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INTRODUCTION

Welcome to the Yamaha world of motorcycling!

As the owner of the T1155/T115SEC, you are benefiting from Yamaha's vast experience and newest technology regarding the design and manufacture of high-quality products, which have earned Yamaha a reputation for dependability. Please take the time to read this manual thoroughly, so as to enjoy all advantages of your T1155/T115SE/T115SEC. Owner's Manual does not only instruct you in how to operate, inspect and maintain your motorcycle, but also in how to safeguard yourself and others from trouble and injury.

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

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

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



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

IMPORTANT MANUAL INFORMATION

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

\triangle	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 avoid, 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.	

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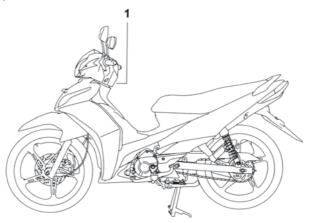
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IMPORTANT MANUAL INFORMATION

T115S/T115SE/T115SEC
OWNER'S MANUAL
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LOCATION OF IMPORTANT LABELS

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.



A SAFETY INFORMATION

Be a Responsible Owner As the vehicle's owner.

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 ridingues as well as the expertise of the operator. Every operator should know the

following requirements before riding this

He or she should:

motorcycle.

- 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.

Safe Riding

Perform the pre-operation checks each time you use the vehicle to make sure it is in safe operating condition. Failure to inspect or maintain the vehicle properly increases the possibility of an accident or equipment damage. See page 5-1 for a list of pre-operation checks.

- This 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 in-

- tersections 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.
 Many accidents involve inexperi-
- 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.
 - 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

⚠ SAFETY INFORMATION

the operator is veering wide on a turn due to excessive speed or undercornering (insufficient lean anale 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 sys-

- tem 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 SEEKMEDICALTREAT-MENT.

⚠ SAFETY INFORMATION

- 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: 150 kg (331 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, 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.

⚠ SAFETY INFORMATION

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

Aftermarket Parts, Accessories, and Modifications

While you may find aftermarket products similar in design and quality to genuine Yamaha accessories, recognize that some aftermarket accessories or modifications are not suitable because of potential safety hazards to you or others. Installing aftermarket products or having other modifications performed to your vehicle that change any of the vehicle's design or operation

characteristics can put you and others at greater risk of serious injury or death. You are responsible for injuries related to changes in the vehicle.

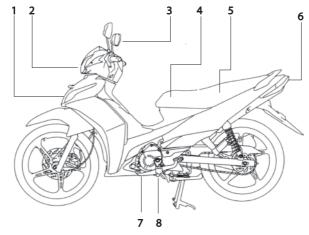
Keep the following guidelines in mind, as well as those provided under "Loading" when mounting accessories.

- Never install accessories or carry cargo that would impair the performance of your 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.

DESCRIPTION

Left view

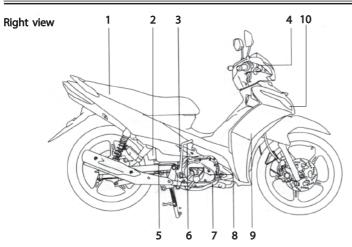


1 . Front Turn signal light /Auxilliary	(page 6-28)
2 . Headlight	(page 6-27)
3 . Mirror	
4 . Helmet holder	(page 6-17)

5. Owner tool kit	(page	6-1
6. Tail/brake light	(page	6-2
7. Shift pedal	(page	5-2
8. Engine oil drain bolt	(page	6-8

2

2-1



1.	Fuel tank cap
2.	Rear brake light switch
3.	Battery
4.	Front brake reservoir

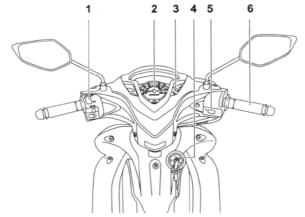
5. Engine oil filler cap

(page	3-7)	
(page	3-7)	
(page	3-6)	
(page	6-25)	
(page	3-8)	

6.	Kick starter	(page	6-18
7.	Brake pedal	(page	6-8
8.	Engine oil filter element	(page	6-16
9.	Airfilter	(page	6-9
10.	Pilot light	(page	6-5
	2-2		

DESCRIPTION

Controls and instruments



1. Left handlebar switches

(page 3-4) 2. Speedometer unit (page 3-3) 3. Fuel meter (page 3-4) 4. Main switch

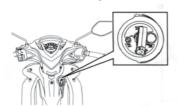
5. Right handlebar switches

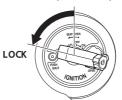
6. Throttle grip. (page 6-21)

(page 3-1)

(page 3-4)

Main switch/steering lock





OFF (Push/Release)

OFF

LOCK (Insert)

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

TIP : _____

The main switch is equipped with a key cover. (see page 3-2 for opening and closing prosedure)

ON

All electrical systems are supplied with power, and the meter lighting comes on, and the engine can be started. The key cannot be removed.

