YAMAHA

OWNER'S MANUAL

SMAX
MOTORCYCLE

⚠ Read this manual carefully before operating this vehicle.

XC155L

LIT-11626-33-47

2SW-F8199-15

EAU10045

⚠ WARNING: Operating, servicing and maintaining a passenger vehicle or off-road vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to www.P65Warnings.ca.gov/passenger-vehicle

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

EAU10093

Congratulations on your purchase of the Yamaha XC155L. This model is the result of Yamaha's vast experience in the production of fine sporting, touring, and pacesetting racing machines. It represents the high degree of craftsmanship and reliability that have made Yamaha a leader in these fields.
This manual will give you an understanding of the operation, inspection, and basic maintenance of this scooter. If you have any questions concerning the operation or maintenance of your scooter, please consult a Yamaha dealer.
The design and manufacture of this Yamaha scooter fully comply with the emissions standards for clean air applicable at the date of manufacture. Yamaha has met these standards without reducing the performance or economy of operation of the scooter. To maintain these high standards, it is important that you and your Yamaha dealer pay close attention to the recommended maintenance schedules and operating instructions contained within this manual.
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.

EWA12582

⚠ WARNING

Please read this manual and the "YOU AND YOUR MOTORCYCLE: RIDING TIPS" booklet carefully and completely before operating this scooter. Do not attempt to operate this scooter until you have attained adequate knowledge of its controls and operating features and until you have been trained in safe and proper riding techniques. Regular inspections and careful maintenance, along with good riding skills, will ensure that you safely enjoy the capabilities and reliability of this scooter.

Important manual information

EAU63350

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

⚠	**This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.**
⚠ 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.

EAUT2192

XC155L
OWNER'S MANUAL
©2020 by Yamaha Motor Corporation, U.S.A.
1st edition, July 2019
All rights reserved.
Any reprinting or unauthorized use without the written permission of Yamaha Motor Corporation, U.S.A. is expressly prohibited.
Printed in Taiwan.
P/N LIT-11626-33-47

Table of contents

Location of important labels 1-1

Safety information 2-1
Further safe-riding points 2-5

Description 3-1
Left view 3-1
Right view 3-2
Controls and instruments 3-3

Instrument and control functions ... 4-1
Main switch/steering lock 4-1
Keyhole cover 4-2
Indicator lights and warning lights ... 4-3
Tachometer 4-4
Fuel gauge 4-4
Multi-function display 4-5
Handlebar switches 4-7
Front brake lever 4-8
Rear brake lever 4-9
Fuel tank cap 4-9
Fuel 4-10
Fuel tank breather hose and overflow hose 4-11
Catalytic converter 4-12
Seat 4-12
Passenger footrest 4-13
Helmet holder 4-13
Storage compartments 4-14
Shock absorber assembly 4-15
Luggage hook 4-15
Sidestand 4-16
Ignition circuit cut-off system 4-16

For your safety – pre-operation checks 5-1

Operation and important riding points 6-1
Engine break-in 6-1
Starting the engine 6-2
Starting off 6-3
Acceleration and deceleration 6-3
Braking 6-4
Tips for reducing fuel consumption 6-5
Parking 6-5

Periodic maintenance and adjustment 7-1
Tool kit 7-2
Periodic maintenance chart for the emission control system 7-3
General maintenance and lubrication chart 7-4
Removing and installing panels 7-7
Checking the spark plug 7-8
Canister 7-10
Engine oil and oil strainer 7-10
Why Yamalube 7-12
Final transmission oil 7-13
Coolant 7-14
Air filter and V-belt case air filter elements 7-15
Checking the engine idling speed 7-17
Checking the throttle grip free play 7-17
Valve clearance 7-18
Tires 7-18
Cast wheels 7-20
Checking the front and rear brake lever free play 7-21
Checking the front and rear brake pads 7-21
Checking the brake fluid level 7-22
Changing the brake fluid 7-23
Checking and lubricating the cables 7-24
Checking and lubricating the throttle grip and cable 7-24
Lubricating the front and rear brake levers 7-25
Checking and lubricating the centerstand and sidestand 7-25
Checking the front fork 7-26
Checking the steering 7-27
Checking the wheel bearings 7-27
Battery 7-28
Replacing the fuses 7-29
Replacing the headlight bulb 7-30
Auxiliary lights 7-31

Table of contents

Tail/brake light 7-31
Replacing a turn signal light bulb 7-32
Replacing a license plate light bulb 7-32
Troubleshooting.....7-33
Troubleshooting chart.....7-34

Scooter care and storage.....8-1
Matte color caution 8-1
Care.....8-1
Storage 8-4

Specifications.....9-1

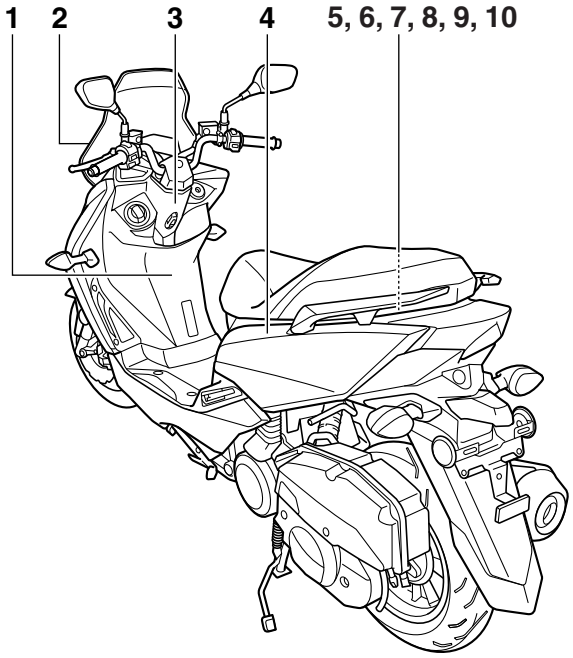
Consumer information 10-1
Identification numbers 10-1
Reporting safety defects.....10-3
Motorcycle noise regulation.....10-4
Maintenance record.....10-5
YAMAHA MOTOR CORPORATION, U.S.A. 2020 AND LATER MODEL SCOOTER LIMITED WARRANTY.....10-6
YAMAHA EXTENDED SERVICE (Y.E.S.).....10-8

Index.....11-1

Location of important labels

EAU10385

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



Location of important labels

1

MFD.BY YAMAHA MOTOR TAIWAN CO.,LTD. 05/14 MADE IN TAIWAN
GVWR 309 kg (681 lbs) [MOTORCYCLE]
GAWR F :102 kg (225 lbs) WITH 120/70-13 M/C 53P TIRE, J13 x MT3.00 DOT RIM, AT 200kPa(29 psi) COLD
GAWR R :207 kg (456 lbs) WITH 130/70-13 M/C 57P TIRE, J13 x MT3.50 DOT RIM, AT 225kPa(33 psi) COLD
THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY STANDARDS
IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.
RKRSG30Y2FA000105
2SW-F118B-00

2

NOTICE
- Cleaning with alkaline or acid cleaner, gasoline or solvent will damage windsheld.
- Use neutral detergent.

2SW-F815K-00

3

LOAD LIMIT
HOOK 3 kg{7 lbs}
COMPARTMENT 1.5 kg{3 lbs}
2SW-F4876-00

4

⚠ WARNING
- BEFORE YOU OPERATE THIS VEHICLE, READ THE OWNER'S MANUAL AND ALL LABELS.
- ALWAYS WEAR AN APPROVED MOTORCYCLE HELMET, eye protection, and protective clothing.

5PJ-F118K-00

5

LOAD LIMIT
5 kg {11lbs}
5PJ-F4877-01

6

○ 2SW1-010
● A

7

⚠ WARNING
Improper loading can cause loss of control.
Read owner's manual for proper loading.
4JK-F8446-01

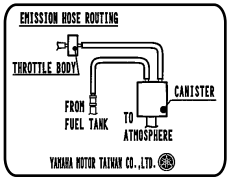
8

TIRE INFORMATION
Cold tire normal pressure should be set as follows.
• Up to 90kg (198lbs) load
FRONT : 200kpa, {2.00kgf/cm^2}, 29psi
REAR : 200kpa, {2.00kgf/cm^2}, 29psi
• 90kg (198lbs)～maximum load)
FRONT : 200kpa, {2.00kgf/cm^2}, 29psi
REAR : 225kpa, {2.25kgf/cm^2}, 33psi
2SW-F168B-00

9

VEHICL EMISSION CONTROL INFORMATION YAMAHA MOTOR TAIWAN CO.,LTD.
ENG : FYMXC-155GCA PERM : FYMXPPM42BF6 EVAP : FYMXU0008YDB
TUNE-UP SPECIFICATIONS AND ADJUSTMENTS (REFER TO YOUR OWNER'S MANUAL)
DISPLACEMENT : 155cm^3 EXHAUST EMISSION CONTROL SYSTEM : TWC ; SPI ; HEDS
SPARK PLUG GAP : 0.6-0.9mm VALVE LASH : IN 0.08-0.12mm EX 0.22-0.28mm
IDLE SPEED : 1700 r/min IN NEUTRAL AT NORMAL OPERTING TEMPERATURE
FUEL : UNLEADED GASOLINE 91 RON MIN ENGINE OIL : SAE 10W-40
NO OTHER ADJUSTMENTS NEEDED.
THIS VEHICLE CONFORMS TO US EPA AND CALIFOTNIA REGULATIONS APPLICABLE TO 2015 MODEL YEAR NEW MCs, AND IS CERTIFIED TO HC 1.0 AND CO 12.0 (g/km) ENGINE EXHAUST EMISSION STANDARDS.
THIS MC MEETS1986 AND LATER EPA NOISE EMISSION REQUIREMENTS OF THE FED. THE FED. TEST PROCEDURES.
MODIFICATIONS WHICH CAUSE THIS MC TO EXCEED FED. NOISE STD ARE PROHIBITED BY FED LAW.
SEE OWNER'S MANUAL. LIMIT/CLOSING : 80 dBA/ 7125 r/min MODEL CODE:YAM2SW0155
YAMAHA
2SW-F176F-00

10



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 5-1 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.

Avoid Carbon Monoxide Poisoning

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

Carbon Monoxide is a colorless, odorless, tasteless gas which may be present even if you do not see or smell any engine exhaust. Deadly levels of carbon monoxide can collect rapidly and you can quickly be overcome and unable to save yourself. Also, deadly levels of carbon monoxide can linger for

hours or days in enclosed or poorly ventilated areas. If you experience any symptoms of carbon monoxide poisoning, leave the area immediately, get fresh air, and SEEK MEDICAL TREATMENT.

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

Loading

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

The total weight of the operator, passenger, accessories and cargo must not exceed the maximum load limit. **Operation of an overloaded vehicle could cause an accident.**

Maximum load:
160 kg (353 lb)

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

- Cargo and accessory weight should be kept as low and close to the scooter as possible. Securely pack your heaviest items as close to the center of the vehicle as possible and make sure to distribute the weight as evenly as possible on both sides of the scooter to minimize imbalance or instability.
- Shifting weights can create a sudden imbalance. Make sure that accessories and cargo are securely attached to the scooter before riding. Check accessory mounts and cargo restraints frequently.
  - Properly adjust the suspension for your load (suspension-adjustable models only), and check the condition and pressure of your tires.
  - Never attach any large or heavy items to the handlebar, front fork, or front fender. Such items can create unstable handling or a slow steering response.
- **This vehicle is not designed to pull a trailer or to be attached to a sidecar.**

Genuine Yamaha Accessories

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

Many companies with no connection to Yamaha manufacture parts and accessories or offer other modifications for Yamaha vehicles. Yamaha is not in a position to test the products that these

aftermarket companies produce. Therefore, Yamaha can neither endorse nor recommend the use of accessories not sold by Yamaha or modifications not specifically recommended by Yamaha, even if sold and installed by a Yamaha dealer.

Aftermarket Parts, Accessories, and Modifications

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

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

- Never install accessories or carry cargo that would impair the performance of your scooter. Carefully inspect the accessory before using it to make sure that it does not in any way reduce ground clearance or cornering clearance, limit suspension travel, steering travel or control operation, or obscure lights or reflectors.
  - Accessories fitted to the handlebar or the front fork area can create instability due to improper weight distribution or aerodynamic changes. If accessories are added to the handlebar or front fork area, they must be as lightweight as possible and should be kept to a minimum.
  - Bulky or large accessories may seriously affect the stability of the scooter due to aerodynamic effects. Wind may attempt to lift the scooter, or the scooter may become unstable in cross winds. These accessories may also cause instability when passing or being passed by large vehicles.
  - Certain accessories can displace the operator from his or her normal riding position. This improper position limits the freedom of movement of the operator and may limit control ability, therefore, such accessories are not recommended.
- Use caution when adding electrical accessories. If electrical accessories exceed the capacity of the scooter's electrical system, an electric failure could result, which could cause a dangerous loss of lights or engine power.

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 7-18 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 location for the straps carefully so the straps will not rub against painted surfaces during transport.
- The suspension should be compressed somewhat by the tie-downs, if possible, so that the scooter will not bounce excessively during transport.

