulb into position, and then secure it with the bulb holder by turning it clockwise.
5. Install the headlight bulb cover.
6. Install the panel.
7. Have a Yamaha dealer adjust the headlight beam if necessary.

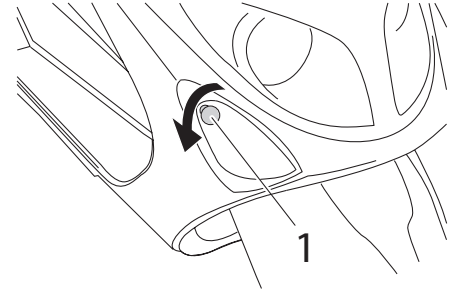
Replacing a front turn signal light bulb

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



1. Screw
2. Turn signal light lens
3. Turn signal light bulb

2. Remove the burnt-out bulb by pushing it in and turning it counterclockwise.



1. Bulb

3. Insert a new bulb into the socket, push it in, and then turn it clockwise until it stops.
4. Install the lens by installing the screw. **NOTICE: Do not overtighten the screw, otherwise the lens may break.** [ECA11191]

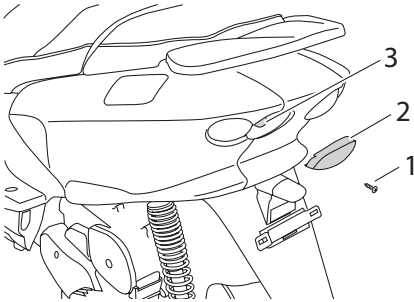
PERIODIC MAINTENANCE AND ADJUSTMENT

EAUS1133

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

Tail/brake light bulb

1. Remove the tail/brake light lens by removing the screw.



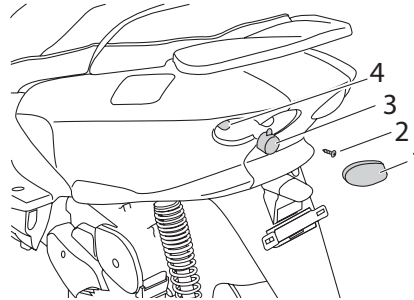
1. Screw
2. Tail/brake light lens
3. Bulb

2. Remove the burnt-out 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 screw. **NOTICE: Do not overtighten the screws, otherwise the lens may break.** [ECA10681]

Rear turn signal light bulb

1. Remove the left or right tail/brake light lens by removing the screw.
2. Remove the turn signal light lens by pulling it backwards.
3. Remove the turn signal light bulb lens by removing the screw.



1. Turn signal light lens
2. Screw
3. Turn signal light bulb lens
4. Bulb

4. Remove the burnt-out bulb by pushing it in and turning it counterclockwise.

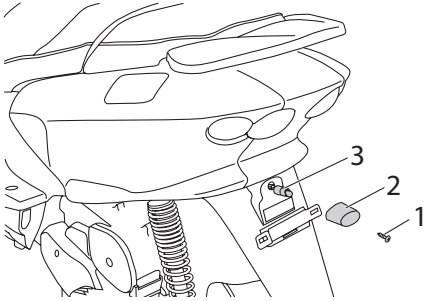
5. Insert a new bulb into the socket, push it in, and then turn it clockwise until it stops.
6. Install the turn signal light bulb lens by installing the screw. **NOTICE: Do not overtighten the screws, otherwise the lens may break.** [ECA10681]
7. Install the turn signal light lens.
8. Install the tail/brake light lens by installing the screw. **NOTICE: Do not overtighten the screws, otherwise the lens may break.**

[ECA10681]