OFF

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

LOCK

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

To lock the steering

- Turn the handlebars all the way to the left.
- Push the key in from the "OFF" position, release it, and then turn it to "LOCK"
- 3. Remove the key.

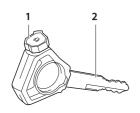
To unlock the steering

Insert the key in, and then turn it to "OF F".

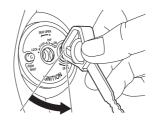
⚠ WARNING

Never turn the key to "OFF" or "LOCK " while the motorcycle is moving, otherwise the electrical systems will be switched off, which may result in loss of control or an accident. Make sure that the motorcycle is stopped before turning the key to "OFF" or "LOCK".

Keyhole cover



- Shutter key
 For open and close keyhole cover
- 2. Ignition switch For starting the engine



To open the keyhole cover Insert the key head into the key hole cover receptacle as shown, and then turn the key to the left to open the cover.

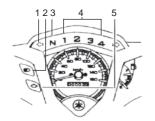


1. push shut bottom

To close the keyhole cover

Push the push shut bottom after remove the key.

Indicator lights



- 1. Turn signal indicator light " < ⇔ "
- 2. High beam indicator light " ≣○ "
- 3. Neutral indicator light " **N** "
- **Turn signal indicator light** " <⇒ " This indicator light flashes when the turn signal switch is pushed to the left or right.
- **High beam indicator light** " ≣○ " This indicator light comes on when the high beam of the headlight is switched on.

Neutral indicator light " N "

This indicator light comes on when the transmission is in the neutral position.

Gear position indicator lights "1", "2","3", and "4"

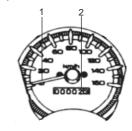
The respective indicator light comes on when the transmission is in the 1st, 2nd, 3rd or 4th gear position.

Engine trouble warning light " 📇 "

This warning light comes on or flashes when an electrical circuit monitoring the engine is defective. When this occur, have a Yamaha dealer check the self diagnosis system.

The electrical circuit of the warning light can be checked by turning the key to "ON". The warning light will light up for a few seconds. If light does not light up or stays light up, please procced to Yamaha dealer to check it's fault.

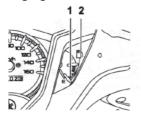
Speedometer unit



- 1. Speedometer
- 2. Odometer

The speedometer unit is equipped with a speedometer and an odometer. The speedometer shows riding speed. The odometer shows the total distance traveled.

Fuel gauge

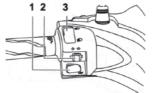


- Red zone
 Fuel gauge
- The fuel gauge indicates the amount of fuel in the fuel tank. The needle moves towards "E" (Empty) as the fuel level decreases. When the needle reaches the red zone, approximately 1.0 L (0.26 US gal) (0.22 Imp.gal) remain in the fuel tank. If this occurs, refuel as soon as possible.

TIP:

- Do not allow the fuel tank to empty itself completely.
- The main switch must be turned to "ON" for the fuel gauge to display

Handlebar switches



- 1. Horn switch " 🝗 "
- Turn signal switch "⟨¬/¬⟩"
 Dimmer switch " ≣○/≡○ "

Horn switch " ► "

Press this switch to sound the horn.

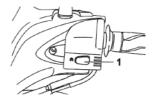
Turn signal switch "<>-/ <>"

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

Dimmer switch " ≣○/ ≸○ "

Set this switch to " $\equiv \bigcirc$ " for the high beam and to " $\equiv \bigcirc$ " for the low beam.

Right



Start switch "(家)"

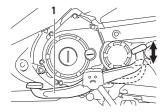
Start switch " (\$), "

Push this switch to crank the engine with the starter.

NOTICE:

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

Shift pedal



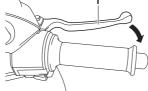
1. Shift pedal

The shift pedal is located on the left side of the engine. This motorcycle is equipped with a constant-mesh 4 speed transmission.

TIP:_____

Use your toes to shift up and your heel to shift down.

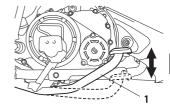
Brake lever



Brake lever

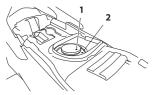
The brake lever is located at the right handlebar grip. To apply the front brake, pull the lever toward the handlebar grip.

Brake pedal



1. Brake pedal.

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



- 1. Fuel tank cap
- 2. "△" Aligner mark

To remove the fuel tank cap

- 1. Open the seat. (See page 3-8).
- Turn the fuel tank cap counterclockwise and pull it off.

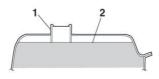
To install the fuel tank cap

- Insert the fuel tank cap into the tank opening and turn it clockwise until the "\(\triangle \)" marks on the cap and tank are aligned.
- 2. Close the seat.

