



⚠ Read this manual carefully before operating this vehicle.

OWNER'S MANUAL

XMAX

YP250R
YP250RA

2DL-F8199-E1

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



YAMAHA MOTOR ELECTRONICS CO., LTD.
1450-6, Mori, Mori-machi, Shuchi-gun, Shizuoka-ken, 437-0292 Japan

DECLARATION of CONFORMITY

We

Company: YAMAHA MOTOR ELECTRONICS CO., LTD.
Address: 1450-6, Mori, Mori-Machi, Shuchi-gun, Shizuoka-Ken, 437-0292 Japan

Hereby declare that the product:

Kind of equipment: IMMOBILIZER
Type-designation: SSL-00

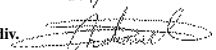
is in compliance with following norm(s) or documents:

R&TTE Directive(1999/5/EC)
EN300 330-2 v1.3.1(2006-01), EN300 330-2 v1.5.1(2010-02)
EN60950-1:2006/A11:2009
Two or Three-Wheel Motor Vehicles Directive(97/24/EC: Chapter 8, EMC)

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July 8th 2010
General manager of quality assurance div. 



Welcome to the Yamaha world of motorcycling!

As the owner of the YP250R/YP250RA, 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 YP250R/YP250RA. The Owner's Manual does not only instruct you in how to operate, inspect and maintain your scooter, but also in how to safeguard yourself and others from trouble and injury.

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

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

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



 **WARNING**

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

IMPORTANT MANUAL INFORMATION

EAU10134

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

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

*Product and specifications are subject to change without notice.

IMPORTANT MANUAL INFORMATION

EAUM1012

**YP250R/YP250RA
OWNER'S MANUAL
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TABLE OF CONTENTS

SAFETY INFORMATION	1-1	FOR YOUR SAFETY –		Tires	6-18
Further safe-riding points	1-5	PRE-OPERATION CHECKS	4-1	Cast wheels	6-20
DESCRIPTION	2-1	OPERATION AND IMPORTANT		Checking the front and rear brake	
Left view	2-1	RIDING POINTS	5-1	lever free play	6-20
Right view	2-2	Starting the engine	5-1	Checking the front and rear brake	
Controls and instruments	2-3	Starting off	5-2	pads	6-21
INSTRUMENT AND CONTROL		Acceleration and deceleration	5-3	Checking the brake fluid level	6-22
FUNCTIONS	3-1	Braking	5-3	Changing the brake fluid	6-23
Immobilizer system	3-1	Tips for reducing fuel		Checking and lubricating the	
Main switch/steering lock	3-2	consumption	5-4	cables	6-23
Indicator lights and warning		Engine break-in	5-4	Checking and lubricating the	
lights	3-3	Parking	5-5	throttle grip and cable	6-24
Multi-function meter unit	3-5	PERIODIC MAINTENANCE AND		Lubricating the front and rear	
Anti-theft alarm (optional)	3-13	ADJUSTMENT	6-1	brake levers	6-24
Handlebar switches	3-14	Owner’s tool kit	6-2	Checking and lubricating the	
Front brake lever	3-15	Periodic maintenance chart for the		centerstand and sidestand	6-25
Rear brake lever	3-15	emission control system	6-3	Checking the front fork	6-25
ABS (for ABS models)	3-16	General maintenance and		Checking the steering	6-26
Fuel tank cap	3-17	lubrication chart	6-4	Checking the wheel bearings	6-26
Fuel	3-17	Removing and installing panels	6-8	Battery	6-27
Catalytic converters	3-19	Checking the spark plug	6-10	Replacing the fuses	6-28
Seat	3-19	Engine oil	6-12	Replacing a headlight bulb	6-30
Storage compartments	3-20	Final transmission oil	6-13	Tail/brake light	6-30
Adjusting the shock absorber		Coolant	6-14	Front turn signal light	6-30
assemblies	3-21	Air filter and V-belt case air filter		Replacing a rear turn signal light	
Sidestand	3-22	elements and check hoses	6-16	bulb	6-31
Ignition circuit cut-off system	3-23	Checking the throttle grip free		Replacing the license plate light	
		play	6-17	bulb	6-32
		Valve clearance	6-17	Auxiliary light	6-32
				Troubleshooting	6-32
				Troubleshooting charts	6-34

TABLE OF CONTENTS

SCOOTER CARE AND STORAGE	7-1
Matte color caution	7-1
Care.....	7-1
Storage.....	7-4
 SPECIFICATIONS	 8-1
 CONSUMER INFORMATION	 9-1
Identification numbers.....	9-1
 INDEX	 10-1

SAFETY INFORMATION

1

EAU1026B

Be a Responsible Owner

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

Scooters are single-track vehicles.

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

He or she should:

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

- Never operate a scooter without proper training or instruction. Take a training course. Beginners should receive training from a certified instructor. Contact an authorized scooter dealer to find out about the training courses nearest you.

Safe Riding

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

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

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

Therefore:

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



- Many accidents involve inexperienced operators. In fact, many operators who have been involved in accidents do not even have a current driver's license.
- Make sure that you are qualified and that you only lend your scooter to other qualified operators.
- Know your skills and limits. Staying within your limits may help you to avoid an accident.
- We recommend that you practice riding your scooter where there is no traffic until you have become thoroughly familiar with the scooter and all of its controls.
- Many accidents have been caused by error of the scooter operator. A typical error made by the operator is veering wide on a turn due to excessive speed or undercornering (insufficient lean angle for the speed).
- Always obey the speed limit and never travel faster than warranted by road and traffic conditions.
- Always signal before turning or changing lanes. Make sure that other motorists can see you.
- The posture of the operator and passenger is important for proper control.
- The operator should keep both hands on the handlebar and both feet on the operator footrests during operation to maintain control of the scooter.
- The passenger should always hold onto the operator, the seat strap or grab bar, if equipped, with both hands and keep both feet on the passenger footrests. Never carry a passenger unless he or she can firmly place both feet on the passenger footrests.
- Never ride under the influence of alcohol or other drugs.
- This scooter is designed for on-road use only. It is not suitable for off-road use.

Protective Apparel

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

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

SAFETY INFORMATION

1

Avoid Carbon Monoxide Poisoning

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

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

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

- Do not run engine outdoors where engine exhaust can be drawn into a building through openings such as windows and doors.

Loading

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

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

Operation of an overloaded vehicle could cause an accident.

Maximum load:

YP250R 185 kg (408 lb)
YP250RA 181 kg (399 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, recog-

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

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

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

are added to the handlebar or front fork area, they must be as lightweight as possible and should be kept to a minimum.

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

SAFETY INFORMATION

1

Aftermarket Tires and Rims

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

Transporting the Scooter

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

- Remove all loose items from the scooter.
- Point the front wheel straight ahead on the trailer or in the truck bed, and choke it in a rail to prevent movement.
- Secure the scooter with tie-downs or suitable straps that are attached to solid parts of the scooter, such as the frame or upper front fork triple clamp (and not, for example, to rubber-mounted handlebars or turn signals, or parts that could break). Choose the lo-

cation for the straps carefully so the straps will not rub against painted surfaces during transport.

- The suspension should be compressed somewhat by the tie-downs, if possible, so that the scooter will not bounce excessively during transport.

Further safe-riding points

EAU57600

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

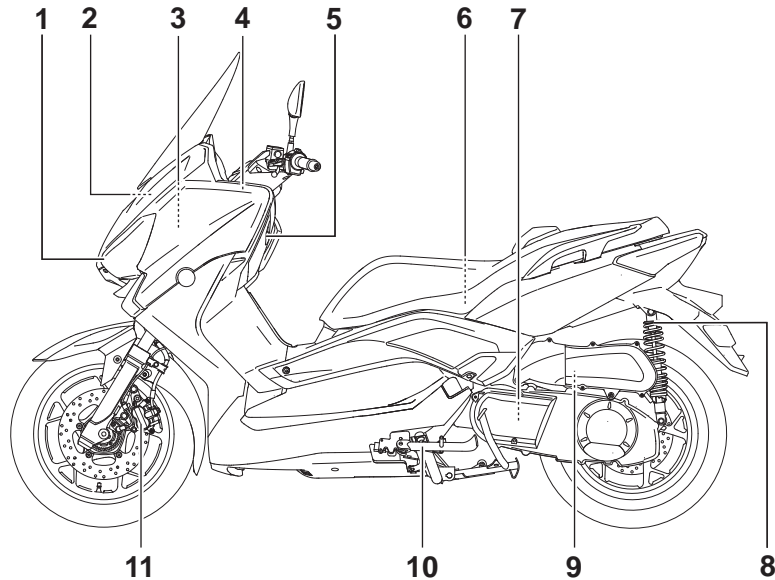
- Always wear a helmet, gloves, trousers (tapered around the cuff and ankle so they do not flap), and a brightly colored jacket.
- Do not carry too much luggage on the scooter. An overloaded scooter is unstable. Use a strong cord to secure any luggage to the carrier (if equipped). A loose load will affect the stability of the scooter and could divert your attention from the road. (See page 1-3.)

DESCRIPTION

EAU10411

Left view

2



1. Headlight (page 6-30)

2. Battery (page 6-27)

3. Main fuse (page 6-28)

4. Coolant reservoir cap (page 6-14)

5. Coolant level check window (page 6-14)

6. Rear storage compartment (page 3-20)

7. V-belt case air filter element (page 6-16)

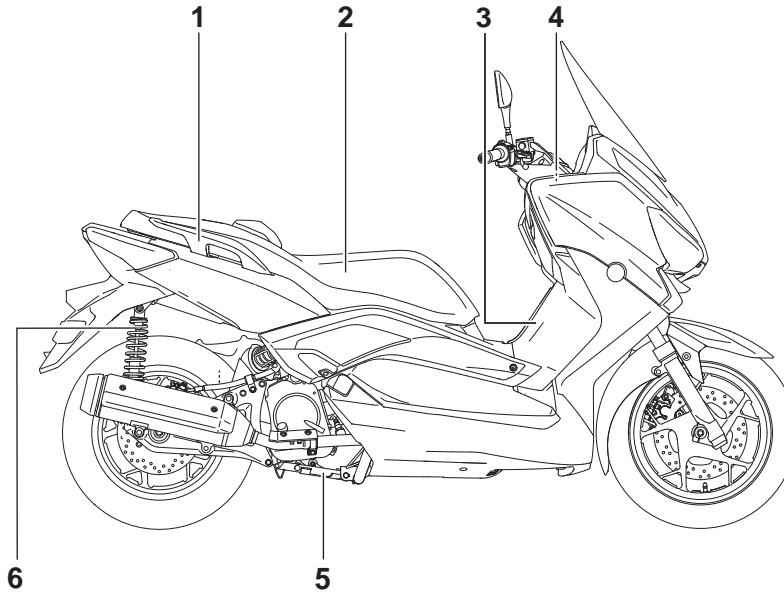
8. Shock absorber assembly spring preload adjusting ring (page 3-21)

9. Air filter element (left) (page 6-16)

10. Sidestand (page 3-22)

11. Front brake pads (page 6-21)

Right view



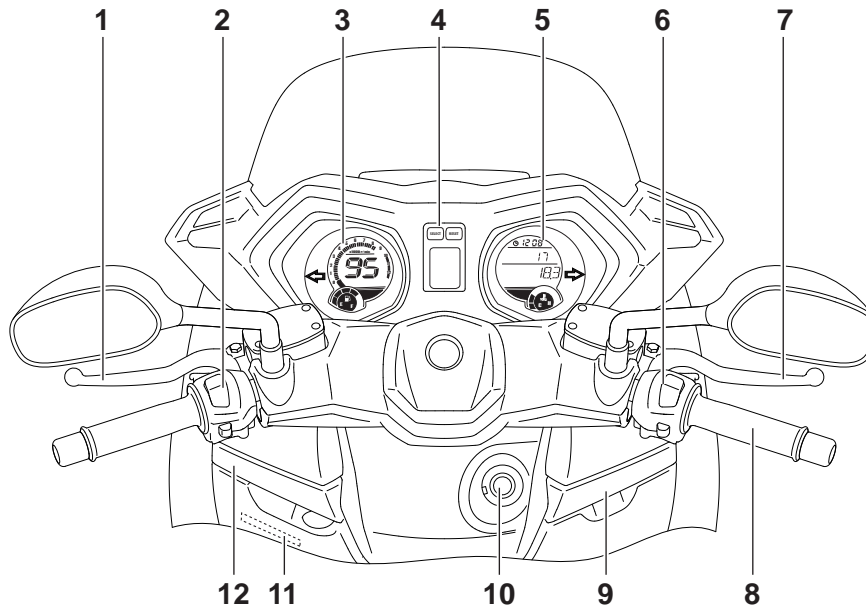
1. Grab bar (page 5-2)
2. Seat (page 3-19)
3. Fuel tank (page 3-17)
4. Fuses (page 6-28)
5. Centerstand (page 6-25)
6. Shock absorber assembly spring preload adjusting ring (page 3-21)

DESCRIPTION

EAU10431

Controls and instruments

2

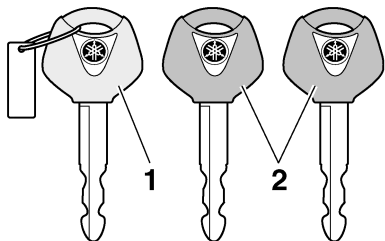


1. Rear brake lever (page 3-15)
2. Left handlebar switches (page 3-14)
3. Speedometer
4. Warning and indicator light (page 3-3)
5. Multi-function display (page 3-5)
6. Right handlebar switches (page 3-14)
7. Front brake lever (page 3-15)
8. Throttle grip (page 6-17)

9. Front storage compartment B (page 3-20)
10. Main switch/steering lock (page 3-2)
11. Coolant level check window (page 6-14)
12. Front storage compartment A (page 3-20)

Immobilizer system

EAU10978



1. Code re-registering key (red bow)
2. Standard keys (black bow)

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

- a code re-registering key (with a red bow)
- two standard keys (with a black bow) that can be re-registered with new codes
- a transponder (which is installed in the code re-registering key)
- an immobilizer unit
- an ECU

- an immobilizer system indicator light (See page 3-5.)
- The key with the red bow is used to register codes in each standard key. Since re-registering is a difficult process, take the vehicle along with all three keys to a Yamaha dealer to have them re-registered. Do not use the key with the red bow for driving. It should only be used for re-registering the standard keys. Always use a standard key for driving.

ECA11822

NOTICE

- **DO NOT LOSE THE CODE RE-REGISTERING KEY! CONTACT YOUR DEALER IMMEDIATELY IF IT IS LOST!** If the code re-registering key is lost, registering new codes in the standard keys is impossible. The standard keys can still be used to start the vehicle, however if code re-registering is required (i.e., if a new standard key is made or all keys are lost) the entire immobilizer system must be replaced. Therefore, it is highly recom-

mended to use either standard key and keep the code re-registering key in a safe place.