EAU57600

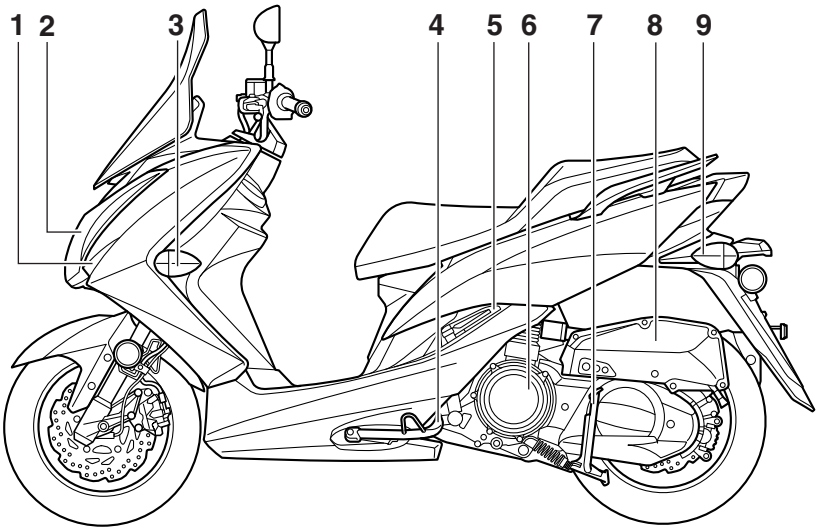
Further safe-riding points

- Be sure to signal clearly when making turns.
- Braking can be extremely difficult on a wet road. Avoid hard braking, because the scooter could slide. Apply the brakes slowly when stopping on a wet surface.
- Slow down as you approach a corner or turn. Once you have completed a turn, accelerate slowly.
- Be careful when passing parked cars. A driver might not see you and open a door in your path.
- Railroad crossings, streetcar rails, iron plates on road construction sites, and manhole covers become extremely slippery when wet. Slow down and cross them with caution. Keep the scooter upright, otherwise it could slide out from under you.
- The brake pads or linings could get wet when you wash the scooter. After washing the scooter, check the brakes before riding.
- Always wear a helmet, gloves, trousers (tapered around the cuff and ankle so they do not flap), and a brightly colored jacket.
- Do not carry too much luggage on the scooter. An overloaded scooter is unstable. Use a strong cord to secure any luggage to the carrier (if equipped). A loose load will affect the stability of the scooter and could divert your attention from the road. (See page 2-3.)

Description

EAU63371

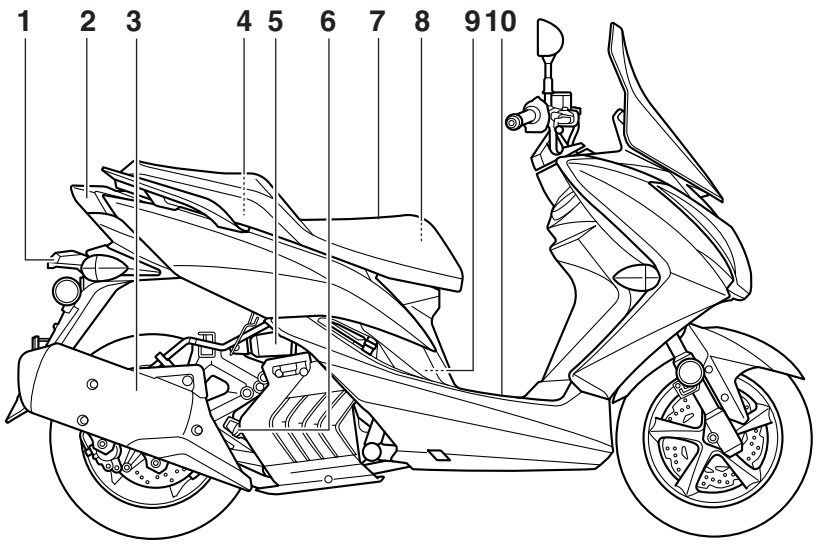
Left view



1. Auxiliary light (page 7-31)
2. Headlight (page 7-30)
3. Front turn signal light (page 7-32)
4. Sidestand (page 4-16)
5. Passenger footrest (page 4-13)
6. V-belt air filter case cover (page 7-15)
7. Centerstand (page 7-25)
8. Air filter (page 7-15)
9. Rear turn signal light (page 7-32)

EAU63391

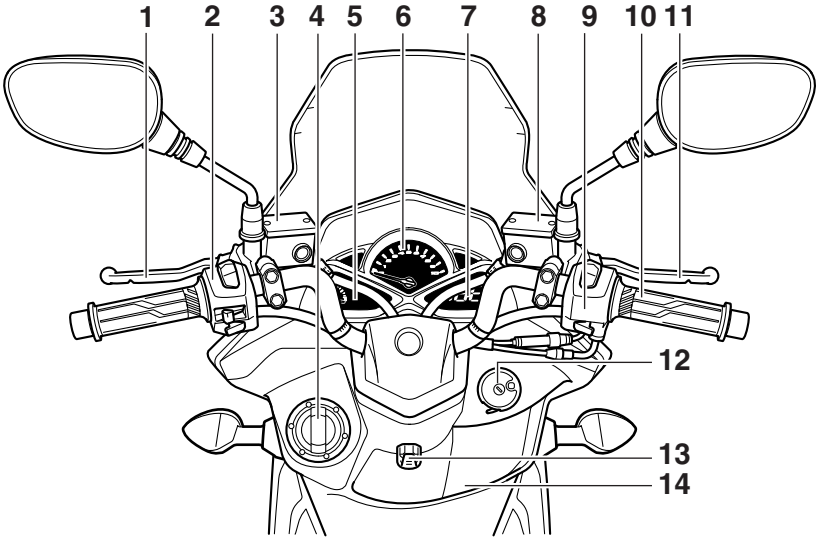
Right view



1. License plate light (page 7-32)
2. Tail/brake light (page 7-31)
3. Muffler (page 4-12)
4. Rear storage compartment (page 4-14)
5. Shock absorber assembly (page 4-15)
6. Engine oil filler cap (page 7-10)
7. Seat (page 4-12)
8. Helmet holder (page 4-13)
9. Spark plug (page 7-8)
10. Coolant reservoir (page 7-14)

EAU63401

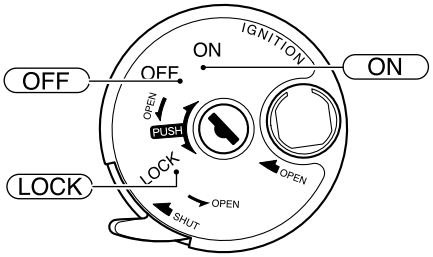
Controls and instruments



1. Rear brake lever (page 4-9)
2. Left handlebar switches (page 4-7)
3. Rear brake fluid reservoir (page 7-22)
4. Fuel tank cap (page 4-9)
5. Fuel gauge (page 4-4)
6. Tachometer (page 4-4)
7. Multi-function display (page 4-5)
8. Front brake fluid reservoir (page 7-22)
9. Right handlebar switches (page 4-7)
10. Throttle grip (page 7-17)
11. Front brake lever (page 4-8)
12. Main switch/steering lock (page 4-1)
13. Luggage hook (page 4-15)
14. Front storage compartment (page 4-14)

EAU45441

Main switch/steering lock



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

The main switch/steering lock is equipped with a keyhole cover. (See page 4-2.)

EAU84031

ON

All electrical circuits are supplied with power and the vehicle lights are turned on. The engine can be started. The key cannot be removed.

TIP

- The headlight(s) will turn on when the engine is started.
- To prevent battery drain, do not leave the key in the on position without the engine running.

EAU10662

OFF

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

EWA10062

⚠ WARNING

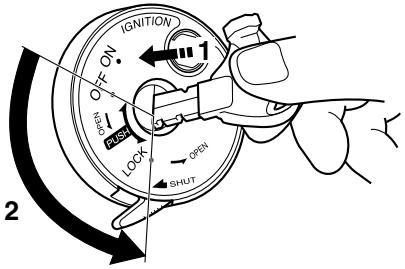
Never turn the key to "OFF" or "LOCK" while the vehicle is moving. Otherwise the electrical systems will be switched off, which may result in loss of control or an accident.

EAU1068B

LOCK

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

To lock the steering



1. Push.
2. Turn.

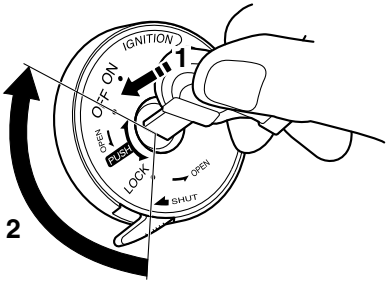
1. Turn the handlebars all the way to the left.
2. With the key in the "OFF" position, push the key in and turn it to "LOCK".
3. Remove the key.

TIP

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

4

To unlock the steering

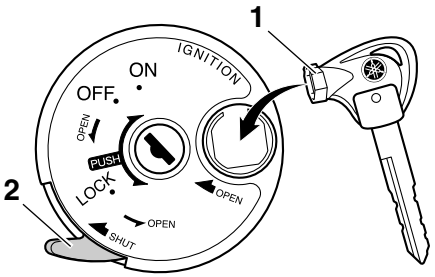


1. Push.
2. Turn.

From the “LOCK” position, push the key in and turn it to “OFF”.

EAUT2112

Keyhole cover



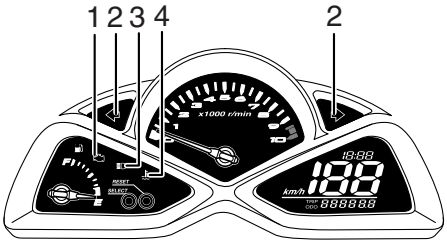
1. Key bow
2. Keyhole cover lever

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

To close the keyhole cover
Push the keyhole cover lever inward and the keyhole cover will close.

EAU4939H

Indicator lights and warning lights



1. Engine trouble warning light "⚙"
2. Turn signal indicator light "⇦ ⇨"
3. High beam indicator light "≡D"
4. Coolant temperature warning light "🌡"

EAU11032

Turn signal indicator lights "⇦" and "⇨"

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

EAU11081

High beam indicator light "≡D"

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

EAU11449

Coolant temperature warning light "🌡"

This warning light comes on when the engine is overheating. If this occurs, stop the engine immediately and allow the engine to cool. (See page 7-35.)
For vehicles with a radiator fan, the radiator fan(s) automatically switch on or off according to the coolant temperature.

TIP

When the vehicle is turned on, the light will come on for a few seconds, and then go off. If the light does not come on, or if the light remains on, have a Yamaha dealer check the vehicle.

ECA10022

NOTICE

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

EAU85130

Engine trouble warning light "⚙"

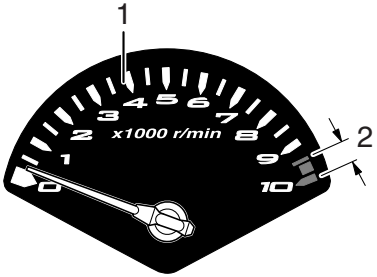
This warning light comes on or flashes if a problem is detected in the engine. If this occurs, have a Yamaha dealer check the vehicle as soon as possible.

TIP

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

EAU11873

Tachometer



1. Tachometer
2. Red zone

The electric tachometer allows the rider to monitor the engine speed and keep it within the ideal power range.
When the key is turned to “ON”, the tachometer needle will sweep once across the r/min range and then return to zero r/min in order to test the electrical circuit.

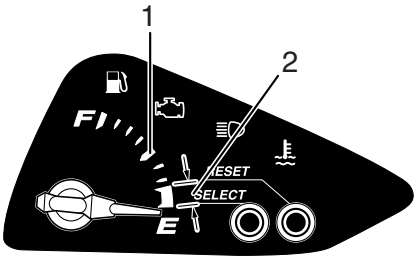
ECA10032

NOTICE

Do not operate the engine in the tachometer red zone.
Red zone: 9500 r/min and above

EAUT4210

Fuel gauge



1. Fuel gauge
2. Red zone

The fuel gauge indicates the amount of fuel in the fuel tank. The needle moves towards “E” (Empty) as the fuel level decreases. When the needle reaches the red zone, refuel as soon as possible.
When the key is turned to “ON”, the fuel gauge needle will sweep once to test the electrical circuit.

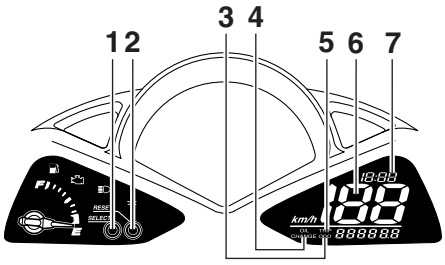
Multi-function display

EAUT4391

EWA12313

⚠ WARNING

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



1. Select button
2. Reset button
3. Odometer
4. Oil change tripmeter
5. Tripmeter
6. Speedometer
7. Clock

The multi-function display is equipped with the following:

- a speedometer
- an odometer
- a tripmeter
- an oil change tripmeter
- an oil change indicator
- a clock

TIP

Be sure to turn the key to “ON” before using the “SELECT” and “RESET” buttons.

Odometer, tripmeter and oil change tripmeter modes

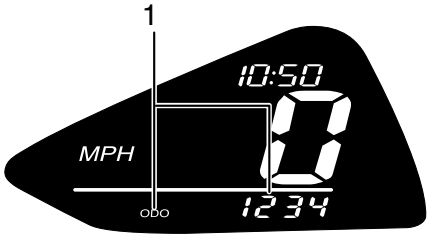
Push the “SELECT” button to switch the display among the odometer mode “ODO”, the tripmeter mode “TRIP” and the oil change tripmeter mode “OIL CHANGE” in the following order:
ODO → TRIP → OIL CHANGE → ODO

TIP

If the odometer, tripmeter, or oil change tripmeter modes indicates “-----”, have a Yamaha dealer check the multi-function display.

Odometer mode

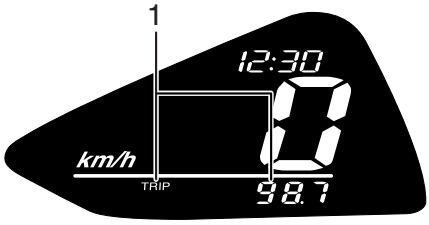
The odometer shows the total distance the vehicle has traveled. It cannot be reset. However, the odometer and tripmeter units can be switched between miles and kilometers by pushing the “SELECT” button for 1 second.



1. Odometer

Tripmeter mode

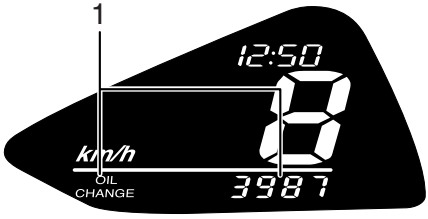
The tripmeter shows the distance traveled since it was last reset. If not reset after a trip, the displayed value will return to 0.0 after 9999.9 miles or kilometers have elapsed. To reset the tripmeter, push the “RESET” button for 1 second.