WARNING

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

Fuel



- 1. Fuel tank filler tube
- 2. Fuel level

Make sure there is sufficient gasoline in the tank.

A WARNING

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

- 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.
- Do not overfill the fuel tank. 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.

3

INSTRUMENT AND CONTROL FUNCTIONS

- 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.
- 4. Be sure to securely close the fuel tank cap.

⚠ 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.

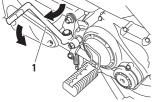
Recommended fuel:

Regular unleaded gasoline only **Fuel tank capacity:**

4.1 L

NOTICE:

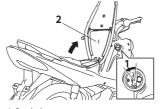
Use only unleaded gasoline. The use of leaded gasoline will cause severe damage to internal engine parts, such as the valves and piston rings, as well as to the exhaust system.



Kickstarter

If the engine fails to start by pushing the start switch, try to start it by using the kickstarter. To start the engine, fold out the kickstarter lever, move it down lightly with your foot until the gears engage, and then push it down smoothly but forcefully.

Seat



- Seat lock
 Seat
- Seat

To open the seat

- 1. Place the motorcycle on the centerstand.
- Insert the key into the main switch, and then turn it counterclockwise to "OPEN".

TIP:

Do not push inward when turning the key.

3. Fold the seat up.

To close the seat

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

TIP:

Make sure that the seat is properly secured before riding.

Helmet holders



1. Helmet holder

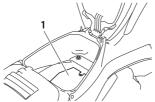
The helmet holders are located under the seat.

To secure a helmet to a helmet holder

- 1. Open the seat. (See page 3-8.)
- Attach a helmet to a helmet holder, and then securely close the seat.
 WARNING! Never ride with a helmet attached to the helmet holder, since the helmet may hit objects, causing loss of control and possibly an accident.

To release a helmet to a helmet holder Open the seat, remove the helmet from the helmet holder, and then close the seat.

Storage compartment



1. Storage compartment

The storage compartment is located under the seat. (See page 3-8.)

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

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.

⚠ WARNING

The vehicle must not be ridden with the sidestand down, or if the side-stand 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.

PRE-OPERATION CHECKS

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.

₩ WA

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:

PRE-OPERATION CHECKS

Pre-operation check list

ITEM	CHECKS	PAGE
Fuel	Check fuel level in fuel tank. Refuel if necessary. Check fuel line for leakage.	3-7
Engine oil	Check oil level in engine. If necessary, add recommended oil to specified level. Check vehicle for oil leakage.	6-8
Front and rear suspension	Check operation Check oil suspention for leakage.	6-23
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 recommended brake fluid to specified level. Check hydraulic system for leakage.	6-18, 6-19
Rear brake	Check operation. Check pedal free play. Adjust if necessary.	6-17
Throttle grip	Make sure that operation is smooth. Check cable free play. If necessary, have Yamaha dealer adjust cable free play and lubricate cable and grip housing.	6-12, 6-13
Control cables	Make sure that operation is smooth. Lubricate if necessary.	6-21
Drive chain	Check chain slack. Adjust if necessary. Check chain condition. Lubricate if necessary.	6-19, 6-20

PRE-OPERATION CHECKS

ITEM	CHECKS	PAGE
Wheels and tires	Check for damage. Check tire condition and tread depth. Check air pressure. Correct if necessary.	6-13, 6-15
Brake pedal	Make sure that operation is smooth. Lubricate pedal pivoting point if necessary.	6-16
Brake lever	Make sure that operation is smooth. Lubricate lever pivoting point if necessary.	6-16
Centerstand, sidestand	Make sure that operation is smooth. Lubricate pivots if necessary.	6-22
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.	_
Battery	Check Voltage.	6-25

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.

⚠ WARNING

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

 Before starting out, make sure that the sidestand is up. If the sidestand is not raised completely, it could contact the ground and distract the operator, resulting in a possible loss of control.

NOTICE:

Do not ride through deep water (including puddles), otherwise the engine may be damaged.

Starting and warming up a cold engine

- 1. Turn the key to "ON".
- 2. Shift the transmission into the neutral position.

TIP

When the transmission is in the neutral position, the neutral indicator light should be on, otherwise have a Yamaha dealer check the electrical circuit.

Place the vehicle on the centerstand

↑ WARNING

Before starting the engine, make sure the transmission is in neutral and that the vehicle is placed on the centerstand.

 Start the engine by pushing the start switch or by pushing the kickstarter lever down.

TIP: _____

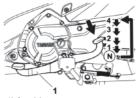
If the engine fails to start by pushing the start switch, release the switch, wait a few seconds, and then try again. Each starting attempt should be as short as possible to preserve the battery. Do not crank the engine more than 10 seconds on any one attempt. If the engine does not start with the starter motor, try using the kirkstarter

 NOTICE: For maximum engine life, always warm the engine up before starting off. Never accelerate hard when the engine is cold!

Starting a warm engine

Follow the same procedure as for starting a cold engine.