- Do not submerge any key in water.
- Do not expose any key to excessively high temperatures.
- Do not place any key close to magnets (this includes, but not limited to, products such as speakers, etc.).
- Do not place items that transmit electrical signals close to any key.
- Do not place heavy items on any key.
- Do not grind any key or alter its shape.
- Do not disassemble the plastic part of any key.
- Do not put two keys of any immobilizer system on the same key ring.
- Keep the standard keys as well as keys of other immobilizer systems away from this vehicle's code re-registering key.

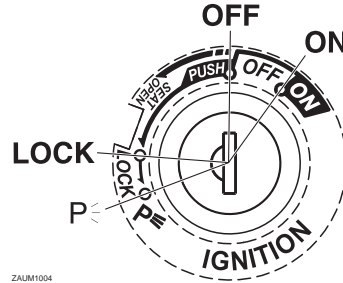
INSTRUMENT AND CONTROL FUNCTIONS

- Keep other immobilizer system keys away from the main switch as they may cause signal interference.

3

Main switch/steering lock

EAU10473



ZALM1004

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

TIP

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

ON

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

TIP

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

OFF

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

WARNING

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

EAU34122

EAU10662

EWA10062

INSTRUMENT AND CONTROL FUNCTIONS

LOCK

EAU10685

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

To lock the steering

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

To unlock the steering

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

P \leq (Parking)

EAUM2971

The hazard lights and turn signal lights can be turned on, but all other electrical systems are off. The key can be removed.

The steering must be locked before the key can be turned to “P \leq ”.

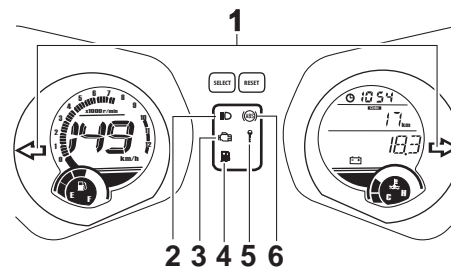
NOTICE

ECA11021

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

Indicator lights and warning lights

EAU49395



ZAUM1098

1. Turn signal indicator lights “ \leftarrow ” and “ \rightarrow ”
2. High beam indicator light “ \equiv ”
3. Engine trouble warning light “ engine ”
4. Fuel level warning light “ fuel ”
5. Immobilizer system indicator light “ key ”
6. Anti-lock Brake System (ABS) warning light “ ABS ” (for ABS models)

Turn signal indicator lights “ \leftarrow ” and “ \rightarrow ”

EAU11031

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

INSTRUMENT AND CONTROL FUNCTIONS

3

High beam indicator light “” EAU11081

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

Fuel level warning light “” EAU11354

This warning light comes on when the fuel level drops below approximately 2.5 L (0.66 US gal, 0.55 Imp.gal). When this occurs, refuel as soon as possible. The electrical circuit of the warning light can be checked by turning the key to “ON”. The warning light should come on for a few seconds, and then go off.

If the warning light does not come on initially when the key is turned to “ON”, or if the warning light remains on, have a Yamaha dealer check the electrical circuit.

Engine trouble warning light “” EAU43024

This warning light comes on if an electrical circuit monitoring the engine is not working correctly. If this occurs, have a Yamaha dealer check the self-diagnosis system.

The electrical circuit of the warning light can be checked by turning the key to “ON”. The warning light should come on for a few seconds, and then go off.

If the warning light does not come on initially when the key is turned to “ON”, or if the warning light remains on, have a Yamaha dealer check the electrical circuit.

TIP

This warning light will come on when the key is turned to “ON” and the start switch is pushed, but this does not indicate a malfunction.

ABS warning light “” (for ABS models) EAUM3381

In normal operation, the ABS warning light comes on when the key is turned to “ON”, and goes off after traveling at a speed of 10 km/h (6 mi/h) or higher.

If the ABS warning light:

- does not come on when the key is turned to “ON”
- comes on or flashes while riding

- does not go off after traveling at a speed of 10 km/h (6 mi/h) or higher

The ABS may not work correctly. If any of the above occurs, have a Yamaha dealer check the system as soon as possible. (See page 3-16 for an explanation of the ABS.)

EWA16041

WARNING

If the ABS warning light does not go off after traveling at a speed of 10 km/h (6 mi/h) or higher, or if the warning light comes on or flashes while riding, the brake system reverts to conventional braking. If either of the above occurs, or if the warning light does not come on at all, use extra caution to avoid possible wheel lock during emergency braking. Have a Yamaha dealer check the brake system and electrical circuits as soon as possible.

INSTRUMENT AND CONTROL FUNCTIONS

TIP

The ABS warning light may come on while accelerating the engine with the scooter on its centerstand, but this does not indicate a malfunction.

EAU26878

Immobilizer system indicator light “ ? ”

The electrical circuit of the indicator light can be checked by turning the key to “ON”. The indicator light should come on for a few seconds, and then go off.

If the indicator light does not come on initially when the key is turned to “ON”, or if the indicator light remains on, have a Yamaha dealer check the electrical circuit.

When the key is turned to “OFF” and 30 seconds have passed, the indicator light will start flashing indicating the immobilizer system is enabled. After 24 hours have passed, the indicator light will stop flashing, however the immobilizer system is still enabled.

The self-diagnosis device also detects problems in the immobilizer system circuits. (See page 3-12 for an explanation of the self-diagnosis device.)

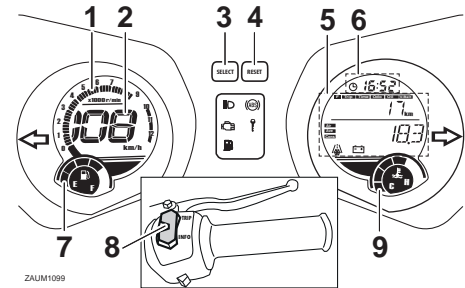
Multi-function meter unit

EAUM3313

EWA12423

WARNING

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



ZAUM1099

1. Tachometer
2. Speedometer
3. “SELECT” button
4. “RESET” button
5. Multi-function display
6. Clock
7. Fuel meter
8. “TRIP/INFO” switch
9. Coolant temperature display

INSTRUMENT AND CONTROL FUNCTIONS

3

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

- a speedometer
- a tachometer
- a fuel meter
- a clock
- an odometer and tripmeter display
- a multi-function display
- a coolant temperature meter

TIP

- Be sure to turn the key to “ON” before using the “Select”, “Reset”, “TRIP” and “INFO” buttons.
- When the key is turned to “ON”, all display segments of the multi-function meter unit will momentarily appear in order to test the electrical circuit. The speedometer and odometer will then perform a display check and a welcome message will scroll across the multi-function display.
- For the UK, traveling speed, distance traveled, and fuel consumption measurements can be displayed in kilometer or mileage based units. To switch between miles and kilometers; hold the

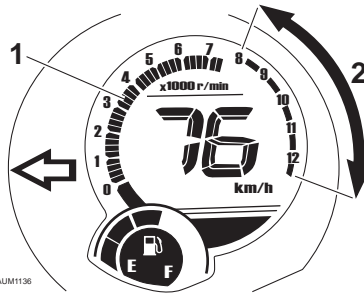
“SELECT” switch pushed, turn the main switch to “ON”, and keep the “SELECT” switch pushed for an additional 8 seconds.

- For other countries, traveling speed, distance traveled and fuel consumption measurements are displayed in kilometer base units.

Speedometer

The speedometer shows the riding speed.

Tachometer



ZAJUM1136

1. Tachometer
2. High-rpm zone

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

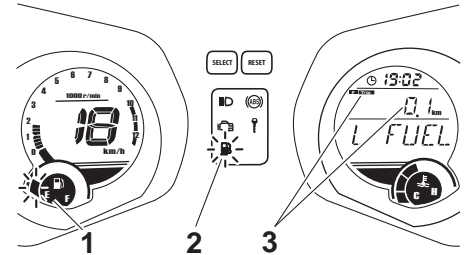
ECAM1150

NOTICE


Do not operate the engine in the tachometer high-rpm zone.

High-rpm zone: 8000 r/min and above

Fuel meter



ZAJUM1102

1. Fuel meter
2. Fuel level warning indicator “”
3. Fuel reserve tripmeter

With the key in the “ON” position, the fuel meter indicates the amount of fuel in the fuel tank. The display segments of the fuel meter disappear towards “E” (Empty) as the fuel level decreases. When the fuel level reaches the bottom segment near “E”, the bottom segment will flash. Refuel as soon as possible.

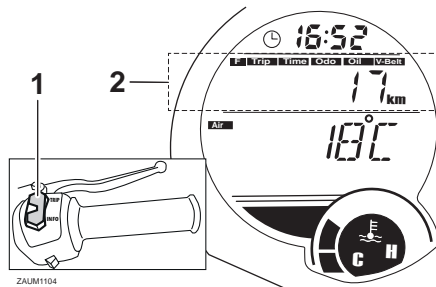
INSTRUMENT AND CONTROL FUNCTIONS

Clock

To set the clock:

1. Push the “SELECT” button for 3 seconds, and the hour digits will start flashing.
2. Use the “SELECT” button to set the hours.
3. Push the “SELECT” button for 3 seconds, and the minute digits will start flashing.
4. Use the “SELECT” button to set the minutes.
5. Push the “SELECT” button for 3 seconds to complete setting the clock.

Odometer and tripmeter display



1. “TRIP/INFO” switch
2. Function display

The odometer and tripmeter display is equipped with the following:

- a tripmeter (which shows the distance traveled since last set to zero)
- a time tripmeter (which shows the elapsed riding time since last set to zero)
- a fuel reserve tripmeter (which shows the distance traveled since the fuel level warning light came on)
- an oil change tripmeter (which shows the distance traveled since the last engine oil change)

- a V-belt replacement tripmeter (which shows the distance traveled since the last V-belt replacement)

Pushing the “TRIP” button switches the display between the odometer mode and the various tripmeter modes in the following order:

Odo (odometer) → Trip (tripmeter) → Trip Time (time tripmeter) → Oil (oil change tripmeter) → V-Belt (v-belt replacement tripmeter) → Odo (odometer)

When approximately 2.5 L (0.66 US gal, 0.55 Imp.gal) of fuel remains in the fuel tank, the display will automatically change to the fuel reserve tripmeter mode “F Trip” and start counting the distance traveled from that point. In that case, pushing the “TRIP” button switches the display between the various tripmeter and odometer modes in the following order:

Odo → Trip → Trip Time → F Trip (fuel reserve tripmeter) → Oil Trip → V-Belt Trip → Odo

INSTRUMENT AND CONTROL FUNCTIONS

3

Oil Trip and V-Belt Trip display total distance traveled from the first run or when the last reset was done.

To reset a tripmeter, select it by pushing the “TRIP” button until “Trip, Trip Time, F Trip” is displayed. While “Trip, Trip Time, F Trip” is displayed, push the “TRIP” button for 3 seconds. If you do not reset the fuel reserve tripmeter manually, it will reset itself automatically and the display will return to the prior mode after refueling and traveling 5 km (3 mi).

TIP

The display cannot be changed back to “F Trip” after it has been reset.

Oil change indicator “Oil”

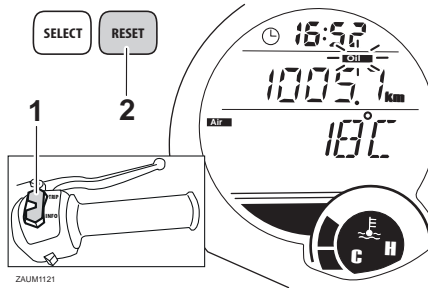
This indicator flashes at the initial 1000 km (600 mi), then at 3000 km (1800 mi) and every 3000 km (1800 mi) thereafter to indicate that the engine oil should be changed.

After changing the engine oil, reset the oil change indicator.

To reset the oil change indicator

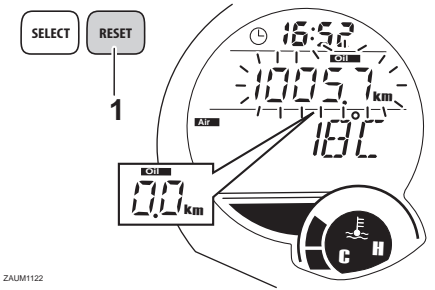
1. Turn the key to “ON”.

2. Push the “TRIP” button until “Oil” (oil change tripmeter) is displayed in the odometer and trip meter display. While “Oil” is displayed, push the “RESET” button for at least 3 seconds. The oil change tripmeter value will flash.



ZAJUM121

1. “TRIP/INFO” switch
2. “RESET” button
3. Hold the “RESET” button pushed for 15 to 20 seconds.



ZAJUM122

1. “RESET” button
4. Release the “RESET” button, and the oil trip value will reset to zero.

TIP

If the engine oil is changed before the oil change indicator comes on (i.e. before the periodic oil change interval has been reached), the indicator 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 before the periodic oil change interval has been reached, follow the above procedure.

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

1. Turn the key to “ON”.

INSTRUMENT AND CONTROL FUNCTIONS

2. Check that the oil change indicator comes on for a few seconds and then goes off.
3. If the oil change indicator does not come on, have a Yamaha dealer check the electrical circuit.

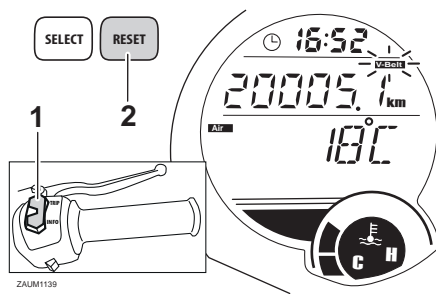
V-belt replacement indicator “V-Belt”

This indicator flashes every 20000 km (12500 mi) when the V-belt needs to be replaced.

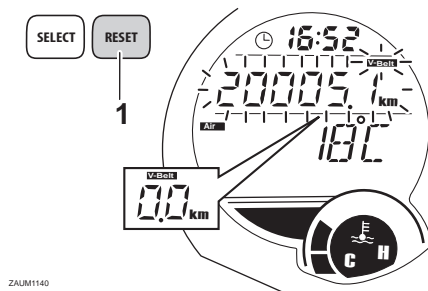
After changing the V-belt, reset the V-belt replacement indicator.

To reset the V-belt replacement indicator

1. Turn the key to “ON”.
2. Push the “TRIP” button until “V-belt” (V-belt replacement tripmeter) is displayed in the odometer and trip meter display. While “V-belt” is displayed, push the “RESET” button for 3 seconds. The V-belt replacement tripmeter value will flash.



1. “TRIP/INFO” switch
2. “RESET” button
3. Hold the “RESET” button pushed for 15 to 20 seconds.



1. “RESET” button
4. Release the “RESET” button, and the V-belt trip value will reset to zero.

TIP

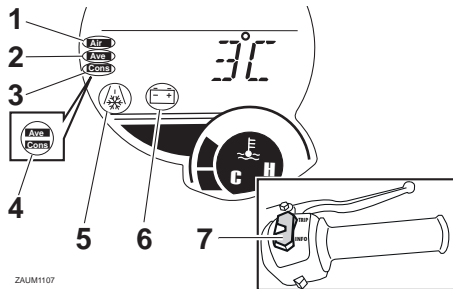
If the V-belt is replaced before the indicator comes on, be sure to reset the V-belt replacement indicator so that it will come on at the next correct interval.

