



OWNER'S MANUAL

**⚠ Read this manual carefully
before operating this vehicle.**



MOTORCYCLE

XTZ07AS (Ténéré 700)

BRL-28199-70

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

Use of trade marks

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Google Maps™ is a trademark of Google LLC.

Introduction

EAU45931

Congratulations on your purchase of the Yamaha XTZ07AS. 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 motorcycle. If you have any questions concerning the operation or maintenance of your motorcycle, please consult a Yamaha dealer.

The design and manufacture of this Yamaha motorcycle 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 motorcycle. 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 motorcycle and this manual. If there is any question concerning this manual, please consult a Yamaha dealer.

EWA10022



Please read this manual carefully and completely before operating this motorcycle. Do not attempt to operate this motorcycle 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 the reliability of this motorcycle.

Important manual information

EAU10134

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

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

*Product and specifications are subject to change without notice.

Important manual information

EAU10202

**XTZ07AS
OWNER'S MANUAL
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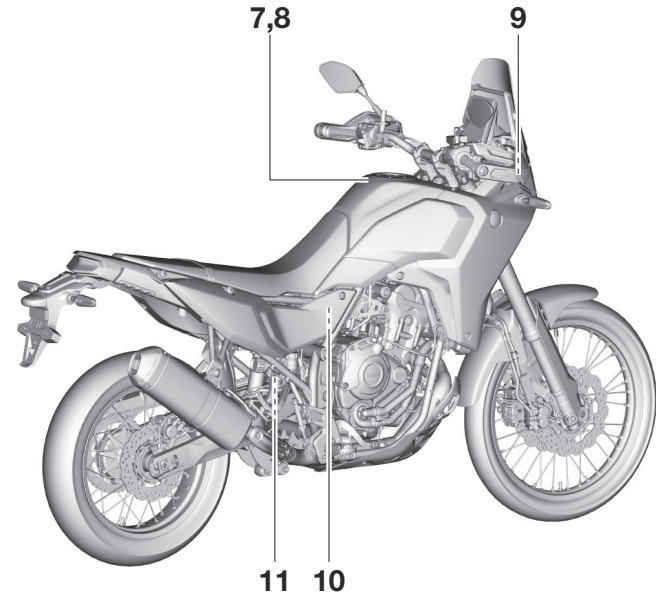
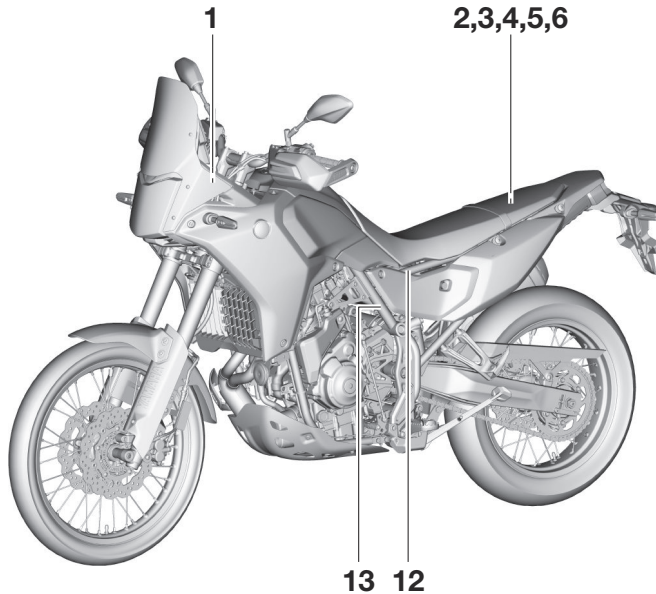
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Location of important labels

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1

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.



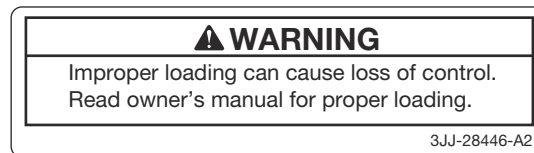
Location of important labels

1

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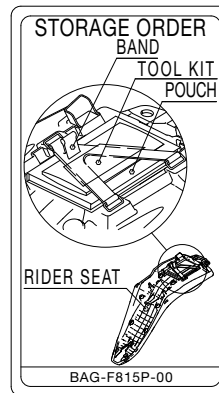
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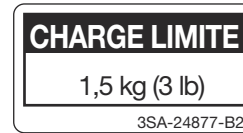
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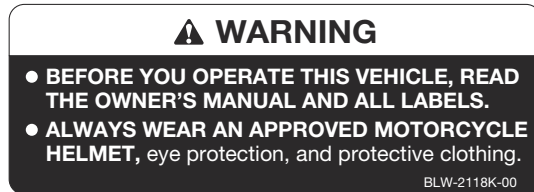
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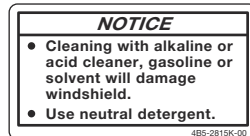
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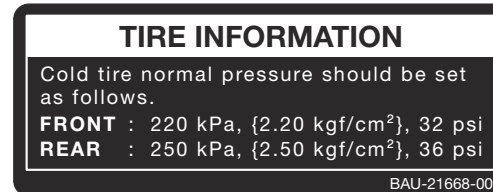
8



9



10



Location of important labels

1

11

**WARNING**

This unit contains high pressure nitrogen gas. Mishandling can cause explosion.

- Read owner's manual for instructions.
- Do not incinerate, puncture or open.

**AVERTISSEMENT**

Cette unité contient de l'azote à haute pression. Une mauvaise manipulation peut entraîner d'explosion.

- Voir le manuel d'utilisateur pour les instructions.
- Ne pas brûler ni perforer ni ouvrir.

4AA-22259-70

12

INFORMATION SUR LES PNEUS

La pression des pneus à froid doit normalement être réglée comme suit.

AVANT : 220 kPa, {2.20 kgf/cm²}, 32 psi

ARRIERE : 250 kPa, {2.50 kgf/cm²}, 36 psi

BAU-21668-10

13



CAN ICES-002 / NMB-002

8KM-82377-12

1-4

EAU1031C

Be a Responsible Owner

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

Motorcycles 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 motorcycle.

He or she should:

- Obtain thorough instructions from a competent source on all aspects of motorcycle 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 motorcycle without proper training or instruction. Take a training course. Beginners should receive training from a certified instructor. Contact an authorized motorcycle 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 6-1 for a list of pre-operation checks.

- This motorcycle is designed to carry the operator and a passenger.
- The failure of motorists to detect and recognize motorcycles in traffic is the predominating cause of automobile/motorcycle accidents. Many accidents have been caused by an automobile driver who did not see the motorcycle. 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 motorcycle accidents to occur.
- Ride where other motorists can see you. Avoid riding in another motorist's blind spot.
- Never maintain a motorcycle without proper knowledge. Contact an authorized motorcycle dealer to inform you on basic motorcycle 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 motorcycle license.
- Make sure that you are qualified and that you only lend your motorcycle to other qualified operators.

Safety information

2

- Know your skills and limits. Staying within your limits may help you to avoid an accident.
- We recommend that you practice riding your motorcycle where there is no traffic until you have become thoroughly familiar with the motorcycle and all of its controls.
- Many accidents have been caused by error of the motorcycle 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 motorcycle.
 - 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.

Protective Apparel

The majority of fatalities from motorcycle 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, heavy boots, 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, footrests, 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 motorcycle can adversely affect stability and handling if the weight distribution of the motorcycle is changed. To avoid the possibility of an accident, use extreme caution when adding cargo or accessories to your motorcycle. Use extra care when riding a motorcycle 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 motorcycle:

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:
186 kg (410 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 motorcycle 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 motorcycle to minimize imbalance or instability.
- Shifting weights can create a sudden imbalance. Make sure that accessories and cargo are securely attached to the motorcycle 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. These items, including such cargo as sleeping bags, duffel bags, or tents, 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

Safety information

2

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 per-

formance of your motorcycle. 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 motorcycle due to aerodynamic effects. Wind may attempt to lift the motorcycle, or the motorcycle 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 motorcycle'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 motorcycle 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 8-17 for tire specifications and more information on replacing your tires.

Transporting the Motorcycle

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

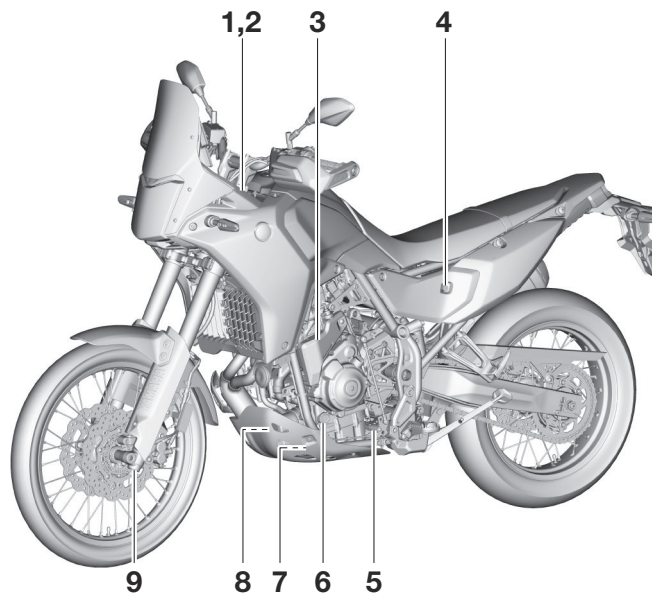
- Remove all loose items from the motorcycle.
- Check that the fuel cock (if equipped) is in the “OFF” position and that there are no fuel leaks.
- Point the front wheel straight ahead on the trailer or in the truck bed, and choke it in a rail to prevent movement.
- Shift the transmission in gear (for models with a manual transmission).
- Secure the motorcycle with tie-downs or suitable straps that are attached to solid parts of the motorcycle, 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 motorcycle will not bounce excessively during transport.

Description

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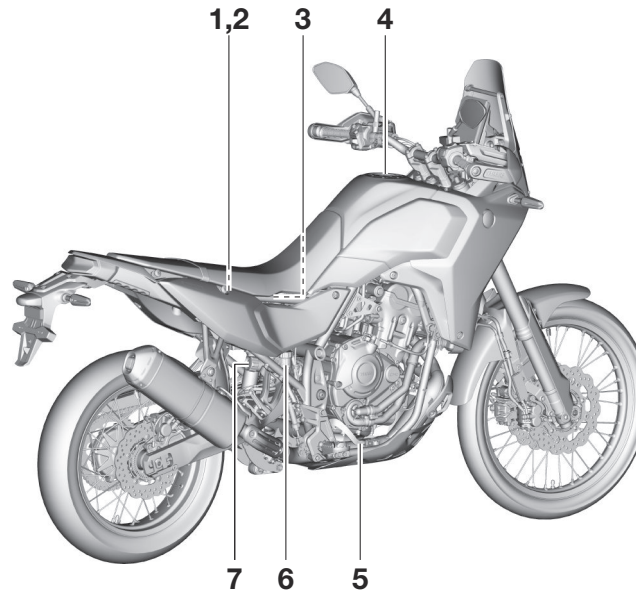
Left view

3



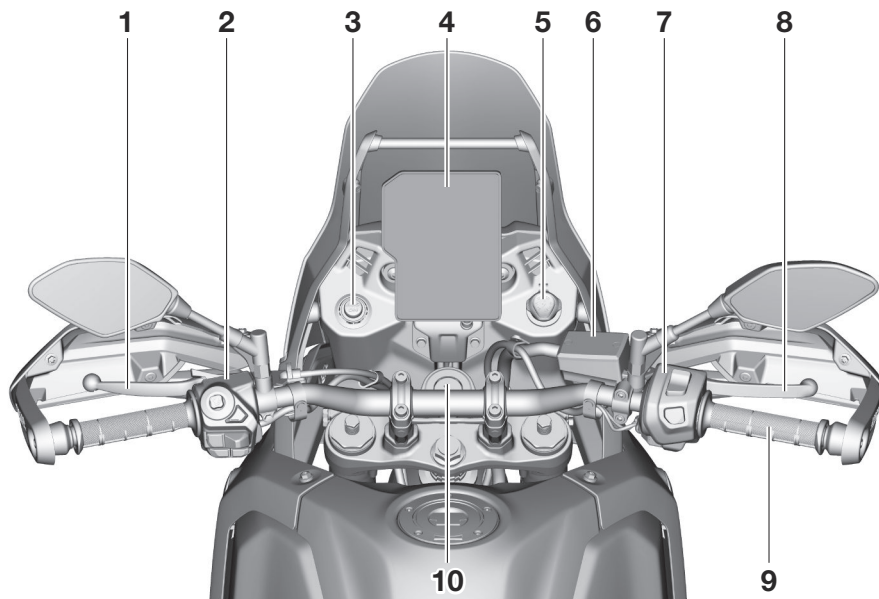
- | | |
|---|---|
| 1. Spring preload adjuster (page 5-29) | 9. Compression damping force adjuster (page 5-29) |
| 2. Rebound damping force adjuster (page 5-29) | |
| 3. Coolant reservoir (page 8-13) | |
| 4. Seat lock (page 5-28) | |
| 5. Shift pedal (page 5-23) | |
| 6. Engine oil level check window (page 8-9) | |
| 7. Engine oil drain bolt (page 8-9) | |
| 8. Oil filter cartridge (page 8-9) | |

Right view



1. Main fuse (page 8-32)
2. Fuse box (page 8-32)
3. Battery (page 8-30)
4. Fuel tank cap (page 5-25)
5. Brake pedal (page 5-24)
6. Rear brake fluid reservoir (page 8-22)
7. Spring preload adjuster (page 5-32)

Controls and instruments

3

- 1. Clutch lever (page 5-22)
- 2. Left handlebar switches (page 5-2)
- 3. “ABS” button (page 5-4)
- 4. Display (page 5-6)
- 5. USB Type-C jack (page 5-35)
- 6. Front brake fluid reservoir (page 8-22)
- 7. Right handlebar switches (page 5-2)
- 8. Brake lever (page 5-24)

- 9. Throttle grip (page 8-26)
- 10. Main switch/steering lock (page 5-1)

Smart features: Introduction

EAUA4804

EWA21412

WARNING

- **Failure to pay attention while riding could result in death or serious injury. Always concentrate on riding by keeping your eyes and mind on the road.**
- **Stop the vehicle before making any settings changes.**
- **Changing settings while riding can distract the operator and increase the risk of an accident.**
- **Never take your hands off the handlebars while riding.**
- **Keep volume levels low enough to maintain awareness of your surroundings and ensure safety.**

This vehicle is equipped with an extensive suite of smart features utilizing your smartphone, connected to the vehicle through a communication control unit (CCU) and the Yamaha Motorcycle Connect app on your phone.

- Turn by Turn GPS navigation (page 5-14)
- Telephone (page 5-18)

- Audio player (page 5-15)
- Smartphone notifications (page 5-18)
- Weather information (page 5-15)
- Clock automatic update (page 5-21)

TIP

- The CCU takes some time to initiate and stabilize the Bluetooth connection after the vehicle power is turned on or the battery is reconnected.
- Some connectivity features need to be activated on the connected smartphone before they become functional in the menu system.
- Some features may not be available depending on your smartphone and/or OS version.
- Some music, SNS, and other smartphone applications and headsets devices may not function and/or display properly.
- The following may interfere with connectivity functions:
 - Smartphone network connection is too busy.

- The smartphone GPS signal is unstable.
- Bluetooth connection is unstable.
- Too many other devices connected to the smartphone at once.

ECAN0150

NOTICE

The Bluetooth connection may not work in the following situations.

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

Smart features are accessed via the menu system (page 5-17).



Smartphone Connectivity System

Yamaha Motorcycle Connect app



Yamaha Motorcycle Connect is a free app which is needed to complete the connection between the CCU and your smartphone.

TIP

- Use of Yamaha Motorcycle Connect is subject to your agreement to the Yamaha Motorcycle Connect terms of use.
- The Yamaha Motorcycle Connect app may not function on all smartphones or OS (operating system) versions.
- Navigation and other features require GPS access permissions to be set as “Always allow” on your smartphone.

- Every smartphone operates differently; refer to your individual device instructions regarding connectivity, Bluetooth discovery, app permissions, and other settings.
- Some connectivity and/or display functions may change with later updates to the Yamaha Motorcycle Connect app and therefore differ from the contents of this manual.

EAUA6250

Industry Canada license exempt RSS standard(s)

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of this device.

CAN ICES-003(B)/NMB-003(B)

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

Initial Setup (Yamaha Motorcycle Connect app)

EAUM5370

Pairing the CCU and your smartphone

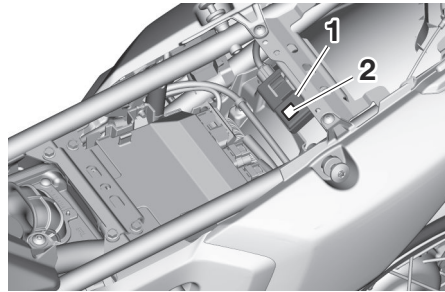
1. Scan the QR code below and download the Yamaha Motorcycle Connect app, or search for it by name in an app store.



2. Open the seat. (See page 5-28.)
3. Find the CCU and scan its QR code with the Yamaha Motorcycle Connect app.

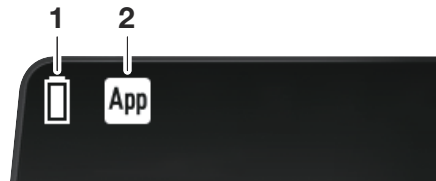
TIP

The CCU can also be paired by entering the VIN (vehicle identification number) in the Yamaha Motorcycle Connect app. (See page 11-1.)



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

4. When pairing is complete, the smartphone battery level indicator “” and the Yamaha Motorcycle Connect app indicator “” will come on.



1. Smartphone battery level indicator “”
2. Yamaha Motorcycle Connect app indicator “”

TIP

- Once paired, the smartphone is registered in the CCU. The next time the vehicle is turned on and the Yamaha Motorcycle Connect app is active, the connection will be automatically established.
- Only one smartphone can be connected to the CCU at one time.
- If more than one phone has been registered in the CCU, then the first phone within reach will be connected.

Initial setup: Turn by Turn navigation

EWA21401

WARNING

- Always stop the vehicle before operating the navigation system.
- Always concentrate on riding by keeping your eyes and mind on the road.

Smartphone Connectivity System

4



This vehicle is equipped with a Turn by Turn navigation system that provides route guidance through visual and textual prompts. To use the Turn by Turn navigation system, follow the prompts within the Yamaha Motorcycle Connect app to set GPS permissions and agree to Google terms of service.

TIP

- Navigation data in the Yamaha Motorcycle Connect app is obtained via Google Maps. Use of Google Maps is subject to your agreement to the Google Maps terms of use. Yamaha shall not be liable for any damages resulting from the use of Google.
- The Yamaha Motorcycle Connect app's GPS access permissions

must be set to “Always allow” on your smartphone’s settings.

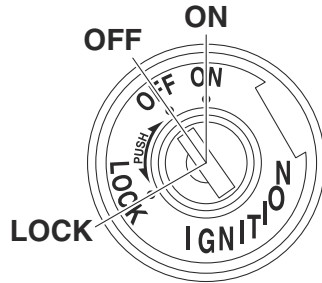
- While route guidance is active, the weather information at the destination will be displayed.

Bluetooth headset pairing

Follow your headsets manufacturer instructions to pair/connect to your smartphone.

Main switch/steering lock

EAU10462



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

ON

EAU85050

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

- To prevent battery discharge, do not leave the key in the on position without the engine running.
- The headlight comes on automatically when the engine is started.

- The headlight will stay on until the key is turned to “OFF”, even if the engine stalls.