EAU42651

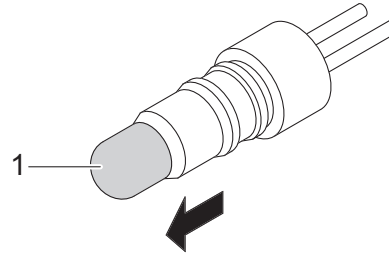
Replacing the license plate light bulb

1. Remove the license plate light cover by removing the screw.



1. Screw
2. License plate light cover
3. License plate light bulb socket

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



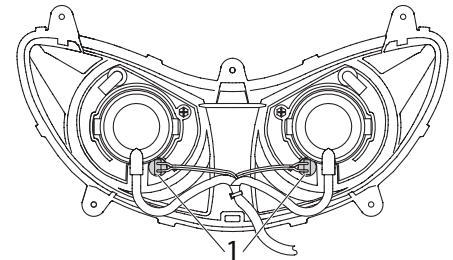
1. Bulb
3. Remove the burnt out bulb by pulling it out.
4. Insert a new bulb into the socket.
5. Install the socket (together with the bulb) by pushing it in.
6. Install the license plate light cover by installing the screw.

EAU42651

Replacing an auxiliary light bulb

This model is equipped with two auxiliary lights. If an auxiliary light bulb burns out, replace it as follows.

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



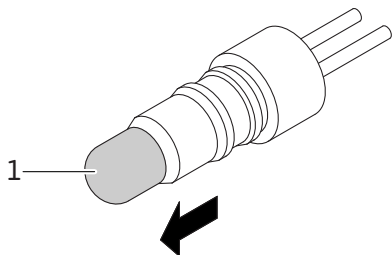
1. Auxiliary light bulb socket

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

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU25881

EWA15141



1. Auxiliary light bulb

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

6

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.

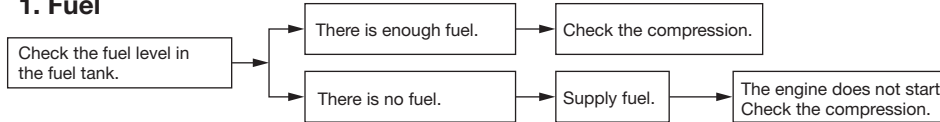
WARNING

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

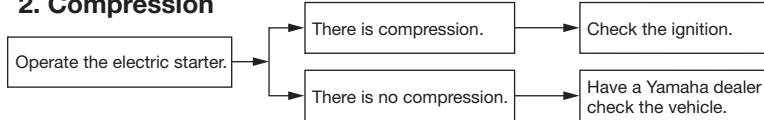
Troubleshooting charts

Starting problems or poor engine performance

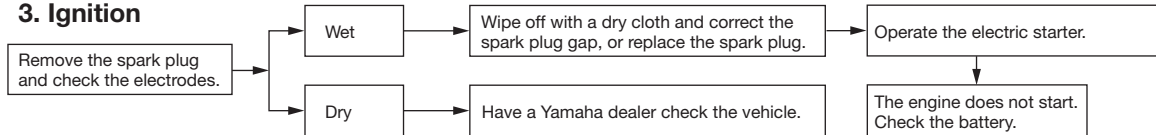
1. Fuel



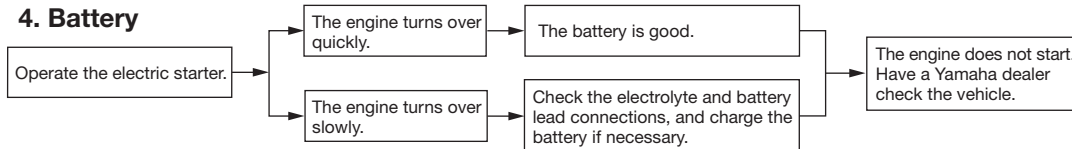
2. Compression



3. Ignition



4. Battery



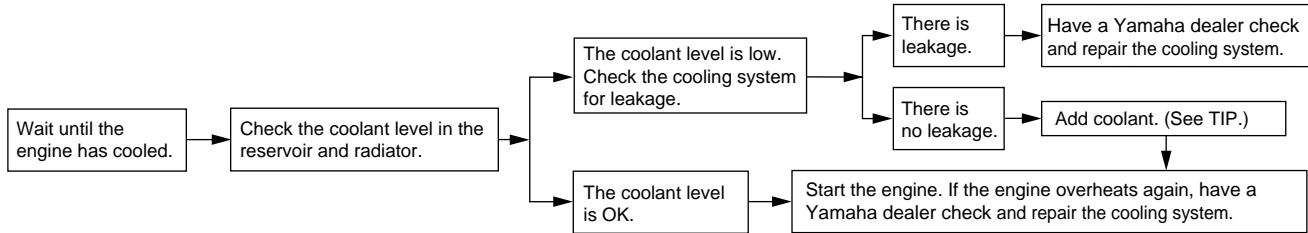
PERIODIC MAINTENANCE AND ADJUSTMENT

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.