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

1. Turn the key to “ON”.
2. Check that the V-belt replacement indicator comes on for a few seconds and then goes off.
3. If the V-belt replacement indicator does not come on, have a Yamaha dealer check the electrical circuit.

INSTRUMENT AND CONTROL FUNCTIONS

Multi-function display



1. Ambient temperature
2. Average speed
3. Instantaneous fuel consumption
4. Average fuel consumption
5. Icy road warning indicator “”
6. Battery voltage
7. “TRIP/INFO” switch

The multi-function display is equipped with the following:

- an ambient temperature display
- a battery voltage level display
- a fuel consumption display (average and instantaneous consumption functions)
- an average speed display (which shows the average speed since last set to zero)
- a warning message function

- a self-diagnosis device

Push the “INFO” button to switch the display between the ambient temperature display “Air”, the battery voltage, the average fuel consumption mode “Ave/Cons__ km/L” or “Ave/Cons __ L/100 km”, the instantaneous fuel consumption mode “Cons__ km/L” or “Cons__ L/100 km”, and the average speed “Ave” in the following order:

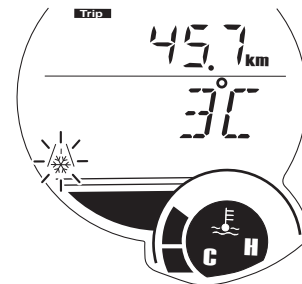
Air → → Ave/Cons__ km/L or L/100 km → Cons__ km/L or L/100 km → Ave → Air

For the UK only:

Push the “INFO” button to switch the display between the ambient temperature display “Air”, the battery voltage, the average fuel consumption mode “Ave/Cons__ MPG”, the instantaneous fuel consumption mode “Cons__ MPG”, and the average speed “Ave” in the following order:

Air → → Ave/Cons__ MPG → Cons__ MPG → Ave → Air

Ambient temperature display



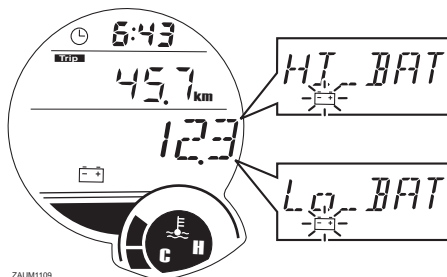
This display shows the ambient temperature from $-10\text{ }^{\circ}\text{C}$ to $50\text{ }^{\circ}\text{C}$ in $1\text{ }^{\circ}\text{C}$ increments.

The icy road warning indicator “” will flash when the temperature is below $4\text{ }^{\circ}\text{C}$.

The temperature displayed may vary from the ambient temperature. Pushing the “INFO” button switches the ambient temperature display to the battery voltage, the average fuel consumption, the instantaneous fuel consumption and average speed modes.

INSTRUMENT AND CONTROL FUNCTIONS

Battery voltage level display




ZAUM1109

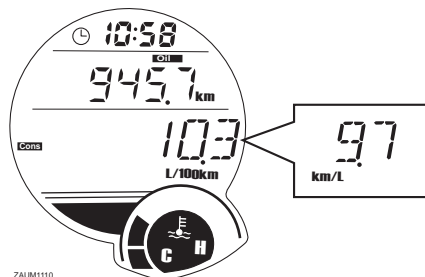
This display shows the battery voltage from 10.1 Volt to 17.9 Volt in 0.1 V increments.

The voltage displayed may vary from the battery voltage. Pushing the “INFO” button switches the ambient temperature display to the battery voltage, the average fuel consumption, the instantaneous fuel consumption and average speed modes.

TIP

If the battery warning indicator “” flash and warning message indicate “H BATT” or “L BATT”, have a Yamaha dealer check the battery.

Average fuel consumption mode



ZAUM1110

The average fuel consumption display can be set to either “Ave/Cons_ _ km/L” or “Ave/Cons_ _ L/100 km” (except for the UK).

For the UK only:

The average fuel consumption is displayed “Ave/Cons_ _ MPG”. This display shows the average fuel consumption since it was last reset.

- When the display is set to “Ave/Cons_ _ km/L”, the average distance that can be traveled on 1.0 L of fuel is shown.
- When the display is set to “Ave/Cons_ _ L/100 km”, the average amount of fuel necessary to travel 100 km is shown.

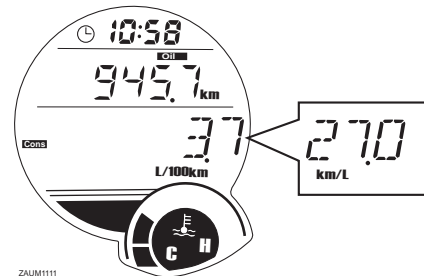
- For the UK only: When the display is set to “Ave/Cons_ _ MPG”, the average distance that can be traveled on 1.0 Imp.gal of fuel is shown.

To reset the average fuel consumption display, select it by pushing the “INFO” button, and then push and hold the “INFO” button for 3 seconds.

TIP

After resetting an average fuel consumption display, “_ _” is shown for that display until the vehicle has traveled 1 km (0.6 mi).

Instantaneous fuel consumption mode



ZAUM1111

3

INSTRUMENT AND CONTROL FUNCTIONS

The instantaneous fuel consumption display can be set to either “km/L” or “L/100 km” (except for the UK).

For the UK only:

The instantaneous fuel consumption is displayed “MPG”.

- When the display is set to “km/L”, the distance that can be traveled on 1.0 L of fuel under the current riding conditions is shown.
- When the display is set to “L/100 km”, the amount of fuel necessary to travel 100 km under the current riding conditions is shown.
- For the UK only: The distance that can be traveled on 1.0 Imp.gal of fuel under the current riding conditions is shown.

To switch between the instantaneous fuel consumption displays, push the “INFO” button for less than one second when one of the displays is shown (except for the UK).

TIP

If traveling at speeds under 10 km/h (6.0 mi/h), “_ _ . _” is displayed.

Average speed display



ZAJUM1112

The average speed is displayed “kmh” (except for the UK). The average speed is the total distance divided by total time (with the key in “ON” position) since the last set to zero.

For the UK only:

The average speed is displayed “MPH”.

This display shows the average speed since it was last reset.

To reset the average speed display, select it by pushing the “INFO” button, and then push and hold the “INFO” button for 3 seconds.

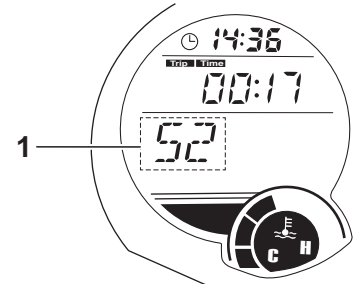
Warning message function

Warning message corresponding to the warning that you encounter.

When two or more warning occur, warning message display shall be changed as follows:

L FUEL → H TEMP → L BATT or H BATT → ICE → OIL → SERV → V-BELT SERV → L FUEL

Self-diagnosis device



ZAJUM1114

1. Error code display

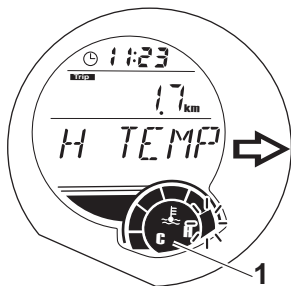
This model is equipped with a self-diagnosis device for various electrical circuits.

If a problem is detected in any of those circuits, the engine trouble warning light will come on and the display will indicate an error code.

If the display indicates any error codes, note the code number, and then have a Yamaha dealer check the vehicle.

Coolant temperature meter

With the key in the “ON” position, the coolant temperature meter indicates the temperature of the coolant. The coolant temperature varies with changes in the weather and engine load. If the top segment and coolant temperature warning indicator flash, stop the vehicle and let the engine cool.



ZAM11115

1. Coolant temperature meter

ECA10022

NOTICE

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

EAU12332

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.

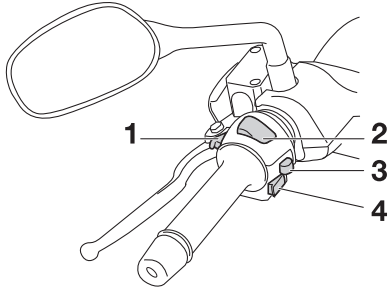
INSTRUMENT AND CONTROL FUNCTIONS



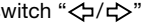

3

Handlebar switches

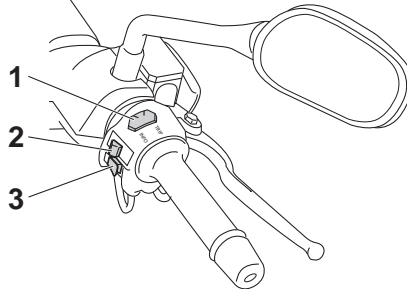
EAU1234F



Left



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

Right



1. “TRIP/INFO” switch
2. Hazard switch “”
3. Start switch “”



EAU12351

Pass switch “”

Press this switch to flash the headlight.



EAU12401

Dimmer switch “”

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

EAU12461

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 cen-

ter position. To cancel the turn signal lights, push the switch in after it has returned to the center position.

EAU12501

Horn switch “”

Press this switch to sound the horn.

EAU12722

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.

EAU41701

The engine trouble warning light will come on when the key is turned to “ON” and the start switch is pushed, but this does not indicate a malfunction.

EAU12734

Hazard switch “”

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

INSTRUMENT AND CONTROL FUNCTIONS

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.

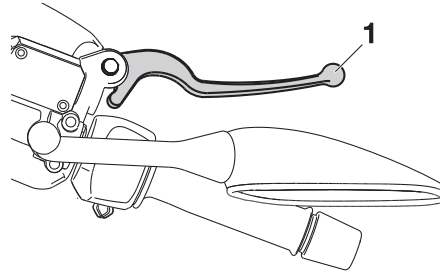
ECA10062

NOTICE

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

Front brake lever

EAU12902

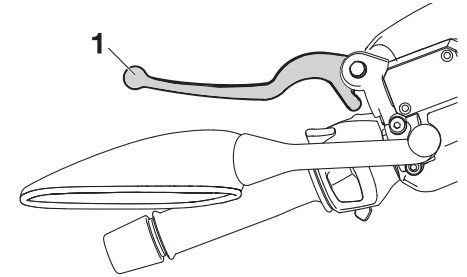


1. Front brake lever

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

Rear brake lever

EAU12952



1. Rear brake lever

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

INSTRUMENT AND CONTROL FUNCTIONS

3

ABS (for ABS models)

EAU54001

The Yamaha ABS (Anti-lock Brake System) features a dual electronic control system, which acts on the front and rear brakes independently.

Operate the brakes with ABS as you would conventional brakes. If the ABS is activated, a pulsating sensation may be felt at the brake levers. In this situation, continue to apply the brakes and let the ABS work; do not “pump” the brakes as this will reduce braking effectiveness.

EWA16051

⚠ WARNING

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

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

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

TIP

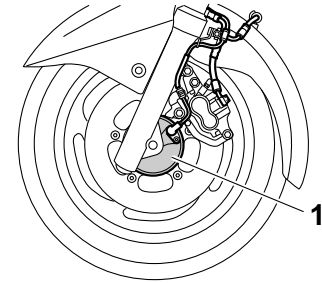
- The ABS performs a self-diagnosis test each time the vehicle first starts off after the key is turned on and the vehicle has traveled at a speed of 10 km/h (6 mi/h) or higher. During this test, a “clicking” noise can be heard from the front of the vehicle, and if either brake lever is even slightly applied, a vibration can be felt at the lever, but these do not indicate a malfunction.
- This ABS has a test mode which allows the owner to experience the pulsation at the brake levers when the ABS is operating. However, special tools are required, so please consult your Yamaha dealer when performing this test.

ECA16121

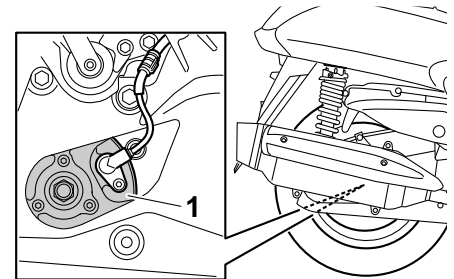
NOTICE

Keep any type of magnets (including magnetic pick-up tools, magnetic screwdrivers, etc.) away from the front and rear wheel hubs, otherwise the magnetic rotors equipped in the

wheel hubs may be damaged, resulting in improper performance of the ABS system.



1. Front wheel hub

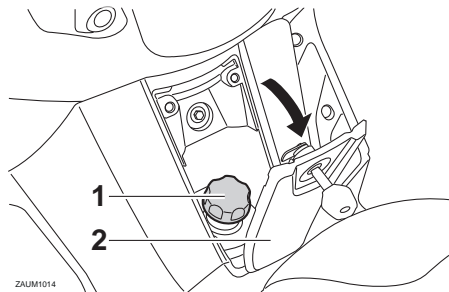


1. Rear wheel hub

Fuel tank cap

EAUM2991

To open the fuel tank cap



ZKUM1014

1. Fuel tank cap
2. Fuel tank cap cover

1. Insert the key into the lock and turn it counterclockwise. The lock will be released and the lid can be pulled open.
2. To remove the fuel tank cap, turn it counterclockwise and then pull it off.

To close the fuel tank cap

1. Place the fuel tank cap onto the fuel tank opening and turn the fuel tank cap clockwise.

EWA11092



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

2. Close the lid, turn the key clockwise to the original position, and then remove it.

EAU13222

Fuel

Make sure there is sufficient gasoline in the tank.

EWA10882

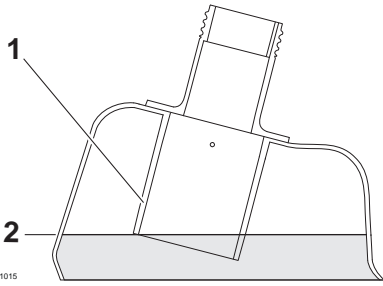


Gasoline and gasoline vapors are extremely flammable. To avoid fires and explosions and to reduce the risk of injury when refueling, follow these instructions.

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.

INSTRUMENT AND CONTROL FUNCTIONS

3



ZAUM1015

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

EWA15152

WARNING

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

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

EAU54601

Recommended fuel:

Premium unleaded gasoline (Gasohol (E10) acceptable)

Fuel tank capacity:

13.2 L (3.49 US gal, 2.90 Imp.gal)

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

2.5 L (0.66 US gal, 0.55 Imp.gal)

ECA11401

NOTICE

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

Your Yamaha engine has been designed to use premium unleaded gasoline with a research octane number of 95 or higher. If knocking (or pinging) occurs, use a gasoline of a different

brand. Use of unleaded fuel will extend spark plug life and reduce maintenance costs.

Gasohol

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

Catalytic converters

EAU13446

This vehicle is equipped with catalytic converters in the exhaust system.