1. Tripmeter

Oil change tripmeter mode

The oil change tripmeter shows the distance traveled since the engine oil was last changed and this tripmeter was reset. To reset the oil change tripmeter (and the oil change indicator), push the "RESET" button for 1 second. Then, while the oil change indicator is flashing, push the "RESET" button for 3 seconds. The oil change tripmeter will reset and the oil change indicator will stop flashing. Push the "SELECT" button to start the oil change tripmeter and change the display to odometer mode.



1. Oil change tripmeter

Oil change indicator "OIL CHANGE"

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

After changing the engine oil, be sure to reset the oil change tripmeter because this indicator works in conjuntion with the oil change tripmeter and must be reset.

If the engine oil is changed before the oil change indicator flashes (i.e. before the periodic oil change interval has been reached), the oil change tripmeter must be reset in order for the next periodic oil change to be indicated at the correct time.

TIP

If the oil change tripmeter is reset before the initial 1000 km (600 mi), the periodic oil change interval will be at every 3000 km (1800 mi) thereafter.

Clock

The clock uses a 12-hour time system.

To set the clock:

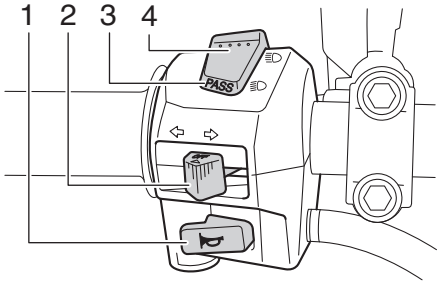
1. Set the display to "ODO", then press the "RESET" button for at least three seconds.
2. When the hour digits start flashing, push the "SELECT" button to set the hours.
3. Push the "RESET" button, and the first minute digit will start flashing.
4. Push the "SELECT" button to set the first minute digit.
5. Push the "RESET" button and the second minute digit will start flashing.
6. Push the "SELECT" button to set the second minute digit.
7. Push the "RESET" button to start the clock.

TIP
If you do not push the “SELECT” or the “RESET” button within 30 seconds, the setting of the clock will not be completed and the display will change to “ODO” mode.

EAU1234M

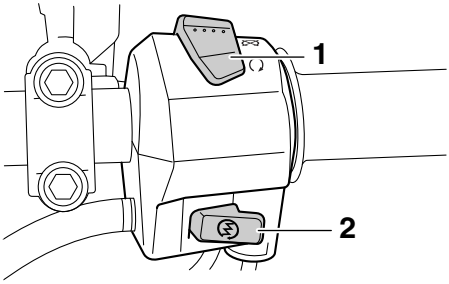
Handlebar switches

Left



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

Right



1. Engine stop switch “ / ”
2. Start switch “ ”

EAU12362

Pass switch “PASS”
Press this switch to flash the headlight.

TIP
When the dimmer switch is set to “ ”, the passing switch has no effect.

EAU12402

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 center 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.

EAU12663

Engine stop switch "◯/⊗"

Set this switch to "◯" (run) before starting the engine. Set this switch to "⊗" (stop) to stop the engine in case of an emergency, such as in the event of an overturn or if the throttle is stuck.

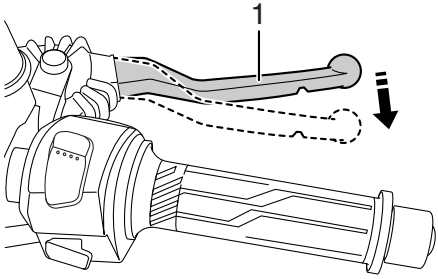
EAUM1133

Start switch "🏍"

Push this switch while applying the front or rear brake to crank the engine with the starter. See page 6-2 for starting instructions prior to starting the engine.

EAU12902

Front brake lever

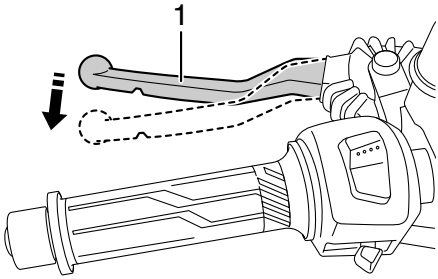


1. Front brake lever

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.

EAU12952

Rear brake lever

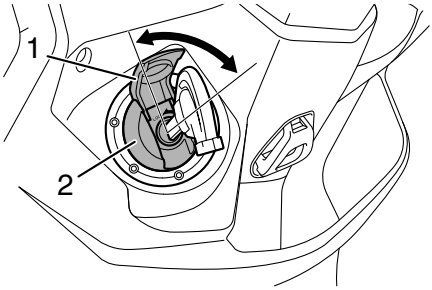


1. Rear brake lever

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.

EAU13076

Fuel tank cap



1. Fuel tank cap lock cover
2. Fuel tank cap

To open the fuel tank cap

Open the fuel tank cap lock cover, insert the key into the lock, and then turn it 1/4 turn clockwise. The lock will be released and the fuel tank cap can be opened.

To close the fuel tank cap

With the key still inserted in the lock, push down the fuel tank cap. Turn the key 1/4 turn counterclockwise, remove it, and then close the lock cover.

TIP

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

EWA11092

⚠ WARNING

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

EAU13222

Fuel

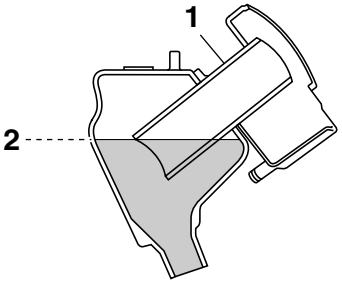
Make sure there is sufficient gasoline in the tank.

EWA10882

⚠ WARNING

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

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



1. Fuel tank filler tube
2. Maximum fuel level

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

EWA15152

⚠ WARNING

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

EAU36086

Recommended fuel
Unleaded gasoline only
Fuel tank capacity:
7.4 L (2.0 US gal, 1.6 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 regular unleaded gasoline with a pump octane number [(R+M)/2] of 86 or higher, or a research octane number of 91 or higher. If knocking (or pinging) occurs, use a gasoline of a different brand or premium unleaded fuel. Use of unleaded fuel

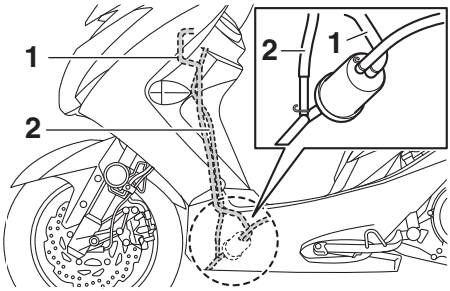
will extend spark plug life and reduce maintenance costs.

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.

EAU86240

Fuel tank breather hose and overflow hose



1. Fuel tank breather hose
2. Fuel tank overflow hose

The breather hose prevents a vacuum condition from forming within the fuel tank.

The overflow hose drains excess gasoline and directs it safely away from the vehicle.

Before operating the vehicle:

- Check each hose connection.
- Check each hose for cracks or damage, and replace if necessary.
- Make sure that the end of each hose is not blocked, and clean if necessary.
- Make sure that each hose is positioned as shown.

EAU13435

Catalytic converter

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

EWA10863

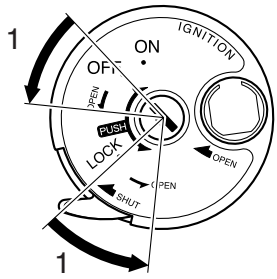
WARNING

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

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

EAUT1504

Seat



1. Turn.

To open the seat

1. Place the scooter on the centerstand.
2. Insert the key into the main switch, and then turn it counterclockwise to the first “OPEN” position. If the main switch is in the “LOCK” position, turn the key counterclockwise to the second “OPEN” position.

TIP

Do not push inward when turning the key from “OFF” to “OPEN” or from “LOCK” to “OPEN”.

3. Fold the seat up.

To close the seat

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

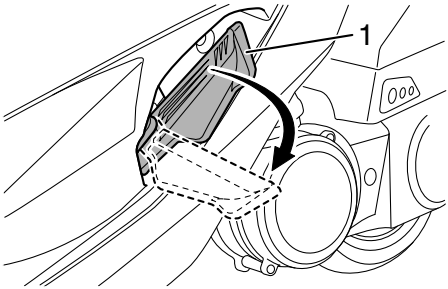
TIP

Make sure that the seat is properly secured before riding.

EAUT4170

Passenger footrest

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

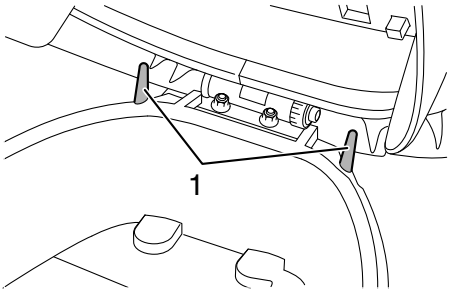


1. Passenger footrest

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

EAU14302

Helmet holder



1. Helmet holder

The helmet holder is located under the seat.

To secure a helmet to the helmet holder

1. Open the seat. (See page 4-12.)
2. Attach the helmet to the helmet holder, and then securely close the seat. **WARNING! Never ride with a helmet attached to the helmet holder, since the helmet may hit objects, causing loss of control and possibly an accident.**[EWA10162]

To release the helmet from the helmet holder

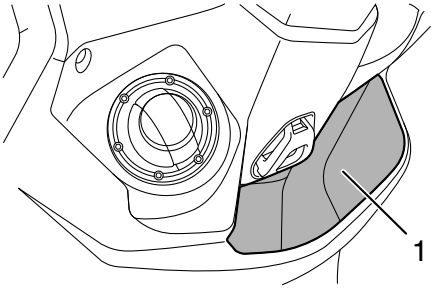
Open the seat, remove the helmet from the helmet holder, and then close the seat.

EAU57081

Storage compartments

Front storage compartment

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



1. Front storage compartment

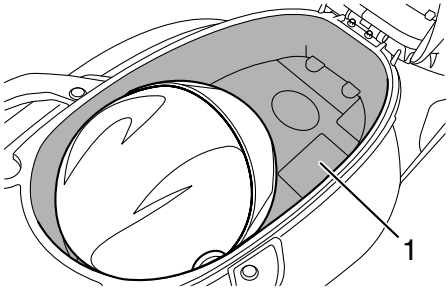
EWA17250

WARNING

- **Do not exceed the load limit of 1.5 kg (3.3 lb) for the front storage compartment.**
- **Do not place anything in the front storage compartment that will interfere with your operating the vehicle.**

Rear storage compartment

The rear storage compartment is located under the seat. Use this compartment for large items. (See page 4-12.)



1. Rear storage compartment

EWAT1052

WARNING

- **Do not exceed the load limit of 5 kg (11 lb) for the rear storage compartment.**
- **Do not exceed the maximum load of 160 kg (353 lb) for the vehicle.**

ECA21150

NOTICE

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

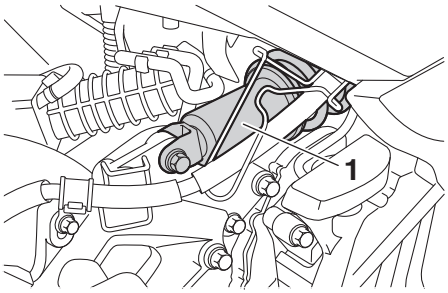
- **Since the storage compartment accumulates heat when exposed to the sun and/or the engine heat, do not store anything susceptible to heat, consumables or flammable items inside it.**
- **To avoid humidity from spreading through the storage compartment, wrap wet articles in a plastic bag before storing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

TIP

Do not leave your vehicle unattended with the seat open.

EAU46023

Shock absorber assembly



1. Shock absorber assembly

EWA10222

⚠ WARNING

This shock absorber assembly contains highly pressurized nitrogen gas. Read and understand the following information before handling the shock absorber assembly.

- **Do not tamper with or attempt to open the cylinder assembly.**
- **Do not subject the shock absorber assembly to an open flame or other high heat source. This may cause the unit to explode due to excessive gas pressure.**
- **Do not deform or damage the cylinder in any way. Cylinder damage will result in poor damping performance.**
- **Do not dispose of a damaged or worn-out shock absorber assembly yourself. Take the shock absorber assembly to a Yamaha dealer for any service.**

EAU61380

Luggage hook

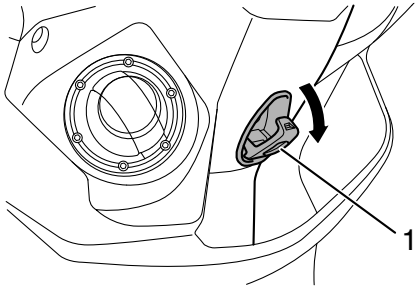
To use the luggage hook, pull it out as shown.

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

EWAT1032

⚠ WARNING

- **Do not exceed the load limit of 3 kg (7 lb) for the luggage hook.**
- **Do not exceed the maximum load of 160 kg (353 lb) for the vehicle.**

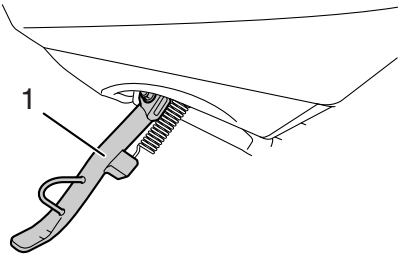


1. Luggage holder

4

EAU15306

Sidestand



1. Sidestand

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

TIP

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

EWA10242

⚠ WARNING

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

EAU66751

Ignition circuit cut-off system

This system prevents engine starts unless the sidestand is up. Also, it will stop the running engine should the sidestand be lowered.

Periodically check the system via the following procedure.

TIP

- This check is most reliable if performed with a warmed-up engine.
- See pages 4-1 and 4-7 for switch operation information.

With the engine turned off:
1. Place vehicle on centerstand.
2. Move the sidestand down.
3. Set engine stop switch to run position.
4. Turn main switch to on position.
5. Apply the front or rear brake.
6. Push the start switch.