EAU10664

OFF

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

EWA10062



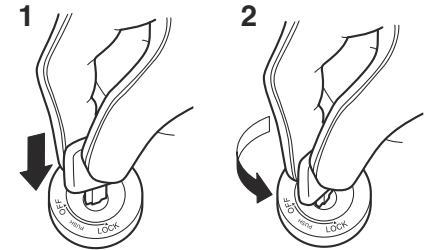
Never turn the key to “OFF” or “LOCK” while the vehicle is moving. Otherwise the electrical systems will be switched off, which may result in loss of control or an accident.

LOCK

EAU73803

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

To lock the steering



1. Push.
2. Turn.

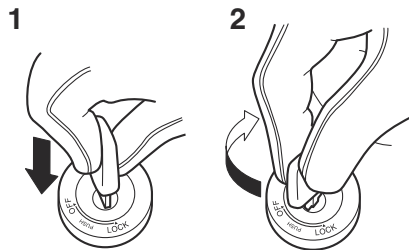
1. Turn the handlebars all the way to the left.
2. With the key in the “OFF” position, push the key in and turn it to “LOCK”.
3. Remove the key.

TIP

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

Instrument and control functions

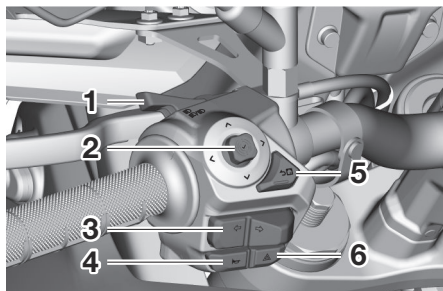
To unlock the steering



Push the key in and turn it to “OFF”.

Handlebar switches

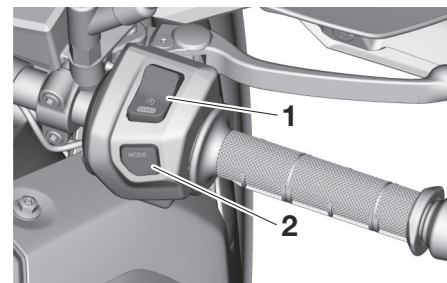
Left



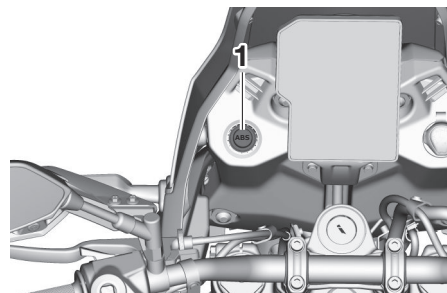
1. Dimmer/Pass switch “ $\equiv$ D / $\equiv$ D”
2. Joystick “ $\blacktriangledown$ ”
3. Turn signal switch “ $\leftarrow$ / $\rightarrow$ ”
4. Horn switch “ HORN ”
5. Home button “ $\rightarrow$ ”
6. Hazard switch “ Δ ”

EAU6605B

Right



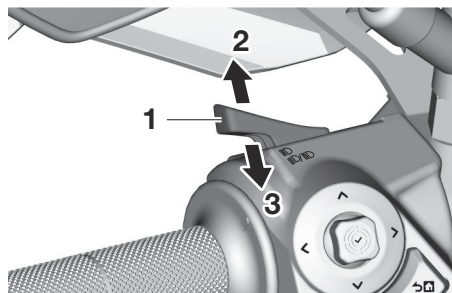
1. Stop/Run/Start switch “ OFF / ON / START ”
2. “MODE” button



1. “ABS” button

Dimmer/Pass switch “/”

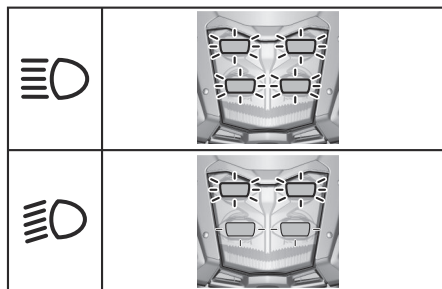
EAUJA6020



1. Dimmer/Pass switch “/”
2. Direction A
3. Direction B

Push this switch outward (direction A) to turn the high beam on. Push this switch inward (direction B) to return to low beam.

While the headlights are set to low beam, push the switch inwards (direction B) to momentarily flash the high beam.



TIP

When the headlights are set to low beam, the two bottom headlights are on in a low power setting.

Turn signal switch “/”

EAUJA1741

This switch controls the turn signal lights. This is a 2-stage switch, meaning that pressing it soft or hard has a different effect.

Soft press: Lightly press the switch in the direction you wish to signal, until a soft click is felt. The corresponding turn signal light will flash three times and stop.

Hard press: Firmly press the switch in the direction you wish to signal, until a stronger click is felt. The corresponding

turn signal light will flash continuously until all of the following conditions occur:

- The vehicle travels approx. 150 m (490 ft).
- More than 15 seconds has elapsed.
- The vehicle speed is more than 5 km/h (3 mi/h).

ECA28525

NOTICE

Depending on the conditions, the turn signal may not automatically turned off within the specified time or distance travelled.

To cancel a turn signal manually, press the switch a second time in the same direction.

EAUJ66030

Horn switch “”

Press this switch to sound the horn.

EAUJ94790

Stop/Run/Start switch “/”

To crank the engine with the starter, set this switch to “”, and then push the switch down towards “”. See page

Instrument and control functions

7-2 for starting instructions prior to starting the engine.
Set this switch to “” to stop the engine in case of an emergency, such as when the vehicle overturns.

EAUA5530

Hazard switch “”

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

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

ECA10062

NOTICE

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

EAUA5491

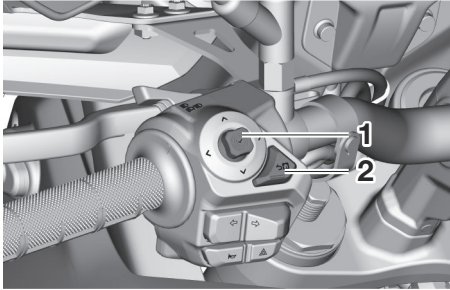
“MODE” button

Short press this button to open the MODE display pop-up at the bottom of the main screen.

See page 5-12 for more information.

Joystick “” and home button “”

EAUA5110



1. Joystick “”
2. Home button “”

These are used to control the display/menu system.

This manual uses the following terms to describe the usage of the menu controls:

Short press	Briefly press the joystick or button
Long press	Press the joystick or button for 1 second

See pages 5-7 and 5-17 for more detailed explanations of their function.

EAUA5122

“ABS” button

This button deactivates/activates the anti-lock brake system (ABS).

To deactivate the ABS:

Press and hold the “ABS” button for 2 seconds. The ABS will deactivate to ABS OFF or REAR ABS OFF depending on the previous setting in the MODE display. (See page 5-12.)

The ABS OFF indicator light “” will come on and the ABS mode indicator will appear as “ABS OFF” / “REAR ABS OFF”.

To activate the ABS:

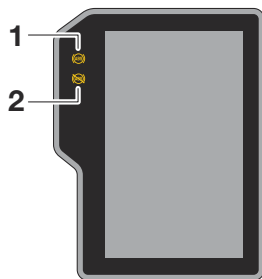
Short press the “ABS” button. The ABS OFF indicator light “” will go off and the ABS mode indicator will go off.

TIP

- The “ABS” button does not function when the vehicle is in motion.
- When the ABS reactivates, the ABS mode indicator and the ABS OFF indicator light “” will go off.

Indicator lights and warning lights

EAUJ5930



1. ABS warning light “

ABS warning light “ EAU91850

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

EWA16043



WARNING

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

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

EAUJ6030

ABS OFF indicator light “ This indicator light comes on when the anti-lock brake system has been manually disabled, the ABS mode indicator comes on at the same time. (See page 5-8.)

TIP

The ABS will remain disabled until:

- The main switch is turned off.
- The “ABS” button is pressed while the vehicle is not moving.
- The ABS is reactivated via the menu system while the vehicle is not moving.

EWA21100



WARNING

Always ride on paved roads with the ABS turned on. Turn the ABS off only when riding on non-paved surfaces.

Instrument and control functions

EAUM5280

Display

Explorer



Street



1. Information display
2. Tachometer
3. Indicator icons
4. Clock
5. Transmission gear display

6. Fuel meter
7. Speedometer
8. Coolant temperature meter
9. ABSmode indicator

EUAJ5136

Main display screen

The main screen of the display has two different themes; “Explorer” and “Street”. (See page 5-6.) Some functions are not available in all themes. (See page 5-17.)

EWA18210



WARNING

Stop the vehicle before making any setting changes. Changing settings while riding can distract the operator and increase the risk of an accident.

TIP

- This model uses a thin-film-transistor liquid-crystal display (TFT LCD) for good contrast and readability in various lighting conditions. However, due to the nature of this technology, it is normal for a small number of pixels to be inactive.
- The display units can be switched between kilometers/miles and Celsius/Fahrenheit. (See page 5-21.)

Speedometer

The speedometer shows the vehicle's traveling speed.

Tachometer

The tachometer shows the engine speed, as measured by the rotational velocity of the crankshaft, in revolutions per minute (r/min).

ECA10032

NOTICE

Do not operate the engine in the tachometer red zone.

Red zone: 9400 r/min and above

Fuel meter

The fuel meter indicates the amount of fuel in the fuel tank. The display segments of the meter disappear from “F” (full) towards “E” (empty) as the fuel level decreases.

When the last segment starts flashing, refuel as soon as possible.

TIP

If all the fuel meter display segments flash repeatedly, have a Yamaha dealer inspect the vehicle.

ECAE0121

NOTICE

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

Coolant temperature meter

The coolant temperature meter indicates the radiator coolant temperature. When the coolant is too hot, the top segment will flash.

TIP

- The coolant temperature meter is only available in the “Street” theme.
- If all the coolant temperature meter display segments flash repeatedly, have a Yamaha dealer inspect the vehicle.

Clock “⌚”

The clock uses a 12-hour time system.

Transmission gear display

This shows which gear the transmission is in. This model has 6 gears and a

Instrument and control functions

neutral position. The neutral position is indicated by “N”.

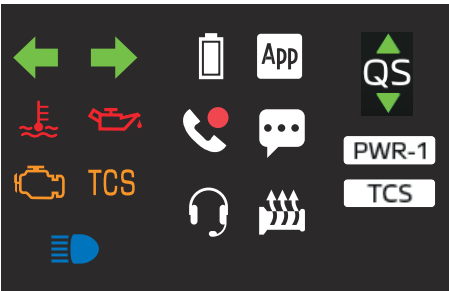
TIP _____
If a malfunction occurs, “-” will be shown.

ABS mode indicator

This indicator shows the currently selected ABS mode. There are 3 ABS modes which can be changed with the “MODE” button and the MODE display. (See page 5-12.)

ABS status	Indicated on display
ABS is on	The indicator is off
Rear wheel ABS is off	“REAR ABS OFF” and “OFF ROAD”
ABS is off	“ABS OFF” and “OFF ROAD”

Indicator icons



Coolant temperature warning indicator “”

This indicator is shown when the coolant temperature is too high. Stop the vehicle and turn off the engine. Allow the engine to cool.

ECA10022

NOTICE _____

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

Traction control system indicator “”

When TCS (traction control system) is set to off, this indicator will come on.

This indicator flashes when the TCS (traction control system) engages while riding.

TIP _____
When the vehicle is turned on, this indicator should come on for a few seconds and then go off. If the indicator does not come on, or if it remains on, have a Yamaha dealer check the vehicle.

Oil pressure warning indicator “”

This indicator is shown when the engine oil pressure is low. When the vehicle power is first turned on, engine oil pressure has yet to build up, therefore this indicator will show until the engine has been started.

TIP _____
If a malfunction is detected, the oil pressure warning icon will flash repeatedly.

ECA26410

NOTICE _____

Do not continue to operate the engine if the oil pressure is low.

Engine trouble warning indicator



This indicator comes on if a problem is detected in the engine or other vehicle control systems. If this occurs, have a Yamaha dealer check the on-board diagnostic system.

TIP

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

High beam indicator “”

This indicator is shown when the high beam of the headlight is on.

Turn signal indicators “”/“”

Each indicator flashes when its corresponding turn signal lights are flashing.

PWR mode indicator “” / “”

The PWR mode indicator displays the currently selected PWR mode. There are two PWR modes which can be changed with the “MODE” button

and the MODE display. (See page 5-12.)

TCS mode indicator “”

The TCS mode indicator “” will come on when the traction control system is on. When the traction control system is off, the TCS mode indicator will be off and the traction control system indicator “” will come on.

The TCS can be turned ON/OFF with the “MODE” button and the MODE display. (See page 5-12.)

Smartphone battery level indicator “”

This indicator displays the connected smartphone's current battery level.

- Icon off: No smartphone connected.
- “”: The center bar moves up and down to indicate the battery level.

When the battery level is low, the center bar will turn red.

TIP

The battery level indicated by the icon may not always be consistent with the battery level displayed on the smartphone.

Yamaha Motorcycle Connect app indicator “”

This indicator comes on when the Yamaha Motorcycle Connect app is successfully connected to the vehicle.

Phone indicator “”/“”

This icon comes on green when there is an active call and red when there is a missed call. The missed call icon will disappear when the vehicle power is turned ON/OFF or when the “Received Calls” list is opened in the menu system. (See page 5-18.)

Notification indicator “”

This icon comes on when the connected smartphone receives an SNS, E-mail or other notification. It will remain on until the vehicle power is turned off or until the “Notification” list is opened in the menu system. (See page 5-18.)

TIP

- This function works only when a smartphone is connected to the CCU via the Yamaha Motorcycle Connect app.

Instrument and control functions

- Permission to access notifications must be granted to the Yamaha Motorcycle Connect app on your smartphone.

Headset indicator “”

This icon comes on if a Bluetooth headset is connected to the smartphone.

TIP

For some smartphones, this icon may go off during phone calls.

Quick shift indicator “QS” (if equipped)

This icon and accompanying arrow icons indicate the status of the quick shifter.

Respective arrow icon off: the quick shifter is disabled.

▲ : the system is active for upshifts but cannot currently quickshift.

▼ : the system is active for downshifts but cannot currently quickshift.

▲ : quick upshift available.

▼ : quick downshift available.

TIP

- The upshift and downshift functions are independent and can be

activated separately in the menu system. (See page 5-21.)

- For more information on the quick shifter see page 5-23.

Grip warmer indicator “” (if equipped)

The grip warmers can be used when the engine is running. There are 3 customizable temperature presets that can be customized between 10 different temperature levels. (See page 5-19.) The icon displays the current temperature setting:

 : Grip warmer off

 : Low preset

 : Medium preset

 : High preset

ECA17932

NOTICE

- **Be sure to wear gloves when using the grip warmers.**
- **Do not use the grip warmers in warm weather.**
- **If the handlebar grip or throttle grip becomes worn or damaged, stop using the grip warmers and replace the grips.**

Information display

The information display is a section of the main screen which contains various functions and information to aid the operator of the vehicle.

The information display items are:

“ODO”: odometer

“TRIP 1”: tripmeter 1

“TRIP 2”: tripmeter 2

“TRIP CD”: countdown tripmeter

“TRIP F”: fuel reserve tripmeter

“INST FUEL”: instantaneous fuel consumption

“AVG FUEL”: average fuel consumption

“COOLANT”: coolant temperature

“AIR”: air temperature

Operate the joystick up-down to cycle the items.

TIP

- The “TRIP 1”, “TRIP 2”, “TRIP CD”, “TRIP F”, and “AVG FUEL” items can be individually reset. The “TRIP CD” item can also be adjusted.
- In “Street” theme, two items are displayed at once.

To reset information display items:

If a displayed item can be reset, short pressing “✓” will highlight the item. Once highlighted, long press “✓” and the item will reset.

Odometer “ODO”:

The odometer shows the total distance traveled by the vehicle.

TIP

The odometer will lock at 999999 km (621370 mi) and cannot be reset.

Tripmeters “TRIP 1” / “TRIP 2”:

“TRIP 1” and “TRIP 2” show the distance traveled since they were last set to zero.

TIP

“TRIP 1” and “TRIP 2” will reset to 0 and begin counting again after 9999.9 has been reached.

Countdown tripmeter “TRIP CD”:

Counts down from a set distance. Reset the countdown tripmeter and the first digit will flash. Operate the joystick up-down to adjust the flashing digit,

short press “✓” to confirm and the next digit will flash. Repeat this until the third digit is confirmed and the tripmeter is set.

When the set mileage has been traveled, “0.0” will flash 10 times and then remain. If another information display item is being displayed, the countdown tripmeter will supersede it, flash 10 times, and then return to the previously displayed item.

TIP

The maximum set value is 900.0 km (600.0 mi).

Fuel reserve tripmeter “TRIP F”:

When the fuel tank reserve level has been reached, “TRIP F” appears automatically and begins recording distance traveled from that point. After refueling and traveling some distance, “TRIP F” will disappear.

Instantaneous fuel consumption “INST FUEL”:

The instantaneous fuel consumption display can be set to “km/L”,

“L/100km” or “MPG” in the menu system. (See page 5-21.)

TIP

If traveling at speeds under 10 km/h (6 mi/h), “--.-” will be displayed. If the units are set to miles “---.-” will be displayed.

Average fuel consumption “AVG FUEL”:

The average fuel consumption display can be to “km/L”, “L/100km” or “MPG” in the menu system. (See page 5-21.)

TIP

After resetting the average fuel consumption display, “--.-” will be shown until the vehicle has traveled 1 km (0.6 mi). If the units are set to miles “---.-” will be displayed.

Coolant temperature “COOLANT”:

The coolant temperature is displayed from 39 °C (103 °F) to 117 °C (243 °F) in 1 °C (1 °F) increments.

Instrument and control functions

TIP

- If the vehicle coolant temperature is below 39 °C (103 °F) the coolant temperature display will read “Low Temp”
- If the vehicle coolant temperature is above 117 °C (243 °F) the coolant temperature display will read “High Temp”

Air temperature “AIR”:

The air temperature is displayed from -9 °C (16 °F) to 50 °C (122 °F) in 1 °C (1 °F) increments. The displayed temperature may differ from the actual ambient temperature due to the vehicle temperature and other factors.

TIP

“---” will be displayed if the detected temperature is higher or lower than the display range.

MODE display



Short press the “MODE” button to open a popup at the bottom of the main screen. The following items are contained in the MODE display:

- PWR mode
- TCS mode
- ABS mode

PWR mode

Changes the engine throttle map between:

“PWR-1 SPORT”: Maximum throttle response.

“PWR-2 EXPLORE”: Smoother throttle response.

TCS mode

Sets the traction control system ON/OFF. Press and hold the joystick down to turn TCS OFF. Short press the joystick up to turn TCS ON.

TIP

The vehicle must be stopped to make changes to the traction control settings.

ABS mode

Changes the anti-lock braking system to different settings.

ON: Anti-lock braking system is active.

REAR OFF: Anti-lock braking system is active only for the front wheel.

OFF: Anti-lock braking system is deactivated.

TIP

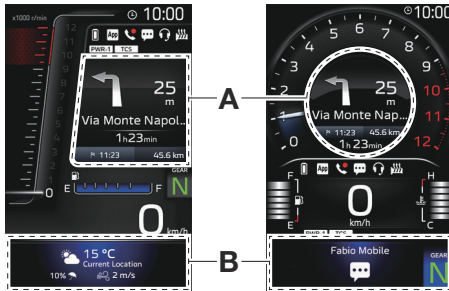
- The vehicle must be stopped to make changes to the ABS settings.
- The ABS will remain disabled until:
 - The main switch is turned off.
 - The “ABS” button is pressed while the vehicle is not moving.
 - The ABS is reactivated via MODE display while the vehicle is not moving.

⚠ WARNING

Always ride on paved roads with the ABS turned on. Turn the ABS off only when riding on non-paved surfaces.

EWA21100

Connectivity display



When a connectivity function is active, it will be displayed in area A or B, as shown above, on the main display.

“Phone”, “Music” and “Weather” can be displayed in area A or B.

“Turn by Turn” can only be displayed in area A.