EWA10863

WARNING

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

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

NOTICE

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

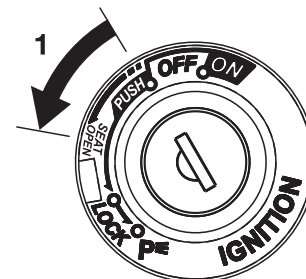
ECA10702

Seat

EAU13933

To open the seat

1. Place the scooter on the center-stand.
2. Insert the key into the main switch, and then turn it counterclockwise to "OPEN".



1. Open.

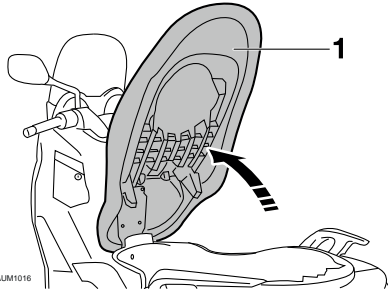
TIP

Do not push inward when turning the key.

3. Fold the seat up.

INSTRUMENT AND CONTROL FUNCTIONS

3



ZAUM1016

1. Seat open position

To close the seat

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

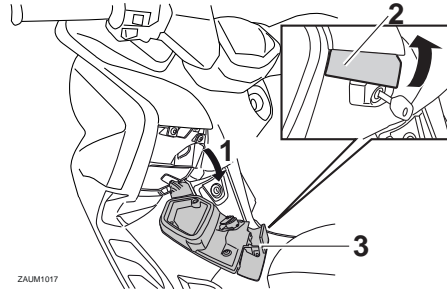
TIP

Make sure that the seat is properly secured before riding.

Storage compartments

EAUM3002

Front storage compartment A



ZAUM1017

1. Open.
2. Storage compartment opening lever
3. Lid

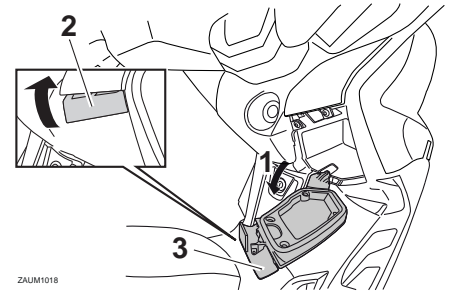
To open the storage compartment when it is locked, insert the key into the lock, turn it clockwise, and then pull on the lever.

To open the storage compartment when it is unlocked, simply pull on the lever.

To lock the storage compartment, push the lid into the original position, insert the key into the lock, turn it counterclockwise, and then remove it.

Front storage compartment B

To open the storage compartment, pull on the lever.



ZAUM1018

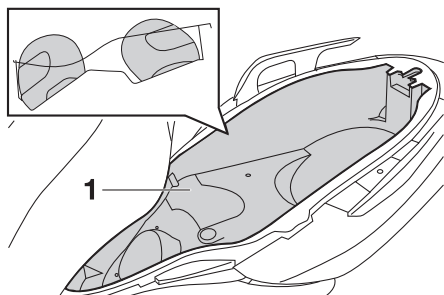
1. Open.
2. Storage compartment opening lever
3. Lid

To close the storage compartment, push the lid into the original position. **WARNING! Do not store heavy items in this compartment.** [EWA11162]

Rear storage compartment

Two helmets can be stored in the storage compartment under the seat. (See page 3-19.)

INSTRUMENT AND CONTROL FUNCTIONS



1. Rear storage compartment

ECA10082

NOTICE

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

- Since the storage compartment accumulates heat when exposed to the sun and/or the engine heat, do not store anything susceptible to heat, consumables or flammable items inside it.
- To avoid humidity from spreading through the storage compartment, wrap wet articles in a plastic bag before storing them in the compartment.

- Since the storage compartment may get wet while the 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.

EWA16121

! WARNING

Do not exceed the following loading limits:

- Front storage compartment A: 1 kg (2.2 lb)
- Front storage compartment B: 1 kg (2.2 lb)
- Rear storage compartment: 5 kg (11 lb)
- Maximum load for the vehicle:
YP250R 185 kg (408 lb)
YP250RA 181 kg (399 lb)

Adjusting the shock absorber assemblies

EAU14893

EWA10211

! WARNING

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

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

ECA10102

NOTICE

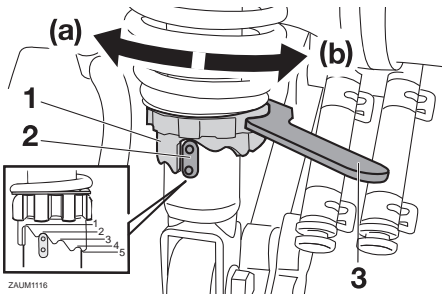
To avoid damaging the mechanism, do not attempt to turn beyond the maximum or minimum settings.

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).

INSTRUMENT AND CONTROL FUNCTIONS

3

- Align the appropriate notch in the adjusting ring with the position indicator on the shock absorber.
- Use the spring preload adjusting tool included in the owner's tool kit to make this adjustment.



1. Position indicator
2. Spring preload adjusting ring
3. Spring preload adjusting tool

Spring preload setting:

Minimum (soft):

1

Standard:

2

Maximum (hard):

5

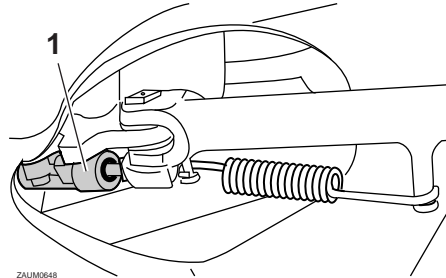
Sidestand

EAU15306

EWA10242



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



1. Sidestand switch

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

TIP

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

EAU45053

Ignition circuit cut-off system

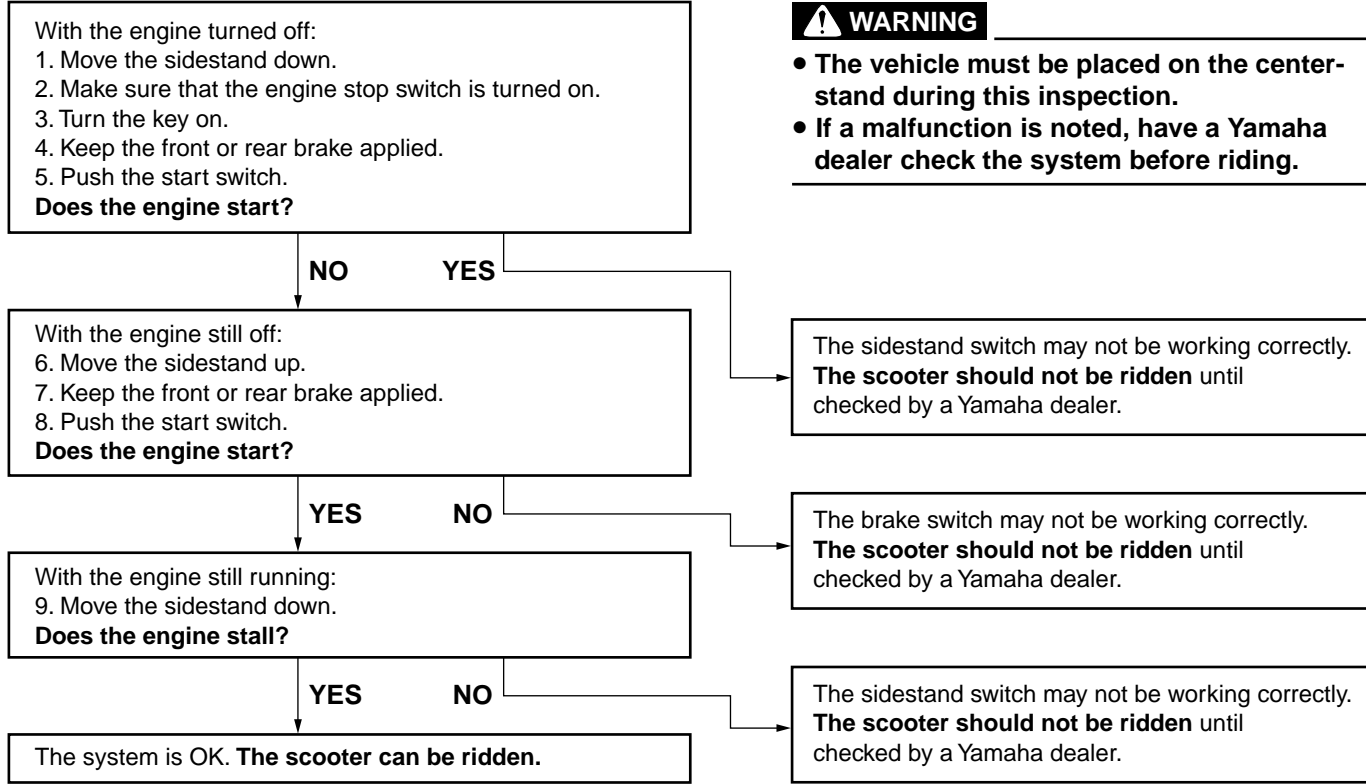
The ignition circuit cut-off system (comprising the sidestand switch and brake light switches) has the following functions.

- 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.

INSTRUMENT AND CONTROL FUNCTIONS

3



FOR YOUR SAFETY – PRE-OPERATION CHECKS

EAU15598

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

EWA11152

WARNING

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

4

Before using this vehicle, check the following points:

ITEM	CHECKS	PAGE
Fuel	<ul style="list-style-type: none">• Check fuel level in fuel tank.• Refuel if necessary.• Check fuel line for leakage.	3-17
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.	6-12
Final transmission oil	<ul style="list-style-type: none">• Check vehicle for oil leakage.	6-13
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.	6-14
Front brake	<ul style="list-style-type: none">• Check operation.• If soft or spongy, have Yamaha dealer bleed hydraulic system.• Check brake pads for wear.• Replace if necessary.• Check fluid level in reservoir.• If necessary, add specified brake fluid to specified level.• Check hydraulic system for leakage.	6-20, 6-21, 6-22

FOR YOUR SAFETY – PRE-OPERATION CHECKS

ITEM	CHECKS	PAGE
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 specified brake fluid to specified level. • Check hydraulic system for leakage. 	6-20, 6-21, 6-22
Throttle grip	<ul style="list-style-type: none"> • Make sure that operation is smooth. • Check throttle grip free play. • If necessary, have Yamaha dealer adjust throttle grip free play and lubricate cable and grip housing. 	6-17, 6-24
Wheels and tires	<ul style="list-style-type: none"> • Check for damage. • Check tire condition and tread depth. • Check air pressure. • Correct if necessary. 	6-18, 6-20
Brake levers	<ul style="list-style-type: none"> • Make sure that operation is smooth. • Lubricate lever pivoting points if necessary. 	6-24
Centerstand, sidestand	<ul style="list-style-type: none"> • Make sure that operation is smooth. • Lubricate pivots if necessary. 	6-25
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. 	3-22

OPERATION AND IMPORTANT RIDING POINTS

EAU15952

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

EWA10272



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

EAU48021

TIP

This model is equipped with a lean angle sensor to stop the engine in case of a turnover. In this case, the multi-function display indicates error code 30, but this is not a malfunction. Turn the key to "OFF" and then to "ON" to clear the error code. Failing to do so will prevent the engine from starting even though the engine will crank when pushing the start switch.

EAUM3350

Starting the engine

ECA10251

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 side-stand must be up.

See page 3-23 for more information.

1. Turn the key to "ON".

The following warning light, indicator light and indicators should come on for a few seconds, then go off.

- Engine trouble warning light
- Immobilizer system indicator light
- V-belt replacement indicator
- Oil change indicator
- Fuel level warning light

ECA11834

NOTICE

If a warning or indicator light does not come on initially when the key is turned to "ON", or if a warning or in-

OPERATION AND IMPORTANT RIDING POINTS

indicator light remains on, see page 3-3 for the corresponding warning and indicator light circuit check.

For ABS models:

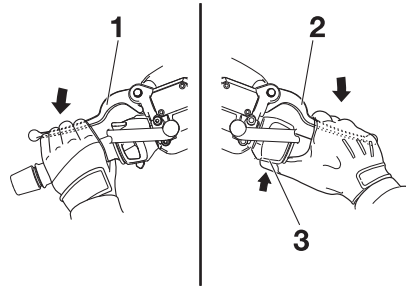
The ABS warning light should come on when the main switch is turned to "ON" and then go off after traveling at a speed of 10 km/h (6 mi/h) or higher.

ECA17682

5 NOTICE

If the ABS warning light does not come on and then go off as explained above, see page 3-3 for the warning light circuit check.

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



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

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.

ECA11043

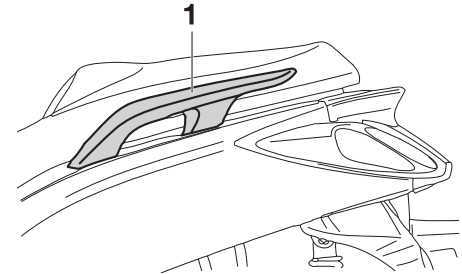
NOTICE

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

EAU45093

Starting off

1. While pulling the rear brake lever with your left hand and holding the grab bar with your right hand, push the scooter off the center-stand.



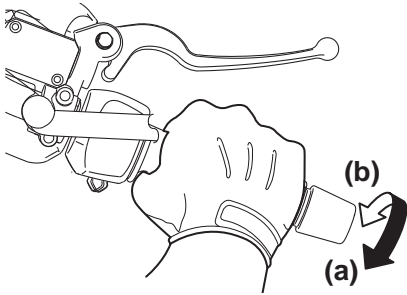
1. Grab bar

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.

OPERATION AND IMPORTANT RIDING POINTS

Acceleration and deceleration

EAU16782



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

Braking

EAU16794

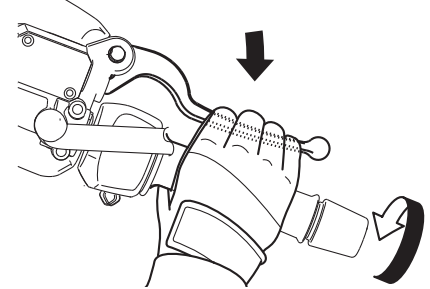
EWA10301

⚠ WARNING

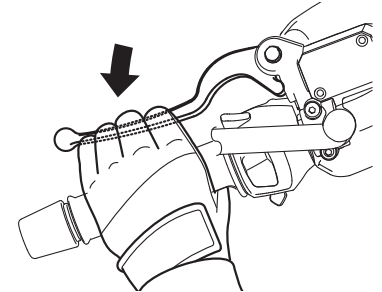
- Avoid braking hard or suddenly (especially when leaning over to one side), otherwise the scooter may skid or overturn.
- Railroad crossings, streetcar rails, iron plates on road construction sites, and manhole covers become extremely slippery when wet. Therefore, slow down when approaching such areas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

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

Front



Rear



OPERATION AND IMPORTANT RIDING POINTS

Tips for reducing fuel consumption

EAU16821

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

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

Engine break-in

EAU16842

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

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

EAUS1811

0–1000 km (0–600 mi)

Avoid prolonged operation above 4000 r/min. **NOTICE: After 1000 km (600 mi) of operation, be sure to replace the engine oil and final transmission oil.** [ECA11662]

1000–1600 km (600–1000 mi)

Avoid prolonged operation above 6000 r/min.