Does the engine start?

NO

YES → The sidestand switch may not be working. **The scooter should not be ridden** until checked by a Yamaha dealer.

With the engine still off:
7. Move the sidestand up.
8. Apply the front or rear brake.
9. Push the start switch.

Does the engine start?

YES

NO → The brake switch may not be working. **The scooter should not be ridden** until checked by a Yamaha dealer.

With the engine still running:
10. Move the sidestand down.

Does the engine stall?

YES

NO → The sidestand switch may not be working. **The scooter should not be ridden** until checked by a Yamaha dealer.

The system is OK. **The scooter can be ridden.**

⚠ WARNING

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

For your safety – pre-operation checks

EAU63441

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

EWA11152

⚠ WARNING

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

Before using this vehicle, check the following points:

ITEM	CHECKS	PAGE
Fuel	• Check fuel level in fuel tank. • Refuel if necessary. • Check fuel line for leakage. • Check fuel tank breather hose and overflow hose for obstructions, cracks or damage, and check hose connections.	4-10, 4-11
Engine oil	• Check oil level in engine. • If necessary, add recommended oil to specified level. • Check vehicle for oil leakage.	7-10
Final transmission oil	• Check vehicle for oil leakage.	7-13
Coolant	• Check coolant level in reservoir. • If necessary, add recommended coolant to specified level. • Check cooling system for leakage.	7-14
Front brake	• 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.	7-21, 7-22
Rear brake	• 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.	7-21, 7-22
Throttle grip	• 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.	7-17, 7-24

ITEM	CHECKS	PAGE
Control cables	• Make sure that operation is smooth. • Lubricate if necessary.	7-24
Wheels and tires	• Check for damage. • Check tire condition and tread depth. • Check air pressure. • Correct if necessary.	7-18, 7-20
Brake levers	• Make sure that operation is smooth. • Lubricate lever pivoting points if necessary.	7-25
Centerstand, sidestand	• Make sure that operation is smooth. • Lubricate pivots if necessary.	7-25
Chassis fasteners	• Make sure that all nuts, bolts and screws are properly tightened. • Tighten if necessary.	—
Instruments, lights, signals and switches	• Check operation. • Correct if necessary.	—
Sidestand switch	• Check operation of ignition circuit cut-off system. • If system is not working correctly, have Yamaha dealer check vehicle.	4-16

EAU15952

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

EWA10272

⚠ WARNING

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

EAU16842

Engine break-in

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

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

EAUS1811

0–1000 km (0–600 mi)

Avoid prolonged operation above 4800 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 5700 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.**

EAU86730

Starting the engine

The ignition circuit cut-off system will enable starting when the sidestand is be up.

To start the engine

1. Turn the main switch on and set the engine stop switch to the run position.
2. Confirm the indicator and warning light(s) come on for a few seconds, and the go off. (See page 4-3.)

TIP

Do not start the engine if the engine trouble warning light remains on.

ECA26710

NOTICE

Do not continue to operate the vehicle if a warning light remains on. Have a Yamaha dealer check the vehicle.

3. Close the throttle completely.
4. While applying the front or rear brake, push the start switch.
5. Release the start switch when the engine starts, or after 5 seconds. Wait 10 seconds before pressing the switch again to allow battery voltage to restore.

ECA11043

NOTICE

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

EAU45312

TIP

This model is equipped with a lean angle sensor to stop the engine in case of a turnover. In this case, turn the main switch off and then on. Failing to do so will prevent the engine from starting even though the engine will crank when pushing the start switch.

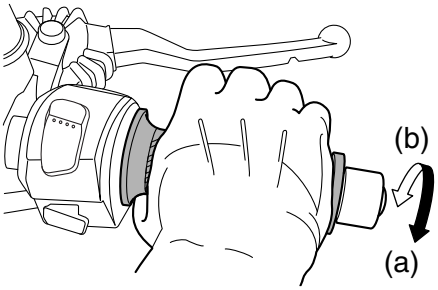
EAU45093

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 centerstand.
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.

EAU16782

Acceleration and deceleration



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).

EAU60650

Braking

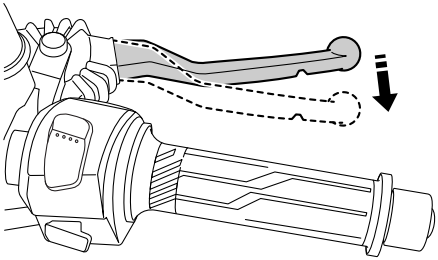
EWA17790

⚠ WARNING

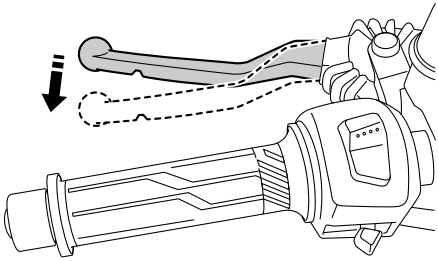
- **Avoid braking hard or suddenly (especially when leaning over to one side), otherwise the vehicle may skid or overturn.**
- **Railroad crossings, streetcar rails, iron plates on road construction sites, and manhole covers become extremely slippery when wet. Therefore, slow down when approaching such 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



EAU16821

Tips for reducing fuel consumption

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

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

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.**

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.

EWA10322

⚠ WARNING

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

EWA15123

⚠ WARNING

Turn off the engine when performing maintenance unless otherwise specified.

- **A running engine has moving parts that can catch on body parts or clothing and electrical parts that can cause shocks or fires.**
- **Running the engine while servicing can lead to eye injury, burns, fire, or carbon monoxide poisoning – possibly leading to death. See page 2-2 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

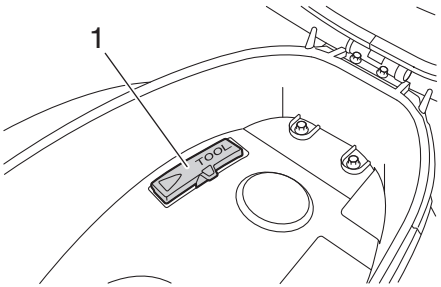
Brake discs, calipers, drums, and linings can become very hot during use. To avoid possible burns, let brake components cool before touching them.

EAU17303

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.

EAU85230

Tool kit



1. Tool kit

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

TIP

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

EAU48451

TIP

- From 12000 mi (19000 km) or 36 months, repeat the maintenance intervals starting from 4000 mi (7000 km) or 12 months.
- Items marked with an asterisk require special tools, data and technical skills, have a Yamaha dealer perform the service.

EAU69071

Periodic maintenance chart for the emission control system

No.		ITEM	ROUTINE	INITIAL	ODOMETER READINGS				
			× 1000 mi	0.6	2	4	6	8	10
			× 1000 km	1	4	7	10	13	16
			month	1	6	12	18	24	30
1	*	**Fuel line**	• Check fuel and vacuum hoses for cracks or damage. • Replace if necessary.		√	√	√	√	√
2		**Spark plug**	• Check condition. • Adjust gap and clean. • Replace at 7000 mi (11000 km) or 12 months and thereafter every 6000 mi (10000 km) or 12 months.		√	Replace.	√	Replace.	√
3	*	**Valve clearance**	• Check and adjust valve clearance when engine is cold.	√	√	√	√	√	√
4	*	**Crankcase breather system**	• Check breather hose for cracks or damage. • Replace if necessary.		√	√	√	√	√
5	*	**Fuel injection**	• Check engine idle speed.	√	√	√	√	√	√
6	*	**Exhaust system**	• Check for leakage. • Tighten if necessary. • Replace gasket(s) if necessary.	√	√	√	√	√	√

7

EAU69122

General maintenance and lubrication chart

No.		ITEM	ROUTINE	INITIAL	ODOMETER READINGS				
			× 1000 mi	0.6	2	4	6	8	10
			× 1000 km	1	4	7	10	13	16
			month	1	6	12	18	24	30
1		**Air filter element**	• Replace.	Every 12500 mi (20000 km)					
2		**Air filter check hose**	• Clean.	√	√	√	√	√	√
3		**V-belt case air filter element**	• Clean.	√	√	√	√	√	√
			• Replace.	Every 12500 mi (20000 km)					
4	*	**Front brake**	• Check operation, fluid level, and for fluid leakage. • Replace brake pads if necessary.	√	√	√	√	√	√
5	*	**Rear brake**	• Check operation, fluid level, and for fluid leakage. • Replace brake pads if necessary.	√	√	√	√	√	√
6	*	**Brake hoses**	• Check for cracks or damage. • Check for correct routing and clamping.		√	√	√	√	√
			• Replace.	Every 4 years					
7	*	**Brake fluid**	• Change.	Every 2 years					
8	*	**Wheels**	• Check runout and for damage. • Replace if necessary.		√	√	√	√	√
9	*	**Tires**	• Check tread depth and for damage. • Replace if necessary. • Check air pressure. • Correct if necessary.		√	√	√	√	√
10	*	**Wheel bearings**	• Check bearings for smooth operation. • Replace if necessary.		√	√	√	√	√
11	*	**Steering bearings**	• Check bearing assemblies for looseness.	√	√	√	√	√	√
			• Moderately repack with lithium-soap-based grease.	Every 30000 mi (50000 km)					
12	*	**Chassis fasteners**	• Check all chassis fitting and fasteners. • Correct if necessary.		√	√	√	√	√
13		**Front brake lever pivot shaft**	• Apply silicone grease lightly.		√	√	√	√	√

No.		ITEM	ROUTINE	INITIAL	ODOMETER READINGS				
			× 1000 mi	0.6	2	4	6	8	10
			× 1000 km	1	4	7	10	13	16
			month	1	6	12	18	24	30
14		Rear brake lever pivot shaft	• Apply silicone grease lightly.		√	√	√	√	√
15		Centerstand and sidestand pivots	• Check operation. • Apply lithium-soap-based grease lightly.		√	√	√	√	√
16	*	Sidestand switch	• Check operation and replace if necessary.	√	√	√	√	√	√
17	*	Front fork	• Check operation and for oil leakage. • Replace if necessary.		√	√	√	√	√
18	*	Shock absorber assembly	• Check operation and for oil leakage. • Replace if necessary.		√	√	√	√	√
19		Engine oil	• Change. (See pages 4-6 and 7-10.)	√	When the oil change indicator flashes (after the initial 600 mi [1000 km] and every 1800 mi (3000 km) thereafter)				
			• Check oil level and vehicle for oil leakage.	√	Every 1800 mi (3000 km)				
20		Engine oil strainer	• Clean.	√	Every 1800 mi (3000 km)				
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.	Every 12500 mi (20000 km)					
24	*	Front and rear brake switches	• Check operation.	√	√	√	√	√	√
25	*	Control cables	• Apply Yamaha cable lubricant or other suitable cable lubricant thoroughly.	√	√	√	√	√	√
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.	√	√	√	√	√	√

EAUT4341

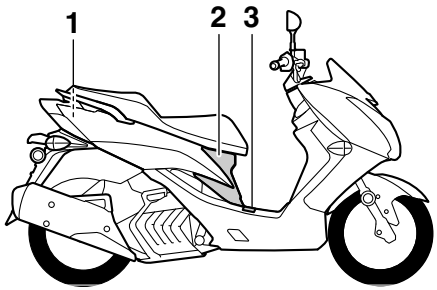
TIP

- Air filters
  - This model uses disposable-type oil-coated paper air filter element. Cleaning it with compressed air will damage it. Replace only.
  - Service the air filter elements more frequently when riding in unusually wet or dusty areas.
- Hydraulic brake service
  - Regularly check the brake fluid levels and fill the reservoirs as required.
  - Replace the internal components of the brake master cylinders and calipers, and change the brake fluid every two years.
  - Replace the brake hoses every four years or sooner if cracked or damaged.

EAU18773

Removing and installing panels

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



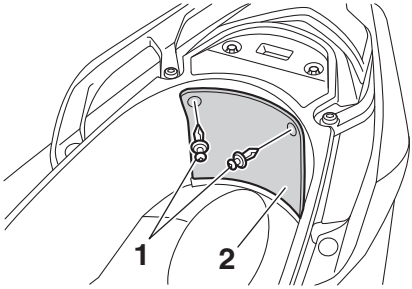
1. Panel A
2. Panel B
3. Panel C

EAUT4240

Panel A

To remove the panel

1. Open the seat. (See page 4-12.)
2. Remove the quick fasteners by loosening their screws, and then take the panel off.



1. Quick fastener
2. Panel A

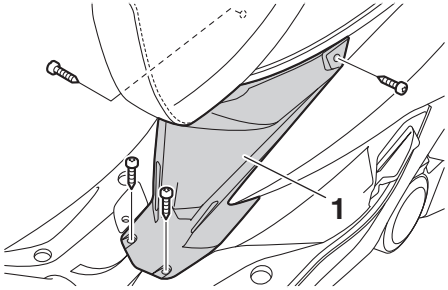
To install the panel

Place the panel in the original position, and then install the quick fasteners by pushing them in place and tightening their screws.

Panel B

To remove the panel

1. Open the seat. (See page 4-12.)
2. Remove the screws, and then take the panel off.



1. Panel B

To install the panel

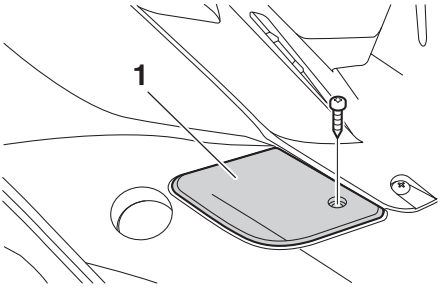
Place the panel in the original position, and then install the screws.

Panel C

To remove the panel

Remove the screw, and then pull the panel off as shown.