If “Turn by Turn” is displayed in area A then “Phone”, “Music” and “Weather” can only be displayed in area B.

The functions are displayed in the following priority order:

- “Phone” (highest)
- “Turn by Turn”
- “Music”
- “Weather” (lowest)

TIP

- The CCU takes some time to initiate its Bluetooth function after the vehicle power is turned on or the battery is reconnected. Until then, the connectivity items will be greyed out in the side menu.
- Some connectivity features need to be activated on the connected smartphone before they become functional in the side menu.
- Some features may not be available depending on your smartphone and/or OS version.
- Some music, SNS, and other smartphone applications and headset devices may not function and/or display properly.
- The following may interfere with connectivity functions:
 - Smartphone network connection is too busy.
 - The smartphone GPS signal is unstable.

- Bluetooth connection is unstable.
- Too many other devices connected to the smartphone at once.

- Phone calls will override all other functions, and also the menu system, until the call is ended. After a call is ended, the connectivity display will then return to the previously displayed function (if any).
- “Turn by Turn”, “Music”, and “Weather” are activated/deactivated via the menu system.
- Opening the menu system will override area B. When the menu is closed, area B will return to the previously displayed function (if any).

☎ Phone

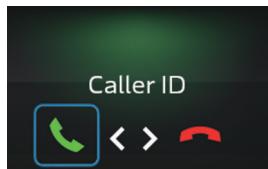
⚠ WARNING

- **Do not use your smartphone while the vehicle is in motion.**
- **Never take your hands off the handlebars while riding.**

EWA21420

Instrument and control functions

- **Always concentrate on riding by keeping your eyes and mind on the road.**
- **Keep volume levels low enough to maintain awareness of your surroundings and ensure safety.**



When a phone call is received to a connected smartphone, the ringtone will play through the connected headset and a telephone function will appear in the connectivity display. Select the green phone icon to answer the call. The phone indicator “☎” will appear for the duration of the call.

Select the red phone icon to reject the call. The phone indicator “☎” will appear.

When a phone call is active, select the red phone icon to end the call.

TIP

- It is recommended to use the vehicle phone function instead of operating the smartphone directly.

Otherwise, it may not display and/or function properly.

- For some smartphones, rejecting a call will not function correctly. The end call icon may be grayed out or using the end call icon will accept the call instead. If an error occurs, select the back icon to exit the error screen.
- If too many contacts are registered in the smartphone, only the phone number may be displayed.

“Turn by Turn”



The Turn by Turn navigation function provides real-time route guidance by displaying essential navigation information on the vehicle's connectivity

display. The areas 1-5, shown above, will display the following information if it is available:

- Estimated time of arrival (area 1): Shows the time of day when the vehicle is expected to reach the destination.
- Estimated travel time remaining (area 2): Displays the remaining travel time until the destination is reached.
- Distance to destination (area 3): Indicates how far the vehicle is from the destination.
- Navigation icon (area 4): Displays an icon indicating the next navigation maneuver (e.g., turn left, turn right).
- Road name (area 5): Displays the name of and distance to the next road or street for the upcoming navigation maneuver, if available.

Navigation must be set using the Yamaha Motorcycle Connect app.

⚠ WARNING

- **Do not use your smartphone while the vehicle is in motion.**

EWA21420

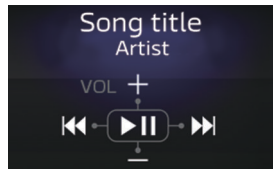
Instrument and control functions

- **Never take your hands off the handlebars while riding.**
- **Always concentrate on riding by keeping your eyes and mind on the road.**
- **Keep volume levels low enough to maintain awareness of your surroundings and ensure safety.**

TIP

Navigation data in the Yamaha Motorcycle Connect app is obtained via Google Maps. Use of Google Maps is subject to your agreement to the Google Maps terms of use. Yamaha shall not be liable for any damages resulting from the use of Google Maps.

“Music”



The music player utilizes your smartphone's audio player app.

While the music player is open, operate the joystick up-down to adjust the volume. Operate the joystick left to skip back and right to skip ahead. Short press “✓” to play/pause.

TIP

- All audio track information is imported from the music player application on your smartphone.
- Depending on the smartphone and music player application, the audio player may start playing automatically, the track information may not display, or the next/previous track and volume adjustment may not function.

“Weather”



Activates local weather information in the connectivity display, showing the following information if it is available: precipitation chance (area 1), weather

type (area 2), location (area 3), temperature (area 4), and windspeed (area 5).

TIP

If navigation is set, the displayed weather information will be for the destination.

See the following chart for the various weather type pictograms and their meanings.

	Sunny
	Partly cloudy
	Mostly cloudy
	Moderate rain
	Moderate snow

Instrument and control functions

5

	Windy
	Storm
	Moderate wintry mix
	Foggy
	Smog
	Hail
	Scattered showers
	Scattered storm

	No data
	Light rain
	Heavy rain
	Light snow
	Heavy snow
	Light wintry mix
	Heavy wintry mix
	Cloudy

	Clear night
	Partly cloudy night
	Mostly cloudy night
	Scattered showers night
	Scattered storm night

Menu system

EAUJA5147

The first layer of the menu system is a pop-up that appears on the bottom of the main display screen. All other menu screens replace the main display screen with a full-screen view. While the menu system is full-screen, the main display items are relocated/hidden as shown:



1. Pop-up menu

To open the pop-up menu from the main display:

Short press the home button “”.

Menu system operation:

- Operate the joystick left-right-up-down to highlight and adjust menu items.
- Short press “” to select an item.
- Short press the home button “” to cancel/return to previous.
- Long press the home button “” to close the menu system.

The menu system is divided into the following main items:

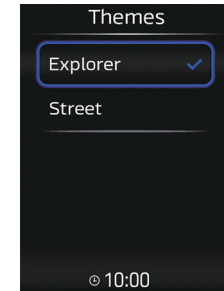
 “Settings”	Adjust settings related to the display's operation. (See page 5-20.)
 “Themes”	Change between display themes. (See page 5-17.)
 “Phone”	Incoming/missed call settings. (See page 5-18.)
 “Message”	Incoming/missed notification settings. (See page 5-18.)
 “Turn by Turn”	Activate Turn by Turn route guidance. (See page 5-19.)
 “Music”	Access simple pop-up audio player. (See page 5-19.)
 “Weather”	View weather information. (See page 5-19.)

 “Grip Warmer” (if equipped)	Control the grip warmers. (See page 5-19.)
---	--

TIP

If a smartphone is not connected to the vehicle, “ Music”, “ Turn by Turn”, “ Weather”, “ Message”, and “ Phone” will be grayed out.

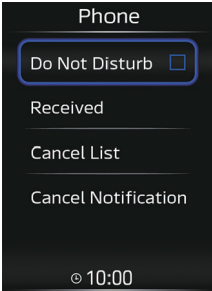
“ Themes”



This menu allows you to switch between display themes. Select a theme and the display will return to the main screen in that theme.

Instrument and control functions

“Phone”



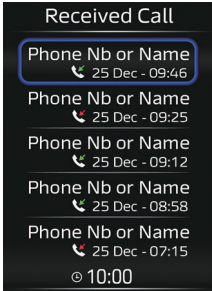
TIP

If a smartphone is not connected to the vehicle, this menu will be grayed out/not accessible.

“Do Not Disturb”

When this item is checked, all incoming call pop-ups are disabled. When a call is received, the phone indicator “📞” will come on to indicate a missed call.

“Received Call”



If a call was accepted, the icon shall be represented by a phone handset with a green arrow. If the call was missed or rejected, the icon shall be represented by a phone handset with a red arrow.

TIP

The “Received Call” list data is cleared every time the vehicle power is turned OFF.

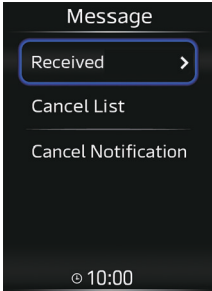
“Cancel List”

Selecting this item clears all data from the “Received Call” list.

“Cancel Notification”

Selecting this item clears the Phone indicator “📞” from the display.

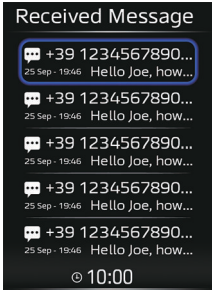
“Message”



TIP

If a smartphone is not connected to the vehicle, this menu will not be grayed out/not accessible.

“Received Message”



Up to 10 push notifications from the connected smartphone can be displayed. Each received notification shows the following information if it is available: date received, time received, sender or app name, the first 15 digits of the notification contents.

TIP

- If too many notifications are received at once, some of them may not show in the list.
- Depending on the smartphone and/or applications, notifications may be disabled or messages displayed on the side menu may differ from the contents on the connected smartphone.
- If the Bluetooth connection is unstable, notifications may be delayed in appearing or may not function properly.
- Time stamps for notifications may differ from the time stamps displayed on the smartphone.
- The “Received Message” list data is cleared every time the vehicle power is turned OFF.

“Cancel List”

Selecting this item clears all data from the “Received Message” list.

“Cancel Notification”

Selecting this item clears the Unread message indicator “” from the display.

“ Turn by Turn”

Activates Turn by Turn route guidance in the connectivity display. (See page 5-14.)

TIP

If navigation is not set in the Yamaha Motorcycle Connect app or if a smartphone is not connected to the vehicle, this item will be grayed out/not accessible.

“ Music”

Activates an audio player in the connectivity display. (See page 5-15.)

TIP

If a smartphone is not connected to the vehicle, this item will be grayed out/not accessible.

“ Weather”

Activates local weather information in the connectivity display. (See page 5-15.)

TIP

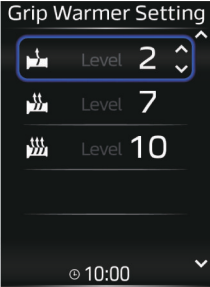
If a smartphone is not connected to the vehicle, this item will be grayed out/not accessible.

“ Grip Warmer” (if equipped)



With this item highlighted, operate the joystick up-down to cycle between grip warmer OFF and 3 presets. Short press “” to access the grip warmer settings screen.

Instrument and control functions



5

TIP The grip warmer settings can only be accessed while the vehicle is stopped.

The 3 grip warmer presets can be customized with temperature levels from 1-10.

1. Highlight a preset and short press “✓” to select the highlighted preset.
2. Operate the joystick up/down to adjust the preset temperature level. Short press “✓” to confirm and deselect the preset.
3. When finished adjusting the settings, short press the home button “🏠” to return to the main display screen.

“Settings”

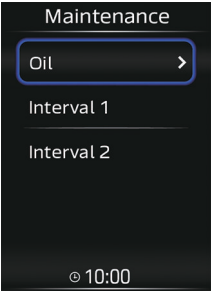


The settings menu is divided into the following modules:

“Maintenance”	Set maintenance trip meters. (See page 5-20.)
“Unit”	Change measurement units. (See page 5-21.)
“Brightness”	Adjust display brightness. (See page 5-21.)
“Clock”	Set clock. (See page 5-21.)
“Quick Shift” (if equipped)	Quick shifter settings. (See page 5-21.)
“All Reset”	Reset system settings. (See page 5-22.)

TIP If the vehicle is not equipped with a quick shifter, “Quick Shift” will be grayed out

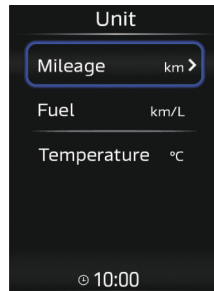
“Maintenance”



This module allows you to record distance traveled between engine oil changes “Oil”, and two other maintenance intervals of your choice “Interval 1” / “Interval 2”.

After maintenance to one of the items has been completed, short press “✓” to select it and then long press “✓” to reset it.

“Unit”

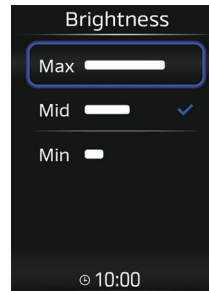


This module allows you to change the measurement units. Each of the three items contain a sub-menu where the desired unit is selected.

TIP

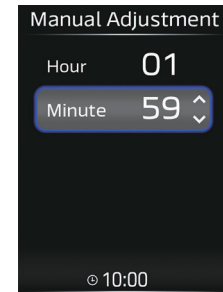
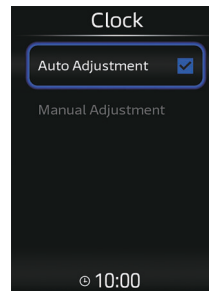
If “mile” is selected as a speed unit, “MPG” will be automatically set as the fuel economy unit and the menu item will be greyed out.

“Brightness”



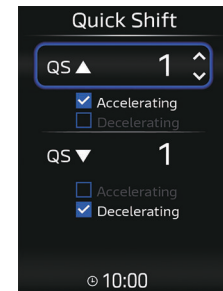
This module allows you to adjust the screen brightness between 3 different levels.

“Clock”



This module allows you to set the 12-hour clock. The hours and minutes are set individually.

“Quick Shift” (if equipped)



The quick shifter is divided into “QS ▲” (upshift) and “QS ▼” (downshift) items. Each item can be adjusted to: OFF, 1 or 2.

Instrument and control functions

Setting 1: Can quick shift only while accelerating (“QS $\triangle$ ”) or decelerating (“QS ∇ ”).

Setting 2: Can quick shift while accelerating or decelerating.

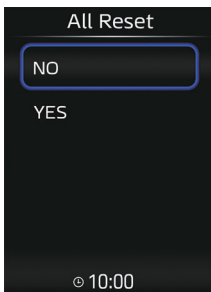
“OFF” turns the respective upshift or downshift function off, and the clutch lever must then be used when shifting in that direction.

5

TIP

“QS $\triangle$ ” / “QS ∇ ” ON/OFF status is reflected by the quick shifter indicator. (See page 5-8.)

“All Reset”

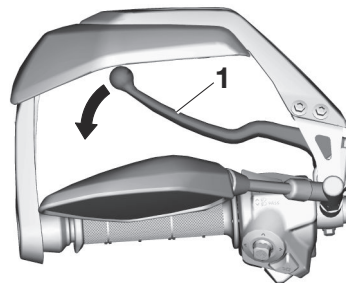


This module allows you to reset all of the following at once: tripmeters (not

including maintenance tripmeters), and all measurement units.

Clutch lever

EAU12823



1. Clutch lever

To disengage the drivetrain from the engine, such as when shifting gears, pull the clutch lever toward to the handlebar. Release the lever to engage the clutch and transmit power to the rear wheel.

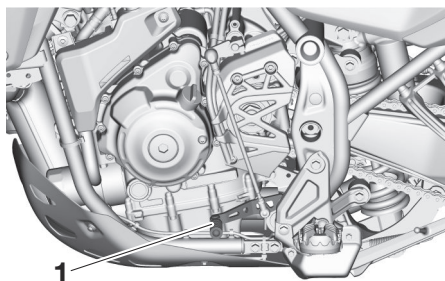
TIP

The lever should be pulled rapidly and released slowly for smooth shifting. (See page 7-3.)

Shift pedal

EAU12876

EAU6040



1. Shift pedal

The shift pedal is located on the left side of the motorcycle. To shift the transmission to a higher gear, move the shift pedal up. To shift the transmission to a lower gear, move the shift pedal down. (See page 7-3.)

Quick shifter (if equipped)

QS allows for clutch lever-less, electronically-assisted shifting. When the sensor on the shift rod detects the appropriate motion in the shift pedal, engine power output is momentarily adjusted to allow for the gear change to occur.

QS does not operate when the clutch lever is pulled, therefore normal shifting can be done even when QS is set to on. Check the quick shifter indicator for current status and usability information.

Quick shifter usability	Indicator
Upshifting OK	QS ▲▼
Downshifting OK	QS ▲▼
Quick shifter cannot be used	QS ▲▼
Quick shifter turned off	QS ▲▼

Upshifting conditions

- Vehicle speed of at least 20 km/h (12 mi/h)
- Engine speed of at least 2100 r/min
- Engine speed sufficiently below the red zone

Downshifting conditions

- Vehicle speed of at least 20 km/h (12 mi/h)
- Engine speed of at least 2000 r/min
- Engine speed sufficiently away from red zone

TIP

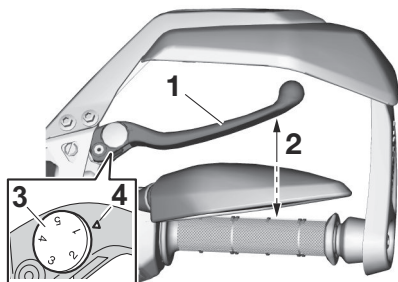
- “QS ▲” and “QS ▼” can be individually set.
- Shifting into or out of neutral must be done using the clutch lever.

Instrument and control functions

EAU26827

Brake lever

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

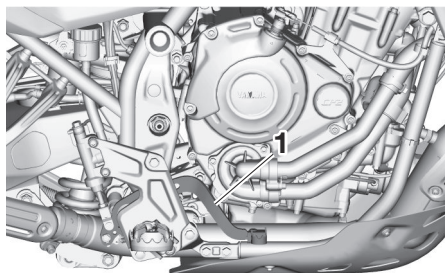


1. Brake lever
2. Distance
3. Brake lever position adjusting dial
4. Match mark

The brake lever is equipped with a brake lever position adjusting dial. To adjust the distance between the brake lever and the throttle grip, push the brake lever away from the throttle grip and rotate the adjusting dial. Make sure the setting number on the adjusting dial aligns with the match mark on the brake lever.

EAU12944

Brake pedal



1. Brake pedal

The brake pedal is located on the right side of the motorcycle. To apply the rear brake, press down on the brake pedal.

EAU90663

ABS

The anti-lock brake system (ABS) acts on the front and rear brakes independently.

EWA16051

WARNING

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

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

How to operate the brakes

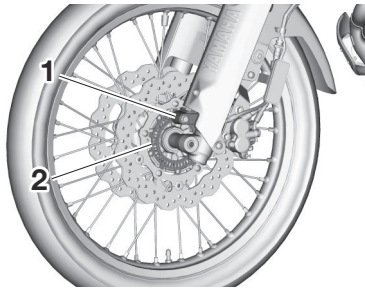
Operate the brake lever and brake pedal the same as you would conventional brakes. If wheel slip is detected while braking, ABS will activate and a pulsating sensation may be felt at the brake lever or brake pedal. Continue to apply the brakes and let the ABS work. Do not pump the brakes as this will reduce braking effectiveness.

- The ABS performs a self-check when you first start off. During this time a clicking noise from the hydraulic unit may be audible, and if the brake lever or brake pedal is applied a vibration can be felt, but this is not a malfunction.
- The brake system will revert to a conventional brake system in case of ABS malfunction.

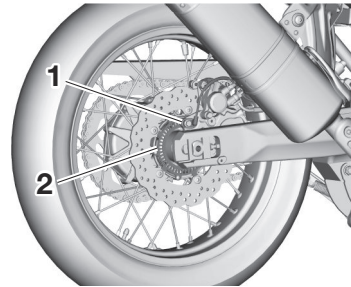
ECA20100

NOTICE

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



1. Front wheel sensor
2. Front wheel sensor rotor



1. Rear wheel sensor
2. Rear wheel sensor rotor

TIP

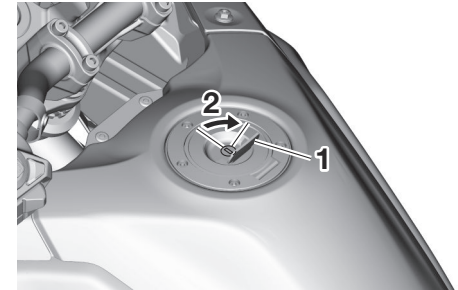
When riding off-road, the ABS can be disabled. (See page 5-12.)

EWA21100

⚠ WARNING

Always ride on paved roads with the ABS turned on. Turn the ABS off only when riding on non-paved surfaces.