1600 km (1000 mi) and beyond

The vehicle can now be operated normally.

ECA10311

NOTICE

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

EAU17214

Parking

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

EWA10312

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

EAUS1824

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

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

WARNING

EWA10322

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

EWA15123

WARNING

Turn off the engine when performing maintenance unless otherwise specified.

- **A running engine has moving parts that can catch on body parts or clothing and electrical parts that can cause shocks or fires.**
- **Running the engine while servicing can lead to eye injury, burns, fire, or carbon monoxide poisoning – possibly leading to death. See page 1-3 for more information about carbon monoxide.**

EWA10331

WARNING

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

EWA15461

WARNING

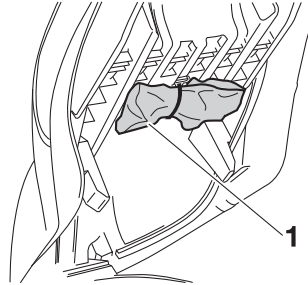
Brake discs, calipers, drums, and linings can become very hot during use. To avoid possible burns, let brake components cool before touching them.

EAU17303

EAU17382

Emission controls not only function to ensure cleaner air, but are also vital to proper engine operation and maximum performance. In the following periodic maintenance charts, the services related to emissions control are grouped separately. These services require specialized data, knowledge, and equipment. Maintenance, replacement, or repair of the emission control devices and systems may be performed by any repair establishment or individual that is certified (if applicable). Yamaha dealers are trained and equipped to perform these particular services.

Owner's tool kit



ZAJUM1020

1. Owner's tool kit

The owner's tool kit is located under the seat. (See page 3-19.)

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

TIP _____

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

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU46862

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 50000 km (30000 mi), repeat the maintenance intervals starting from 10000 km (6000 mi).
- Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills.

EAU46911

Periodic maintenance chart for the emission control system

NO.	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING					ANNUAL CHECK
			1000 km (600 mi)	10000 km (6000 mi)	20000 km (12000 mi)	30000 km (18000 mi)	40000 km (24000 mi)	
1	* Fuel line	• Check fuel hoses for cracks or damage.		√	√	√	√	√
2	Spark plug	• Check condition. • Clean and regap.		√		√		
		• Replace.			√		√	
3	* Valves	• Check valve clearance. • Adjust.			√		√	
4	* Fuel injection	• Check engine idle speed.		√	√	√	√	√
5	* Muffler and exhaust pipe	• Check the screw clamp(s) for looseness.	√	√	√	√	√	

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU1770K

General maintenance and lubrication chart

NO.	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING					ANNUAL CHECK
			1000 km (600 mi)	10000 km (6000 mi)	20000 km (12000 mi)	30000 km (18000 mi)	40000 km (24000 mi)	
1	Air filter element	• Replace.			√		√	
2	Air filter check hose	• Clean.	√	√	√	√	√	
3	V-belt case air filter element	• Clean.		√	√	√	√	√
4	* Front brake	• Check operation, fluid level and vehicle for fluid leakage.	√	√	√	√	√	√
		• Replace brake pads.	Whenever worn to the limit					
5	* Rear brake	• Check operation, fluid level and vehicle for fluid leakage.	√	√	√	√	√	√
		• Replace brake pads.	Whenever worn to the limit					
6	* Brake hoses	• Check for cracks or damage. • Check for correct routing and clamping.		√	√	√	√	√
		• Replace.	Every 4 years					
7	* Brake fluid	• Replace.	Every 2 years					
8	* Wheels	• Check runout and for damage.		√	√	√	√	
9	* Tires	• Check tread depth and for damage. • Replace if necessary. • Check air pressure. • Correct if necessary.		√	√	√	√	√
10	* Wheel bearings	• Check bearings for looseness or damage.		√	√	√	√	

PERIODIC MAINTENANCE AND ADJUSTMENT

NO.	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING					ANNUAL CHECK
			1000 km (600 mi)	10000 km (6000 mi)	20000 km (12000 mi)	30000 km (18000 mi)	40000 km (24000 mi)	
11 *	Steering bearings	• Check bearing play and steering for roughness.	√	√	√	√	√	
		• Lubricate with lithium-soap-based grease.	Every 20000 km (12000 mi)					
12 *	Chassis fasteners	• Make sure that all nuts, bolts and screws are properly tightened.		√	√	√	√	√
13	Front brake lever pivot shaft	• Lubricate with silicone grease.		√	√	√	√	√
14	Rear brake lever pivot shaft	• Lubricate with silicone grease.		√	√	√	√	√
15	Sidestand, center-stand	• Check operation. • Lubricate with lithium-soap-based grease.		√	√	√	√	√
16 *	Sidestand switch	• Check operation.	√	√	√	√	√	√
17 *	Front fork	• Check operation and for oil leakage.		√	√	√	√	
18 *	Shock absorber assemblies	• Check operation and shock absorbers for oil leakage.		√	√	√	√	
19	Engine oil	• Change. (See pages 3-8 and 6-12.)	√	When the oil change indicator light flashes (3000 km (1800 mi) after the initial 1000 km [600 mi] and every 3000 km (1800 mi) thereafter)				
		• Check oil level and vehicle for oil leakage.	Every 3000 km (1800 mi)					√
20 *	Engine oil strainer	• Clean.	√					

PERIODIC MAINTENANCE AND ADJUSTMENT

NO.	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING					ANNUAL CHECK
			1000 km (600 mi)	10000 km (6000 mi)	20000 km (12000 mi)	30000 km (18000 mi)	40000 km (24000 mi)	
21	* Cooling system	• Check coolant level and vehicle for coolant leakage.		√	√	√	√	√
		• Change coolant.	Every 3 years					
22	Final transmission oil	• Check vehicle for oil leakage.	√	√		√		
		• Change.	√		√		√	
23	* V-belt	• Replace.	When the V-belt replacement indicator flashes [every 20000 km (12500 mi)]					
24	* Front and rear brake switches	• Check operation.	√	√	√	√	√	√
25	Moving parts and cables	• Lubricate.		√	√	√	√	√
26	* Throttle grip	• Check operation. • Check throttle grip free play, and adjust if necessary. • Lubricate cable and grip housing.		√	√	√	√	√
27	* Lights, signals and switches	• Check operation. • Adjust headlight beam.	√	√	√	√	√	√

TIP

- Engine air filter and V-belt air filters
 - This model's engine air filter is equipped with a disposable oil-coated paper element, which must not be cleaned with compressed air to avoid damaging it.
 - The engine air filter element needs to be replaced and the V-belt air filter elements need to be serviced more frequently when riding in unusually wet or dusty areas.

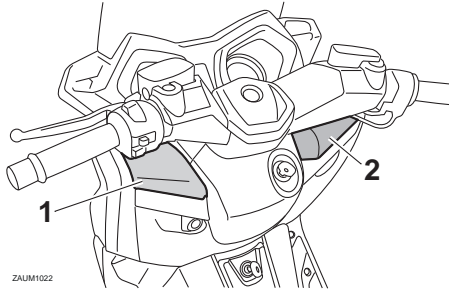
PERIODIC MAINTENANCE AND ADJUSTMENT

- Hydraulic brake service
 - After disassembling the brake master cylinders and calipers, always change the fluid. Regularly check the brake fluid levels and fill the reservoirs as required.
 - Every two years replace the internal components of the brake master cylinders and calipers, and change the brake fluid.
 - Replace the brake hoses every four years and if cracked or damaged.
-

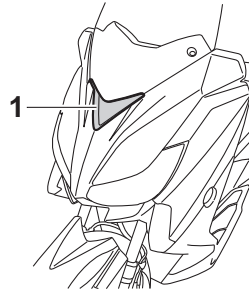
PERIODIC MAINTENANCE AND ADJUSTMENT

Removing and installing panels EAU18772

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



1. Panel A
2. Panel B

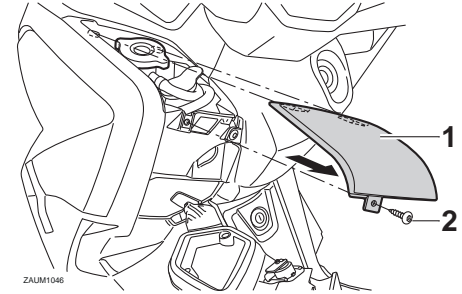


1. Panel C

Panel A

To remove the panel

1. Open the front storage compartment A. (See page 3-20.)
2. Remove the screw, and then pull the panel off.



1. Panel A
2. Screw

To install the panel

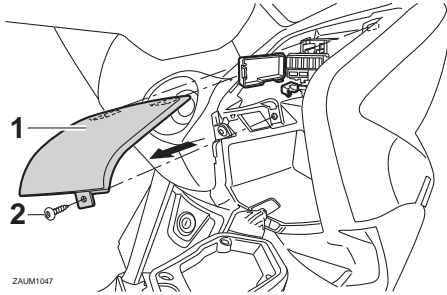
Place the panel in the original position, and then install the screw.

Panel B

To remove the panel

1. Open the front storage compartment B. (See page 3-20.)
2. Remove the screw, and then pull the panel off.

PERIODIC MAINTENANCE AND ADJUSTMENT



ZAJUM1047

1. Panel B
2. Screw

6

To install the panel

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

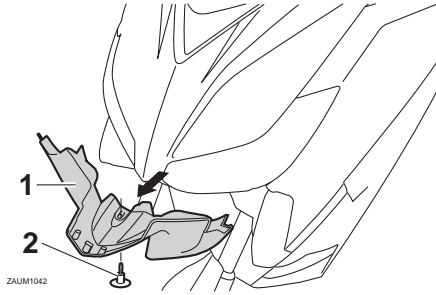
Panel C

To remove the panel

1. Remove the quick fastener, and then pull the under cowling off as shown.

TIP

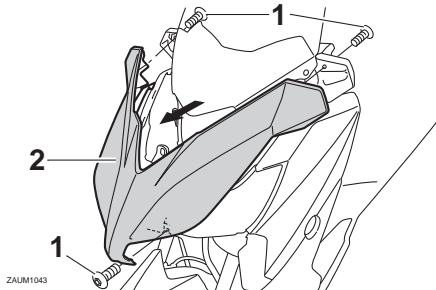
The quick fastener is removed by pushing the center pin in with a screwdriver, and then pulling the fastener out.



ZAJUM1042

1. Cowling
2. Quick fastener (after removal)

2. Remove the cowling screws, and then pull it off.

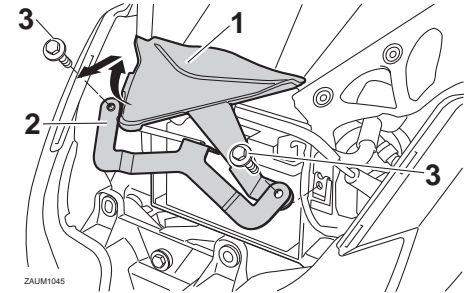


ZAJUM1043

1. Screw
2. Cowling

3. Remove the battery bracket bolts, and then pull it off.

4. Remove the battery bracket and panel assembly by pulling it off as shown.



ZAJUM1045

1. Panel C
2. Bracket
3. Bolt

To install the panel

1. Place the battery bracket and panel assembly in the original position, and then install the bolts.
2. Place the cowling in the original position, and then install the screws.
3. Place the under cowling in the original position, and then install the quick fastener.

PERIODIC MAINTENANCE AND ADJUSTMENT

TIP

To install the quick fastener, push the center pin out so that it will protrude from the fastener head, insert the fastener into the under cowling, and then push the protruding pin in until it is flush with the fastener head.

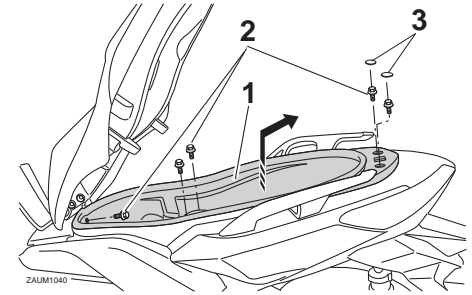
Checking the spark plug

EAUM3360

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

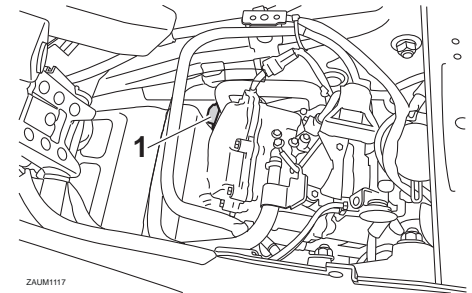
To remove the spark plug

1. Place the vehicle on the center-stand
2. Open the seat. (See page 3-19.)
3. Remove the rear storage compartment by removing the bolts.



1. Storage compartment
2. Bolt
3. Rubber cap

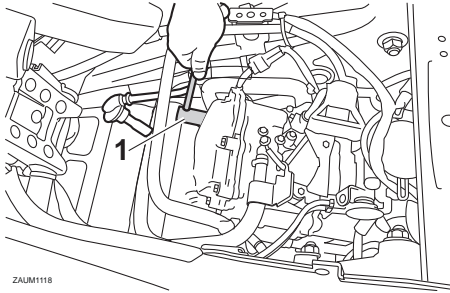
4. Remove the spark plug cap.



1. Spark plug cap

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

PERIODIC MAINTENANCE AND ADJUSTMENT



ZAUM1118

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).

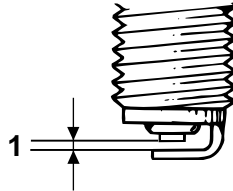
TIP

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/DPR8EA-9

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



1. Spark plug gap

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

To install the spark plug

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

Tightening torque:

Spark plug:
17.5 Nm (1.75 m·kgf, 12.7 ft·lbf)

TIP

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

3. Install the spark plug cap.
4. Place the rear storage compartment in the original position and install the bolts.
5. Close the seat.

PERIODIC MAINTENANCE AND ADJUSTMENT

Engine oil

EAIM1552

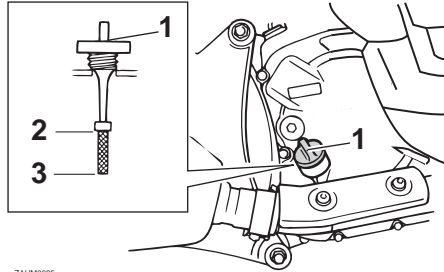
The engine oil level should be checked before each ride. In addition, the oil must be changed at the intervals specified in the periodic maintenance and lubrication chart and when the service indicator light comes on.