TIP

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

SCOOTER CARE AND STORAGE

Matte color caution

EAU37833

EAU26092

NOTICE

Some models are equipped with matte colored finished parts. Be sure to consult a Yamaha dealer for advice on what products to use before cleaning the vehicle.

Using a brush, harsh chemical products or cleaning compounds when cleaning these parts will scratch or damage their surface. Wax also should not be applied to any matte colored finished parts.

ECA15192

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

ECA10781

NOTICE

- Avoid using strong acidic wheel cleaners, especially on spoked wheels. If such products are used on hard-to-remove dirt, do not leave the cleaner on the affected area any longer than instructed. Also, thoroughly rinse the area off with water, immediately dry it, and then apply a corrosion protection spray.
- Improper cleaning can damage plastic parts such as cowlings, panels, windshields, headlight lenses, meter lenses, etc. 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

SCOOTER CARE AND STORAGE

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.**
-

After normal use

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

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

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

TIP

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

1. Clean the scooter with cold water and a mild detergent after the engine has cooled down. **NOTICE: Do not use warm water**

since it increases the corrosive action of the salt. [ECA10791]

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.

EWA10941

⚠ WARNING

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

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

ECA10800

NOTICE

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

TIP

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

EAU26301

Storage

Short-term

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

ECA10820

NOTICE

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

Long-term

Before storing your scooter for several months:

1. Follow all the instructions in the “Care” section of this chapter.
2. 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.

SCOOTER CARE AND STORAGE

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.) **WARNING! To prevent damage or injury from sparking, make sure to ground the spark plug electrodes while turning the engine over.** [EWA10951]
 - e. Remove the spark plug cap from the spark plug, and then
- install the spark plug and the spark plug cap.
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 information on storing the battery, see page 6-24.

TIP

Make any necessary repairs before storing the scooter.

Dimensions:

Overall length:
2030 mm (79.9 in)
Overall width:
745 mm (29.3 in)
Overall height:
1285 mm (50.6 in)
Seat height:
774 mm (30.5 in)
Wheelbase:
1480 mm (58.3 in)
Ground clearance:
102 mm (4.02 in)
Minimum turning radius:
3840 mm (151.2 in)

Weight:

With oil and fuel:
148.0 kg (326 lb)

Engine:

Engine type:
Liquid cooled 4-stroke, SOHC
Cylinder arrangement:
Forward-inclined single cylinder
Displacement:
124.1 cm³
Bore x stroke:
53.7 x 54.8 mm (2.11 x 2.16 in)
Compression ratio:
11.00 :1
Starting system:
Electric starter
Lubrication system:
Wet sump

Engine oil:

Type:
SAE 10W-30, SAE 10W-40, SAE 20W-40
or SAE 20W-50
Recommended engine oil grade:
API service SE, SF, SG type or higher

Engine oil quantity:

Periodic oil change:
1.20 L (1.27 US qt, 1.06 Imp.qt)

Final transmission oil:

Type:
SAE 10W-30 type SE motor oil
Quantity:
0.15 L (0.16 US qt, 0.13 Imp.qt)

Cooling system:

Coolant reservoir capacity (up to the maximum level mark):
0.30 L (0.32 US qt, 0.26 Imp.qt)
Radiator capacity (including all routes):
1.20 L (1.27 US qt, 1.06 Imp.qt)

Air filter:

Air filter element:
Dry element

Fuel:

Recommended fuel:
Regular unleaded gasoline only
Fuel tank capacity:
10.5 L (2.77 US gal, 2.31 Imp.gal)
Fuel reserve amount:
3.0 L (0.79 US gal, 0.66 Imp.gal)

Carburetor:

Manufacturer:
MINARELLI

Type x quantity:

TK 5DS x 1

Spark plug (s):