Fuel tank cap



1. Fuel tank cap lock cover
2. Unlock.

To remove the fuel tank cap

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

To install the fuel tank cap

1. Push and install the fuel tank cap into position with the key inserted.
2. Turn the key counterclockwise to the original position, and then remove it.

Instrument and control functions

TIP

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

3. Close the lock cover.

EWA11142

! WARNING

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

Fuel

Make sure there is sufficient gasoline in the tank.

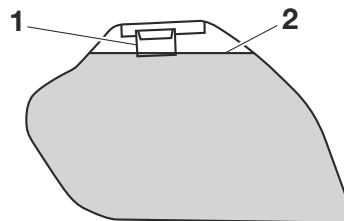
EAU13222

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.

EAU86100

Your Yamaha engine was designed to use regular unleaded gasoline. Confirm the pump octane number $[(R+M)/2]$ method is 86 or higher, or the research octane number (RON) is 91 or higher. If engine knocking or pinging occurs, use a gasoline of a different brand or higher octane rating.

Recommended fuel:

Unleaded gasoline (E10 acceptable)

Octane number (R+M)/2:

86 or higher

Fuel tank capacity:

16 L (4.2 US gal, 3.5 Imp.gal)

Fuel reserve amount:

4.0 L (1.06 US gal, 0.88 Imp.gal)

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.

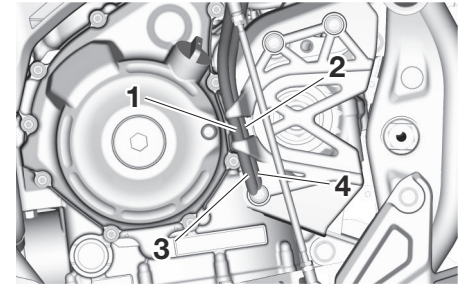
ECA11401

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.

Fuel tank breather hose and overflow hose

EAU86240



1. Fuel tank breather hose
2. Fuel tank overflow hose
3. White mark
4. Blue mark

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.

Catalytic converter

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

EAU13435

EWA10863



WARNING

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

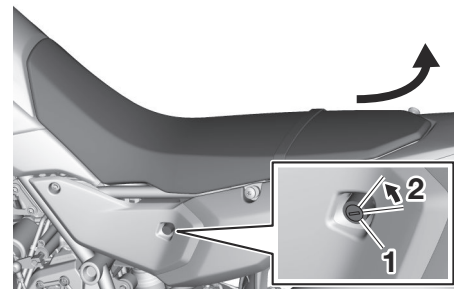
- Do not park the vehicle near possible fire hazards such as grass or other materials that easily burn.
- Park the vehicle in a place where pedestrians or children are not likely to touch the hot exhaust system.
- Make sure that the exhaust system has cooled down before doing any maintenance work.
-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

Seat

EAU32981

To remove the seat

1. Insert the key into the seat lock, and then turn it counterclockwise.



1. Seat lock
2. Unlock.

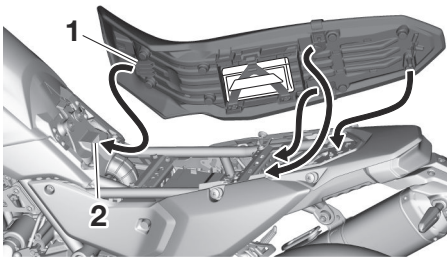
2. While holding the key in that position, lift the rear of the seat up, and then pull the seat off.

To install the seat

1. Insert the projection on the front of the seat into the seat holder as shown.

EAU90940

EAUJ6050



1. Projection
2. Seat holder

2. Push the rear of the seat down to lock it in place.
3. Remove the key.

TIP

Make sure that the seat is properly secured before riding.

Adjusting the headlight beams

The headlight beam can be adjusted to raise or lower the height of the headlight beams. It may be necessary to adjust the headlight beams to increase visibility and help prevent blinding oncoming drivers when carrying more or less load than usual. Obey local laws and regulations concerning headlight adjustment.

If headlights require adjustment, consult a Yamaha dealer.

Adjusting the front fork

WARNING

Always adjust both fork legs equally, otherwise poor handling and loss of stability may result.

This front fork is equipped with spring preload adjuster, rebound damping force adjuster and compression damping force adjuster.

ECA10102

NOTICE

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

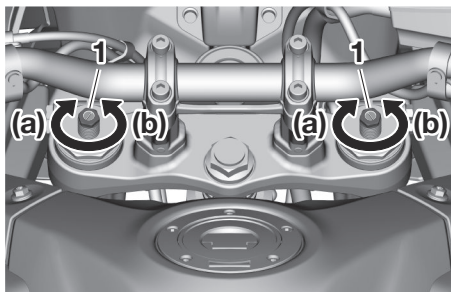
Spring preload

Turn the adjuster in direction (a) to increase the spring preload.

Turn the adjuster in direction (b) to decrease the spring preload.

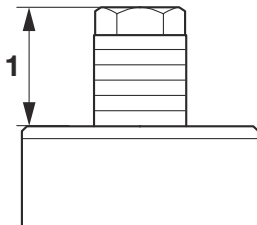
Instrument and control functions

5



1. Spring preload adjuster

The spring preload setting is determined by measuring distance A, shown in the illustration. The shorter distance A is, the higher the spring preload; the longer distance A is, the lower the spring preload.



1. Distance A

Spring preload setting:

Minimum (soft):

Distance A = 19.0 mm (0.75 in)

Standard:

Distance A = 19.0 mm (0.75 in)

Maximum (hard):

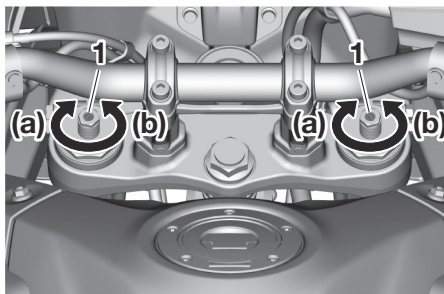
Distance A = 4.0 mm (0.16 in)

Rebound damping force

Turn the adjuster in direction (a) to increase the rebound damping force.

Turn the adjuster in direction (b) to decrease the rebound damping force.

To set the rebound damping force, turn the adjuster in direction (a) until it stops, and then count the clicks in direction (b).



1. Rebound damping force adjuster

Rebound damping setting:

Minimum (soft):

23 click(s) in direction (b)

Standard:

18 click(s) in direction (b)

Maximum (hard):

0 click(s) in direction (b)

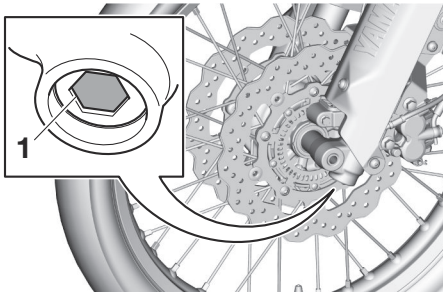
TIP

- When turning the damping force adjuster in direction (a), the 0 click position and the 1 click position may be the same.
- When turning the damping force adjuster in direction (b), it may click beyond the stated specifications, however such adjustments are ineffective and may damage the suspension.

Compression damping force

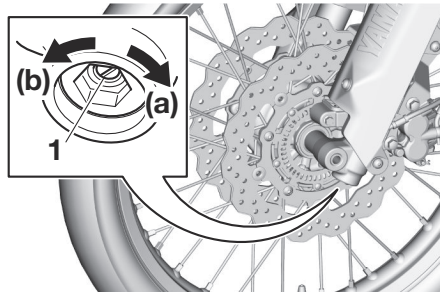
1. Remove the rubber cap by pulling it out of the front fork leg.

effective and may damage the suspension.



1. Rubber cap

2. Turn the adjuster in direction (a) to increase the compression damping force. Turn the adjuster in direction (b) to decrease the compression damping force. To set the compression damping force, turn the adjuster in direction (a) until it stops, and then count the clicks in direction (b).



1. Compression damping force adjuster

Compression damping setting:

Minimum (soft):

19 click(s) in direction (b)

Standard:

11 click(s) in direction (b)

Maximum (hard):

0 click(s) in direction (b)

3. Install the rubber cap.

TIP

- When turning the damping force adjuster in direction (a), the 0 click position and the 1 click position may be the same.
- When turning the damping force adjuster in direction (b), it may click beyond the stated specifications, however such adjustments are in-

Instrument and control functions

Front fork bleeding

EAU14796

When riding in extremely rough conditions, the air temperature and pressure in the front fork will rise and harden the suspension. If this occurs, bleed the air from each fork leg.

EWA10201

WARNING

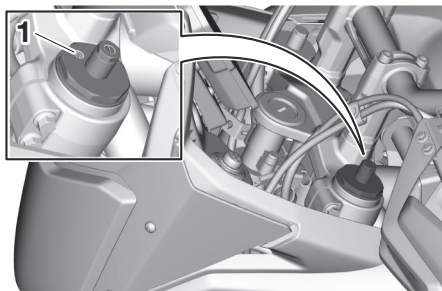
Always bleed both fork legs, otherwise poor handling and loss of stability may result.

1. If possible, elevate the vehicle so the front wheel is off the ground. (See page 8-34.)

TIP

When bleeding the front fork, do not apply any pressure or weight on the front end of the vehicle.

2. Remove the bleed screws and allow all of the air to escape from each fork leg.



1. Bleed screw
3. Install the bleed screws.
4. Lower the front wheel so that it is on the ground, and then put the sidestand down.

Adjusting the shock absorber assembly

EAUM4121

This shock absorber assembly is equipped with a spring preload adjuster and rebound and compression damping force adjusters.

ECA10102

NOTICE

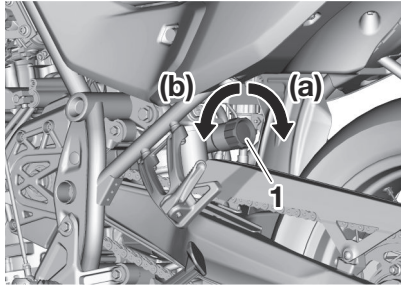
To avoid damaging the mechanism, do not attempt to turn beyond the maximum or minimum settings.

Spring preload

Turn the adjuster in direction (a) to increase the spring preload.

Turn the adjuster in direction (b) to decrease the spring preload.

To set the spring preload, turn the adjuster in direction (b) until it stops, and then count the clicks in direction (a).



1. Spring preload adjuster

Spring preload setting:

Unit for adjustment:

Click

Minimum (soft):

0

Standard:

10

Maximum (hard):

24

TIP

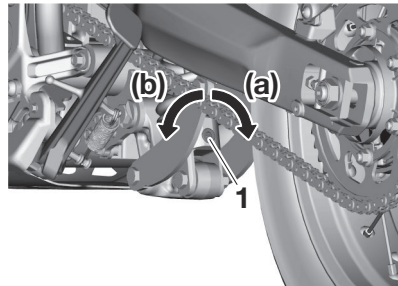
- When turning the spring preload adjuster in direction (b), the 0 click position and the 1 click position may be the same.
- When turning the spring preload adjuster in direction (a), it may click beyond the stated specifications, however such adjustments are in-

effective and may damage the suspension.

Rebound damping force

Turn the adjuster in direction (a) to increase the rebound damping force. Turn the adjuster in direction (b) to decrease the rebound damping force.

To set the rebound damping force, turn the adjuster in direction (a) until it stops, and then count the clicks in direction (b).



1. Rebound damping force adjuster

Rebound damping setting:

Unit for adjustment:

Click

Minimum (soft):

21

Standard:

11

Maximum (hard):

0

TIP

- When turning the damping force adjuster in direction (a), the 0 click position and the 1 click position may be the same.
- When turning the damping force adjuster in direction (b), it may click beyond the stated specifications, however such adjustments are ineffective and may damage the suspension.

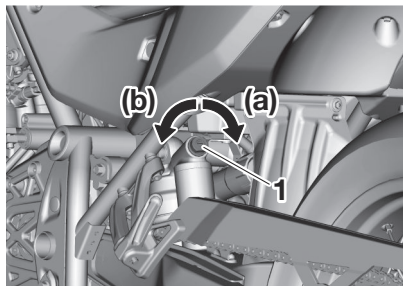
Compression damping force

Turn the adjuster in direction (a) to increase the compression damping force.

Turn the adjuster in direction (b) to decrease the compression damping force.

Instrument and control functions

To set the compression damping force, turn the adjuster in direction (a) until it stops, and then count the clicks in direction (b).



1. Compression damping force adjuster

Compression damping setting:

Unit for adjustment:

Click

Minimum (soft):

21

Standard:

14

Maximum (hard):

0

TIP

- When turning the damping force adjuster in direction (a), the 0 click

position and the 1 click position may be the same.

- When turning the damping force adjuster in direction (b), it may click beyond the stated specifications, however such adjustments are ineffective and may damage the suspension.

WARNING

EWA10222

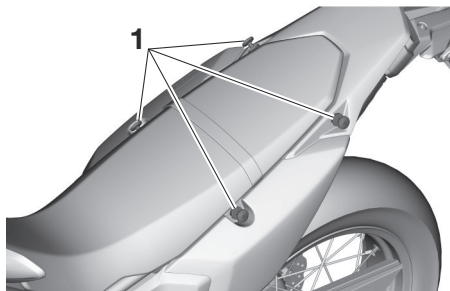
This shock absorber assembly contains highly pressurized nitrogen gas. Read and understand the following information before handling the shock absorber assembly.

- 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.**

Luggage strap holders

EAU84680



1. Luggage strap holder

Use the indicated strap points to secure luggage ties to the vehicle.

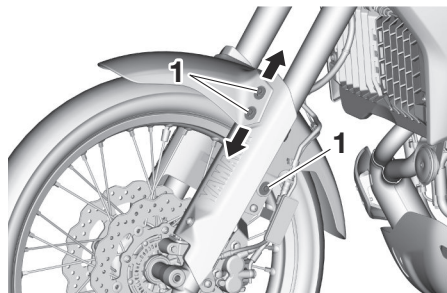
Front fender

EAUM4130

To suit the riding conditions, the front fender height can be adjusted.

To adjust the front fender height

1. Loosen the bolts on each side of the front fender.



1. Bolt

2. Move the front fender to the desired height.
3. Tighten the bolts to the specified torque.

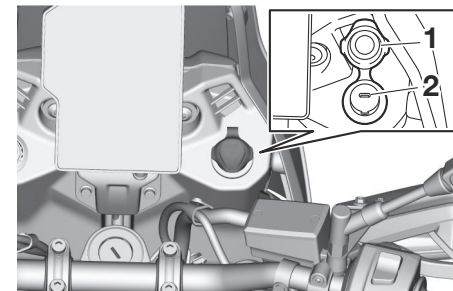
Tightening torque:

Front fender bolt:
8 N·m (0.8 kgf·m, 5.9 lb·ft)

USB Type-C jack

EAUA1832

This model is equipped with a 5 V (3 A) USB Type-C jack. The USB Type-C jack can be used when the main switch is on.



1. USB jack cap
2. USB Type-C jack

TIP

- Do not use the USB Type-C jack when the engine is off or it will drain the battery.
- Under some conditions, the device battery level may drop even while the USB is plugged in.

Instrument and control functions

5

NOTICE

ECA28531

EAU15306

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

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.

EAUJA1271

Ignition circuit cut-off system

This system prevents in-gear engine starts unless the clutch lever is pulled and the sidestand is up. Also, it will stop the running engine should the sidestand be lowered while the transmission is in gear.

Periodically check this system via the following procedure.

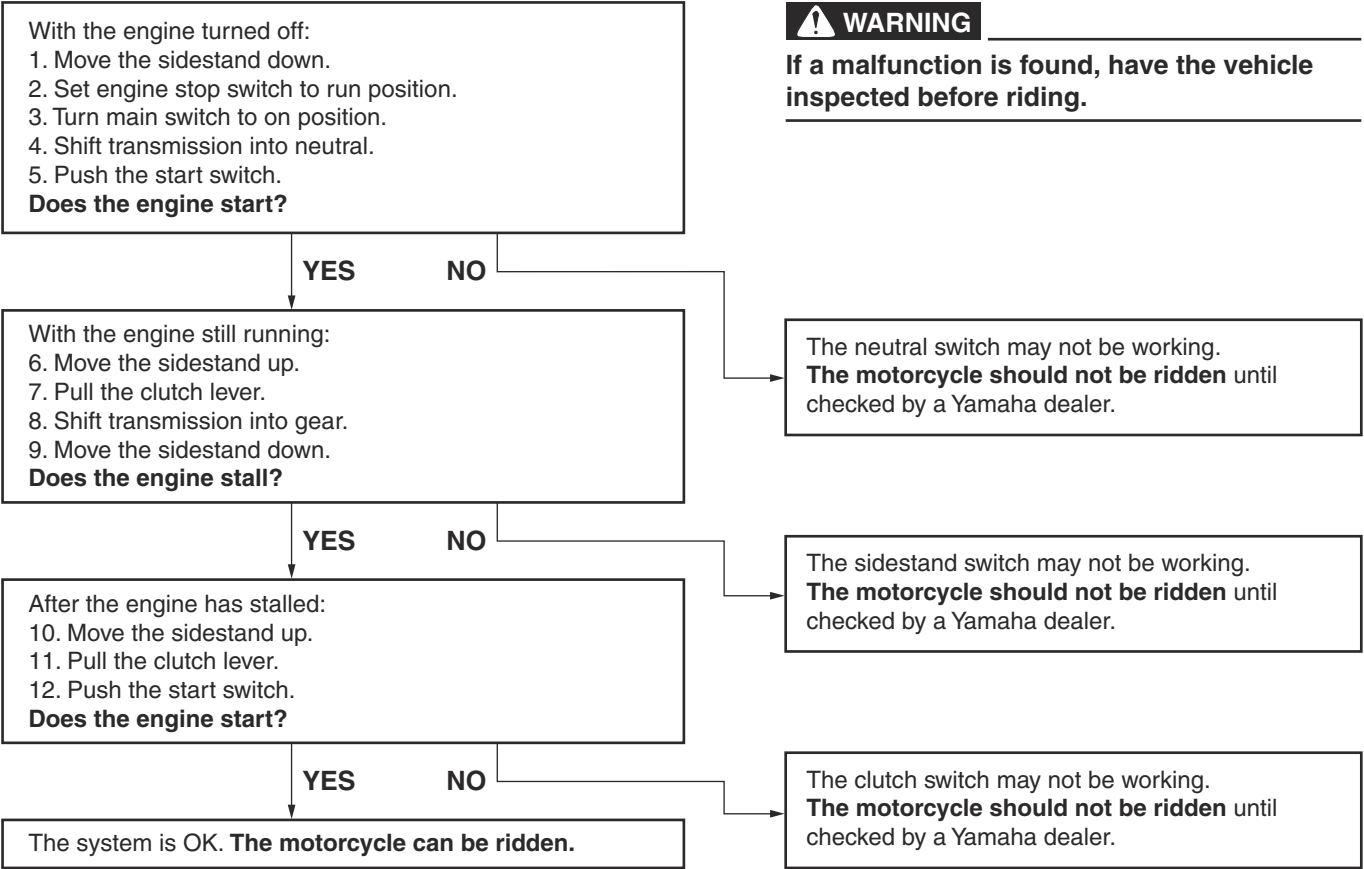
TIP

- This check is most reliable if performed with a warmed-up engine.
- See pages 5-1 and 5-2 for switch operation information.