To check the engine oil level

1. Place the scooter on the center-stand. A slight tilt to the side can result in a false reading.
2. Start the engine, warm it up for several minutes, and then turn it off.
3. Wait a few minutes until the oil settles, remove the oil filler cap, wipe the dipstick clean, insert it back into the oil filler hole (without screwing it in), and then remove it again to check the oil level.

TIP

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



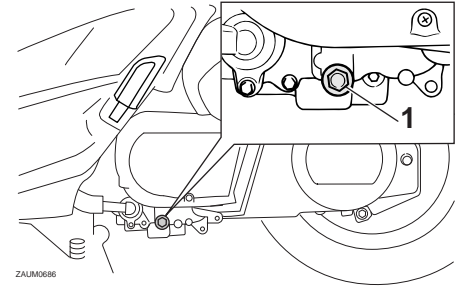
ZAJM0685

1. Engine oil filler cap
2. Maximum level mark
3. 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

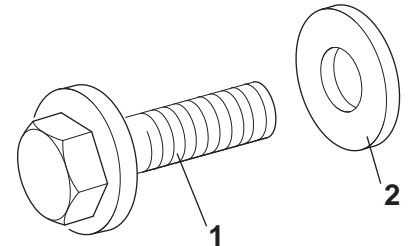
1. Start the engine, warm it up for several minutes, and then turn it off.
2. Place an oil pan under the engine to collect the used oil.

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



ZAJM0686

1. Engine oil drain bolt
4. Check the washer for damage and replace it if necessary.



ZAJM0129

1. Engine oil drain bolt
2. Washer

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU20067

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:
20 Nm (2.0 m·kgf, 14 ft·lbf)

TIP

Make sure that the washer is properly seated.

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:

1.30 L (1.37 US qt, 1.14 Imp.qt)

ECA11671

NOTICE

- **Do not use oils with a diesel specification of “CD” or oils of a higher quality than specified. In addition, do not use oils labeled “ENERGY CONSERVING II” or higher.**

- **Be sure no foreign material enters the crankcase.**

7. Start the engine, and then let it idle for several minutes while checking it for oil leakage. If oil is leaking, immediately turn the engine off and check for the cause.
8. Reset the oil change indicator. (See page 3-8.)

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 center-stand.
3. Place an oil pan under the final transmission case to collect the used oil.
4. Remove the final transmission oil filler cap and its O-ring from the final transmission case.

PERIODIC MAINTENANCE AND ADJUSTMENT

EAU20071

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.

EAM3043

To check the coolant level

1. Place the vehicle on a level surface and hold it in an upright position.
2. Open the front storage compartment A. (See page 3-20.)

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.
3. Check the coolant level through the check window.

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

Tightening torque:

Final transmission oil drain bolt:
22 Nm (2.2 m·kgf, 16 ft·lbf)

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

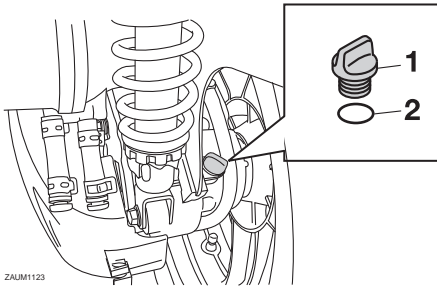
Recommended final transmission oil:

See page 8-1.

Oil quantity:

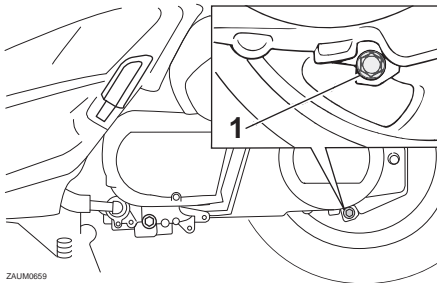
0.25 L (0.26 US qt, 0.22 Imp.qt)

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



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

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

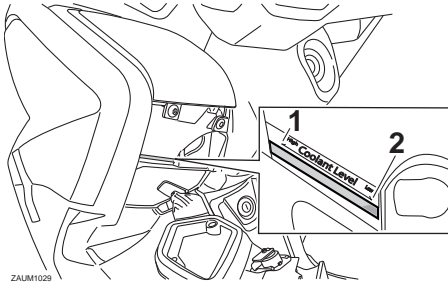


1. Final transmission oil drain bolt

PERIODIC MAINTENANCE AND ADJUSTMENT

TIP

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



1. Maximum level mark
2. Minimum level mark

4. If the coolant is at or below the minimum level mark, remove panel A. (See page 6-8.)
5. Open the reservoir cap, and then add coolant to the maximum level mark. **WARNING! Remove only the coolant reservoir cap. Never attempt to remove the radiator cap when the engine is hot.** [EWA15162] **NOTICE: If coolant is not available, use distilled water or soft tap water instead. Do not use hard water or salt water**

since it is harmful to the engine. If water has been used instead of coolant, replace it with coolant as soon as possible, otherwise the cooling system will not be protected against frost and corrosion. If water has been added to the coolant, have a Yamaha dealer check the anti-freeze content of the coolant as soon as possible, otherwise the effectiveness of the coolant will be reduced. [ECA10473]



1. Coolant reservoir cap

Coolant reservoir capacity:
0.32 L (0.34 US qt, 0.28 Imp.qt)

6. Close the reservoir cap, and then install the panel.

7. Close the front storage compartment.

EAU33032

Changing the coolant

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

PERIODIC MAINTENANCE AND ADJUSTMENT

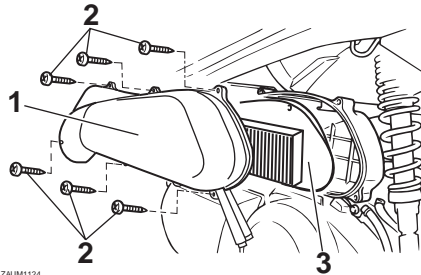
Air filter and V-belt case air filter elements and check hoses

EAUM3370

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

Replacing the air filter element

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



ZAJUM1124

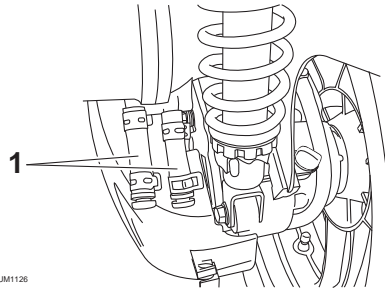
1. Air filter case cover
2. Screw
3. Air filter element

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

To clean the air filter check hoses

1. Check the hoses at the bottom of air filter case for accumulated dirt or water.

Left

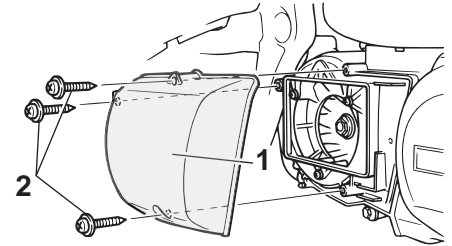


ZAJUM1126

1. Air filter check hose
2. If dirt or water is visible, remove the hose, clean it, and then install it.

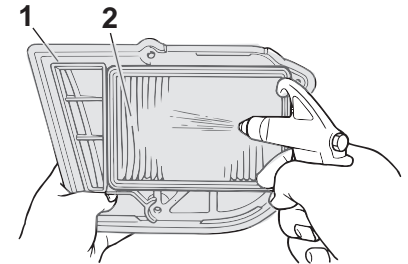
Cleaning the V-belt case air filter element

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



ZAJUM0448

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



ZAJUM0449

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

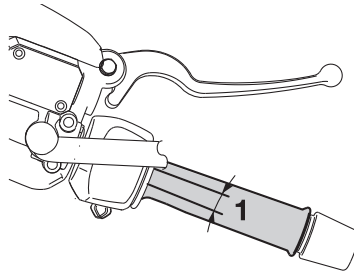
PERIODIC MAINTENANCE AND ADJUSTMENT

2. Remove the air filter element, and then blow out the dirt with compressed air as shown.
3. Check the air filter element for damage and replace it if necessary.
4. Install the air filter element with the colored side facing outward.
5. Install the V-belt case air filter covers 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. [ECA10532]

Checking the throttle grip free play

EAU21385



1. Throttle grip free play

The throttle grip free play should measure 3.0–5.0 mm (0.12–0.20 in) at the inner edge of the throttle grip. Periodically check the throttle grip free play and, if necessary, have a Yamaha dealer adjust it.

Valve clearance

EAU21402

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.

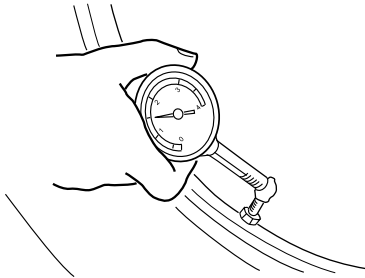
PERIODIC MAINTENANCE AND ADJUSTMENT

Tires

EAU21877

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

Tire air pressure



ZALM0053

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

EWA10504

! WARNING

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

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

Tire air pressure (measured on cold tires):

0–90 kg (0–198 lb):

Front:

190 kPa (1.90 kgf/cm², 28 psi)

Rear:

220 kPa (2.20 kgf/cm², 32 psi)

YP250R 90–185 kg (198–408 lb)

YP250RA 90–181 kg (198–399 lb):

Front:

210 kPa (2.10 kgf/cm², 30 psi)

Rear:

250 kPa (2.50 kgf/cm², 36 psi)

Maximum load*:

YP250R 185 kg (408 lb)

YP250RA 181 kg (399 lb)

* Total weight of rider, passenger, cargo and accessories

EWA10512

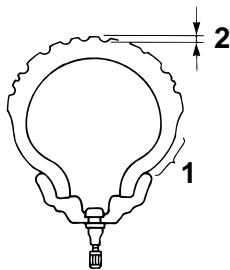
! WARNING

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

PERIODIC MAINTENANCE AND ADJUSTMENT

EWA10472

Tire inspection



1. Tire sidewall
2. Tire tread depth

6

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)

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.

Tires age, even if they have not been used or have only been used occasionally. Cracking of the tread and sidewall rubber, sometimes accompanied by carcass deformation, is an evidence of ageing. Old and aged tires shall be checked by tire specialists to ascertain their suitability for further use.

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

Front tire:

Size:

120/70-15 M/C 56P(METZELER)-56S(MICHELIN)

Manufacturer/model:

METZELER / FEELFREE
MICHELIN / CITYGRIP

Rear tire:

Size:

140/70-14 M/C 68P(METZELER)-68S(MICHELIN)

Manufacturer/model:

METZELER / FEELFREE
MICHELIN / CITYGRIP

⚠ WARNING

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

PERIODIC MAINTENANCE AND ADJUSTMENT

Cast wheels

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

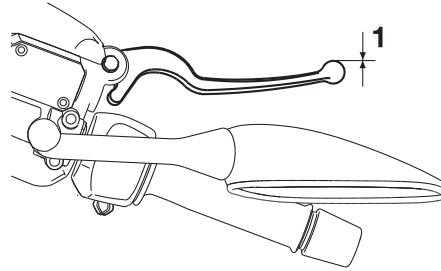
- The wheel rims should be checked for cracks, bends, warpage or other damage before each ride. If any damage is found, have a Yamaha dealer replace the wheel. Do not attempt even the smallest repair to the wheel. A deformed or cracked wheel must be replaced.
- The wheel should be balanced whenever either the tire or wheel has been changed or replaced. An unbalanced wheel can result in poor performance, adverse handling characteristics, and a shortened tire life.

EAU21963

Checking the front and rear brake lever free play

EAU50861

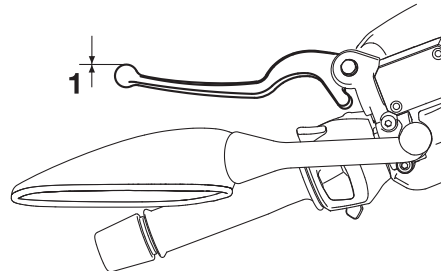
Front



ZALUM1049

1. No brake lever free play

Rear



ZALUM1050

1. No brake lever free play

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

EWA14212

⚠ WARNING

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

PERIODIC MAINTENANCE AND ADJUSTMENT

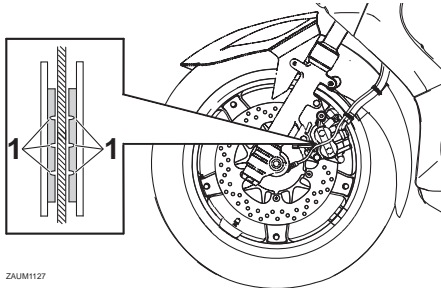
Checking the front and rear brake pads

EAU22393

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

EAU22432



ZAJUM1127

1. 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.

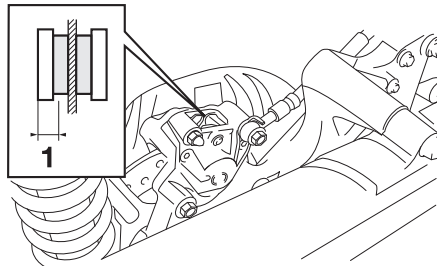
Rear brake pads

EAUS1992

The rear brake is provided with a check plug, which, if it is removed, allows you to check the brake pad wear without disassembling the brake.

YP250R

If the lining thickness is less than 4.6 mm (0.18 in), have a Yamaha dealer replace the brake pads as a set.

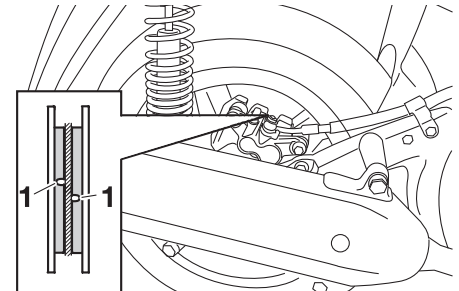


ZAJUM1133

1. Lining thickness

YP250RA

To check the brake pad wear, check the position of the wear indicator while applying the brake. If a brake pad has worn to the point that the wear indicator almost touches the brake disc, have a Yamaha dealer replace the brake pads as a set.



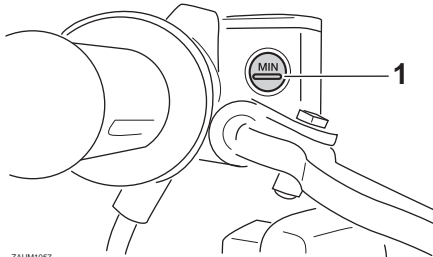
1. Brake pad wear indicator groove

PERIODIC MAINTENANCE AND ADJUSTMENT

Checking the brake fluid level EAU40262

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

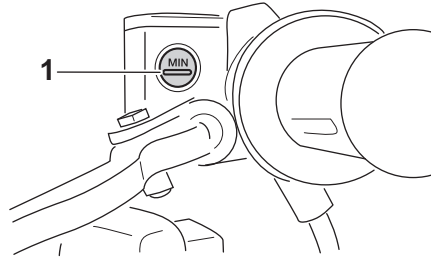
Front brake



ZALUM1057

1. Minimum level mark

Rear brake



ZALUM1032

1. Minimum level mark

Specified brake fluid:
DOT 4

EWA16011

⚠ WARNING

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

- **Insufficient brake fluid may allow air to enter the brake system, reducing braking performance.**
- **Clean the filler cap before removing. Use only DOT 4 brake fluid from a sealed container.**

- **Use only the specified brake fluid; otherwise, the rubber seals may deteriorate, causing leakage.**
- **Refill with the same type of brake fluid. Adding a brake fluid other than DOT 4 may result in a harmful chemical reaction.**
- **Be careful that water or dust does not enter the brake fluid reservoir when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock, and dirt may clog the ABS hydraulic unit valves.**

ECA17641

NOTICE

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

As the brake pads wear, it is normal for the brake fluid level to gradually go down. A low brake fluid level may indicate worn brake pads and/or brake system leakage; therefore, be sure to check the brake pads for wear and the brake system for leakage. If the brake

PERIODIC MAINTENANCE AND ADJUSTMENT

fluid level goes down suddenly, have a Yamaha dealer check the cause before further riding.