Manufacturer/model:
NGK/ CR8E
Spark plug gap:
0.7–0.8 mm (0.028–0.031 in)

Clutch:

Clutch type:
Dry, centrifugal automatic

Transmission:

Primary reduction system:
Helical gear
Primary reduction ratio:
40 x 15 (2.666)
Secondary reduction system:
Helical gear
Secondary reduction ratio:
40 x 15 (2.666)
Transmission type:
V-belt automatic
Operation:
Centrifugal automatic type

Chassis:

Frame type:
Steel tube underbone
Caster angle:
28.00 °
Trail:
104.0 mm (4.09 in)

Front tire:

Type:
Tubeless

SPECIFICATIONS

Size:
120 / 70 - 12 51L
Manufacturer/model:
PIRELLI / SL66
Manufacturer/model:
MICHELIN / BOOPER
Manufacturer/model:
CONTINENTAL / ZIPPY 1

Rear tire:

Type:
Tubeless
Size:
130 / 70 - 12 56L
Manufacturer/model:
PIRELLI / SL66
Manufacturer/model:
MICHELIN / BOOPER
Manufacturer/model:
CONTINENTAL / ZIPPY 1

Loading:

Maximum load:
177 kg (390 lb)

Tire air pressure (measured on cold tires):

Loading condition:
0–90 kg (0–198 lb)
Front:
190 kPa (1.90 kgf/cm², 28 psi, 1.90 bar)
Rear:
220 kPa (2.20 kgf/cm², 32 psi, 2.20 bar)
Loading condition:
90 kg - maximum load
Front:
190 kPa (1.90 kgf/cm², 28 psi, 1.90 bar)

Rear:
240 kPa (2.40 kgf/cm², 35 psi, 2.40 bar)

High-speed riding:

Front:
190 kPa (1.90 kgf/cm², 28 psi, 1.90 bar)
Rear:
220 kPa (2.20 kgf/cm², 32 psi, 2.20 bar)

Front wheel:

Wheel type:
Cast wheel
Rim size:
12 x MT3.5

Rear wheel:

Wheel type:
Cast wheel
Rim size:
12 x MT3.75

Front brake:

Type:
Single disc brake
Operation:
Right hand operation
Recommended fluid:
DOT 4

Rear brake:

Type:
Single disc brake
Operation:
Left hand operation
Recommended fluid:
DOT 4

Front suspension:

Type:
Telescopic fork

Spring/shock absorber type:
Coil spring/oil damper
Wheel travel:
90.0 mm (3.54 in)

Rear suspension:

Type:
Unit swing
Spring/shock absorber type:
Coil spring/oil damper
Wheel travel:
90.0 mm (3.54 in)

Electrical system:

Ignition system:
DC. CDI
Charging system:
AC magneto

Battery:

Model:
CB7L-B2
Voltage, capacity:
12 V, 8.0 Ah

Headlight:

Bulb type:
Halogen bulb

Bulb voltage, wattage x quantity:

Headlight:
12 V, 55.0 W x 2
Tail/brake light:
12 V, 21.0 W/5.0 W x 2
Front turn signal light:
12 V, 21.0 W x 2
Rear turn signal light:
12 V, 10.0 W x 2

Auxiliary light:

12 V, 5.0 W x 2

License plate light:

12 V, 5.0 W x 1

Meter lighting:

12 V, 1.2 W x 2

High beam indicator light:

12 V, 1.2 W x 1

Turn signal indicator light:

12 V, 1.2 W x 2

Coolant temperature warning light:

12 V, 1.2 W x 1

Fuses:

Main fuse:

20.0 A

Radiator fan fuse:

4.0A

CONSUMER INFORMATION

EAU26351

Identification numbers

Record the key identification number, vehicle identification number and model label information in the spaces provided below for assistance when ordering spare parts from a Yamaha dealer or for reference in case the vehicle is stolen.