7



1. Panel C

To install the panel

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

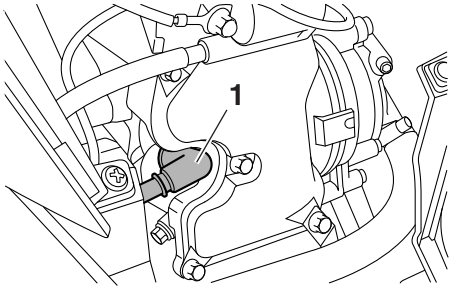
EAUT1838

Checking the spark plug

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

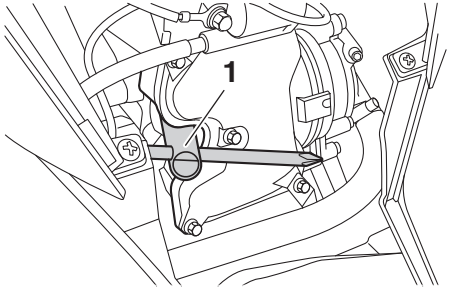
To remove the spark plug

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



1. Spark plug cap

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



1. Spark plug wrench

To check the spark plug

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

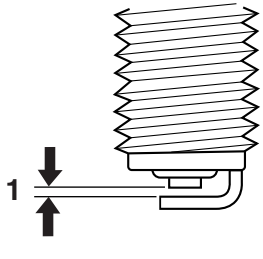
TIP

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

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

Specified spark plug:
NGK / CPR8EA

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



ZAUM00**

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:
12.5 Nm (1.25 m·kgf, 9.0 ft·lbf)

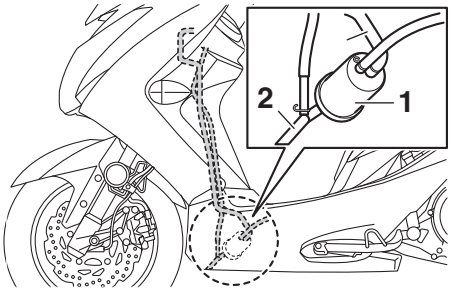
TIP

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. Install the panel.

EAU82180

Canister



1. Canister
2. Canister breather hose

This model is equipped with a canister to prevent the discharging of fuel vapor into the atmosphere. Before operating this vehicle, make sure to check the following:

- each hose connection, tighten if loose.
- each hose and the canister body for damage, replace if damaged.
- the canister breather hose is not blocked off, clean if necessary.

EAUT4163

Engine oil and oil strainer

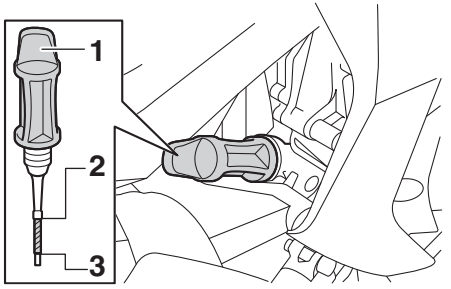
The engine oil level should be checked before each ride. In addition, the oil must be changed and the oil strainer cleaned at the intervals specified in the periodic maintenance and lubrication chart.

To check the engine oil level

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

TIP

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



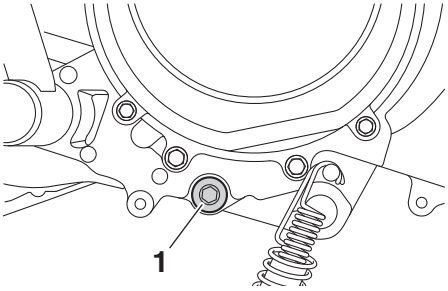
1. Engine oil filler cap
2. Minimum level mark
3. Maximum level mark

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.

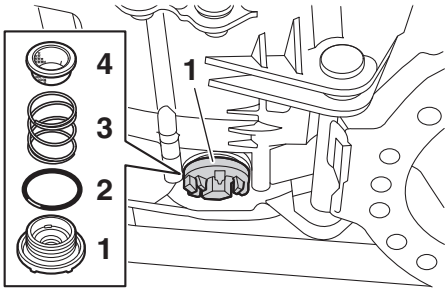
5. Insert the dipstick into the oil filler hole, and then tighten the oil filler cap.

To change the engine oil and clean the oil strainer

1. Start the engine, warm it up for several minutes, and then turn it off.
2. Place an oil pan under the engine to collect the used oil.
3. Remove the engine oil filler cap and the engine oil drain bolts A and B to drain the oil from the crankcase. ***NOTICE:*** **When removing the engine oil drain bolt B, the O-ring, compression spring, and oil strainer will fall out. Take care not to lose these parts.**[ECAT1022]



1. Engine oil drain bolt A



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

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

TIP

Make sure that the O-ring is properly seated.

7. Install engine oil drain bolt A, and then tighten both drain bolts to their specified torques.

Tightening torque:
Engine oil drain bolt A:
20 Nm (2.0 m·kgf, 14.5 ft·lbf)
Engine oil drain bolt B:
32 Nm (3.2 m·kgf, 23.1 ft·lbf)

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

Recommended engine oil:
See page 9-1.
Oil change quantity:
0.95 L (1.00 US qt, 0.84 Imp.qt)

ECA24060

NOTICE

Make sure that no foreign material enters the crankcase.

9. 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.
10. Turn the engine off, and then check the oil level and correct it if necessary.
11. Reset the oil change indicator and oil change tripmeter. (See page 4-5.)

EAU85450

Why Yamalube

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

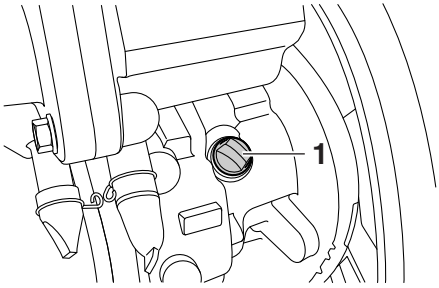
YAMALUBE®

EAU20067

Final transmission oil

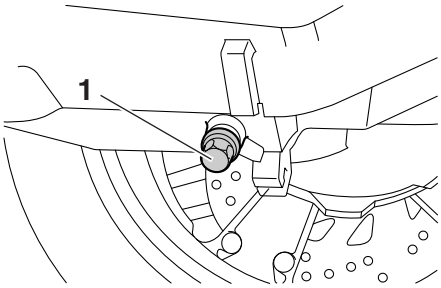
The final transmission case must be checked for oil leakage before each ride. If any leakage is found, have a Yamaha dealer check and repair the scooter. In addition, the final transmission oil must be changed as follows at the intervals specified in the periodic maintenance and lubrication chart.

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



1. Final transmission oil filler cap

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



1. Final transmission oil drain bolt

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

Tightening torque:
Final transmission oil drain bolt:
20 Nm (2.0 m·kgf, 14 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 9-1.
Oil quantity:
0.20 L (0.21 US qt, 0.18 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.

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.

EAUT1527

To check the coolant level

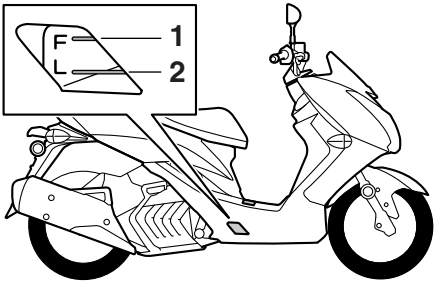
The coolant level should be checked as follows before each ride. In addition, the coolant must be changed at the intervals specified in the periodic maintenance and lubrication chart.

1. Place the vehicle on the centerstand.

TIP

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

2. Check the coolant level in the coolant reservoir.

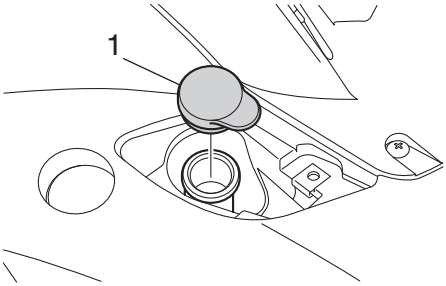


1. Maximum level mark
2. Minimum level mark

TIP

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

3. If the coolant is at or below the minimum level mark, remove panel C and the reservoir cap. (See page 7-7.) **WARNING! Remove only the coolant reservoir cap. Never attempt to remove the radiator cap when the engine is hot.**[EWA15162]



1. Coolant reservoir cap

4. Add coolant or distilled water to raise the coolant to the maximum level mark, and install the coolant reservoir cap and the panel. ***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 antifreeze content of the coolant as soon as possible, otherwise the effectiveness of the coolant will be reduced.**[ECA10473]

Coolant reservoir capacity:
0.25 L (0.26 US qt, 0.22 Imp.qt)

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]

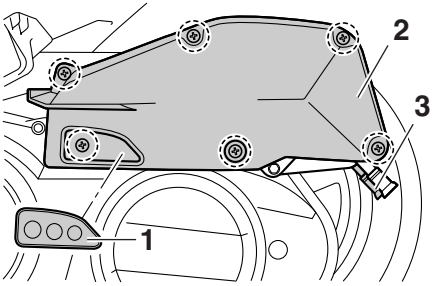
EAUT4180

Air filter and V-belt case air filter elements

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

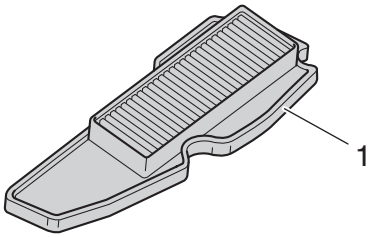
Replacing the air filter element

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



1. Screw cover
2. Air filter case cover
3. Air filter check hose

3. Pull the air filter element out.



1. Air filter element

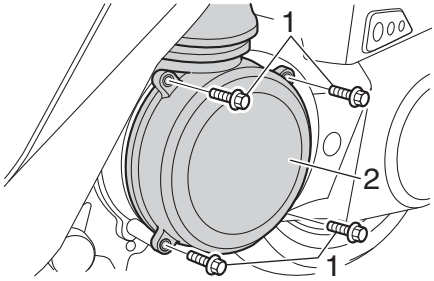
4. Insert a new air filter element into the air filter case. ***NOTICE:*** **Make sure that the air filter element is properly seated in the air filter case. The engine should never be operated without the air filter element installed, otherwise the piston(s) and/or cylinder(s) may become excessively worn.**[ECA10482]
5. Install the air filter case cover by installing the screws and the screw cover.

Cleaning the air filter check hose

1. Check the hose on the rear side of the air filter case for accumulated dirt or water.
2. If dirt or water is visible, remove the hose, clean it, and then install it.

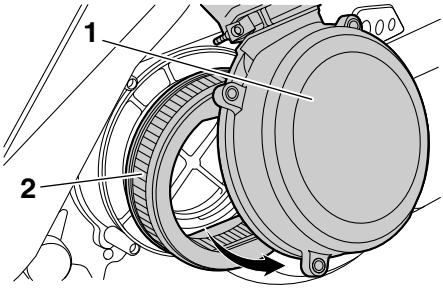
Cleaning the V-belt case air filter element

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



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

2. Pull the air filter element out, and then clean it with compressed air. ***NOTICE:*** **To avoid damaging the air filter element, handle it gently and carefully, and do not twist it.**[ECA10522]



1. V-belt case air filter element

3. Insert the element into the air filter case.
4. Install the V-belt air filter case cover by installing the bolts.

EAU44735

Checking the engine idling speed

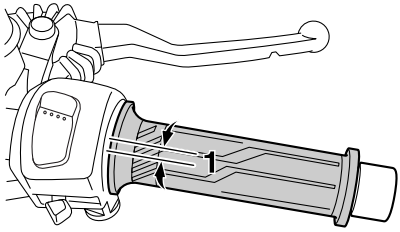
Check the engine idling speed and, if necessary, have it corrected by a Yamaha dealer.

Engine idling speed:
1600–1800 r/min

EAU21386

Checking the throttle grip free play

Measure the throttle grip free play as shown.



1. Throttle grip free play

Throttle grip free play:
3.0–5.0 mm (0.12–0.20 in)

Periodically check the throttle grip free play and, if necessary, have a Yamaha dealer adjust it.

EAU21403

Valve clearance

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

TIP

This service must be performed when the engine is cold.

EAU61783

Tires

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

Tire air pressure

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

EWA10504

⚠ WARNING

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

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

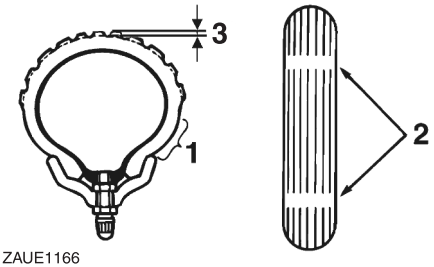
Cold tire air pressure:
Up to 90 kg (198 lb) load:
Front:
200 kPa (2.00 kgf/cm^2, 29 psi)
Rear:
200 kPa (2.00 kgf/cm^2, 29 psi)
90 kg (198 lb) to maximum load:
Front:
200 kPa (2.00 kgf/cm^2, 29 psi)
Rear:
225 kPa (2.25 kgf/cm^2, 33 psi)
Maximum load:
Vehicle:
160 kg (353 lb)
The vehicle's maximum load is the combined weight of the rider, passenger, cargo, and any accessories.

EWA10512

⚠ WARNING

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

Tire inspection



ZAUE1166

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

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

Minimum tire tread depth (front and rear):
1.0 mm (0.04 in)

EWA10523

⚠ WARNING

- **It is dangerous to ride with a worn-out tire. When a tire tread begins to show crosswise lines, have a Yamaha dealer replace the tire immediately. Brakes, tires and related wheel parts replacement should also be left to a Yamaha dealer.**
- **Ride at moderate speeds after changing a tire since the tire surface must first be "broken in" for it to develop its optimal characteristics.**

Tire information

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

EWA10462

⚠ WARNING

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

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

7

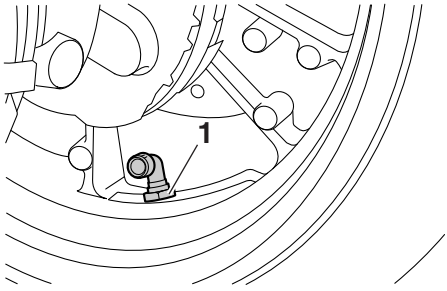
Front tire:
Size:
120 / 70 - 13 M/C 53P
Manufacturer/model:
KENDA / K703F
Rear tire:
Size:
130 / 70 - 13 M/C 57P
Manufacturer/model:
KENDA / K703

EAUT4100

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.
- After repairing or replacing the rear tire, tighten the valve stem nut to the specified torque.