Changing the brake fluid

EAU22733

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

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

Checking and lubricating the cables

EAU23098

The operation of all control cables and the condition of the cables should be checked before each ride, and the cables and cable ends should be lubricated if necessary. If a cable is damaged or does not move smoothly, have a Yamaha dealer check or replace it. **WARNING! Damage to the outer housing of cables may result in internal rusting and cause interference with cable movement. Replace damaged cables as soon as possible to prevent unsafe conditions.** [EWA10712]

Recommended lubricant:

Yamaha cable lubricant or other suitable cable lubricant

PERIODIC MAINTENANCE AND ADJUSTMENT

Checking and lubricating the throttle grip and cable

EAU23115

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

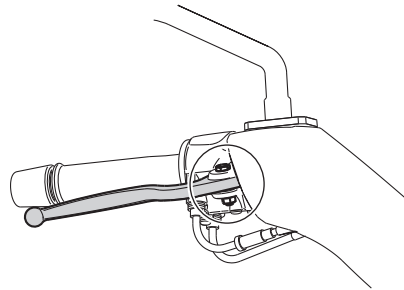
The throttle cable is equipped with a rubber cover. Make sure that the cover is securely installed. Even though the cover is installed correctly, it does not completely protect the cable from water entry. Therefore, use care not to pour water directly onto the cover or cable when washing the vehicle.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

Lubricating the front and rear brake levers

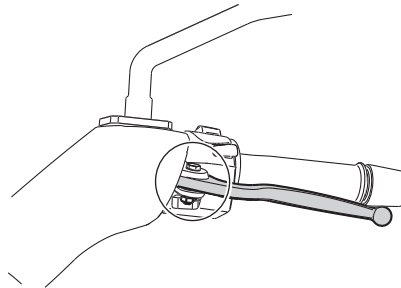
EAU23173

Recommended lubricant:
Silicone grease

Front brake lever



Rear brake lever

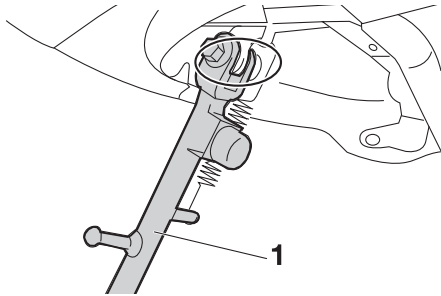


The pivoting points of the front and rear brake levers must be lubricated at the intervals specified in the periodic maintenance and lubrication chart.

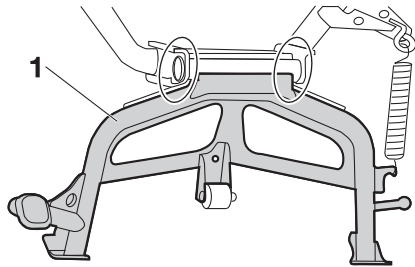
PERIODIC MAINTENANCE AND ADJUSTMENT

Checking and lubricating the centerstand and sidestand

EAU23215



1. Sidestand



1. Centerstand

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

EWA10742

WARNING

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

Recommended lubricant:
Lithium-soap-based grease

EAU23273

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.

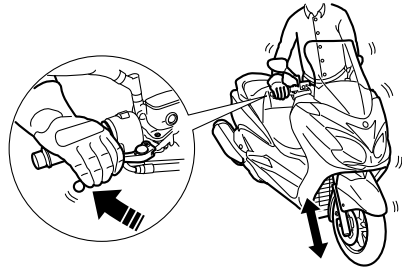
To check the condition

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

To check the operation

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

PERIODIC MAINTENANCE AND ADJUSTMENT



ECA10591

NOTICE

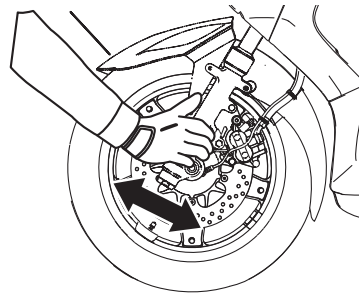
If any damage is found or the front fork does not operate smoothly, have a Yamaha dealer check or repair it.

Checking the steering

EAU45512

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

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



ZAUM1128

Checking the wheel bearings

EAU23292

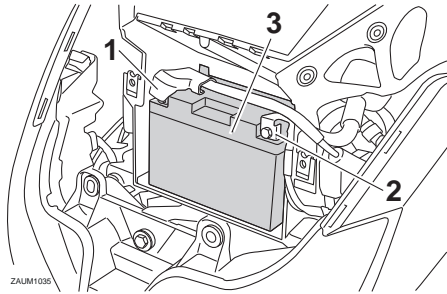


The front and rear wheel bearings must be checked at the intervals specified in the periodic maintenance and lubrication chart. If there is play in the wheel hub or if the wheel does not turn smoothly, have a Yamaha dealer check the wheel bearings.

PERIODIC MAINTENANCE AND ADJUSTMENT

Battery

EAU46344



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

The battery is located behind panel C. (See page 6-8.)

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

EWA10761

WARNING

- **Electrolyte is poisonous and dangerous since it contains sulfuric acid, which causes severe**

burns. Avoid any contact with skin, eyes or clothing and always shield your eyes when working near batteries. In case of contact, administer the following FIRST AID.

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

To charge the battery

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

battery tends to discharge more quickly if the vehicle is equipped with optional electrical accessories.

ECA16522

NOTICE

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

To store the battery

1. If the model will not be used for more than one month, remove the battery, fully charge it, and then place it in a cool, dry place. **NOTICE: When removing the battery, be sure the key is turned to "OFF", then disconnect the negative lead before disconnecting the positive lead.**
2. If the battery will be stored for more than two months, check it at least once a month and fully charge it if necessary.
3. Fully charge the battery before installation. **NOTICE: When installing the battery, be sure the key**

[ECA16303]

PERIODIC MAINTENANCE AND ADJUSTMENT

is turned to “OFF”, then connect the positive lead before connecting the negative lead. [ECA16841]

ECA16531

NOTICE

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

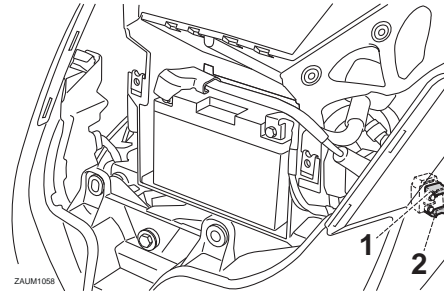
EAUM3092

Replacing the fuses

The fuse box, which contains the fuses for the individual circuits, is located behind panel B. (See page 6-8.)

TIP

The main fuse, which is in a different and hard-to-reach location, must be replaced by a Yamaha dealer.



1. Main fuse
2. Spare main fuse

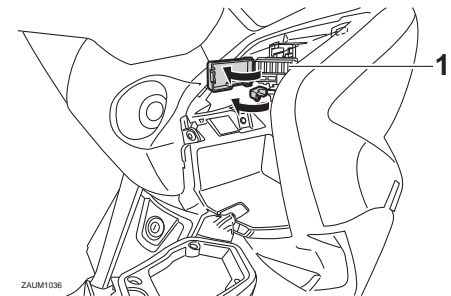
If a fuse for the individual circuits is blown, replace it as follows.

1. Turn the key to “OFF” and turn off the electrical circuit in question.
2. Remove the blown fuse, and then install a new fuse of the specified amperage. **WARNING! Do not**

use a fuse of a higher amperage rating than recommended to avoid causing extensive damage to the electrical system and possibly a fire. [EWA15132]

TIP

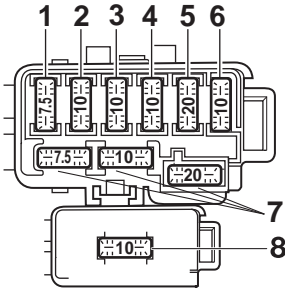
Fuse tongs are included in the owner’s tool kit. Use the tongs to remove and install a fuse.



1. Fuse box

PERIODIC MAINTENANCE AND ADJUSTMENT

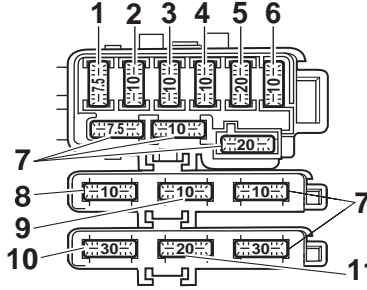
YP250R



ZAUM1037

1. Radiator fan fuse
2. ECU fuse
3. Backup fuse
4. Signaling system fuse
5. Headlight fuse
6. Ignition fuse
7. Spare fuse
8. Hazard fuse

YP250RA



ZAUM1129

1. Radiator fan fuse
2. ECU fuse
3. Backup fuse
4. Signaling system fuse
5. Headlight fuse
6. Ignition fuse
7. Spare fuse
8. Hazard fuse
9. ABS control unit fuse
10. ABS motor fuse
11. ABS solenoid fuse

Specified fuses:

- Main fuse:
30.0 A
- Ignition fuse:
10.0 A
- Signaling system fuse:
10.0 A
- Headlight fuse:
20.0 A
- Turn signal light and hazard fuse:
10.0 A
- Radiator fan fuse:
7.5 A
- ABS control unit fuse:
YP250RA 10.0 A
- ABS motor fuse:
YP250RA 30.0 A
- ABS solenoid fuse:
YP250RA 20.0 A
- Backup fuse:
10.0 A

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

PERIODIC MAINTENANCE AND ADJUSTMENT

Replacing a headlight bulb

EAU34242

This model is equipped with halogen bulb headlights. If a headlight bulb burns out, have a Yamaha dealer replace it and, if necessary, adjust the headlight beam.

Tail/brake light

EAU24182

This model is equipped with an LED-type tail/brake light. If the tail/brake light does not come on, have a Yamaha dealer check it.

Front turn signal light

EAU39881

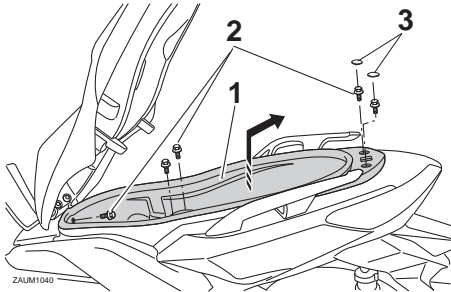
If a front turn signal light does not come on, have a Yamaha dealer check its electrical circuit or replace the bulb.

PERIODIC MAINTENANCE AND ADJUSTMENT

Replacing a rear turn signal light bulb

EAUM3062

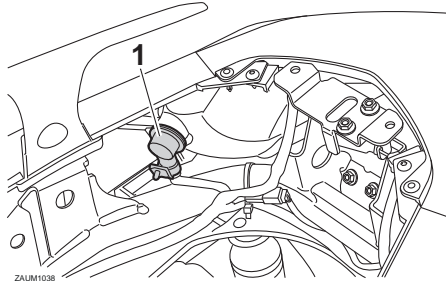
1. Place the scooter on the center-stand.
2. Open the seat. (See page 3-19.)
3. Remove the rear storage compartment by removing the bolts.
4. Remove the socket (together with the turn signal light bulb) by turning it counterclockwise.



ZAUM1040

1. Storage compartment
2. Bolt
3. Rubber cap

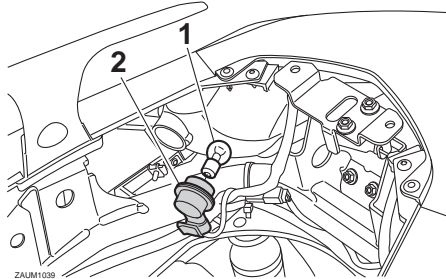
5. Remove the burnt-out bulb by pushing it in and turning it counterclockwise.



ZAUM1038

1. Turn signal light bulb socket

6. Insert a new bulb into the socket, push it in, and then turn it clockwise until it stops.



ZAUM1039

1. Turn signal light bulb
2. Turn signal light bulb socket

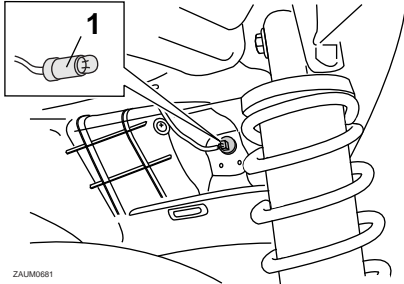
7. Install the socket (together with the bulb) by turning it clockwise.

8. Place the rear storage compartment in the original position and install the bolts.
9. Close the seat.

EAUJ2203

Replacing the license plate light bulb

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



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

ZAJM0681

EAU54501

Auxiliary light

This model is equipped with LED-type auxiliary lights.