Instrument and control functions

EAUA1280

5



For your safety – pre-operation checks

EAU1559B

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

EWA11152

 WARNING

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

Before using this vehicle, check the following points:

ITEM	CHECKS	PAGE
Fuel	• Check fuel level in fuel tank. • Refuel if necessary. • Check fuel line for leakage. • Check breather hose for obstructions, cracks or damage, and check hose connections.	5-26, 5-27
Engine oil	• Check oil level in engine. • If necessary, add recommended oil to specified level. • Check vehicle for oil leakage.	8-9
Coolant	• Check coolant level in reservoir. • If necessary, add recommended coolant to specified level. • Check cooling system for leakage.	8-13
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.	8-21, 8-22

For your safety – pre-operation checks

ITEM	CHECKS	PAGE
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.	8-21, 8-22
Clutch	• Check operation. • Lubricate cable if necessary. • Check lever free play. • Adjust if necessary.	8-20
Throttle grip	• Check for smooth rotation and automatic return.	8-26
Control cables	• Make sure that operation is smooth. • Lubricate if necessary.	8-26
Drive chain	• Check chain slack. • Adjust if necessary. • Check chain condition. • Lubricate if necessary.	8-24, 8-25
Wheels and tires	• Check for damage. • Check tire condition and tread depth. • Check air pressure. • Correct if necessary.	8-17, 8-19
Brake and shift pedals	• Make sure that operation is smooth. • Lubricate pedal pivoting points if necessary.	8-27
Brake and clutch levers	• Make sure that operation is smooth. • Lubricate lever pivoting points if necessary.	8-27
Sidestand	• Make sure that operation is smooth. • Lubricate pivot if necessary.	8-28
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.	—

For your safety – pre-operation checks

ITEM	CHECKS	PAGE
Sidestand switch	• Check operation of ignition circuit cut-off system. • If system is not working correctly, have Yamaha dealer check vehicle.	5-36

Operation and important riding points

EAU15952

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

EWA10272



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

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.

EAU16842

1000–1600 km (600–1000 mi)

Avoid prolonged operation above 5600 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.
-

EAU17094

0–1000 km (0–600 mi)

Avoid prolonged operation above 4700 r/min. **NOTICE:** After 1000 km (600 mi) of operation, the engine oil must be changed and the oil filter cartridge or element replaced.^[ECA10303]

Starting the engine

The ignition circuit cut-off system will enable starting when:

- the transmission is in the neutral position or
- the transmission is in gear, the sidestand is up, and the clutch lever is pulled.

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 then go off. (See page 5-5.)

TIP

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

NOTICE

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

3. Shift the transmission into the neutral position.
4. Start the engine by pushing 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!

TIP

This model is equipped with:

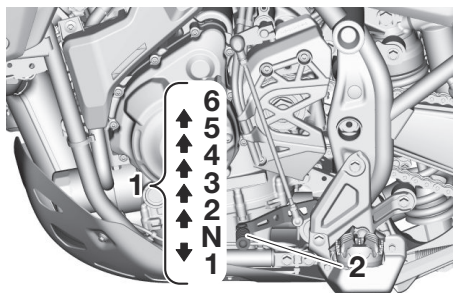
- a lean angle sensor. This sensor stops the engine in case of a vehicle turnover. If this happens, the engine trouble warning light will come on, but this is not a malfunction. Turn the vehicle power off and then back on again to cancel the warning light. Failing to do so will prevent the engine from starting even though the engine will crank when pushing the start switch.
- an engine auto-stop system. The engine stops automatically if left idling for 20 minutes. If the engine stops, simply push the start switch to restart the engine.

Operation and important riding points

Shifting

EAU16675

ECA10262



1. Gear positions

2. Shift pedal

7

Shifting gears lets you control the amount of engine power available for starting off, accelerating, climbing hills, etc.

The gear positions are shown in the illustration.

TIP

To shift the transmission into the neutral position (**N**), press the shift pedal down repeatedly until it reaches the end of its travel, and then slightly raise it.

NOTICE

- When shifting, press the shift pedal firmly until you feel the gear shift is complete.
- Even with the transmission in the neutral position, do not coast for long periods of time with the engine off, nor tow the motorcycle for long distances. The transmission is properly lubricated only when the engine is running. Inadequate lubrication may damage the transmission.
- Always use the clutch while changing gears to avoid damaging the engine, transmission, and drive train, which are not designed to withstand the shock of forced shifting.

EAUJA5300

To start out and accelerate

1. Pull the clutch lever to disengage the clutch.
2. Shift the transmission into first gear.

3. Open the throttle gradually, and at the same time, release the clutch lever slowly.
4. At the recommended shift points shown in the following table, close the throttle, and at the same time, quickly pull the clutch lever in.
5. Shift the transmission into second gear. (Make sure not to shift the transmission into the neutral position.)
6. Open the throttle part way and gradually release the clutch lever.
7. Follow the same procedure when shifting to the next higher gear.

TIP

When shifting gears in normal operating conditions, use the recommended shift points.

EAUJA5320

To decelerate

1. Release the throttle and apply both the front and the rear brakes smoothly to slow the motorcycle.
2. As the vehicle decelerates, shift to a lower gear.

- When the engine is about to stall or runs roughly, pull the clutch lever in, use the brakes to slow the motorcycle, and continue to down-shift as necessary.
- Once the motorcycle has stopped, the transmission can be shifted into the neutral position and then the clutch lever can be released.

EWA17380

WARNING

- **Improper braking can cause loss of control or traction. Always use both brakes and apply them smoothly.**
- **Make sure that the motorcycle and the engine have sufficiently slowed before shifting to a lower gear. Engaging a lower gear when the vehicle or engine speed is too high could make the rear wheel lose traction or the engine to over-rev. This could cause loss of control, an accident and injury. It could also cause engine or drive train damage.**

Recommended shift points

The recommended shift points during acceleration and deceleration are shown in the table below.

Shift up points:

1st → 2nd: 20 km/h (12 mph)
2nd → 3rd: 30 km/h (19 mph)
3rd → 4th: 40 km/h (25 mph)
4th → 5th: 50 km/h (31 mph)
5th → 6th: 60 km/h (37 mph)

Shift down points:

6th → 5th: 45 km/h (28 mph)
5th → 4th: 35 km/h (22 mph)
4th → 3rd: 25 km/h (16 mph)

EAU64150

Parking

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

EAU17214

EWA10312

WARNING

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

Periodic maintenance and adjustment

EAU17246

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

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

EWA10322

WARNING

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

EWA15123

WARNING

Turn off the engine when performing maintenance unless otherwise specified.

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

EWA15461

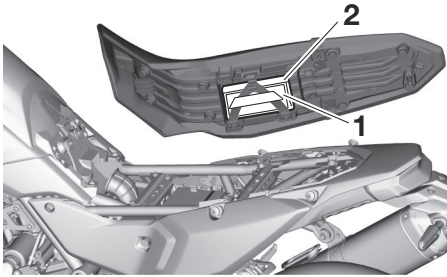
WARNING

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

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.

EAUM4512

Tool kit



1. Tool kit
2. Storage pouch

The tool kit is in the location shown. Always be sure to install the pouch in the seat base compartment, then the tool kit and secure it by passing the band through the tool kit loop.

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

TIP

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

Periodic maintenance and adjustment

EAU48501

TIP

- From 37000 km (24000 mi) or 36 months, repeat the maintenance intervals starting from 13000 km (8000 mi) or 12 months.
- Items marked with an asterisk require special tools, data and technical skills, have a Yamaha dealer perform the service.

EAU17612

Periodic maintenance chart for the emission control system

No.		ITEM	ROUTINE	INITIAL	ODOMETER READINGS					
				1000 km (600 mi) or 1 month	7000 km (4000 mi) or 6 months	13000 km (8000 mi) or 12 months	19000 km (12000 mi) or 18 months	25000 km (16000 mi) or 24 months	31000 km (20000 mi) or 30 months	
1	*	Fuel line	• Check fuel hoses for cracks or damage. • Replace if necessary.		√	√	√	√	√	
2	*	Spark plugs	• Check condition. • Adjust gap and clean.		√		√		√	
			• Replace.			√		√		
3		Spark arrester	• Clean.		√	√	√	√	√	
4	*	Valve clearance	• Check and adjust valve clearance when engine is cold.	Every 42000 km (26600 mi)						
5	*	Crankcase breather system	• Check breather hose for cracks or damage. • Replace if necessary.		√	√	√	√	√	
6	*	Fuel injection	• Adjust synchronization.	√	√	√	√	√	√	
7	*	Exhaust system	• Check for leakage. • Tighten if necessary. • Replace gasket(s) if necessary.	√	√	√	√	√	√	

Periodic maintenance and adjustment

EAU67567

General maintenance and lubrication chart

No.	ITEM	ROUTINE	INITIAL	ODOMETER READINGS					
			1000 km (600 mi) or 1 month	7000 km (4000 mi) or 6 months	13000 km (8000 mi) or 12 months	19000 km (12000 mi) or 18 months	25000 km (16000 mi) or 24 months	31000 km (20000 mi) or 30 months	
1	*	Diagnostic system check	• Perform dynamic inspection using Yamaha diagnostic tool. • Check the error codes.	√	√	√	√	√	√
2		Air filter element	• Replace.	Every 19000 km (12000 mi)					
3		Air filter check hose	• Clean.	√	√	√	√	√	√
4	*	Clutch	• Check operation. • Adjust or replace cable.	√	√	√	√	√	√
5	*	Front brake	• Check operation, fluid level, and for fluid leakage. • Replace brake pads if necessary.	√	√	√	√	√	√
6	*	Rear brake	• Check operation, fluid level, and for fluid leakage. • Replace brake pads if necessary.	√	√	√	√	√	√
7	*	Brake hoses	• Check for cracks or damage. • Check for correct routing and clamping.		√	√	√	√	√
			• Replace.	Every 4 years					
8	*	Brake fluid	• Change.	Every 2 years					
9	*	Wheels	• Check runout, spoke tightness and for damage. • Tighten spokes if necessary.	√	√	√	√	√	√
10	*	Tires	• Check tread depth and for damage. • Replace if necessary. • Check air pressure. • Correct if necessary.		√	√	√	√	√

Periodic maintenance and adjustment

No.	ITEM	ROUTINE	INITIAL	ODOMETER READINGS					
			1000 km (600 mi) or 1 month	7000 km (4000 mi) or 6 months	13000 km (8000 mi) or 12 months	19000 km (12000 mi) or 18 months	25000 km (16000 mi) or 24 months	31000 km (20000 mi) or 30 months	
11	*	Wheel bearings	- Check bearings for smooth operation. - Replace if necessary.	√	√	√	√	√	
12	*	Swingarm pivot bearings	- Check operation and for excessive play. - Moderately repack with lithium-soap-based grease.	√	√	√	√	√	
13		Drive chain	- Check chain slack, alignment and condition. - Adjust and lubricate chain with a special O-ring chain lubricant thoroughly.	Every 1000 km (600 mi) and after washing the motorcycle, riding in the rain or riding in wet areas					
14	*	Steering bearings	- Check bearing assemblies for looseness. - Moderately repack with lithium-soap-based grease.	√	√	√	√	√	√
15	*	Chassis fasteners	- Check all chassis fitting and fasteners. - Correct if necessary.	√	√	√	√	√	√
16		Brake lever pivot shaft	Apply silicone grease lightly.	√	√	√	√	√	√
17		Brake pedal pivot shaft	Apply lithium-soap-based grease lightly.	√	√	√	√	√	√
18		Clutch lever pivot shaft	Apply lithium-soap-based grease lightly.	√	√	√	√	√	√
19		Shift pedal pivot shaft	Apply lithium-soap-based grease lightly.	√	√	√	√	√	√

Periodic maintenance and adjustment

No.	ITEM	ROUTINE	INITIAL	ODOMETER READINGS					
			1000 km (600 mi) or 1 month	7000 km (4000 mi) or 6 months	13000 km (8000 mi) or 12 months	19000 km (12000 mi) or 18 months	25000 km (16000 mi) or 24 months	31000 km (20000 mi) or 30 months	
20		Sidestand pivot	• Check operation. • Apply molybdenum disulfide grease lightly.		√	√	√	√	√
21	*	Sidestand switch	• Check operation and replace if necessary.	√	√	√	√	√	√
22	*	Front fork	• Check operation and for oil leakage. • Replace if necessary.		√	√	√	√	√
23	*	Shock absorber assembly	• Check operation and for oil leakage. • Replace if necessary.		√	√	√	√	√
24	*	Rear suspension link pivots	• Apply lithium-soap-based grease lightly.	Every 19000 km (12000 mi)					
25		Engine oil	• Change (warm engine before draining).	√	√	√	√	√	√
26		Engine oil filter cartridge	• Replace.	√		√		√	
27	*	Cooling system	• Check coolant level and vehicle for coolant leakage.		√	√	√	√	√
			• Change coolant.	Every 3 years					
28	*	Front and rear brake switches	• Check operation.	√	√	√	√	√	√
29	*	Control cables	• Apply Yamaha cable lubricant or other suitable cable lubricant thoroughly.	√	√	√	√	√	√
30	*	Throttle grip	• Check operation. • Lubricate throttle grip housing tube guides.		√	√	√	√	√

Periodic maintenance and adjustment

No.	ITEM	ROUTINE	INITIAL	ODOMETER READINGS				
			1000 km (600 mi) or 1 month	7000 km (4000 mi) or 6 months	13000 km (8000 mi) or 12 months	19000 km (12000 mi) or 18 months	25000 km (16000 mi) or 24 months	31000 km (20000 mi) or 30 months
31	* Lights, signals and switches	• Check operation. • Adjust headlight beam.	√	√	√	√	√	√

EAU17653

TIP

- Air filter
 - This model uses a disposable oil-coated paper element. This element cannot be cleaned with compressed air, doing so will only damage it.
 - Replace the air filter more frequently if you often ride in the rain or dusty conditions.
- Hydraulic brake service
 - Regularly check the brake fluid levels. Replenish as necessary.
 - Every two years replace the internal components of the brake master cylinders and calipers, and change the brake fluid.
 - Replace the brake hoses every four years or sooner if cracked or damaged.

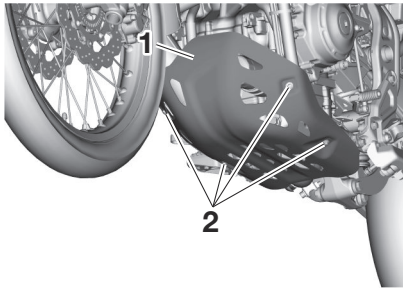
EAUJA6060

Removing and installing the engine guard

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

To remove the engine guard

Remove the bolts and washers, and then take the engine guard off.



1. Engine guard
2. Bolt and washer

To install the engine guard

Place the engine guard in the original position, and then install the washers

and tighten the bolts to the specified torque.

Tightening torque:

Engine guard:
11 N·m (1.1 kgf·m, 8.1 lb·ft)

EAU19653

Checking the spark plugs

The spark plugs are important engine components, which should be checked periodically, preferably by a Yamaha dealer. Since heat and deposits will cause any spark plug to slowly erode, they should be removed and checked in accordance with the periodic maintenance and lubrication chart. In addition, the condition of the spark plugs can reveal the condition of the engine.

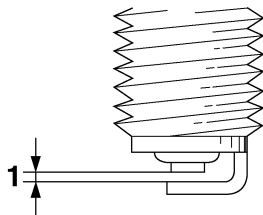
The porcelain insulator around the center electrode of each spark plug should be a medium-to-light tan (the ideal color when the vehicle is ridden normally), and all spark plugs installed in the engine should have the same color. If any spark plug shows a distinctly different color, the engine could be operating improperly. Do not attempt to diagnose such problems yourself. Instead, have a Yamaha dealer check the vehicle.

If a spark plug shows signs of electrode erosion and excessive carbon or other deposits, it should be replaced.

Specified spark plug:
NGK/LMAR8A-9

Periodic maintenance and adjustment

Before installing a spark plug, the spark plug gap should be measured with a wire thickness gauge and, if necessary, adjusted to specification.



1. Spark plug gap

8

Spark plug gap:

0.8–0.9 mm (0.031–0.035 in)

Clean the surface of the spark plug gasket and its mating surface, and then wipe off any grime from the spark plug threads.

Tightening torque:

Spark plug:

13 N·m (1.3 kgf·m, 9.6 lb·ft)

TIP

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

ECA10841

NOTICE

Do not use any tools to remove or install the spark plug cap, otherwise the ignition coil coupler may get damaged. The spark plug cap may be difficult to remove because the rubber seal on the end of the cap fits tightly. To remove the spark plug cap, simply twist it back and forth while pulling it out; to install it, twist it back and forth while pushing it in.

Engine oil and oil filter cartridge

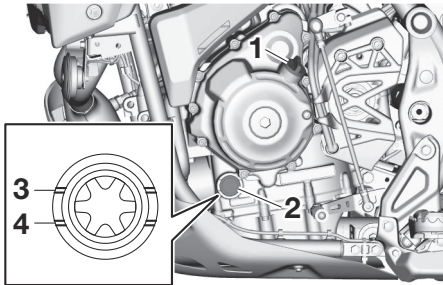
EAUA5452

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

To check the engine oil level

1. Place the vehicle on a level surface and hold it in an upright position. 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 for the oil level to settle for an accurate reading, and then check the oil level through the engine oil level check window.

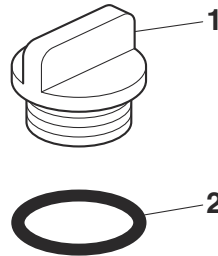
Periodic maintenance and adjustment



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

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

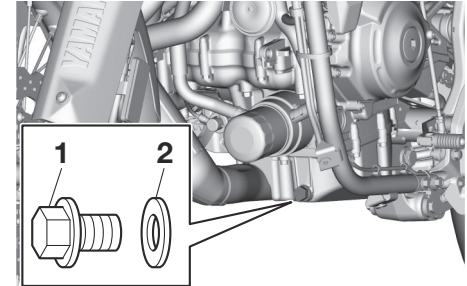
TIP _____
Check the O-ring for damage, and replace it if necessary.



1. Engine oil filler cap
2. O-ring

To change the engine oil (and replace the filter)

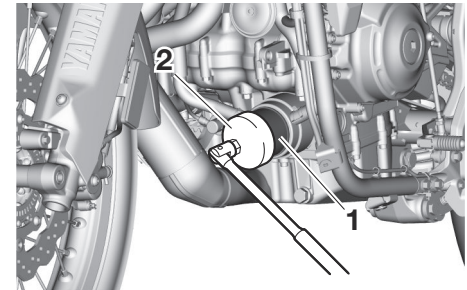
1. Place the vehicle on a level surface.
2. Remove engine guard. (See page 8-8.)
3. Start the engine, warm it up for several minutes, and then turn it off.
4. Place an oil pan under the engine to collect the used oil.
5. Remove the engine oil filler cap, the engine oil drain bolt and its gasket to drain the oil from the crankcase.



1. Engine oil drain bolt
2. Gasket

TIP _____
Skip steps 6–8 if the oil filter cartridge is not being replaced.

6. Remove the oil filter cartridge with an oil filter wrench.



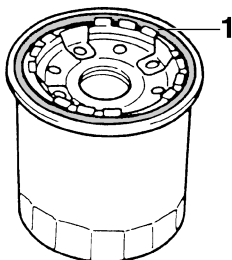
1. Oil filter cartridge

Periodic maintenance and adjustment

2. Oil filter wrench

TIP
An oil filter wrench is available at a Yamaha dealer.

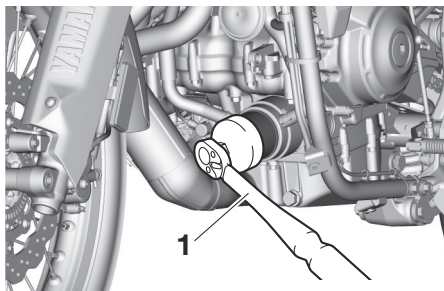
7. Apply a thin coat of clean engine oil to the O-ring of the new oil filter cartridge.



1. O-ring

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

8. Install the new oil filter cartridge with an oil filter wrench, and then tighten it to the specified torque with a torque wrench.



1. Torque wrench

Tightening torque:
Oil filter cartridge:
17 N·m (1.7 kgf·m, 13 lb·ft)

9. Install the engine oil drain bolt and its new gasket, and then tighten the bolt to the specified torque.

Tightening torque:
Engine oil drain bolt:
43 N·m (4.3 kgf·m, 32 lb·ft)

10. Refill with the specified amount of the recommended engine oil.

Recommended engine oil:

See page 10-1.