1. Valve stem nut

Tightening torque:
Valve stem nut:
2.0 Nm (0.2 m·kgf, 1.4 ft·lbf)

EAU50861

Checking the front and rear brake lever free play

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

EWA14212

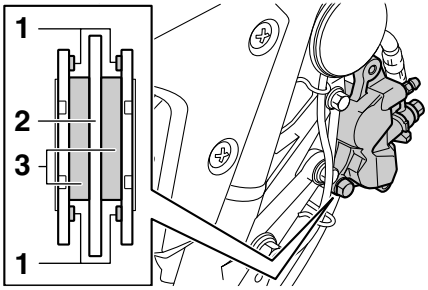
⚠ WARNING

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.

EAU22312

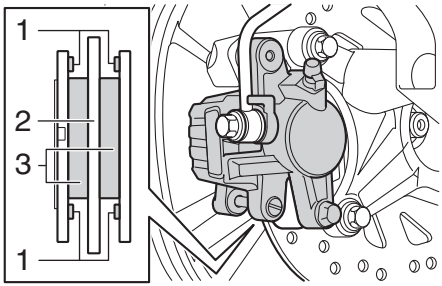
Checking the front and rear brake pads

Front brake



1. Brake pad wear indicator
2. Brake disc
3. Brake pad

Rear brake



1. Brake pad wear indicator
2. Brake disc
3. Brake pad

The front and rear brake pads must be checked for wear at the intervals specified in the periodic maintenance and lubrication chart. Each brake pad is provided with a wear indicator, which allows you to check the brake pad wear without having to disassemble the brake. To check the brake pad wear, check the position of the wear indicator while applying the brake. If a brake pad has worn to the point that the wear indicator almost touches the brake disc,

have a Yamaha dealer replace the brake pads as a set.

EAU22583

Checking the brake fluid level

Before riding, check that the brake fluid is above the minimum level mark. Check the brake fluid level with the reservoir in an upright position. Replenish the brake fluid if necessary.

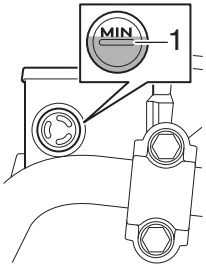
Specified brake fluid:
DOT 4

ECA17641

NOTICE

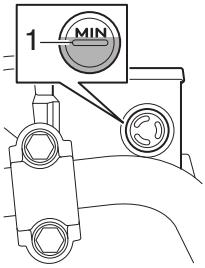
Brake fluid may damage painted surfaces or plastic parts. Always clean up spilled fluid immediately.

Front brake



1. Minimum level mark

Rear brake



1. Minimum level mark

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 or brake system leakage; therefore, be sure to check the brake pads for wear and the brake system for leakage.
- If the brake fluid level goes down suddenly, have a Yamaha dealer check the cause before further riding.

EWA15991

⚠ 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 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.**

EAU22734

Changing the brake fluid

Have a Yamaha dealer change the brake fluid every 2 years. In addition, have the seals of the master cylinders and brake calipers, as well as the brake hoses replaced at the intervals listed below or sooner if they are damaged or leaking.

- Brake seals: every 2 years
- Brake hoses: every 4 years

EAU23098

Checking and lubricating the cables

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

Recommended lubricant:
Yamaha cable lubricant or other suitable cable lubricant

EAU23115

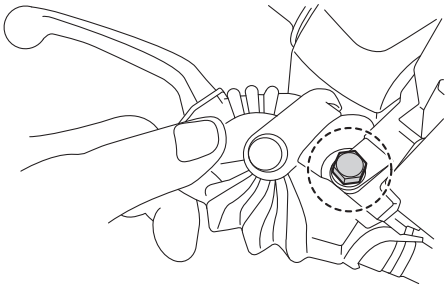
Checking and lubricating the throttle grip and cable

The operation of the throttle grip should be checked before each ride. In addition, the cable should be lubricated by a Yamaha dealer at the intervals specified in the periodic maintenance chart.
The throttle cable is equipped with a rubber cover. Make sure that the cover is securely installed. Even though the cover is installed correctly, it does not completely protect the cable from water entry. Therefore, use care not to pour water directly onto the cover or cable when washing the vehicle. If the cable or cover becomes dirty, wipe clean with a moist cloth.

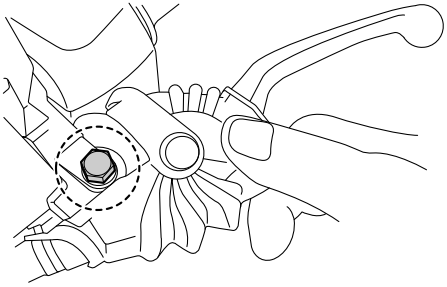
EAU23173

Lubricating the front and rear brake levers

Front brake lever



Rear brake lever

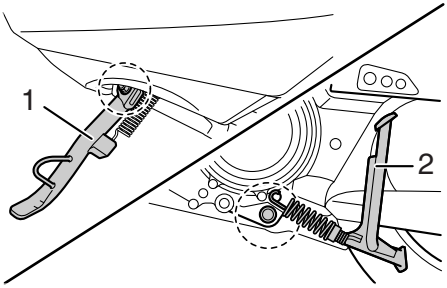


The pivoting points of the front and rear brake levers must be lubricated at the intervals specified in the periodic maintenance and lubrication chart.

Recommended lubricant:
Silicone grease

EAU23215

Checking and lubricating the centerstand and sidestand



1. Sidestand
2. Centerstand

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

EWA10742

⚠ WARNING

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

Recommended lubricant:
Lithium-soap-based grease

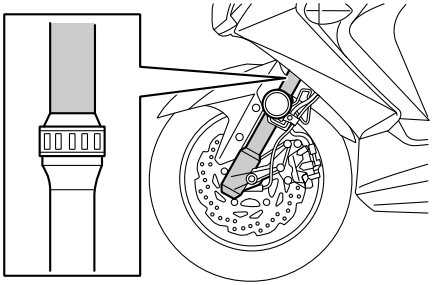
EAU23273

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.

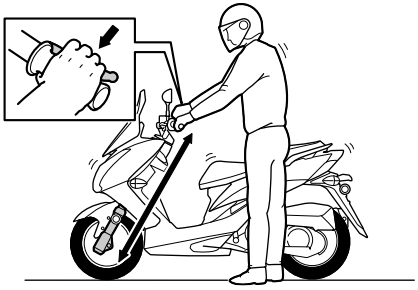
To check the condition

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.



ECA10591

NOTICE

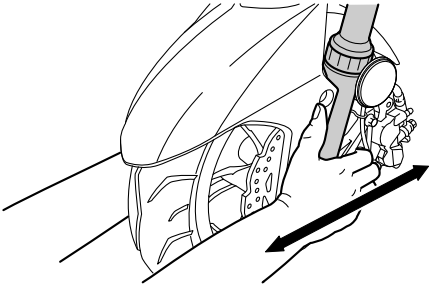
If any damage is found or the front fork does not operate smoothly, have a Yamaha dealer check or repair it.

EAU45512

Checking the steering

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

1. Place the vehicle on the centerstand. **WARNING! To avoid injury, securely support the vehicle so there is no danger of it falling over.**[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.



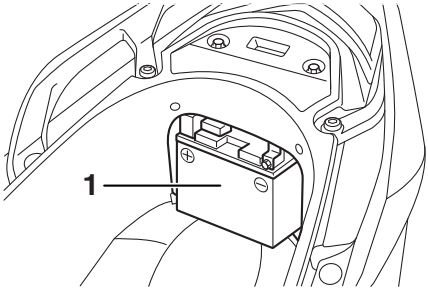
EAU23292

Checking the wheel bearings

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

Battery

EAUT4120



1. Battery

The battery is located behind panel A. (See page 7-7.)
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.**[ECA16303]
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 install-**

ing the battery, be sure the key is turned to "OFF", then connect the positive lead before connecting the negative lead.[ECA16841]

4. After installing the battery, make sure that the battery leads are properly connected to the battery terminals.
5. Turn the key from "ON" to "OFF" three times in three-second intervals to initialize the idle speed control system.

ECA16531

NOTICE

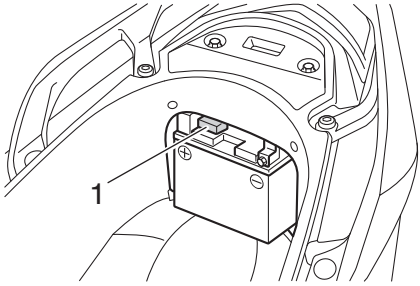
Always keep the battery charged. Storing a discharged battery can cause permanent battery damage.

EAUT4222

Replacing the fuses

Main fuse

The main fuse is located behind panel A. (See page 7-7.)



1. Main fuse

If the main fuse is blown, replace it as follows.

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

Specified fuses:
Main fuse:
20.0 A

3. Turn the key to "ON" to check if the vehicle operates normally. If the main fuse immediately blows again, have a Yamaha dealer check the electrical system.
4. After removing and installing the main fuse, turn the main switch from "ON" to "OFF" three times in three-second intervals to initialize the idle speed control system.

Fuse box

The fuse box, which contains the fuses for the ignition, turn signal, and lighting systems, as well as the back-up fuse for the multi-function meter unit, is located underneath the windshield behind the front cowling. Have a Yamaha dealer check and replace these fuses if necessary.

Specified fuses:
Lighting fuse:
15.0 A
Signaling system fuse:
10.0 A
Signaling system fuse 2:
7.5 A
Ignition fuse:
7.5 A
Backup fuse:
7.5 A

EAU24051

Replacing the headlight bulb

Have a Yamaha dealer replace the headlight bulb and, if necessary, adjust the headlight beam.

EAU54502

Auxiliary lights

This model is equipped with LED-type auxiliary lights.
If an auxiliary light does not come on, have a Yamaha dealer check it.

EAU24182

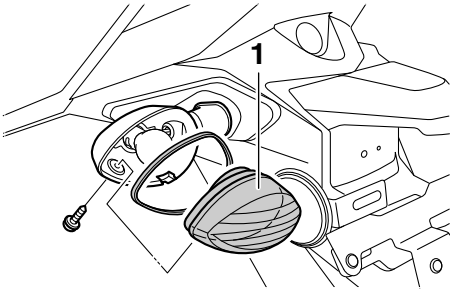
Tail/brake light

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.

EAU24205

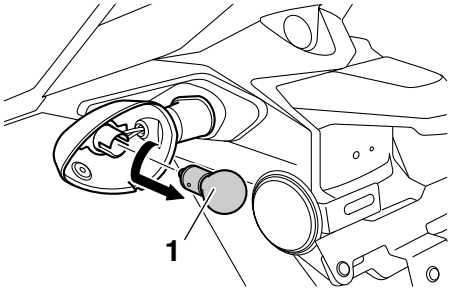
Replacing a turn signal light bulb

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



1. Turn signal light lens

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



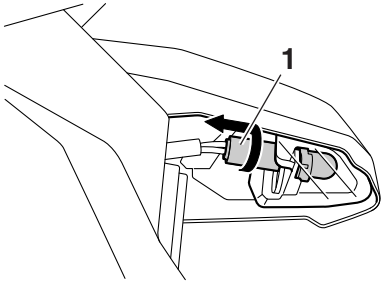
1. Turn signal light bulb

3. Insert a new bulb into the socket, push it in, and then turn it clockwise until it stops.
4. Install the lens by installing the screw. ***NOTICE:*** **Do not overtighten the screw, otherwise the lens may break.**[ECA11192]

EAUT4110

Replacing a license plate light bulb

1. Remove the license plate light bulb socket (together with the bulb) by turning it counterclockwise, and then 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, and then turn it clockwise until it stops.

EAU25883

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.