Shifting



- 1. Shift pedal
- N. Neutral position

Shifting gears lets you control the amount of engine power available for starting off, accelerating, climbing hills, etc. When shifting gears, fully return the throttle grip. The use of the shift pedal is shown in the illustration.

NOTICE:

- Make sure that the transmission is completely shifted into gear.
- Be sure to fully close the throttle grip when shifting.
- Make sure the neutral indicator light comes on when the transmission is in the neutral position.

Tips for reducing fuel consumption

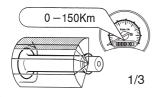
Fuel consumption depends largely on your riding style. Consider the following tips to reduce fuel consumption:

- Shift up swiftly, and avoid high engine speeds during acceleration.
- Do not rev the engine while shifting down, and avoid high engine speeds with no load on the engine.
- Turn the engine off instead of letting it idle for an extended length of time (e.g., in traffic jams, at traffic lights or at railroad crossings).

Engine break-in

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

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

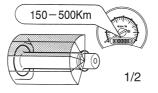


Avoid prolonged operation above 1/3 throttle.

After every hour of operation, stop the engine, and then let it cool for five to ten minutes.

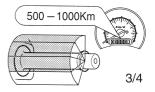
Vary the engine speed from time to time. Do not operate the engine at one set throttle position.

150-500 km (90-300 mi)



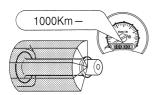
Avoid prolonged operation above 1/2 throttle. Rev the engine freely through the gears, but do not use full throttle at any time.

500-1000 km (300-600 mi)



Avoid prolonged operation above 3/4 throttle.

1000 km (600 mi) and beyond



Avoid prolonged full-throttle o peration. Vary the engine speed occasionally. NOTICE: After 1000 km (600 mi) of operation, the engine oil must be changed, the oil filter cartridge or element replaced, and the oil strainer cleaned. If any engine trouble should occur during the engine break-in period, immediately have a Yamaha dealer check the vehicle.

Parking

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

WARNING

- Since the engine and exhaust system can become very hot, park in a place where pedestrians or children are not likely to touch them.
- Do not park on a slope or on soft ground, otherwise the vehicle may overturn.

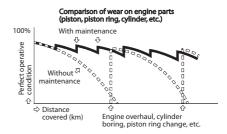
General note

Much can be gained from the correct use and maintenance of a motorcycle.

1.THE CUSTOMERS CAN USE THE FULLEST POTENTIAL OF YAMAHA MOTORCYCLES



2. A MOTORCYCLE CAN KEEP ITS PERFORMANCE CAPABILITY FOR A LONGERTIME



3. FUEL COST AND REPAIR EXPENSES CAN BE KEPT TO A MINIMUM

Customer's running cost (fuel cost plus maintenance and repair expenses)

S Without maintenance Big repairs at higher expenses With maintenance With maintenance Distance covered (km)

4. A MOTORCYCLE CAN DEMAND A HIGH PRICE WHEN IT ISTRADED IN AS A USED PRODUCT



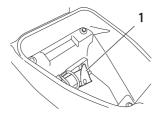
PERIODIC MAINTENANCE AND MINOR REPAIR

Safety is an obligation of the owner. Periodic inspection, adjustment and lubrication will keep your vehicle in the safest and most efficient condition possible. The most important points of inspection, adjustment, and lubrication are explained on the following pages. The intervals given in the periodic maintenance and lubrication chart should be simply considered as a general guide under normal riding conditions, However, DEPENDING ON THE WEATHER, TERRAIN, GEOGRAPHI-CAL LOCATION, AND INDIVIDUAL USE. THE MAINTENANCE INTER-VALS MAY NEED TO BE SHORT-ENED.

⚠ WARNING

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

Owner's tool kit



1. Owner's tool kit

The owner 's tool kit is located inside the storage compartment under the seat. (See page 3-8.)

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

TIP: __

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

₩ WARNING

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

NOTICE:

Improper disposal of drained fluids (i.e., oil, coolant,etc) and battery are harmful to the environment. Contact a Yamaha dealer for proper disposal to protect the environment.

PERIODIC MAINTENANCE AND MINOR REPAIR

Periodic maintenance and lubrication chart

TIP: _____

- The annual checks must be performed every year, except if a kilometer-based maintenance is performed instead.
- From 8,000 km, repeat the maintenance intervals starting from 4,000 km.
- Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills.