Oil quantity:

Oil change:

2.30 L (2.43 US qt, 2.02 Imp. qt)

With oil filter removal:

2.60 L (2.75 US qt, 2.29 Imp. qt)

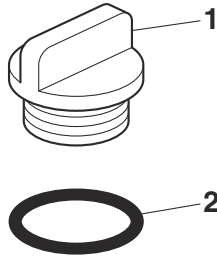
TIP
Be sure to wipe off spilled oil on any parts after the engine and exhaust system have cooled down.

ECA11621

NOTICE

- In order to prevent clutch slip-page (since the engine oil also lubricates the clutch), do not mix any chemical additives. Do not use oils with a diesel specification of "CD" or oils of a higher quality than specified. In addition, do not use oils labeled "ENERGY CONSERVING II" or higher.
- Make sure that no foreign material enters the crankcase.

11. Check the O-ring for damage, and replace it if necessary.



1. Engine oil filler cap

2. O-ring

12. Install and tighten the engine oil filler cap.

13. Install the engine guard.

14. 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.

TIP

After the engine is started, the oil pressure warning indicator should go off.

ECA28850

NOTICE

If the oil pressure warning indicator flickers or remains on even if the oil level is correct, immediately turn the

engine off and have a Yamaha dealer check the vehicle.

15. Turn the engine off, wait a few minutes for the oil level to settle for an accurate reading, and then check the oil level and correct it if necessary.

Why Yamalube

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

YAMALUBE®

Periodic maintenance and adjustment

Coolant

The coolant level should be checked regularly. In addition, the coolant must be changed at the intervals specified in the periodic maintenance chart.

Recommended coolant:

YAMALUBE coolant

Coolant quantity:

Coolant reservoir (max level mark):

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

Radiator (including all routes):

1.61 L (1.70 US qt, 1.42 Imp.qt)

TIP

If genuine Yamaha coolant is not available, use an ethylene glycol antifreeze containing corrosion inhibitors for aluminum engines and mix with distilled water at a 1:1 ratio.

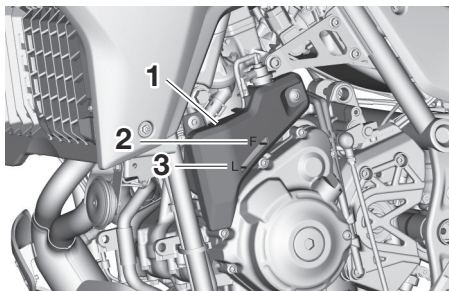
To check the coolant level

Since the coolant level varies with engine temperature, check when the engine is cold.

1. Park the vehicle on a level surface.

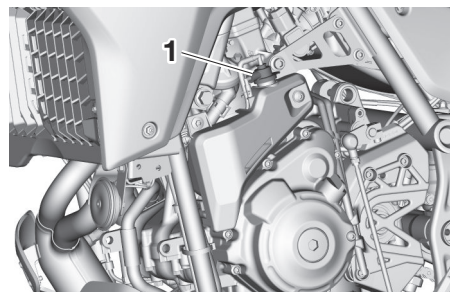
EAUS1203

2. With the vehicle in an upright position, look at the coolant level in the reservoir.



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

3. If the coolant is at or below the minimum level mark, remove the coolant reservoir cap. **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 to the maximum level mark. **NOTICE:** If coolant is not available, use distilled water or soft tap water instead. Do not use hard water or salt water since it is harmful to the engine. If water has been used instead of coolant, replace it with coolant as soon as possible, otherwise the cooling system will not be protected against frost and corrosion. If water has been added to the coolant, have a Yamaha dealer check the anti-freeze content of the coolant as soon as possible, otherwise the effectiveness of the coolant will be reduced.^[ECA10473]

EAU20097

Periodic maintenance and adjustment

5. Install the coolant reservoir cap.

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]

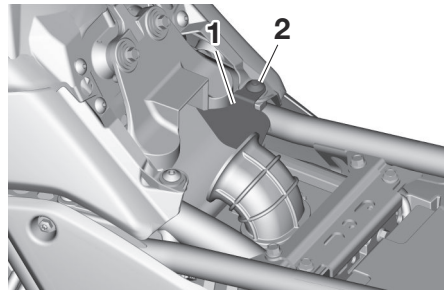
Replacing the air filter element and cleaning the check hose

EAU45522

The air filter element must be replaced at the intervals specified in the periodic maintenance chart. Replace the air filter element more frequently if you often ride in the rain or dusty areas. In addition, the air filter check hose should be frequently checked and cleaned if necessary.

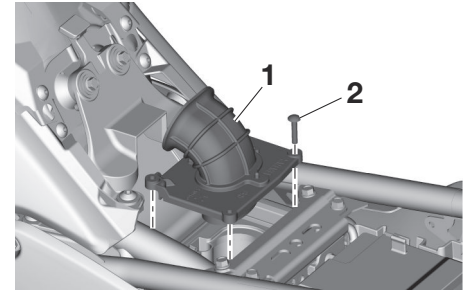
To replace the air filter element

1. Remove the seat. (See page 5-28.)
2. Remove the plate by removing the screw.



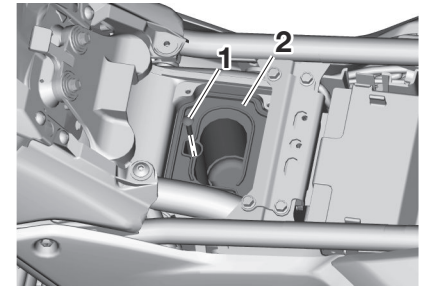
1. Plate
2. Screw

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



1. Air filter case cover
2. Screw

4. Remove the screw securing the air filter element and then pull it out.



1. Screw
2. Air filter element

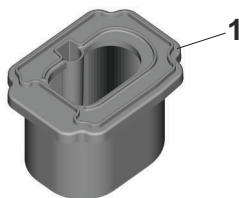
Periodic maintenance and adjustment

5. Check the air filter for damage or dirt and replace it if necessary.

ECA21220

NOTICE

- The air filter element must be replaced at the intervals specified in the periodic maintenance chart.
- The air filter element should be replaced more frequently if you often ride in the rain or dusty areas.
- The air filter cannot be cleaned by blowing it with compressed air. It must be replaced.

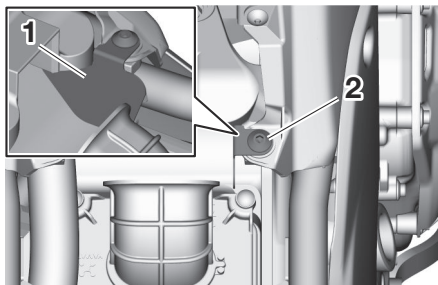


1. Air filter element

6. Insert the air filter element into the air filter case and secure it with the

screw. **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]

7. Install the air filter case cover by installing the screws.
8. Install the plate, aligned as shown, and secure it with the screw.



1. Plate
2. Screw

ECA28860

NOTICE

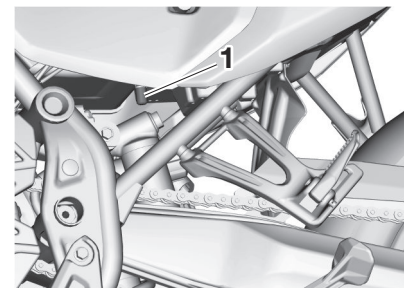
Make sure that the plate is installed and aligned correctly, otherwise wa-

ter may enter the air filter case and cause damage to the engine.

9. Install the seat.

To clean the air filter check hose

1. Remove the air filter check hose under the air filter case.



1. Air filter check hose
2. Remove the hose, clean it, and then install it in its original position.

Periodic maintenance and adjustment

Cleaning the spark arrester

EAUJA5470

The spark arrester should be cleaned at the intervals specified in the periodic maintenance chart.

EWA10981

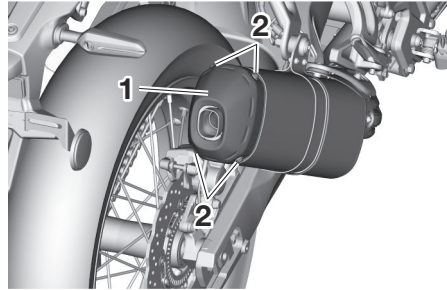
WARNING

- Always let the exhaust system cool prior to touching exhaust components.
- Do not start the engine when cleaning the exhaust system.

TIP

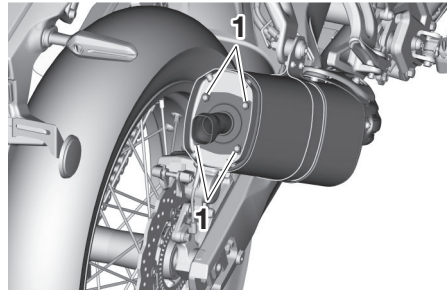
Make sure to select a well-ventilated area free of combustible materials to clean the spark arrester.

1. Remove the spark arrester cap by removing the spark arrester cap bolts.



1. Spark arrester cap
2. Spark arrester cap bolt

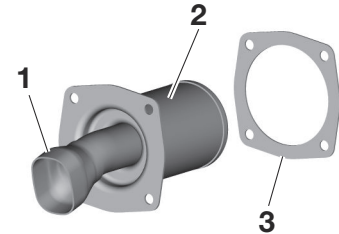
2. Remove the tailpipe nuts.



1. Nut

3. Remove the tailpipe by pulling it out of the muffler, and then remove the gasket.

4. Tap the tailpipe lightly, and then use a wire brush to remove any carbon deposits from the spark arrester portion of the tailpipe and inside of the tailpipe housing.



1. Tailpipe
2. Spark arrester
3. Gasket

5. Install the gasket, and then insert the tailpipe into the muffler and align the bolt holes.
6. Install the tailpipe nuts and tighten them to the specified torque.

Tightening torque:

Tailpipe nut:
9 N·m (0.9 kgf·m, 6.6 lb·ft)

7. Install the spark arrester cap.

Periodic maintenance and adjustment

8. Install the spark arrester cap bolts and tighten them to the specified torque.

Tightening torque:
spark arrester cap bolt:
10 N·m (1.0 kgf·m, 7.4 lb·ft)

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.

EAU21403

EAU90931

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:

Front:

220 kPa (2.20 kgf/cm², 32 psi)

Rear:

250 kPa (2.50 kgf/cm², 36 psi)

Maximum load:

Vehicle:

186 kg (410 lb)

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

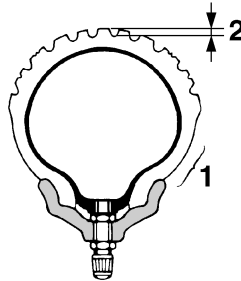
EWA10512



WARNING

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

Tire inspection



1. Tire sidewall
2. Tire tread depth

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

Minimum tire tread depth (front and rear):

1.0 mm (0.04 in)

TIP

The tire tread depth limit may differ from province to province. Always comply with the local regulations.



WARNING

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

Tire information

This model is equipped with tube tires. Tires age, even if they have not been used or have only been used occasionally. Cracking of the tread and sidewall rubber, sometimes accompanied by carcass deformation, is an evidence of ageing. Old and aged tires shall be

Periodic maintenance and adjustment

checked by tire specialists to ascertain their suitability for further use.

EWA10462

WARNING

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

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

Front tire:

Size:

90/90-21 M/C 54V M+S A

Manufacturer/model:

PIRELLI/SCORPION RALLY STR

Rear tire:

Size:

150/70 R18 M/C 70V M+S

Manufacturer/model:

PIRELLI/SCORPION RALLY STR

Spoke wheels

EAU21945

To maximize the performance, durability, and safe operation of the vehicle, note the following points.

- Check each wheel for cracks, deformation and other damage. If any damage is found, have the wheel inspected by your Yamaha dealer. Do not attempt to repair or straighten a bent or damaged wheel.
- Check the spokes for looseness. If any loose spokes are found, have the wheel adjusted by your Yamaha dealer. Improperly tightened spokes can cause wheel misalignment.
- Have the wheel balanced whenever the tire or tube has been replaced. An unbalanced wheel can result in adverse handling characteristics and shortened tire life.

EWA10611

WARNING

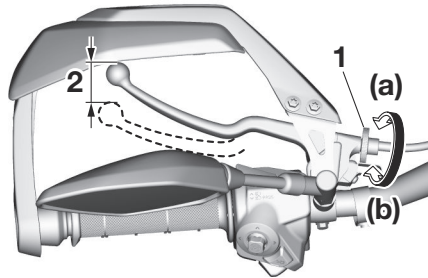
The wheels on this model are not designed for use with tubeless tires. Do

not attempt to use tubeless tires on this model.

EAU33893

Adjusting the clutch lever free play

Measure the clutch lever free play as shown.



1. Clutch lever free play adjusting bolt
2. Clutch lever free play

Clutch lever free play:

5.0–10.0 mm (0.20–0.39 in)

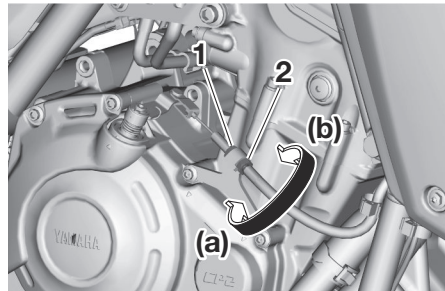
Periodically check the clutch lever free play and, if necessary, adjust it as follows.

To increase the clutch lever free play, turn the clutch lever free play adjusting bolt at the clutch lever in direction (a). To decrease the clutch lever free play, turn the adjusting bolt in direction (b).

TIP

If the specified clutch lever free play cannot be obtained as described above, proceed as follows.

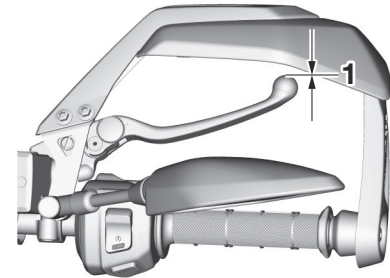
1. Fully turn the adjusting bolt at the clutch lever in direction (a) to loosen the clutch cable.
2. Loosen the locknut at the crankcase.



1. Locknut
2. Clutch lever free play adjusting nut
3. To increase the clutch lever free play, turn the clutch lever free play adjusting nut in direction (a). To decrease the clutch lever free play, turn the adjusting nut in direction (b).
4. Tighten the locknut.

EAU37914

Checking the brake lever free play



1. No brake lever free play

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

EWA14212

⚠ WARNING

A soft or spongy feeling in the brake lever can indicate the presence of air in the hydraulic system. If there is air in the hydraulic system, have a Yamaha dealer bleed the system before operating the vehicle. Air in the hydraulic system will diminish the

Periodic maintenance and adjustment

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

Brake light switches

The brake light should come on just before braking takes effect. The brake light is activated by switches connected to the brake lever and brake pedal. Since the brake light switches are components of the anti-lock brake system, they should only be serviced by a Yamaha dealer.

EAU36505

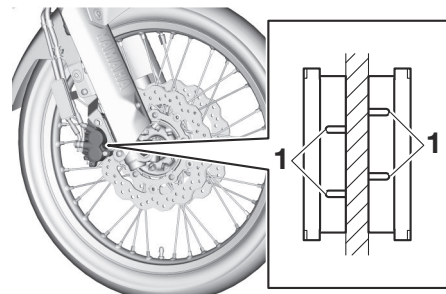
Checking the front and rear brake pads

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

EAU22393

Front brake pads

EAU22434



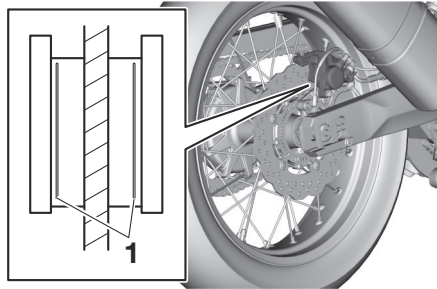
1. Brake pad wear indicator groove

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

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

Rear brake pads

EAU46292



1. Brake pad wear indicator groove

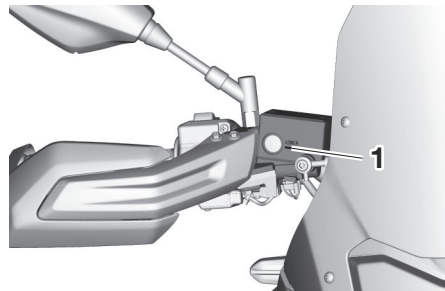
Each rear brake pad is provided with wear indicator grooves, which allow you to check the brake pad wear without having to disassemble the brake. To check the brake pad wear, check the wear indicator grooves. If a brake pad has worn to the point that a wear indicator groove almost appears, have a Yamaha dealer replace the brake pads as a set.

Checking the brake fluid level

EAU40262

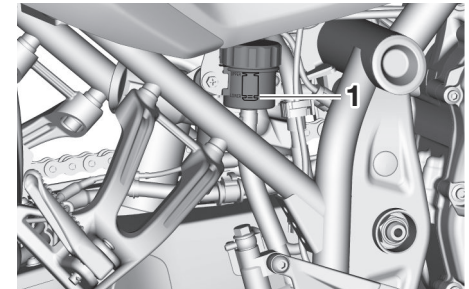
Before riding, check that the brake fluid is above the minimum level mark. Check the brake fluid level with the top of the reservoir level. Replenish the brake fluid if necessary.

Front brake



1. Minimum level mark

Rear brake



1. Minimum level mark

Specified brake fluid:
DOT 4

EWA16011

WARNING

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

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

Periodic maintenance and adjustment

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

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

ECA17641

NOTICE

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

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

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

Drive chain slack

The drive chain slack should be checked before each ride and adjusted if necessary.

EAU22762

To check the drive chain slack

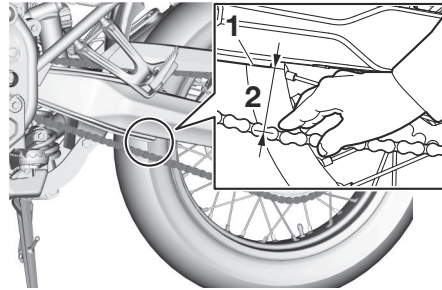
EAU60046

1. Place the motorcycle on the side-stand.

TIP

When checking and adjusting the drive chain slack, there should be no weight on the motorcycle.

2. Shift the transmission into the neutral position.
3. Push down on the drive chain under the end of the drive chain guard.
4. Measure distance A between the drive chain guard and the center of the chain as shown.



1. Drive chain guide
2. Distance A

Distance A:

43.0–48.0 mm (1.69–1.89 in)

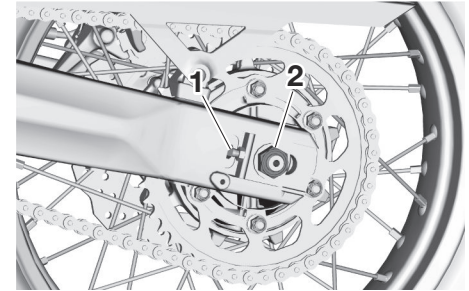
5. If distance A is incorrect, adjust it as follows. **NOTICE: Improper drive chain slack will overload the engine as well as other vital parts of the motorcycle and can lead to chain slippage or breakage. If distance A is more than 55.0 mm (2.16 in), the chain can damage the frame, swingarm, and other parts. To prevent this from occurring, keep the drive chain slack within the specified limits.**^[ECA23070]

To adjust the drive chain slack

EAU74260

Consult a Yamaha dealer before adjusting the drive chain slack.

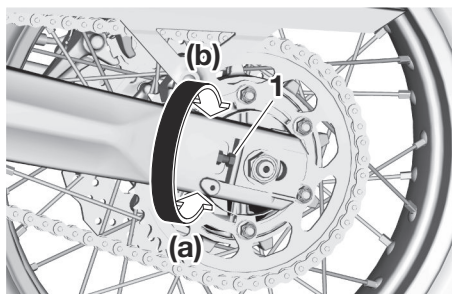
1. Loosen the axle nut and the locknut on each side of the swingarm.