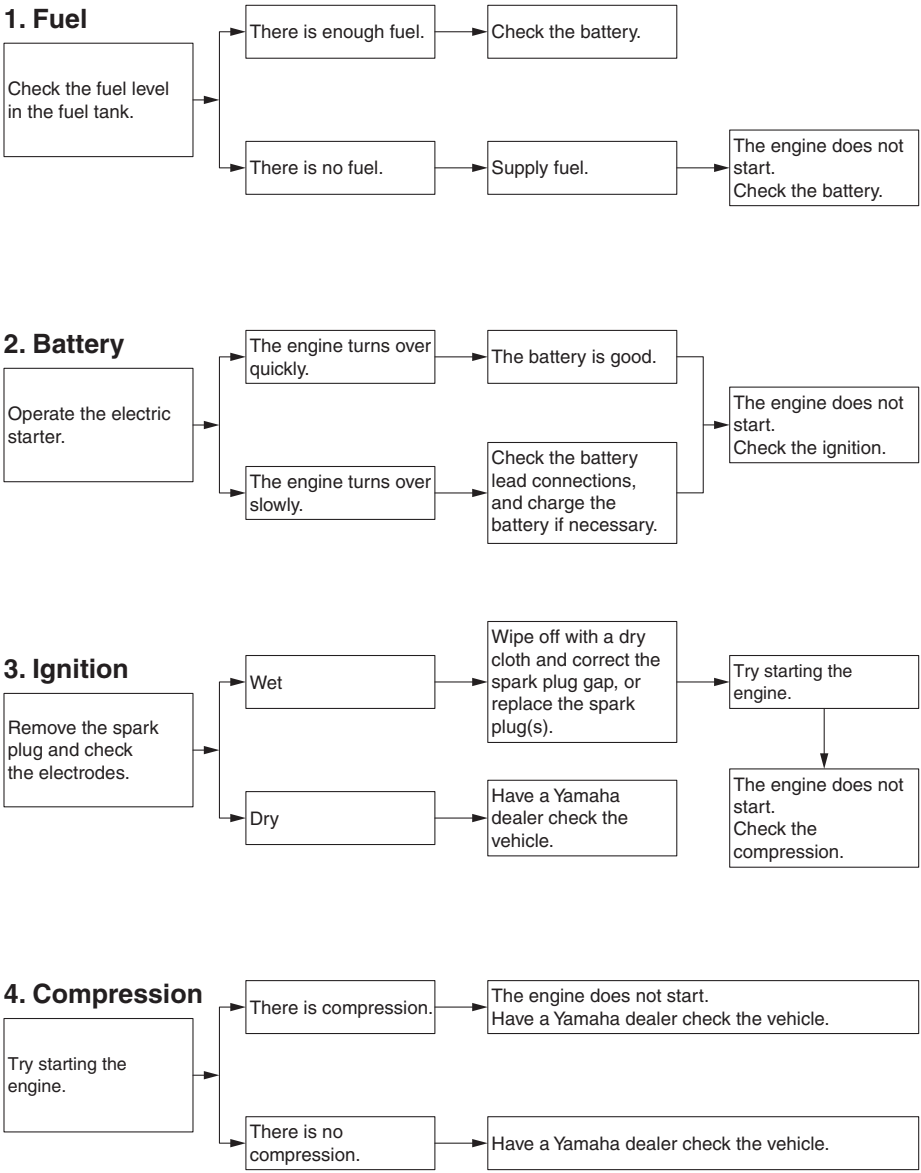
EWA15142

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

EAU86390

Troubleshooting chart



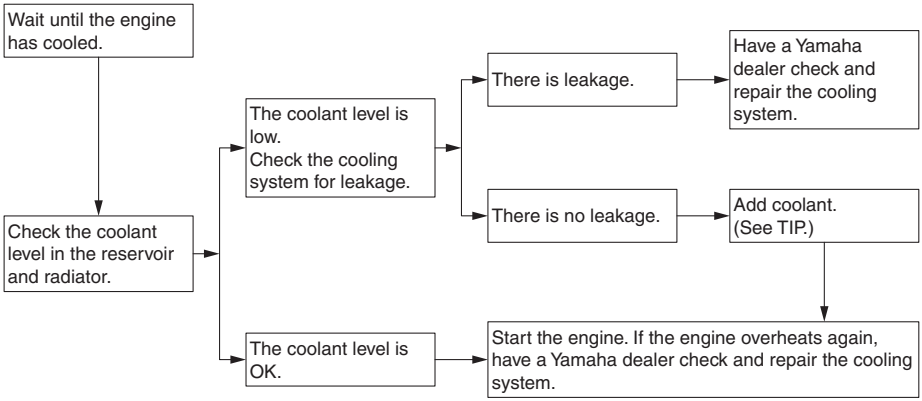
EAU86430

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.

EAU37834

Matte color caution

ECA15193

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.

EAU83911

Care

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

TIP

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

ECA26280

NOTICE

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

- **high-pressure washers or steam-jet cleaners. Excessive water pressure may cause water seepage and deterioration of wheel bearings, brakes, transmission seals and electrical devices. Avoid high-pressure detergent applications such as those available in coin-operated car washers.**

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

Before washing

1. Park the vehicle out of direct sunlight and allow it to cool. This will help avoid water spots.
2. Make sure all caps, covers, electrical couplers and connectors are tightly installed.
3. Cover the muffler end with a plastic bag and a strong rubber band.
4. Pre-soak stubborn stains like insects or bird droppings with a wet towel for a few minutes.
5. Remove road grime and oil stains with a biodegradable degreaser (YAMACLEAN Pro-Wash Spray) and a plastic-bristle brush or sponge. ***NOTICE:*** **Do not use degreasing agent on areas requiring lubrication such as seals, gaskets, and wheel axles. Follow product instructions.**[ECA26290]

Washing

1. Rinse off any degreaser and spray down the vehicle with a garden hose. Use only enough pressure to do the job. Avoid spraying water directly into the muffler, instrument panel, air inlet, or other inner areas such as underseat storage compartments.
2. Wash the vehicle with a quality automotive-type detergent (YAMALUBE Wash & Wax) mixed with cool water and a soft, clean towel or sponge. Use an old toothbrush or plastic-bristle brush for hard-to-reach places. ***NOTICE:*** **Use cold water if the vehicle has been exposed to salt. Warm water will increase salt's corrosive properties.**[ECA26301]
3. For windshield-equipped vehicles: Clean the windshield with a soft towel or sponge dampened with water and a pH neutral detergent. If necessary, use a high-quality windshield cleaner (YAMACLEAN Glass Cleaner) or windshield polish. ***NOTICE:*** **Never use any strong chemicals to clean the windshield. Additionally, some cleaning compounds for plastic may scratch the windshield, so be sure to test all cleaning products before general application.**[ECA26310]
4. Rinse off thoroughly with clean water. Be sure to remove all detergent residues, as they can be harmful to plastic parts.

After washing

1. Dry the vehicle with a chamois or absorbent towel, preferably microfiber terrycloth.

2. For drive chain-equipped models, dry and then lubricate it to prevent rust.
3. Use a chrome polish to shine chrome, aluminum, and stainless steel parts. Often the thermally induced discoloring of stainless steel exhaust systems can be removed through polishing.
4. Apply a corrosion protection spray (YAMALUBE Silicone Protectant & Lubricant) on all metal parts including chrome or nickel-plated surfaces. **WARNING! Do not apply silicone or oil spray to seats, hand grips, rubber foot pegs or tire treads. Otherwise these parts will become slippery, which could cause loss of control. Thoroughly clean the surfaces of these parts before operating the vehicle.**[EWA20650]
5. Treat rubber, vinyl, and unpainted plastic parts with a suitable care product (YAMACLEAN Vinyl Dressing).
6. Touch up minor paint damage caused by stones, etc.
7. Wax all painted surfaces using a non-abrasive wax or use a detail spray for motorcycles (YAMALUBE Spray Polish & Instant Detailer).
8. When finished cleaning, start the engine and let it idle for several minutes to help dry any remaining moisture.
9. If the headlight lens has fogged up, start the engine and turn on the headlight to help remove the moisture.
10. Let the vehicle dry completely before storing or covering it.

ECA26320

NOTICE

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

EWA20660

⚠ WARNING

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

- **Make sure there is no lubricant or wax on the brakes or tires.**
- **If necessary, wash the tires with warm water and a mild detergent.**
- **If necessary, clean the brake discs and pads with brake cleaner or acetone.**
- **Before riding at higher speeds, test the vehicle's braking performance and cornering behavior.**

EAU84141

Storage

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

ECA21170

NOTICE

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

Long term storage

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

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

that all wheels are off the ground. Otherwise, turn the wheels a little once a month in order to prevent the tires from becoming degraded in one spot.

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

TIP

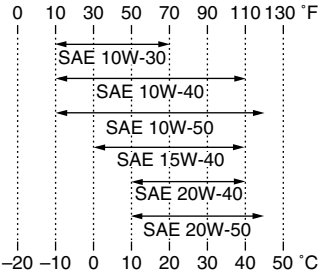
- If the battery will be removed, charge it once a month and store it in a temperate location between 32-90 °F (0-30 °C).
- See page 7-28 for more information on charging and storing the battery.

Dimensions:
Overall length:
2030 mm (79.9 in)
Overall width:
715 mm (28.1 in)
Overall height:
1295 mm (51.0 in)
Seat height:
795 mm (31.3 in)
Wheelbase:
1405 mm (55.3 in)
Ground clearance:
90 mm (3.54 in)
Minimum turning radius:
2.1 m (6.89 ft)

Weight:
Curb weight:
149 kg (328 lb)

Engine:
Combustion cycle:
4-stroke
Cooling system:
Liquid cooled
Valve train:
SOHC
Number of cylinders:
Single cylinder
Displacement:
155 cm^3
Bore × stroke:
58.0 × 58.7 mm (2.28 × 2.31 in)
Starting system:
Electric starter

Engine oil:
Recommended brand:
YAMALUBE®
SAE viscosity grades:
10W-40, 10W-50, 15W-40, 20W-40 or 20W-50



Recommended engine oil grade:
API service SG type or higher, JASO standard MA or MB
Engine oil quantity:
Periodic oil change:
0.95 L (1.00 US qt, 0.84 Imp.qt)

Final transmission oil:
Type:
SAE 10W-30 type SE motor oil
Quantity:
0.20 L (0.21 US qt, 0.18 Imp.qt)

Coolant quantity:
Recommended antifreeze:
YAMAHA GENUINE COOLANT only
Coolant reservoir (up to the maximum level mark):
0.25 L (0.26 US qt, 0.22 Imp.qt)
Radiator (including all routes):
0.56 L (0.59 US qt, 0.49 Imp.qt)

Fuel:
Recommended fuel:
Unleaded gasoline only
Fuel tank capacity:
7.4 L (2.0 US gal, 1.6 Imp.gal)

Fuel injection:
Throttle body:
ID mark:
2SW1 00

Front tire:
Type:
Tubeless
Size:
120 / 70 - 13 M/C 53P
Manufacturer/model:
KENDA / K703F

Rear tire:
Type:
Tubeless

Specifications

Size:
130 / 70 - 13 M/C 57P
Manufacturer/model:
KENDA / K703

Loading:
Maximum load:
160 kg (353 lb)
(Total weight of rider, passenger, cargo and accessories)

Front brake:
Type:
Hydraulic single disc brake

Rear brake:
Type:
Hydraulic single disc brake

Front suspension:
Type:
Telescopic fork

Rear suspension:
Type:
Swingarm

Electrical system:
System voltage:
12 V

Battery:
Model:
GT7B-4
Voltage, capacity:
12 V, 6.5 Ah (10 HR)

Headlight:
Bulb type:
Halogen bulb
Headlight:
12 V, 60.0 W/55.0 W × 1
Brake/tail light:
LED
Front turn signal light:
10.0 W × 2
Rear turn signal light:
10.0 W × 2
Auxiliary light:
LED
License plate light:
5.0 W × 1

EAU26357

Identification numbers

Record the vehicle identification number, engine serial number, model label information, and the key identification number in the spaces provided below. These identification numbers are needed when registering the vehicle with the authorities in your area and when ordering spare parts from a Yamaha dealer.

VEHICLE IDENTIFICATION NUMBER:

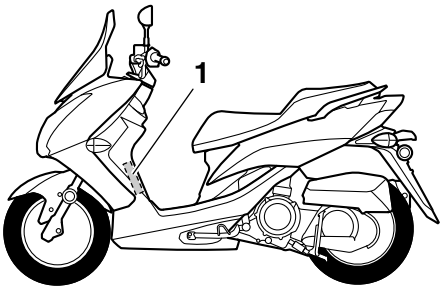
ENGINE SERIAL NUMBER:

MODEL LABEL INFORMATION:

KEY IDENTIFICATION NUMBER:

EAU26411

Vehicle identification number



1. Vehicle identification number

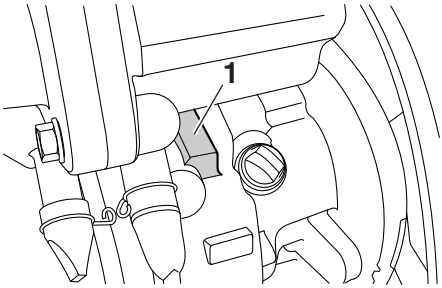
The vehicle identification number is stamped into the frame.

TIP

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

EAU26442

Engine serial number



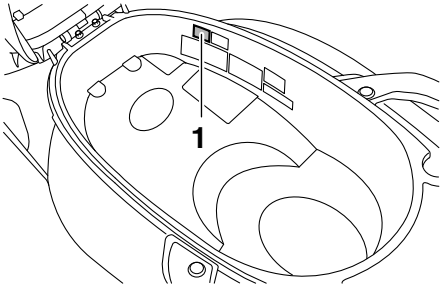
1. Engine serial number

The engine serial number is stamped into the crankcase.

Consumer information

EAU26501

Model label

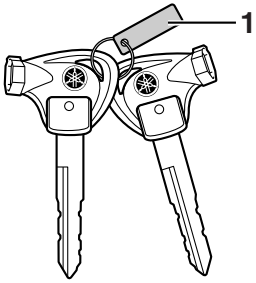


1. Model label

The model label is affixed to the inside of the rear storage compartment. (See page 4-14.) Record the information on this label in the space provided. This information will be needed when ordering spare parts from a Yamaha dealer.

EAU26382

Key identification number

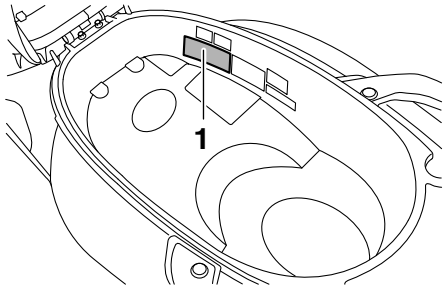


1. Key identification number

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

EAU48271

Vehicle Emission Control Information label



1. Vehicle Emission Control Information label

The Vehicle Emission Control Information label is affixed at the location in the illustration. This label shows specifications related to exhaust emissions as required by federal law, state law and Environment Canada.

EAU26553

Reporting safety defects

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Yamaha Motor Corporation, U.S.A. If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Yamaha Motor Corporation, U.S.A.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to http://www.safercar.gov; or write to: Administrator, NHTSA, 1200 New Jersey Avenue, SE, West Building, Washington, DC 20590. You can also obtain other information about motor vehicle safety from http://www.safercar.gov.

EAU26561

Motorcycle noise regulation

TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED:

Federal law prohibits the following acts or the causing thereof: (1) The removal or rendering inoperative by any person other than for purposes of maintenance, repair, or replacement of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use or (2) the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

“AMONG THOSE ACTS PRESUMED TO CONSTITUTE TAMPERING ARE THE ACTS LISTED BELOW”.

These acts include tampering with the following systems; i.e., modification, removal, etc.

Exhaust system
- Muffler
- Exhaust pipe
- Silencer

Intake system
- Air cleaner case
- Air cleaner element
- Intake duct

EAU68990

Maintenance record

Copies of work orders and/or receipts for parts purchased and installed on your motorcycle will be required to document that maintenance has been completed in accordance with the emissions warranty. The chart below is printed only as a reminder that maintenance work is required. It is not acceptable proof of maintenance work.