NO. ITEM		ITEM CHECK OR MAINTENANCE JOB	ODOMETER READING (× 1000 km)					ANNUAL	
NO.	U.	, IIEM	CHECK OR MAINTENANCE JOB	0.5	2	4	6	8	CHECK
1	*	Fuel line	Check fuel and vacuum hoses for cracks or damage.		√	√	√	√	√
2		Spark plug	Check condition. Clean and regap.		√		√		
			• Replace.			√		√	
3	*	Valves	Check valve clearance. Adjust.		√	√	√	√	
		Air filter element	Check.		√		√		
4			• Replace.		Ev	ery 16,00	0 km		
5		Battery	Check Voltage & terminals.		√	√	√	√	√
_	Ι.		Check operation, fluid level and vehicle for fluid leakage.	√	√	√	√	√	√
6	*	* Front brake	Replace brake pads.		Wh	enever w	orn to the	e limit	•
		• Rear brake	Check operation and adjust brake pedal free play.	√	√	√	√	√	√
7	"		Replace brake shoes.		Wh	enever w	orn to the	e limit	
		Brake hose	Check for cracks or damage.		√	√	√	√	√
8	*		Replace.	Every 4 years					

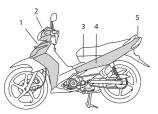
NO.			CHECK OR MAINTENANCE JOB	ODOMETER READING (× 1000 km)				km)	ANNUAL
		ITEM		0.5	2	4	6	8	CHECK
9	*	Wheels	Check runout, spoke tightness and for damage. Tighten spokes if necessary (for spoke wheel).		V	√	√	V	
10	*	Tires	Check tread depth and for damage. Replace if necessary. Check air pressure. Correct if necessary.	7		√	√	V	V
11	*	Wheel bearings	Check bearing for looseness or damage.		√	√	√	√	
12	12 * Swingarm		Check operation and for excessive play.		√	√	√	√	
12			Lubricate with lithium-soap-based grease.	Every 24,000 km					
13		Drive chain	Check chain slack, alignment and condition. Adjust and thoroughly lubricate chain with engine oil.	Every 500 km and after washing the motorcycle or riding in the rain					
14	_	Steering bearings	Check bearing play and steering for roughness.	√	√	√	√	√	
14		Steering bearings	Lubricate with lithium-soap-based grease.	Every 24,000 km					
15	*	Chassis fasteners	Make sure that all nuts, bolts and screws are properly tightened.		√	√	√	V	√
16		Sidestand, centerstand	Check operation. Lubricate.		√	√	√	√	√
17	*	Front fork	Check operation and for oil leakage.		√	√	√	√	
18	*	Shock absorber assembly	Check operation and shock absorber for oil leakage.		√	√	√	V	
19	*	Fuel Injection	Adjust engine idling speed.	√	√	√	V	√	√
20		Engine oil	Change. Check oil level and vehicle for oil leakage.		√	√	V	√	√
21	1 Element oil filter -		• (Ch) Change (Cl) Clean	Ch	Ch	Cl	Ch	CI	

NO.			CHECK OR MAINTENANCE JOB	ODOMETER READING (× 1000 km)					ANNUAL
		ПЕМ		0.5	2	4	6	8	CHECK
22	22 * Front suspention	Check operation	√	√	√	√	√		
22		Front suspention	Check for oil leakage						
23	*	Front and rear brake switches	Check operation.		√	√	√	√	√
24		Moving parts and cables	• Lubricate.		√	√	√	√	√
25	*	Throttle grip housing and cable	Check operation and free play. Adjust the throttle cable free play if necessary. Lubricate the throttle grip housing and cable.		1	1	V	1	V
26	*	Air induction system	Check the air cut-off valve, reed valve, and hose for damage. Replace any damaged parts if necessary.		V	V	V	1	V
27	*	Lights, signals and switches	Check operation. Adjust headlight beam.		√	V	V	√	√

TIP:

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

Removing and installing the cowlings and panel



- 1. Cowling A 2. Cowling B
- 4. Side cover
- 3 Panel
- 5. Rear panel

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

To install and remove cowling.



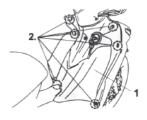
- 1. Cowling A
- 2. Screw (x4)

Remove cowling A

Remove screw Cowling shown, and then take the Cowling A out.

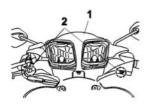
To install Cowling A

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

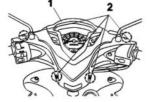


- 1. Cowling rear
- 2. Screw (x6)

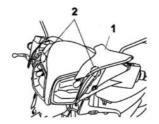
Cowling B



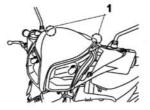
- 1. Cowling B
- 2. Screw (x2)



- 1. Cowling B
- 2. "Screw" Cowling (x4)



- 1. Cover cowling B
- 2. "Screw" cowling (x2)



1. "Screw" cowling (x2)

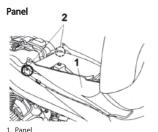


To remove cowling B

Remove screws cowling B as shown and remove cowling B.

To install cowling B

Install cowling B in the original position and install screws.



- 2 Screw
- 3. Bolt

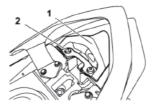
To remove the panel

- 1. Open the seat. (See page 3-8.)
- 2. Remove the screw and bolts, and then pull the panel off as shown.