1. Locknut
2. Axle nut

2. To tighten the drive chain, turn the drive chain slack adjusting bolt on each side of the swingarm in direction (a). To loosen the drive chain, turn the adjusting bolt on each side of the swingarm in direction (b), and then push the rear wheel forward.

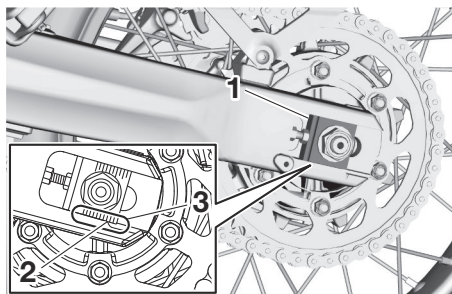
Periodic maintenance and adjustment



1. Drive chain slack adjusting bolt

TIP

Using the alignment marks on each side of the swingarm, make sure that both drive chain pullers are in the same position for proper wheel alignment.



1. Drive chain puller
2. Position indicator

3. Alignment marks

3. Tighten the axle nut, then the locknuts to their specified torques.

Tightening torques:

Axle nut:

105 N·m (10.5 kgf·m, 77 lb·ft)

Locknut:

16 N·m (1.6 kgf·m, 12 lb·ft)

4. Make sure that the drive chain pullers are in the same position, the drive chain slack is correct, and the drive chain moves smoothly.

EAU23027

Cleaning and lubricating the drive chain

The drive chain must be cleaned and lubricated at the intervals specified in the periodic maintenance and lubrication chart, otherwise it will quickly wear out, especially when riding in dusty or wet areas. Service the drive chain as follows.

ECA10584

NOTICE

The drive chain must be lubricated after washing the motorcycle, riding in the rain or riding in wet areas.

1. Clean the drive chain with a drive chain cleaner and a small soft brush. **NOTICE:** To prevent damaging the O-rings, do not clean the drive chain with steam cleaners, high-pressure washers or inappropriate solvents.

[ECA11122]

2. Wipe the drive chain dry.
3. Thoroughly lubricate the drive chain with a special O-ring chain lubricant. **NOTICE:** Do not use engine oil or any other lubricants

for the drive chain, as they may contain substances that could damage the O-rings.^[ECA11112]

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

EAU82490

Checking and lubricating the throttle grip

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

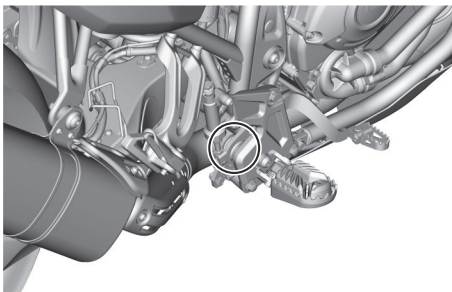
Periodic maintenance and adjustment

Checking and lubricating the brake and shift pedals

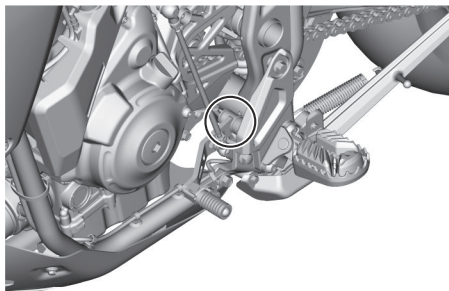
EAU44276

The operation of the brake and shift pedals should be checked before each ride, and the pedal pivots should be lubricated if necessary.

Brake pedal



Shift pedal



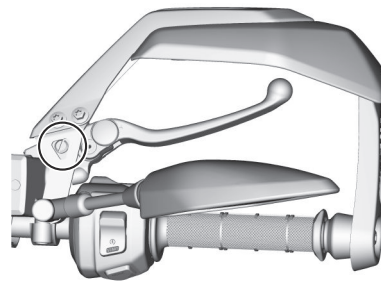
Recommended lubricant:
Lithium-soap-based grease

Checking and lubricating the brake and clutch levers

EAU23145

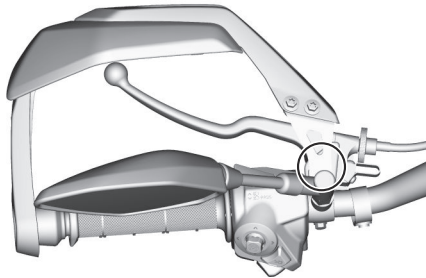
The operation of the brake and clutch levers should be checked before each ride, and the lever pivots should be lubricated if necessary.

Brake lever



Periodic maintenance and adjustment

Clutch lever

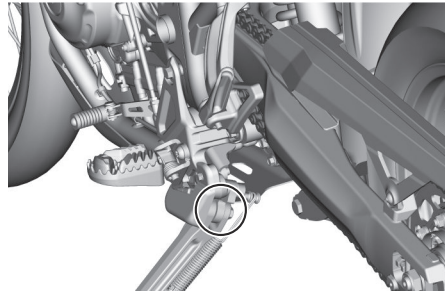


Recommended lubricants:

- Brake lever:
Silicone grease
- Clutch lever:
Lithium-soap-based grease

Checking and lubricating the sidestand

EAU89101



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

EWA10732

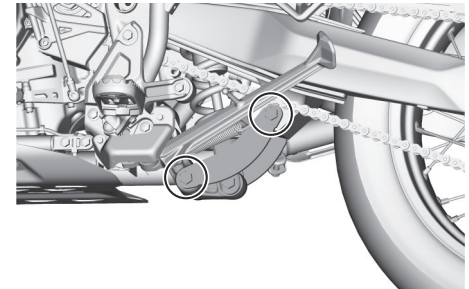
WARNING

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

Recommended lubricant:
Molybdenum disulfide grease

Lubricating the rear suspension

EAU23252



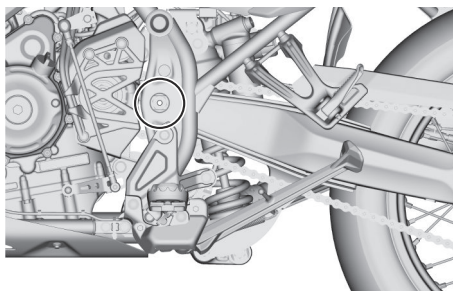
The pivoting points of the rear suspension must be lubricated by a Yamaha dealer at the intervals specified in the periodic maintenance and lubrication chart.

Recommended lubricant:
Lithium-soap-based grease

Periodic maintenance and adjustment

Lubricating the swingarm pivots

EAUM1653



The swingarm pivots must be lubricated by a Yamaha dealer at the intervals specified in the periodic maintenance and lubrication chart.

Recommended lubricant:
Lithium-soap-based grease

Checking the front fork

EAU23273

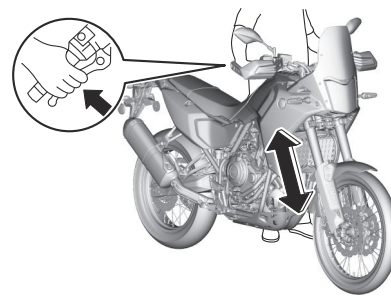
The condition and operation of the front fork must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart.

To check the condition

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

To check the operation

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



ECA10591

NOTICE

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

EAU23285

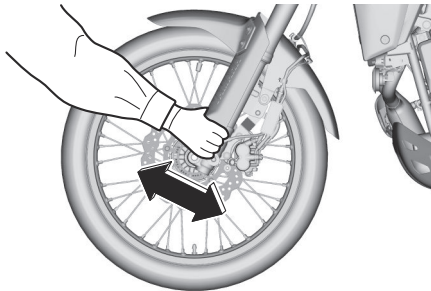
Checking the steering

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. Raise the front wheel off the ground. (See page 8-34.)

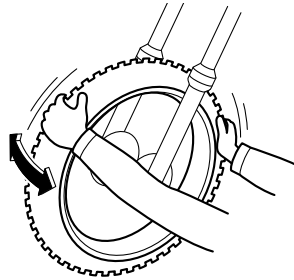
WARNING! To avoid injury, securely support the vehicle so there is no danger of it falling over.^[EWA10752]

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.

EAUJA5500

Battery

The battery is located under the seat. (See page 5-28.)

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

EWA10761

WARNING

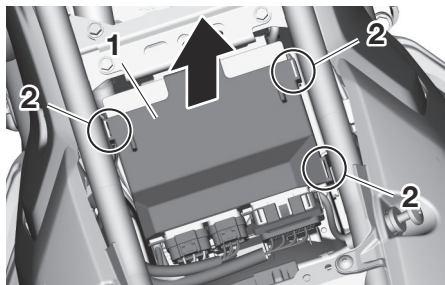
- **Electrolyte is poisonous and dangerous since it contains sulfuric acid, which causes severe burns. Avoid any contact with skin, eyes or clothing and always shield your eyes when working near batteries. In case of contact, administer the following FIRST AID.**
 - **EXTERNAL:** Flush with plenty of water.
 - **INTERNAL:** Drink large quantities of water or milk and immediately call a physician.

Periodic maintenance and adjustment

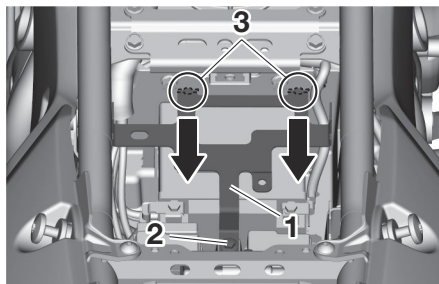
- **EYES:** Flush with water for 15 minutes and seek prompt medical attention.
- **Batteries produce explosive hydrogen gas. Therefore, keep sparks, flames, cigarettes, etc., away from the battery and provide sufficient ventilation when charging it in an enclosed space.**
- **KEEP THIS AND ALL BATTERIES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

To remove the battery

1. Remove the seat. (See page 5-28.)
2. Pull the ECU assembly upward to remove the band from the plate projections.

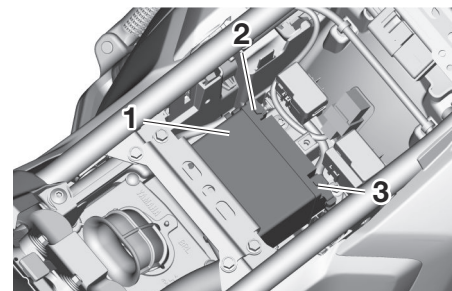


1. Band
2. Projection
3. Remove the plate by removing the bolt and then sliding the plate out from the slots.



1. Plate
2. Bolt
3. Slot
4. First, disconnect the negative battery lead, and then the positive battery lead.

5. Remove the battery.



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

TIP

For installation, reverse the removal procedure.

To charge the battery

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

ECA16522

NOTICE

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

To store the battery

1. If the vehicle will not be used for more than one month, remove the battery, fully charge it, and then place it in a cool, dry place. **NOTICE: When removing the battery, be sure to turn the main switch off, then disconnect the negative lead before disconnecting the positive lead.** [ECA16304]
2. If the battery will be stored for more than two months, check it at least once a month and fully charge it if necessary.
3. Fully charge the battery before installation. **NOTICE: When installing the battery, be sure to turn the main switch off, then connect the positive lead before**

connecting the negative lead.

[ECA16842]

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

ECA16531

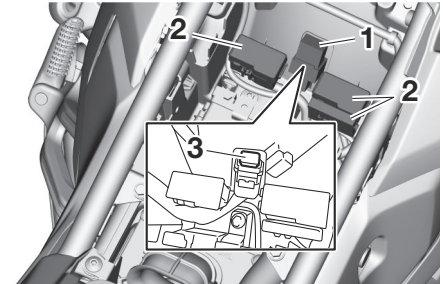
NOTICE

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

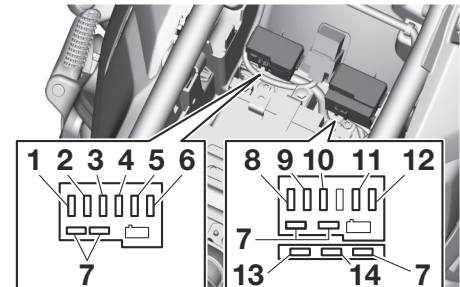
EAUJA5511

Replacing the fuses

The main fuse and the fuse boxes, which contain the fuses for the individual circuits, are located under the seat and ECU. (page 5-28/8-30)



1. Cap
2. Fuse box
3. Main fuse



Periodic maintenance and adjustment

1. Ignition fuse
2. Headlight fuse
3. ABS control unit fuse
4. Ignition fuse 2
5. Signaling system fuse
6. Terminal fuse
7. Spare fuse
8. Fuel injection system fuse
9. Electronic throttle valve fuse
10. Backup fuse 2 (for ECU)
11. Backup fuse
12. Radiator fan motor fuse
13. ABS solenoid fuse
14. ABS motor fuse

If a fuse is blown, replace it as follows.

1. Turn the main switch to “OFF” and turn off the electrical circuit in question.
2. Remove the blown fuse, and then install a new fuse of the specified amperage. **WARNING! Do not use a fuse of a higher amperage rating than recommended to avoid causing extensive damage to the electrical system and possibly a fire.**^[EWA15132]

Specified fuses:

Main fuse:
50.0 A
Terminal fuse 1:
5.0 A
Headlight fuse:
7.5 A
Signaling system fuse:
7.5 A
Ignition fuse:
10.0 A
Ignition fuse 2:
7.5 A
Radiator fan motor fuse:
15.0 A
ABS motor fuse:
30.0 A
ABS solenoid fuse:
15.0 A
Fuel injection system fuse:
10.0 A
ABS control unit fuse:
7.5 A
Backup fuse:
7.5 A
Backup fuse 2:
15.0 A
Electronic throttle valve fuse:
7.5 A

3. Turn the main switch to “ON” and turn on the electrical circuit in

question to check if the device operates.

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

Vehicle lights

EAU80380

Except for the license plate light bulb, this model's lights are all LED.

If an LED light does not come on, check the fuses and then have a Yamaha dealer check the vehicle. If the license plate light does not come on, check and replace the bulb. (See page 8-34.)

ECA16581

NOTICE

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

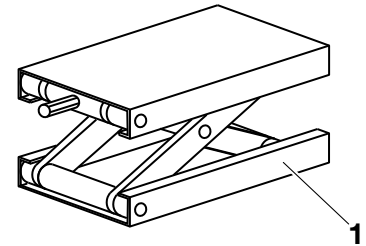
License plate light

EAU24331

If the license plate light does not come on, have a Yamaha dealer check the electrical circuit or replace the bulb.

Supporting the motorcycle

EAUA6070



1. Motorcycle jack

Since this model is not equipped with a centerstand, use a motorcycle jack when removing the front or rear wheel or when performing other maintenance that requires the motorcycle to stand upright.

To elevate the vehicle

1. Remove engine guard. (See page 8-8.)
2. If necessary, insert a piece of wood between the motorcycle jack and the engine crankcase. Then lift the vehicle just enough to raise the wheels from the ground.

NOTICE: Do not lift the

Periodic maintenance and adjustment

motorcycle from under the skid plate or by the frame sub-members.^[EGAM1190]

3. Confirm that the vehicle is in a stable and level position before starting any maintenance.

Troubleshooting

Although Yamaha motorcycles 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 motorcycle require any repair, take it to a Yamaha dealer, whose skilled technicians have the necessary tools, experience, and know-how to service the motorcycle 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.



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

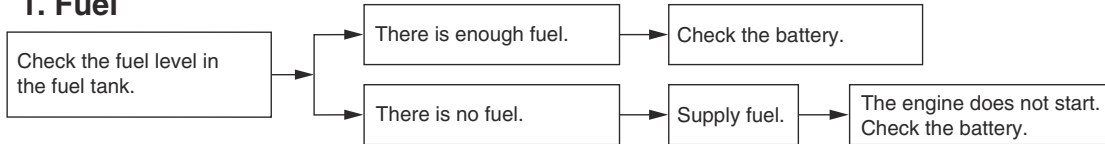
EAU25873

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

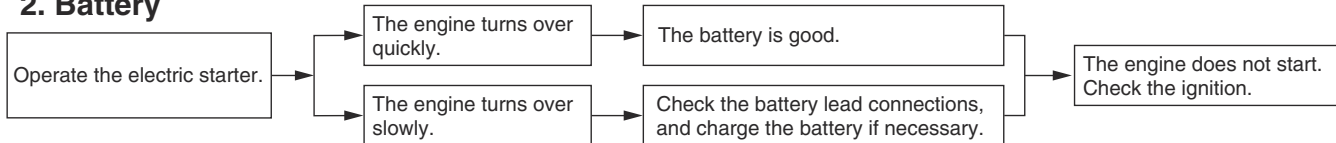
EWA15142

Troubleshooting chart

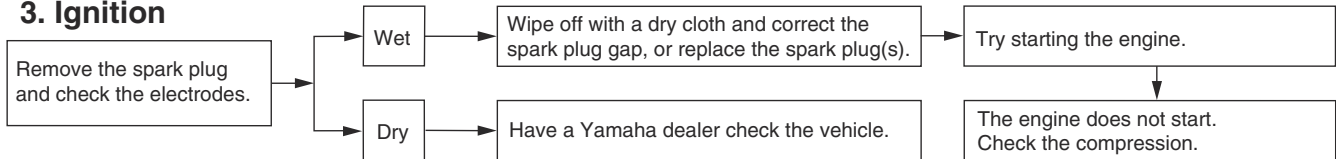
1. Fuel



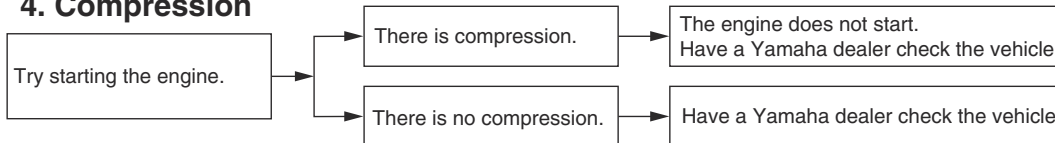
2. Battery



3. Ignition



4. Compression



Periodic maintenance and adjustment

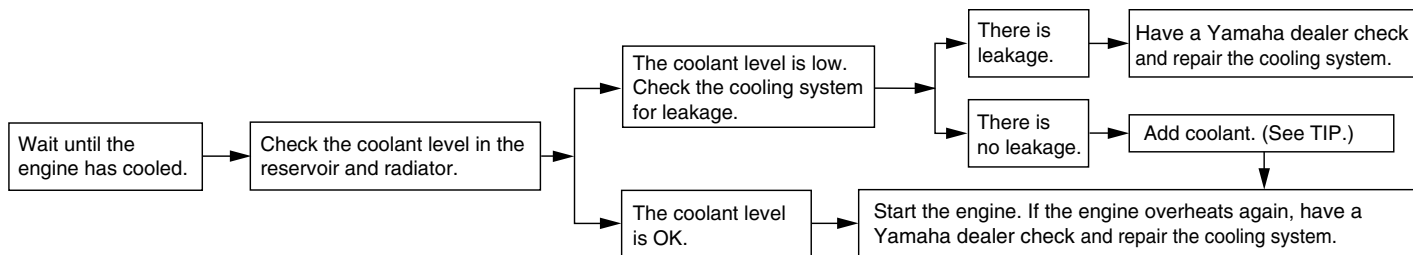
EAU86420

Engine overheating

EWAT1041

WARNING

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



TIP

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

Matte color caution

EAU37834

EAU83446

NOTICE

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

ECA15193

Care

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

Special care in winter

NOTICE

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

ECA28181

TIP

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

ECA26280

NOTICE

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

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

Motorcycle care and storage

those available in coin-operated car washers.