Maintenance interval	Date of service	Mileage	Servicing dealer name and address	Remarks
600 mi (1000 km) or 1 month				
2000 mi (4000 km) or 6 months				
4000 mi (7000 km) or 12 months				
6000 mi (10000 km) or 18 months				
8000 mi (13000 km) or 24 months				
10000 mi (16000 km) or 30 months				
12000 mi (19000 km) or 36 months				
14000 mi (22000 km) or 42 months				
16000 mi (25000 km) or 48 months				
18000 mi (28000 km) or 54 months				
20000 mi (31000 km) or 60 months				

EAU87070

YAMAHA MOTOR CORPORATION, U.S.A. 2020 AND LATER MODEL SCOOTER LIMITED WARRANTY

Yamaha Motor Corporation, U.S.A. hereby warrants that each new Yamaha scooter purchased from an authorized Yamaha scooter dealer in the continental United States will be free from defects in material and workmanship for the period of time stated herein, subject to certain stated limitations.

THE PERIOD OF WARRANTY for Yamaha scooters shall be one (1) year from the date of purchase, with no mileage limitation, except for the battery, which is warranted for thirty (30) days from the date of purchase.

DURING THE PERIOD OF WARRANTY any authorized Yamaha scooter dealer will, free of charge, repair or replace, at Yamaha's option, any part adjudged defective by Yamaha due to faulty workmanship or material from the factory. Parts used in warranty repairs will be warranted for the balance of the product's warranty period. All parts replaced under warranty become the property of Yamaha Motor Corporation, U.S.A.

GENERAL EXCLUSIONS from this warranty shall include any failures caused by:
a. Competition or racing use.
b. Installation of parts or accessories that are not qualitatively equivalent to genuine Yamaha parts.
c. Abnormal strain, neglect, or abuse.
d. Lack of proper maintenance and off-season storage as described in the Owner's Manual.
e. Accident or collision damage.
f. Modification to original parts.
g. Damage due to improper transportation

SPECIFIC EXCLUSIONS from this warranty shall include parts replaced due to normal wear or routine maintenance.

THE CUSTOMER'S RESPONSIBILITY under this warranty shall be to:
1. Operate and maintain the scooter as specified in the appropriate Owner's Manual, and
2. Give notice to an authorized Yamaha scooter dealer of any and all apparent defects within ten (10) days after discovery, and make the machine available at that time for inspection and repairs at such dealer's place of business.

WARRANTY TRANSFER: To transfer any remaining warranty from the original purchaser to any subsequent purchaser, it is imperative that the machine be inspected and registered for warranty by an authorized Yamaha scooter dealer. In order for this warranty to remain in effect, this inspection and registration must take place within ten (10) days after transfer. A reasonable dealer-imposed fee may be charged for the inspection.

EMISSIONS CONTROL SYSTEM WARRANTY
Yamaha Motor Corporation, U.S.A. also warrants to the ultimate purchaser and each subsequent purchaser of each Yamaha scooter covered by this warranty that the vehicle is designed, built, and equipped so as to conform at the time of sale with all U.S. emissions standards applicable at the time of manufacture and that it is free from defects in materials and workmanship which would cause it not to meet these standards within the periods listed immediately below. Failures other than those resulting from defects in material or workmanship which arise solely as a result of owner abuse and/or lack of proper maintenance are not covered by this warranty.

ENGINE DISPLACEMENT	PERIOD
Under 50cc	6,000 km (3,750 miles) or five years, whichever occurs first
50cc to 169cc	12,000 km (7,465 miles) or five years, whichever occurs first
170cc to 279cc	18,000 km (11,185 miles) or five years, whichever occurs first
280cc or over	30,000 km (18,641 miles) or five years, whichever occurs first

YAMAHA MOTOR CORPORATION, U.S.A. MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS AND TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY YAMAHA MOTOR CORPORATION, U.S.A. AND EXCLUDED FROM THIS WARRANTY.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. ALSO EXCLUDED FROM THIS WARRANTY ARE ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING LOSS OF USE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

YAMAHA MOTOR CORPORATION, U.S.A.
Post Office Box 6555
Cypress, California 90630
1-800-962-7926

Q. What costs are my responsibility during the warranty period?
A. The customer's responsibility includes all costs of normal maintenance services, non warranty repairs, accident and collision damages, and oil, oil filters, ail filters, spark plugs, and brake shoes.

Q. What are some examples of "abnormal" strain, neglect, or abuse?
A. These terms are general and overlap each other in areas. Specific examples include: Running the machine out of oil, sustained high-rpm, full-throttle, operating the machine with a broken or damaged part which causes another part to fail, damage or failure due to improper or careless transporation and or tie down. If you have any specific questions on operation or maintenance, please contact your dealer for advice.

Q. Does the warranty cover incidental costs such as towing or transportation due to a failure?
A. No. The warranty is limited to repair of the machine itself.

Q. May I perform any or all of the recommended maintenance shown in the Owner's Manual instead of having the dealer do them?
A. Yes, if you are a qualified mechanic and follow the procedures specified in the Owner's and Service Manual. We do recommend, however, that items requiring special tools or equipment be done by a Yamaha Riva dealer.

Q. Will the warranty be void or cancelled if I do not operate or maintain my new Riva exactly as specified in the Owner's Manual?
A. No. The warranty on a new Riva cannot be "voided" or "cancelled." **However, if a particular failure is caused by operation or maintenance other than as shown in the Owner's Manual, that failure may not be covered under warranty.**

Q. What responsibility does my dealer have under this warranty?
A. Each Yamaha Riva dealer is expected to:
1. Completely set up every new machine before sale.
2. Explain the operation, maintenance, and warranty requirements to your satisfaction at the time of sale, and upon your request at any later date.
3. Each Yamaha Riva dealer is held responsible for his setup, service and warranty repair work.

Q. Is the warranty transferable to second owners?
A. Yes. The remainder of the existing warranty can be transferred upon request. The unit has to be inspected and re-registered by an authorized Yamaha Riva dealer for the policy to remain effective.

If your machine requires warranty service, you must take it to any authorized Yamaha Riva dealer within the continental United States. Be sure to bring your warranty registration card or other valid proof of the original date of purchase. If a question or problem arises regarding warranty, first contact the owner of the dealership. Since all warranty matters are handled at the dealer level, this person is in the best position to help you. If you are still not satisfied and require additional assistance, please write:

YAMAHA MOTOR CORPORATION U.S.A.
CUSTOMER RELATIONS DEPARTMENT
P.O. Box 6555
Cypress, California 90630

When contacting Yamaha Motor Corporation, U.S.A. don't forget to include any important information such as names, addresses, model, V.I.N (frame number), dates, and receipts.

CHANGE OF ADDRESS

The federal government requires each manufacturer of a motor vehicle to maintain a complete, up-to-date list of all first purchasers against the possibility of a safety-related defect and recall. This list is compiled from the purchase registrations sent to Yamaha Motor Corporation, U.S.A. by the selling dealer at the time of your purchase.

If you should move after you have purchased your new motorcycle, please advise us of your new address by sending a postcard listing your Riva model name, V.I.N (frame number), dealer umber (or dealer's name) as it is shown on your warranty card, your name and new mailing address. Mail to:

YAMAHA MOTOR CORPORATION, U.S.A.
P.O. Box 6555
Cypress, California 90630
Attention: Warranty Department

This will ensure that Yamaha Motor Corporation, U.S.A. has an up-to-date registration record in accordance with federal law.

EAU63503

YAMAHA EXTENDED SERVICE (Y.E.S.)

Keep your Yamaha protected even after your limited warranty expires with genuine Yamaha Extended Service (Y.E.S.).

- Y.E.S. is designed and administered by Yamaha Motor Corporation to provide maximum owner satisfaction. It provides uninterrupted factory-backed coverage for extra peace of mind.
- Y.E.S. is flexible. You choose the plan that's right for you: 12 months, 24 months, 36 months or, on certain models, even 48 months beyond your warranty period.
- Y.E.S. is designed and administered by the same Yamaha people who handle your warranty – and it shows in the comprehensive coverage benefits. There are no mileage limitations. Coverage isn't limited to "moving parts" or the "drivetrain" like many other plans. And Y.E.S. covers manufacturing defects just like the warranty. See the sample contract at your Yamaha dealer to see how comforting uninterrupted factory-backed protection can be.
- You don't have to pay anything for covered repairs. There's no deductible to pay, and repairs aren't "pro-rated." You don't have any "out-of-pocket" expenses for covered repairs.
- In addition, Travel and Recreation Interruption Protection (TRIP) is included at no extra cost. TRIP gives you up to $250 reimbursement per occurrence for any reasonable expenses you incur because your Yamaha needs covered service: replacement vehicle rental, emergency towing, phone calls, even food and lodging when you are away from home. This superb coverage goes into effect when you purchase Y.E.S., so it applies to any warranty repairs as well as covered repairs during your entire Y.E.S. plan period.
- Y.E.S. coverage is honored at any authorized Yamaha dealer nationwide.
- Y.E.S. coverage is transferable to a new owner if you sell or trade-in. That can make your Yamaha much more valuable!

This excellent Y.E.S. plan coverage is only available to Yamaha owners like you, and only while your Yamaha is still within the Yamaha Limited Warranty period. So visit your authorized Yamaha dealer to get all the facts. They can show you how easy it is to protect your investment with Yamaha Extended Service.

We urge you to act now. You'll get the excellent benefits of TRIP coverage right away, and you'll rest easy knowing you'll have strong factory-backed protection even after your Yamaha Limited Warranty expires.

A special note:
If visiting your dealer isn't convenient, contact Yamaha with your VIN number and we'll be happy to help you get the Y.E.S. coverage you need.

Yamaha Service Marketing
P.O. Box 6555
Cypress, CA 90630
1-(866)-YES-EXTD (1-866-937-3983)



Index

A

Acceleration and deceleration 6-3
Air filter and V-belt case air filter elements 7-15
Auxiliary lights 7-31

B

Battery 7-28
Brake fluid, changing 7-23
Brake fluid level, checking 7-22
Brake lever, front 4-8
Brake lever, rear 4-9
Brake levers, lubricating 7-25
Braking 6-4

C

Cables, checking and lubricating 7-24
Canister 7-10
Care 8-1
Catalytic converter 4-12
Centerstand and sidestand, checking and lubricating 7-25
Coolant 7-14
Coolant temperature warning light 4-3

D

Dimmer switch 4-7

E

Engine break-in 6-1
Engine idling speed, checking 7-17
Engine oil 7-10
Engine overheating 7-35
Engine serial number 10-1
Engine stop switch 4-8
Engine trouble warning light 4-3

F

Final transmission oil 7-13
Front and rear brake lever free play, checking 7-21
Front and rear brake pads, checking 7-21
Front fork, checking 7-26
Fuel 4-10
Fuel consumption, tips for reducing 6-5
Fuel gauge 4-4
Fuel tank breather hose and overflow hose 4-11
Fuel tank cap 4-9
Fuses, replacing 7-29

H

Handlebar switches 4-7
Headlight bulb, replacing 7-30
Helmet holder 4-13
High beam indicator light 4-3
Horn switch 4-8

I

Identification numbers 10-1
Ignition circuit cut-off system 4-16
Indicator lights and warning lights 4-3

K

Keyhole cover 4-2
Key identification number 10-2

L

Labels, location 1-1
License plate light bulb, replacing 7-32
Luggage hook 4-15

M

Main switch/steering lock 4-1
Maintenance and lubrication, periodic 7-4
Maintenance, emission control system 7-3
Maintenance record 10-5
Matte color, caution 8-1
Model label 10-2
Multi-function display 4-5

N

Noise regulation 10-4

P

Panels, removing and installing 7-7
Parking 6-5
Part locations 3-1
Passenger footrest 4-13
Pass switch 4-7

S

Safe-riding points 2-5
Safety defects, reporting 10-3
Safety information 2-1
Seat 4-12
Shock absorber assembly 4-15
Sidestand 4-16
Spark plug, checking 7-8
Specifications 9-1
Starting off 6-3
Starting the engine 6-2
Start switch 4-8
Steering, checking 7-27
Storage 8-4
Storage compartments 4-14

T

Tachometer 4-4
Tail/brake light 7-31
Throttle grip and cable, checking and lubricating 7-24
Throttle grip free play, checking 7-17
Tires 7-18

Tool kit.....7-2
Troubleshooting.....7-33
Troubleshooting chart.....7-34
Turn signal indicator lights.....4-3
Turn signal light bulb, replacing.....7-32
Turn signal switch.....4-8
V
Valve clearance.....7-18
Vehicle Emission Control Information label 10-2
Vehicle identification number 10-1
W
Warranty, extended.....10-8
Warranty, limited 10-6
Wheel bearings, checking 7-27
Wheels 7-20
Y
Yamalube 7-12

For your best ownership experience, think **Genuine Yamaha!**

Genuine Yamaha Parts – Genuine Yamaha replacement parts are the exact same parts as the ones originally equipped on your vehicle, providing you with the performance and durability you have come to expect. Why settle for aftermarket parts that may not provide full confidence and satisfaction?

Genuine Yamaha Accessories – Yamaha only offers accessories that meet our high standards for quality and performance. Buy with confidence, knowing your Genuine Yamaha Accessories will fit right and perform right – right out of the box.

Yamalube – Take care of your Yamaha with legendary Yamalube oils, lubricants, and care products. They're formulated and approved by the toughest judges we know: the Yamaha engineering teams that know your Yamaha from the inside out.

Genuine Yamaha Service Manuals – Get the same factory manual for your vehicle that the technicians at your authorized Yamaha dealer use. Service manuals are available through your Yamaha dealer or you can order them directly through yamahapubs.com (for US consumers only).

Genuine Yamaha products are available only from your Yamaha dealer.

Find out more at:
For US consumers, please visit yamaha-motor.com
For Canadian consumers, please visit yamaha-motor.ca



PRINTED IN TAIWAN
2019.07-0.7×1 NKT
(E)