To install the panel

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

Rear panel



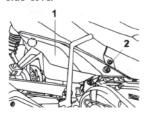
- 1. Rear panel 2. Screw
- To remove rear panel
- 1. Remove screw.
- 2. Pull rear portion upwards and slide to the rear to remove rear panel.



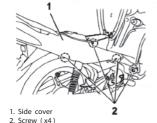
To install rear panel

- 1. Place rear panel portion first and press fit the front portion.
- 2. Install screws.

Side cover



- 1. Battery cover
- 2. Screw (x1)



- - 1. Side cover 2. Front screw (x1)
- To remove side cover

To remove side cove

Remove screw from side cover as shown and remove side cover.

To install side cover

Install side cover as shown in it's position and install screw.

Checking the spark plug

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



1. Spark plug wrench

To remove the spark plug

- Place the vehicle on the centerstand.
- 2. Remove panel* (see page 6-5)
- 3. Remove the spark plug ap.
- Remove the spark plug as shown with the spark plug wrench included in the owner tool kit.

To check the spark plug

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

TIP: _____

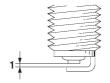
If the spark plug shows a distinctly different color, the engine could be defective. Do not attempt to diagnose such problems yourself. Instead, have a Yamaha dealer check the vehicle. Check the spark plug for electrode erosion and excessive carbon or other deposits, and replace it if necessary.

Specified spark plug:

NGK CR6HSA / DENSO U20FSR-U

To install the spark plug

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



1. Spark plug gap

Spark plug gap:

0.6-0.7 mm (0.0 23-0.0 27 in)

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

Tightening torque:

Spark plug:

12.5 Nm (1.25 m·kgf, 9.0 ft ·lbf)

TIP ·

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

- 4. Install the spark plug cap.
- 5. Install the panel.

Engine Oil

The engine oil level should be checked before each ride. In addition, the oil must be changed in the periodic mainnance and lubrication chart.

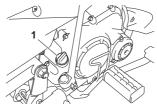
To check the engine oil level

 Place the vehicle on the centerstand.

TIP:

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

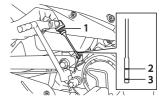
- Start the engine, warm it up for several minutes, and then turn it off.
- Wait a few minutes until the oil settles, remove the oil filler cap, wipe the dipstick clean, insert it back into the oil filler hole (without screwing it in), and then remove it again to check the oil level.



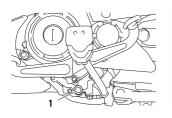
1. Engine oil filler cap

TIP:

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



- 1. Dipstick
- 2. Maximum level mark
- 3. Minimum level mark
- 4. If the engine oil is at or below the minimum level mark, add sufficient oil of the recommended type to raise it to the correct level.
- Insert the dipstick into the oil filler hole, and then tighten the oil filler cap.



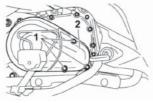
1. Engine oil drain bolt

To change the engine oil

- Start the engine, warm it up for several minutes, and then turn it off.
- 2. Place an oil pan under the engine to collect the used oil.
- Remove the engine oil filler cap and drain bolt to drain the oil, from crankcas e.

NOTICE:

Before installing the engine oil drain bolt, do not forget to install the washer bolt.

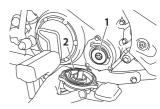


- 1. Bolt
- 2. Oil filter element cover

TIP:

Skip step 4-6 if the oil filter element is not being replaced.

- 4. Remove the oil filter element cover by removing the bolts.
- 5. Remove and replace the oil filter element and O-ring.



- 1. Oil filter element
- 2. O-ring
- Install the oil filter element cover by installing the bolts, then tightening them to the specified torque.

Tightening torque:

E ngine filter element cover bolt: 10 Nm (1.0 m·kgf, 7.2 ft·lbf)

ПР:

Make sure that the O-ring is properly seated.

Install the engine drain bolt, and then tighten the drain bolt to the specified torque.

NOTICE:

Before installing the engine oil drain bolt, do not forget to install the washer bolt.

Tightening torque:

Engine oil drain bolt: 20 Nm (2.0 m·kgf, 20 ft·lbf)

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

Recommended engine oil:

See page 8-1.

Oil quantity:

Total amount

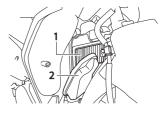
1 L (1.05 US qt) (0.80 Imp.qt) Periodic oil change:

0.80 L (0.85 US qt) (0.70 Imp.qt)

NOTICE:

- Always use Yamalube oil only.
- Make sure that no foreign material enters the crankcase.
- 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.
- Turn the engine off, and then check the oil level and correct it if necessary.

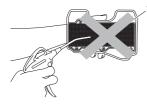
Replacing the air filter element



- 1. Air filter
- 2. Air filter case cover

The air filter element should be replaced at the intervals specified in the periodic maintenance and lubrication chart. Clean the air filter element more frequently if you are riding in unusually wet or dusty areas.