- KEY IDENTIFICATION NUMBER:

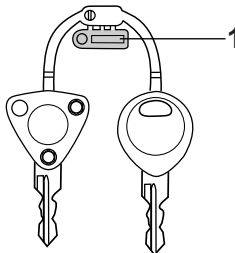
- VEHICLE IDENTIFICATION NUMBER:

- MODEL LABEL INFORMATION:

9

EAU26381

Key identification number



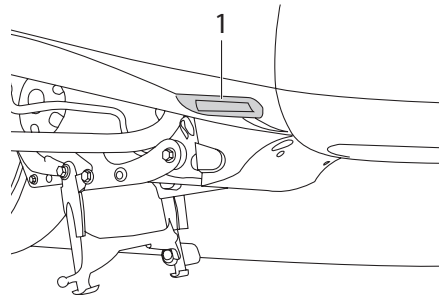
ZALUM0070

1. Key identification number

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

EAU26410

Vehicle identification number



1. Vehicle identification number

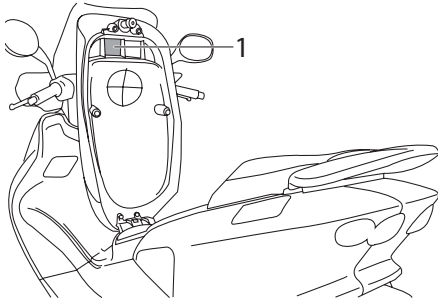
The vehicle identification number is stamped into the frame.

TIP

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

EAU26490

Model label



1. Model label

The model label is affixed to the bottom of the 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.

INDEX

A

- Acceleration and deceleration5-2
- Air filter and V-belt case air filter elements6-14
- Anti-theft alarm (optional)3-5
- Auxiliary light bulb, replacing.....6-30

B

- Battery.....6-24
- Brake fluid level, checking6-20
- Brake fluid, changing6-21
- Brake lever, front.....3-7
- Brake lever, rear3-7
- Brake levers, lubricating6-21
- Braking5-3

C

- Cables, checking and lubricating6-21
- Carburetor,adjusting.....6-15
- Care.....7-1
- Catalytic converter.....3-10
- Centerstand and sidestand, checking and lubricating6-22
- Clock3-5
- Coolant.....6-12
- Coolant temperature warning light3-2

D

- Dimmer switch3-6

E

- Engine break-in5-4
- Engine oil6-9

F

- Final transmission oil6-11
- Front and rear brake lever free play.....6-18
- Front and rear brake pads, checking6-19
- Front fork, checking6-23

- Fuel3-8

- Fuel and battery voltage gauge.....3-4
- Fuel consumption, tips for reducing.....5-3
- Fuel tank breather/overflow hose3-9
- Fuel tank cap3-7
- Fuses, replacing.....6-26

H

- Handlebar switches3-6
- Hazard switch3-6
- Headlight bulb, replacing.....6-26
- High beam indicator light.....3-2
- Horn switch.....3-6

I

- Identification numbers9-1
- Ignition circuit cut-off system3-14
- Indicator and warning lights3-2

K

- Key identification number9-1

L

- License plate light bulb, replacing.....6-30

M

- Main switch/steering lock3-1
- Matte color, caution7-1
- Model label9-2

O

- Oil change indicator.....3-2

P

- Panels, removing and installing6-7
- Parking5-4
- Part locations2-1
- Periodic maintenance and lubrication chart.....6-3
- Pre-operation check list.....4-2

S

- Safe-riding points.....1-5
- Safety information.....1-1
- Seat3-10
- Shock absorber assemblies, adjusting....3-13
- Sidestand3-13
- Spark plug, checking6-8
- Specifications.....8-1
- Speedometer unit3-3
- Start switch3-6
- Starting off5-2
- Starting the engine.....5-1
- Steering, checking6-23
- Storage.....7-3
- Storage compartment3-11
- Storage compartment.....3-12

T

- Tail/brake light bulb or rear turn signal light bulb, replacing6-29
- Throttle cable free play, adjusting.....6-15
- Tires6-16
- Tool kit.....6-1
- Troubleshooting6-31
- Troubleshooting charts6-32
- Turn signal indicator lights.....3-2
- Turn signal light bulb (front), replacing6-28
- Turn signal switch3-6

V

- Valve clearance6-16
- Vehicle identification number.....9-1

W

- Wheel bearings, checking.....6-24
- Wheels6-18



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