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

EAU25882

Troubleshooting

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

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

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

EWA15142

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

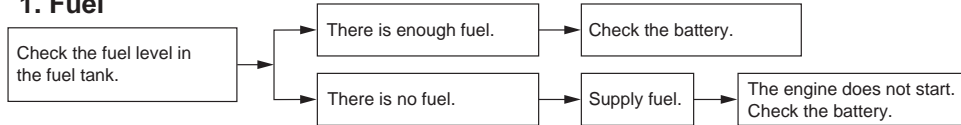
PERIODIC MAINTENANCE AND ADJUSTMENT

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

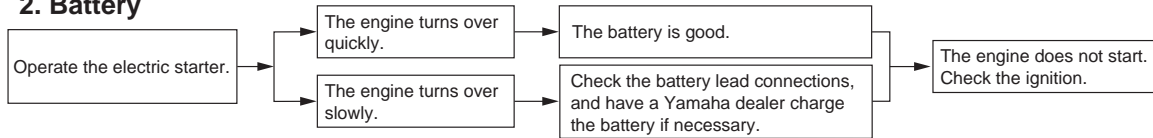
Troubleshooting charts

Starting problems or poor engine performance

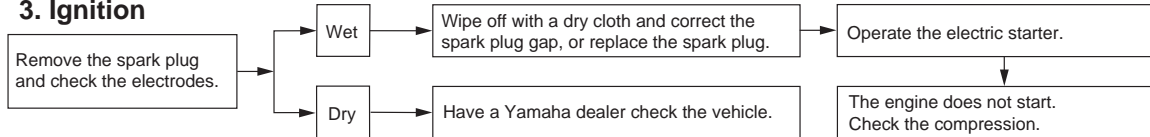
1. Fuel



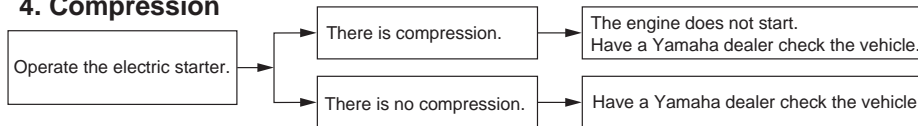
2. Battery



3. Ignition



4. Compression



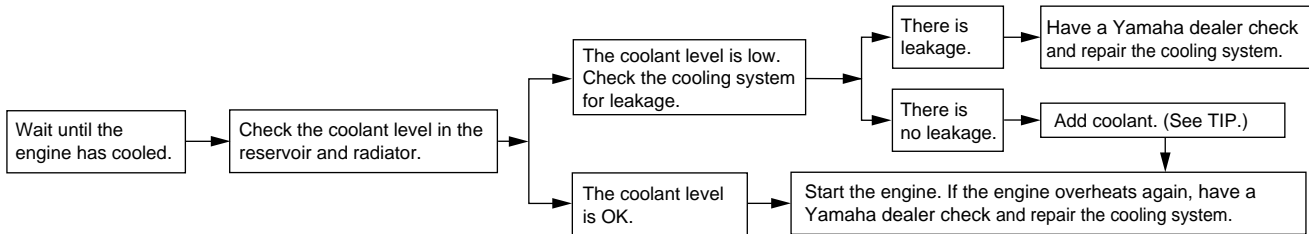
PERIODIC MAINTENANCE AND ADJUSTMENT

Engine overheating

EWAT1041

⚠ WARNING

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



TIP

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

Matte color caution

EAU37834

NOTICE

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

ECA15193

Care

EAU26096

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 prod-

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

Cleaning

ECA10784

NOTICE

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

SCOOTER CARE AND STORAGE

off any detergent residue using plenty of water, as it is harmful to plastic parts.

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

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

After normal use

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

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

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

TIP

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

1. Clean the scooter with cold water and a mild detergent after the engine has cooled down. **NOTICE: Do not use warm water since it increases the corrosive action of the salt.** [ECA10792]
2. Apply a corrosion protection spray on all metal, including chrome- and nickel-plated, surfaces to prevent corrosion.

Cleaning the windshield

Avoid using any alkaline or strong acid cleaner, gasoline, brake fluid, or any other solvent. Clean the windshield with a cloth or sponge dampened with a mild detergent, and then wash it off thoroughly with water. For additional cleaning, use Yamaha Windshield Cleaner or another high-quality windshield cleaner. Some cleaning compounds for plastics may leave scratches on the windshield. Before using such cleaners, test an area of the

SCOOTER CARE AND STORAGE

windshield which does not affect your visibility and which cannot be easily recognized.

After cleaning

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

WARNING

EWA10943

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

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

ECA10801

NOTICE

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

TIP

- Consult a Yamaha dealer for advice on what products to use.
- Washing, rainy weather or humid climates can cause the headlight lens to fog. Turning the headlight on for a short period of time will help remove the moisture from the lens.

SCOOTER CARE AND STORAGE

Storage

EAU36564

Short-term

Always store your scooter in a cool, dry place and, if necessary, protect it against dust with a porous cover. Be sure the engine and the exhaust system are cool before covering the scooter.

ECA10821

NOTICE

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

Long-term

Before storing your scooter for several months:

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

2. Fill up the fuel tank and add fuel stabilizer (if available) to prevent the fuel tank from rusting and the fuel from deteriorating.
3. Perform the following steps to protect the cylinder, piston rings, etc. from corrosion.
 - a. Remove the spark plug cap and spark plug.
 - b. Pour a teaspoonful of engine oil into the spark plug bore.
 - c. Install the spark plug cap onto the spark plug, and then place the spark plug on the cylinder head so that the electrodes are grounded. (This will limit sparking during the next step.)
 - d. Turn the engine over several times with the starter. (This will coat the cylinder wall with oil.)
 - e. Remove the spark plug cap from the spark plug, and then install the spark plug and the spark plug cap. **WARNING! To prevent damage or injury from sparking, make sure to ground the spark plug electrodes while turning the engine over.** [EWA10952]
4. Lubricate all control cables and the pivoting points of all levers and pedals as well as of the side-stand/centerstand.
5. Check and, if necessary, correct the tire air pressure, and then lift the scooter so that both of its wheels are off the ground. Alternatively, turn the wheels a little every month in order to prevent the tires from becoming degraded in one spot.
6. Cover the muffler outlet with a plastic bag to prevent moisture from entering it.
7. Remove the battery and fully charge it. Store it in a cool, dry place and charge it once a month. Do not store the battery in an excessively cold or warm place [less than 0 °C (30 °F) or more than 30 °C (90 °F)]. For more information on storing the battery, see page 6-27.

TIP

Make any necessary repairs before storing the scooter.

Dimensions:

Overall length:
2175 mm (85.6 in)
Overall width:
790 mm (31.1 in)
Overall height:
1385 mm (54.5 in)
Seat height:
785 mm (30.9 in)
Wheelbase:
1525 mm (60.0 in)
Ground clearance:
125 mm (4.92 in)
Minimum turning radius:
2500 mm (98.4 in)

Weight:

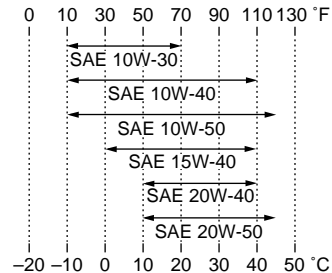
Curb weight:
YP250R 178 kg (392 lb)
YP250RA 182 kg (401 lb)

Engine:

Engine type:
Liquid cooled 4-stroke, SOHC
Cylinder arrangement:
Single cylinder
Displacement:
249 cm³
Bore × stroke:
69.0 × 66.8 mm (2.72 × 2.63 in)
Compression ratio:
10.00 : 1
Starting system:
Electric starter
Lubrication system:
Wet sump

Engine oil:

Recommended brand:
YAMALUBE
Type:
SAE 10W-30, 10W-40, 15W-40, 20W-40 or
20W-50



Recommended engine oil grade:
API service SF type or higher, JASO
standard MA
Engine oil quantity:
Periodic oil change:
1.30 L (1.37 US qt, 1.14 Imp.qt)

Final transmission oil:

Type:
YAMALUBE 10W-40 or SAE 10W-30 type
SE motor oil
Quantity:
0.25 L (0.26 US qt, 0.22 Imp.qt)

Cooling system:

Coolant reservoir capacity (up to the
maximum level mark):
0.32 L (0.34 US qt, 0.28 Imp.qt)

Radiator capacity (including all routes):
1.20 L (1.27 US qt, 1.06 Imp.qt)

Air filter:

Air filter element:
Oil-coated paper element

Fuel:

Recommended fuel:
Premium unleaded gasoline (Gasohol (E10)
acceptable)
Fuel tank capacity:
13.2 L (3.49 US gal, 2.90 Imp.gal)
Fuel reserve amount:
2.5 L (0.66 US gal, 0.55 Imp.gal)

Fuel injection:

Throttle body:
ID mark:
1C04 00

Spark plug(s):

Manufacturer/model:
NGK/DPR8EA-9
Spark plug gap:
0.8–0.9 mm (0.031–0.035 in)

Clutch:

Clutch type:
Dry, centrifugal automatic

Transmission:

Primary reduction ratio:
(1.000)
Final drive:
Gear
Secondary reduction ratio:
40/15 × 40/14 (7.619)
Transmission type:
V-belt automatic

SPECIFICATIONS

Operation:
Centrifugal automatic type

Chassis:

Frame type:
Underbone
Caster angle:
28.00 °

Trail:
100 mm (3.9 in)

Front tire:

Type:
Tubeless
Size:
120/70-15 M/C 56P(METZELER)-
56S(MICHELIN)
Manufacturer/model:
METZELER / FEELFREE
Manufacturer/model:
MICHELIN / CITYGRIP

Rear tire:

Type:
Tubeless
Size:
140/70-14 M/C 68P(METZELER)-
68S(MICHELIN)
Manufacturer/model:
METZELER / FEELFREE
Manufacturer/model:
MICHELIN / CITYGRIP

Loading:

Maximum load:
YP250R 185 kg (408 lb)
YP250RA 181 kg (399 lb)

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

Tire air pressure (measured on cold tires):

Loading condition:
0–90 kg (0–198 lb)
Front:
190 kPa (1.90 kgf/cm², 28 psi)

Rear:
220 kPa (2.20 kgf/cm², 32 psi)

Loading condition:
YP250R 90–185 kg (198–408 lb)
YP250RA 90–181 kg (198–399 lb)

Front:
210 kPa (2.10 kgf/cm², 30 psi)

Rear:
250 kPa (2.50 kgf/cm², 36 psi)

Front wheel:

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

Rear wheel:

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

Front brake:

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

Rear brake:

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

Front suspension:

Type:
Telescopic fork
Spring/shock absorber type:
Coil spring/oil damper
Wheel travel:
110 mm (4.3 in)

Rear suspension:

Type:
Unit swing
Spring/shock absorber type:
Coil spring/oil damper
Wheel travel:
84 mm (3.3 in)

Electrical system:

Ignition system:
TCI
Charging system:
AC magneto

Battery:

Model:
GT9B-4
Voltage, capacity:
12 V, 8.0 Ah

Headlight:

Bulb type:
Halogen bulb

Bulb voltage, wattage × quantity:

Headlight:
12 V, 55.0 W × 2

Tail/brake light:
LED

Front turn signal light:
12 V, 10.0 W × 2

Rear turn signal light:
12 V, 10.0 W × 2

Auxiliary light:
12 V, 5.0 W × 2

License plate light:
12 V, 5.0 W × 1

Meter lighting:
LED

High beam indicator light:
LED

Turn signal indicator light:
LED

Fuel level warning light:
LED

Engine trouble warning light:
LED

ABS warning light:
YP250RA LED

Immobilizer system indicator light:
LED

Fuses:

Main fuse:
30.0 A

Headlight fuse:
20.0 A

Signaling system fuse:
10.0 A

Ignition fuse:
10.0 A

Radiator fan fuse:
7.5 A

Turn signal light and hazard fuse:
10.0 A

ECU fuse:
10.0 A

ABS control unit fuse:
YP250RA 10.0 A

ABS motor fuse:
YP250RA 30.0 A

ABS solenoid fuse:
YP250RA 20.0 A

Backup fuse:
10.0 A

CONSUMER INFORMATION

EAU40793

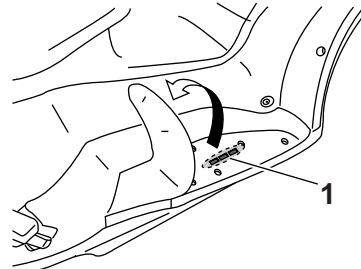
Identification numbers

Record the 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.

VEHICLE IDENTIFICATION NUMBER:

MODEL LABEL INFORMATION:

Vehicle identification number



ZAU00693

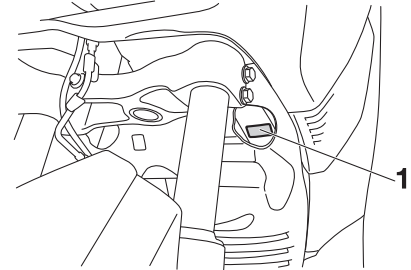
1. Vehicle identification number

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.

EAU26411

Model label



1. Model label

The model label is affixed to the location shown. Record the information on this label in the space provided. This information will be needed when ordering spare parts from a Yamaha dealer.

EAU26461

- A**
- ABS (for ABS models) 3-16
 - ABS warning light (for ABS models) 3-4
 - Acceleration and deceleration 5-3
 - Air filter and V-belt case air filter elements 6-16
 - Anti-theft alarm (optional) 3-13
 - Auxiliary light 6-32
- B**
- Battery 6-27
 - Brake fluid, changing 6-23
 - Brake fluid level, checking 6-22
 - Brake lever, front 3-15
 - Brake lever, rear 3-15
 - Brake levers, lubricating 6-24
 - Braking 5-3
- C**
- Cables, checking and lubricating 6-23
 - Care 7-1
 - Catalytic converters 3-19
 - Centerstand and sidestand, checking and lubricating 6-25
 - Coolant 6-14
- D**
- Dimmer switch 3-14
- E**
- Engine break-in 5-4
 - Engine oil 6-12
 - Engine trouble warning light 3-4
- F**
- Final transmission oil 6-13
 - Front and rear brake lever free play, checking 6-20
 - Front and rear brake pads, checking ... 6-21
 - Front fork, checking 6-25
 - Front turn signal light 6-30
 - Fuel 3-17
 - Fuel consumption, tips for reducing 5-4
 - Fuel level warning light 3-4
 - Fuel tank cap 3-17
 - Fuses, replacing 6-28
- H**
- Handlebar switches 3-14
 - Hazard switch 3-14
 - Headlight bulb, replacing 6-30
 - High beam indicator light 3-4
 - Horn switch 3-14
- I**
- Identification numbers 9-1
 - Ignition circuit cut-off system 3-23
 - Immobilizer system 3-1
 - Immobilizer system indicator light 3-5
 - Indicator lights and warning lights 3-3
- L**
- License plate light bulb, replacing 6-32
- M**
- Main switch/steering lock 3-2
 - Maintenance and lubrication, periodic... 6-4
 - Maintenance, emission control system 6-3
 - Matte color, caution 7-1
 - Model label 9-1
 - Multi-function meter unit 3-5
- P**
- Panels, removing and installing 6-8
 - Parking 5-5
 - Part locations 2-1
 - Pass switch 3-14
- S**
- Safe-riding points 1-5
 - Safety information 1-1
 - Seat 3-19
 - Shock absorber assemblies, adjusting 3-21
 - Sidestand 3-22
 - Spark plug, checking 6-10
 - Specifications 8-1
 - Starting off 5-2
 - Starting the engine 5-1
 - Start switch 3-14
 - Steering, checking 6-26
 - Storage 7-4
 - Storage compartments 3-20
- T**
- Tail/brake light 6-30
 - Throttle grip and cable, checking and lubricating 6-24
 - Throttle grip free play, checking 6-17
 - Tires 6-18
 - Tool kit 6-2
 - Troubleshooting 6-32
 - Troubleshooting charts 6-34
 - Turn signal indicator lights 3-3
 - Turn signal light bulb (rear), replacing 6-31
 - Turn signal switch 3-14
- V**
- Valve clearance 6-17
 - Vehicle identification number 9-1
- W**
- Wheel bearings, checking 6-26
 - Wheels 6-20



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