- 1. Remove cowling (see page 6-5).
- Remove the air filter case cover by removing the screws and then pull the air filter element out.



- 1. Air filter element
- Remove used air filter element and replace it with new.

NOTICE:

This model uses viscous type air filter element that does not require any cleaning. Once achieving distance of 16,000km replace with new air filter element.

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

TIP:

If dust or water collects in the air filter check hose, remove the clamp from it, and then remove the plug to drain the hose.

6. Install the cowling.

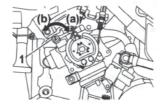
Adjusting the engine idling speed

The engine idling speed must be checked and, if necessary, adjusted as follows at the intervals specified in the periodic maintenance and lubrication chart

The engine should be warm before making this adjustment.

TIP: _____

- The engine is warm when it quickly responds to the throttle.
- A diagnostic tachometer is needed to make this adjustment.
- 1. Remove cowling A. (See page 6-5.)
- 2. Attach the diagnostic tachometer to the spark plug lead.
- Check the engine idling speed and, if necessary, adjust it to specification by turning the idling adjust screw. To increase the engine idling speed, turn the screw in direction (a). To decrease the engine idling speed, turn the screw in direction (b).



1. Idling adjust screw

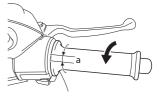
Engine idling speed:

TIP : _____

If the specified idling speed cannot be obtained as described above, have a Yamaha dealer make the adjustment.

4. Install the cowling.

Adjusting the throttle cable free play



1. Throttle cable free play

The throttle cable free play should measure 3.0 - 7.0 mm (0.12 - 0.28 in) at the throttle grip. Periodically check the throttle cable free play and, if necessarv. adjust it as follows.

TIP:

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

- Locknut
 Adjusting nut
- 1. Loosenthe locknut
- To increase the throttle cable free play, turn the adjusting nut in direction (a). To decrease the throttle cable free play, turn the adjusting nut in direction (b).
- 3. Tighten the locknut.

Valve clearance

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

Tires

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

Tire air pressure

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

M WARNING

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

6

Tire air pressure (measured on cold tires): (tube / tubeless tires)

0-90 kg (0 -198 lb):

Front:

200 kPa (29 psi) (2.00 kgf/cm²)

225 kPa (33 psi) (2.25 kgf/cm²) 90-110 kg (198 -243 lb):

Front:

200 kPa (29 psi) (2.00 kgf/cm²) Rear:

225 kPa (33 psi) (2.25 kgf/cm²)

Maximum load*:

// Maximum load*: 150 kg (331 lb)

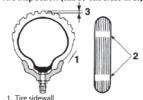
* Total weight of rider, passenger, cargo and accessories

⚠ WARNING

Proper loading of your motorcycle is important for several characteristics of your motorcycle; such as handling, braking, performance and safety. Do not carry loosely packed items that can shift. Securely pack your heaviest items close to the center of the motorcycle, and distribute the weight evenly from side to side. Check the condition and pressure of your tires. NEVER OVERLOAD

the total weight of the cargo, rider, passenger, and accessories (fairing, saddlebags, etc. if approved for this model) does not exceed the maximum load of the motorcycle. Operation of an overloaded motorcycle could cause tire damage, an accident, or even injury.

Tire inspection (tube / tubeless tires)



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

The tires must be checked before each ride. If the tire shows crosswise lines (minimum tread depth), 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 limits may differ from country to country. Always comply with the local regulations.

Tire information

This motorcycle is equipped with tube tires for spoke wheels and tubeless for cast wheels.

⚠ WARNING

- The front and rear tires should be of the same make and design, otherwise the handling characteristics of the vehicle cannot be guaranteed.
- After extensive tests, only the tires listed below have been approved for this model by Yamaha Motor Co., Ltd.

Tube for spoke wheels Tubeless for cast wheels

Front tire:

70/90-17M/C 38P Manufacturer/model: Vee Rubber / V322F

Rear tire:

Size: 80/90-17M/C 44P Manufacturer/model: Vee Rubber / V322R

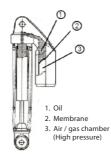
⚠ WARNING

- It is dangerous to ride with a worn-out tire. When a tire tread begins to show crosswise lines, have a Yamaha dealer replace the tire immediately.
- The replacement of all wheeland brake-related parts, including the tires, should be left to a Yamaha dealer, who has the necessary professional knowledge and experience.
- It is not recommended to patch a punctured tube. If unavoidable, however, patch the tube

very carefully and replace it as soon as possible with a highquality product.

Air / gas shock absorber (cast wheels)

Air / gas shock absorber uses extra membrane to separate oil from the air chamber.



WARNING

 Do not incinerate, puncture or open air / gas chamber.