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

Before washing

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

4. Pre-soak stubborn stains like insects or bird droppings with a wet towel for a few minutes.
5. Remove road grime and oil stains with a quality degreasing agent and a plastic-bristle brush or sponge. **NOTICE: Do not use degreasing agent on areas requiring lubrication such as seals, gaskets, and wheel axles. Follow product instructions.**^[ECA26290]

Washing

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

ter will increase salt's corrosive properties.^[ECA26301]

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

After washing

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

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

nutes 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.

Motorcycle care and storage

Storage

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

EAU83472

ECA21170

NOTICE

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

Long term storage

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

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

[EWA10952]

- e. Remove the spark plug cap from the spark plug, and then install the spark plug and the spark plug cap.
7. Lubricate all control cables, pivots, levers and pedals, as well as the sidestand and centerstand (if equipped).
 8. Check and correct the tire air pressure, and then lift the vehicle so that all wheels are off the ground. Otherwise, turn the wheels a little

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

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

TIP

- If the battery will be removed, charge it once a month and store it in a temperate location between 0-30 °C (32-90 °F).
 - See page 8-30 for more information on charging and storing the battery.
-

Specifications

Dimensions:

Overall length:
2370 mm (93.3 in)
Overall width:
935 mm (36.8 in)
Overall height:
1455 mm (57.3 in)
Seat height:
875 mm (34.4 in)
Wheelbase:
1595 mm (62.8 in)
Ground clearance:
240 mm (9.45 in)
Minimum turning radius:
2.9 m (9.51 ft)

Weight:

Curb weight:
208 kg (459 lb)

Engine:

Combustion cycle:
4-stroke
Cooling system:
Liquid cooled
Valve train:
DOHC
Cylinder arrangement:
Inline
Number of cylinders:
2-cylinder
Displacement:
689 cm³
Bore × stroke:
80.0 × 68.6 mm (3.15 × 2.70 in)

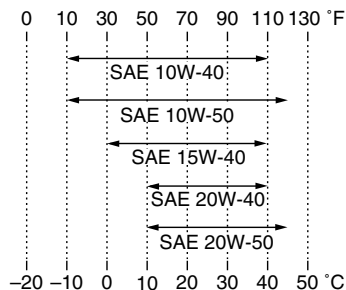
Starting system:
Electric starter

Engine oil:

Recommended brand:



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

Engine oil quantity:
Oil change:
2.30 L (2.43 US qt, 2.02 Imp.qt)
With oil filter removal:
2.60 L (2.75 US qt, 2.29 Imp.qt)

Coolant quantity:

Coolant reservoir (up to the maximum level
mark):
0.25 L (0.26 US qt, 0.22 Imp.qt)

Radiator (including all routes):
1.61 L (1.70 US qt, 1.42 Imp.qt)

Fuel:

Recommended fuel:
Unleaded gasoline (E10 acceptable)
Octane number (RON):
90
Fuel tank capacity:
16 L (4.2 US gal, 3.5 Imp.gal)
Fuel reserve amount:
4.0 L (1.06 US gal, 0.88 Imp.gal)

Fuel injection:

Throttle body:
ID mark:
BLW1

Drivetrain:

Gear ratio:
1st:
2.846 (37/13)
2nd:
2.125 (34/16)
3rd:
1.632 (31/19)
4th:
1.300 (26/20)
5th:
1.091 (24/22)
6th:
0.964 (27/28)

Front tire:

Type:
With tube
Size:
90/90-21 M/C 54V M+S A

Manufacturer/model:
PIRELLI/SCORPION RALLY STR

Rear tire:

Type:
With tube

Size:
150/70 R18 M/C 70V M+S

Manufacturer/model:
PIRELLI/SCORPION RALLY STR

Loading:

Maximum load:
186 kg (410 lb)
(Total weight of rider, passenger, cargo and accessories)

Front brake:

Type:
Hydraulic dual disc brake

Rear brake:

Type:
Hydraulic single disc brake

Front suspension:

Type:
Telescopic fork

Rear suspension:

Type:
Swingarm (link suspension)

Electrical system:

System voltage:
12 V

Battery:

Model:
YTZ7S (F)
Voltage, capacity:
12 V, 6.0 Ah (10 HR)

Bulb wattage:

Headlight:
LED
Brake/tail light:
LED
Front turn signal/position light:
LED
Rear turn signal light:
LED
Auxiliary light:
LED
License plate light:
5.0 W

Consumer information

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:

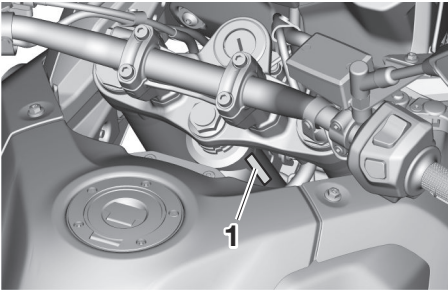
ENGINE SERIAL NUMBER:

MODEL LABEL INFORMATION:

KEY IDENTIFICATION NUMBER:

EAU26357

Vehicle identification number



1. Vehicle identification number

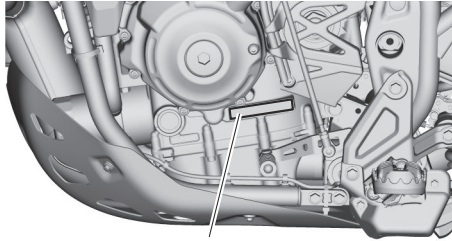
The vehicle identification number is stamped into the steering head pipe. Record this number in the space provided.

TIP

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

EAU26401

Engine serial number

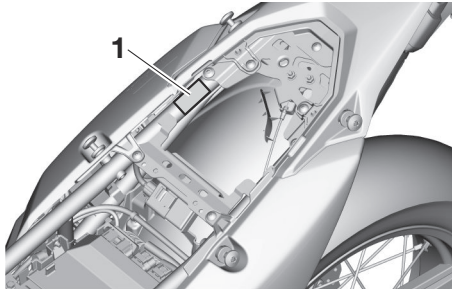


1. Engine serial number

The engine serial number is stamped into the crankcase.

EAU26442

Model label



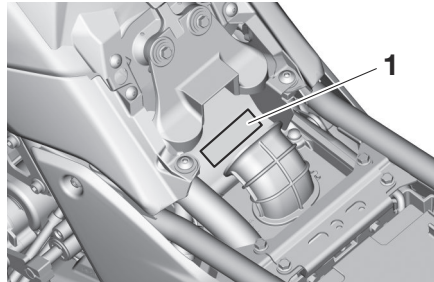
1. Model label

EAU26542

The model label is affixed to the frame under the seat. (See page 5-28.) Record the information on this label in the space provided. This information will be needed when ordering spare parts from a Yamaha dealer.

EAU48271

Vehicle Emission Control Information label

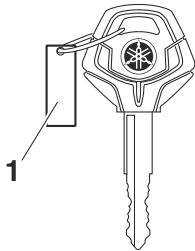


1. Vehicle Emission Control Information label

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.

Key identification number

EAU26382

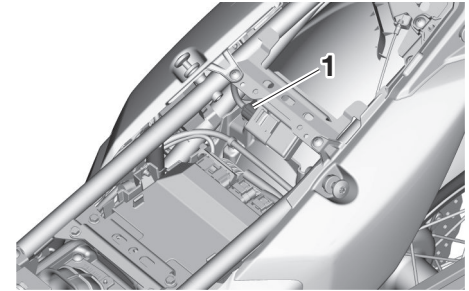


1. Key identification number

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.

Diagnostic connector

EAU69910



1. Diagnostic connector

The diagnostic connector is located as shown.

Consumer information

EAUJA0894

Use of your vehicle data

This is a brief summary of how Yamaha (Yamaha Motor Co., Ltd., and Yamaha Motor Canada Ltd.) uses your vehicle data. For more details, please review our Privacy Policy.

<https://www.yamaha-motor.ca/en/privacy-policy>

What vehicle data we collect? and How we collect your vehicle data?

This vehicle collects three types of vehicle data through integrated Engine Control Units (ECU).:

(1) Vehicle Identification Number (VIN); (2) live data showing the performance of the vehicle such as engine/motor operating state, vehicle speed, mileage; and (3) other data showing the status of the vehicle such as diagnostic trouble code (DTC).

The collected data will be uploaded to server at Yamaha Motor Co., Ltd. by attaching a special Yamaha diagnostic tool to the vehicle, only when maintenance checks or service procedures are performed.

How will we use your vehicle data?

Yamaha use collected data from your vehicle, (1) to conduct adequate maintenance service including diagnostics, (2) to implement proper warranty claim judgement, (3) to conduct research and development of vehicle, (4) to provide and improve quality of products, features, and services, (5) to ensure our business purpose, and (6) to comply with legal obligations or lawful orders, and to establish or defend legal claims.

How we disclose your vehicle data?

We may make your vehicle data available with: (i) our subsidiaries, affiliates, and business partners; (ii) dealers in your country or region, and (iii) contractors within the scope necessary to achieve the purpose of use described above.

How long will we retain your vehicle data?

We will retain your vehicle data for the shortest period of time possible/the time necessary to achieve the above listed purposes, obligated by law.

How to contact us?

Any questions or complaints regarding the processing of your vehicle data can be submitted in writing to:

Yamaha Motor Canada Ltd.

Attn: Privacy Officer

480 Gordon Baker Road, Toronto, Ontario, M2H 3B4

The SOLE PURPOSE of above provided contact information is TO RESPOND DATA PROCESSING INQUIRY AND OTHER KINDS OF INQUIRIES WILL NOT BE RESPONDED. Please provide the following information for the proper handling of your inquiry: **(1) Your Name; (2) Your Email Address; (3) Your Country of Residence; and (4) Your VIN.** We will use your personal information provided only for the purpose of supporting your data processing inquiry.

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 Transport Canada in addition to notifying Yamaha Motor Canada Ltd, Canada. If Transport Canada 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, Transport Canada cannot become involved in individual problems between you, your dealer, or Yamaha Motor Canada Ltd., Canada.

To contact Transport Canada, you may call Defect Investigations and Recall Division at 819-420-4300 or toll free 1-800-333-0510, go to “tc.canada.ca” or email: mvs-sa@tc.gc.ca or write to Transport Canada, 330 Sparks Street Ottawa, ON, K1A 0N5.

You can also obtain other information about motor vehicle safety from “tc.canada.ca”.

Maintenance record

Copies of work orders and/or receipts for parts purchased and installed on your vehicle 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
1000 km (600 mi) or 1 month				
7000 km (4000 mi) or 6 months				
13000 km (8000 mi) or 12 months				
19000 km (12000 mi) or 18 months				
25000 km (16000 mi) or 24 months				
31000 km (20000 mi) or 30 months				
37000 km (24000 mi) or 36 months				
43000 km (28000 mi) or 42 months				
49000 km (32000 mi) or 48 months				

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Maintenance interval	Date of service	Mileage	Servicing dealer name and address	Remarks
55000 km (36000 mi) or 54 months				
61000 km (40000 mi) or 60 months				

YAMAHA MOTOR CANADA LTD. MOTORCYCLE WARRANTY GUIDE

Congratulations on the purchase of your new Yamaha motorcycle. You have chosen a quality product designed and manufactured to bring you years of enjoyment.

This information explains Yamaha's warranty policy. You will find the answers to most of your questions by reading it through.

If you require further assistance, see your Yamaha dealer. Their qualified personnel will be pleased to meet all your service requirements, both during and after the warranty period.

Keep in mind that Yamaha manufactures many other quality products too. For further information on our complete line-up, contact your dealer or visit our web site.

For a product brochure, or a dealer near you, go to our web site.

Yamaha Motor Canada Ltd.

480 Gordon Baker Road, Toronto, Ontario M2H 3B4

(416) 498-1911

www.yamaha-motor.ca

Yamaha Motorcycle Warranty Policy

In this warranty, the term 'MOTORCYCLE' shall refer to a new motorcycle manufactured by YAMAHA MOTOR COMPANY, LTD. ('MANUFACTURER') under the trade name of Yamaha, distributed by YAMAHA MOTOR CANADA LTD. ('YAMAHA'), sold at retail by an authorized Yamaha dealer ('DEALER'). The term 'CUSTOMER' shall refer to the owner or lessee of record of the MOTORCYCLE registered with YAMAHA and to any subsequent owner, and the term 'DELIVERY' shall refer to the date of delivery of the MOTORCYCLE from the DEALER to the CUSTOMER.

Section A — Warranty

Subject to Section D, YAMAHA offers the following warranty coverage to the CUSTOMER:

1. Periods of warranty:

a) Pleasure Use (including government use)

i) Basic Period of Warranty

The period of warranty shall be ninety days commencing on DELIVERY on all models designated PW, TT and on YZ65 and YZ85 models.

The period of warranty shall be one year commencing on DELIVERY on all other models.

ii) Additional Period of Warranty for Street-Legal Motorcycles

In the event DELIVERY occurs between January 1st and April 30th, the warranty shall extend to April 30th of the following year.

b) Commercial Use

The period of warranty shall be half of the warranty period indicated for pleasure use, commencing on DELIVERY on any MOTORCYCLE which has been identified as being used for commercial applications.

2. During these periods of warranty:

a) Any part defective by reason of the MANUFACTURER's faulty workmanship or material will be replaced or repaired free of charge.

b) Any repairs or adjustments made necessary by reason of the MANUFACTURER's faulty workmanship or material will be performed free of charge.

The MANUFACTURER reserves the right to change the design of any model without obligation to modify any model previously manufactured.

Section B — Subsequent Owner

The warranty set forth in Section A may be transferred to any subsequent owner provided that the period of warranty has not expired and that the CUSTOMER has complied with all terms and conditions of this warranty.

The subsequent owner has the responsibility for ensuring that a change of registration is sent to YAMAHA at the time of such transfer of ownership.

This transfer MUST be done by contacting the DEALER who will forward the following information to YAMAHA:

1. the complete model and serial number as shown on the original warranty document;
2. the name of the previous owner;
3. the original delivery date of the MOTORCYCLE;
4. the complete name and address of the subsequent owner;
5. the indication that the subsequent owner has received and read the Owner's Manual and this warranty policy.

Section C — Obtaining Repairs Under Warranty

To obtain repairs under warranty, the CUSTOMER must:

1. Ensure that the MOTORCYCLE is properly operated, maintained and stored as specified in the Owner's Manual.
2. Give notice to a DEALER of any and all apparent defects immediately upon discovery, and make the entire MOTORCYCLE available at that time for inspection and repair at the DEALER's place of business.
3. Provide proof of warranty coverage to such DEALER (CUSTOMER'S copy of the New Vehicle Information Statement: N.V.I.S.).
4. Authorize the DEALER to tear down the MOTORCYCLE for diagnostic evaluation should it be required.

All warranty repairs must be done by a DEALER and final approval of any repairs rests with YAMAHA. All parts replaced become the property of YAMAHA.

Section D — Exclusions

1. This warranty does not apply unless:

- a) The MOTORCYCLE has been fully assembled and set to the MANUFACTURER's operating specifications by a DEALER prior to DELIVERY to the CUSTOMER.
- b) The CUSTOMER has followed the break-in and storage instructions contained in the Owner's Manual and all other instructions shown in the Owner's Manual.
- c) The CUSTOMER can provide record of maintenance having been performed as recommended in the Owner's Manual.
- d) Requests for repairs under warranty have been made as prescribed in Section C.

2. This warranty does not cover the repair of damage resulting from abuse or neglect of the MOTORCYCLE. Examples of abuse and neglect include, but are not limited to:

- a) racing, competition, MOTORCYCLE models designated WR or YZ, with the exception of WR25R, WR25X, YZ65 and YZ85 models, modification of original parts or abnormal strain;
- b) use of lubricants, oils, fuel, fuel additives and mixtures other than those recommended in the Owner's Manual, improperly installed accessories or use of parts or accessories that are not equivalent in design and quality to genuine Yamaha parts;
- c) damage as a result of accidents, collisions, contact with foreign materials, impact, submersion or use of the MOTORCYCLE after discovery of a defect;
- d) appearance-related damages of body parts. Examples of such damages include but are not limited to: scratches, dents, fading, flaking, peeling.

3. This warranty does not extend to:

- a) MOTORCYCLES which have been modified in any way from the standard specifications as shown in the Owner's Manual, including any MOTORCYCLE whose odometer has been altered;
- b) normal wear and tear, corrosion and routine maintenance, such as the recommended service inspections;
- c) pre-delivery inspection and assembly;
- d) MOTORCYCLES from which the MANUFACTURER's identification numbers have been removed or whose identification numbers have been altered or mutilated;
- e) wear and tear and/or maintenance parts such as drive chains, clutch plates and facings, oils and lubricants, spark plugs, batteries, generator brushes, sealed beams and light bulbs, tires, filters, brake pads, drive belts and fuses;
- f) inconvenience, loss of time, loss of income or loss of use of the MOTORCYCLE or any consequential damage of any kind;

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- g) damages from theft, fire, vandalism, explosion, water or acts of God;
- h) storage costs, or transportation and shipping costs related to the performance of this warranty;
- i) damage due to "flat towing" (see your DEALER for explanation).

Section E — Emissions Control System Warranty (For applicable models only)

YAMAHA warrants to the CUSTOMER of a MOTORCYCLE covered by this warranty with a displacement of 50cc or greater, that the MOTORCYCLE is designed, built and equipped so as to conform at the time of DELIVERY with all federal 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
50cc to 169cc	12,000 km or 5 years, whichever occurs first
170cc to 279cc	18,000 km or 5 years, whichever occurs first
280cc and over	30,000 km or 5 years, whichever occurs first

Section F

This warranty is in addition to, and not a modification of, any warranty required by the laws of any province of Canada.

Subject to any applicable sales or consumer legislation, the above warranty is in lieu of any warranty or representation, expressed or implied, including any warranty of performance, merchantability or fitness for a particular purpose on the part of YAMAHA, and any other obligation or liability on behalf of YAMAHA, and the above warranty constitutes your sole remedy and the full liability of YAMAHA. In no event shall YAMAHA be liable for special, incidental or consequential damages howsoever caused, whether by negligence or otherwise resulting directly or indirectly from the use of the MOTORCYCLE, or the MOTORCYCLE having replacement parts or the unavailability of replacement parts.

YAMAHA does not assume, or authorize any person to create or assume for YAMAHA, any obligation or liability in connection with the MOTORCYCLE or any part thereof distributed by YAMAHA.

Original Equipment Tires

Tires supplied as original equipment on your MOTORCYCLE are warranted separately by the individual tire manufacturer or its representatives. Generally speaking, this warranty covers defects in workmanship or material.

Storing Your MOTORCYCLE

If your MOTORCYCLE is not to be used for 60 days or more, it must be properly stored to ensure against deterioration. You should consult your Owner's Manual for storage details, but WE RECOMMEND THAT YOU HAVE AN AUTHORIZED YAMAHA MOTORCYCLE DEALER PREPARE YOUR MOTORCYCLE FOR STORAGE. Their highly-trained staff have the experience and the qualifications to do the job right.

YAMAHA cannot accept responsibility for damage to your vehicle or personal injury resulting from negligence or lack of experience in the preparation of your MOTORCYCLE for storage.

Pre-delivery Inspection Checklist

The DEALER has assembled, inspected and tested the MOTORCYCLE according to the Yamaha Motorcycle Pre-delivery Inspection Checklist prior to DELIVERY to the CUSTOMER (some items may not be applicable to all models). These items include:

- Brakes
- Clutch
- Fluid Levels
- Drive System
- Cooling System
- Fuel / Throttle System
- Wheels / Tires / Suspension
- Steering and Controls
- Electrical System
- Replacing damaged or missing parts
- Test Ride

The Yamaha Motorcycle Pre-delivery Inspection Checklist has been provided to the CUSTOMER at the time of DELIVERY.

Change of Address or Other Owner Information

If you should move after you have purchased your MOTORCYCLE, please contact the DEALER who will forward the required information to YAMAHA. Provide the DEALER with the model name and serial number as shown on the N.V.I.S., along with your new mailing address (or other information). This will ensure that YAMAHA has an up-to-date registration record.

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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



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