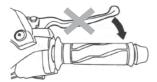
6-17

Wheels

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

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

Checking the brake lever free play

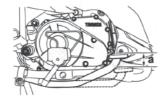


There should be no free play at the brake lever end. If there is free play, have a Yamaha dealer inspect the brake system.

⚠ WARNING

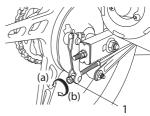
A soft or spongy feeling in the brake lever can indicate the presence of air in the hydraulic system. If there is air in the hydraulic system, have a Yamaha dealer bleed the system before operating the motorcycle. Air in the hydraulic system will diminish the braking performance, which may result in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

Adjusting the brake pedal free play



1. Brake pedal free play

The brake pedal free play should measure 25.0–35.0 mm (0.98–1.38 in) at the brake pedal end as shown. Periodically check the brake pedal free play and, if necessary, adjust it as follows. To increase the brake pedal free play, turn the adjusting nut in direction (a). To decrease the brake pedal free play, turn the adjusting nut in direction (b).

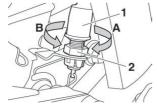


1. Brake pedal free play adjusting nut

MARNING

- After adjusting the drive chain slack or removing and installing the rear wheel, always check the brake pedal free play.
- If proper adjustment cannot be obtained as described, have a Yamaha dealer make this adjustment.
- After adjusting the brake pedal free play, check the operation of the brake light.

Adjusting the rear brake light switch



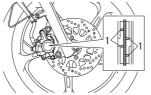
- 1. Rear brake light switch
- 2. Rear brake light switch adjusting nut

The rear brake light switch, which is activated by the brake pedal, is properly adjusted when the brake light comes on just before braking takes effect. If necessary, adjust the brake light switch as follows.

Turn the adjusting nut while holding the rear brake light switch in place. To make the brake light come on earlier, turn the adjusting nut in direction (a). To make the brake light come on later, turn the adjusting nut in direction (b).

Checking the front brake pads and rear brake shoes

Front brake pads



1. Brake pad wear indicator groove

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

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 shoes



- 1. Brake shoe wear limit line
- 2. Brake shoe wear indicator

The rear brake is provided with a wear indicator, which allows you to check the brake shoe wear without having to disassemble the brake. To check the brake shoe wear, check the position of the wear indicator while applying the brake. If a brake shoe has worn to the point that the wear indicator reaches the wear limit line, have a Yamaha dealer replace the brake shoes as a set.

Checking the front brake fluid level



1. Minimum level mark

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

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

Observe these precautions:

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

Recommended brake fluid: DOT 4

TIP:

If DOT 4 is not available, DOT 3 can be used

- Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor braking performance.
- Be careful that water does not enter the master cylinder when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock.

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

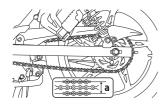
As the brake pads wear, it is normal for the brake fluid level to gradually go down. However, if the brake fluid level goes down suddenly, have a Yamaha dealer check the cause

Changing the brake fluid

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

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

Drive chain slack



1. Drive chain slack

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

To check the drive chain slack

- Place the motorcycle on the centerstand.
 Shift the transmission into the neu-
- tral position.Spin the rear wheel several times to locate the tightest portion of the
- drive chain.

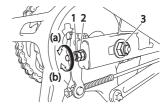
 4. Measure the drive chain slack as shown.

Drive chain slack:

25.0-35.0 mm (0.98-1.38 in)

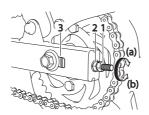
5. If the drive chain slack is incorrect, adjust it as follows.

To adjust the drive chain slack



- 1. Locknut
- 2. Drive chain slack adjusting nut
- 3. Axle nut
- Loosen the brake pedal free play adjusting nut and the brake torque rod nut.
- Loosen the axle nut, then loosen the locknut at each end of the swingarm.

3. To tighten the drive chain, turn the adjusting nut at each end of the swingarm in direction (a), To loosen the drive chain, turn the adjusting nut at each end of the swingarm in direction (b), and then push the rear wheel forward. NOTICE: Improper drive chain slack will overload the engine as well as other vital parts of the motorcyde and can lead to chain slippage or breakage. To prevent this from occurring, keep the drive chain slack within the specified limits.



- 1. Locknut
- 2. Drive chain slack adjusting nut.
- 3. Alignment marks

TIP:

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

 Tighten both locknuts, and then tighten the axle nut and brake torque rod nut to their specified torque.

Tightening torques:

Axle nut

60 Nm (6.0 m·kgf, 43 ft ·lbf)
Brake torque rod nut:
19 Nm (1.9 m·kgf, 14 ft ·lbf)

TIP:

When tightening the axle nut, hold the wheel axle with a wrench to keep it from turning.

5. Adjust the brake pedal free play. (See page 6-18)

⚠ WARNING

After adjusting the brake pedal free play, check the operation of the brake light.

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.

NOTICE:

The drive chain must be lubricated after washing the motorcycle and riding in the rain.

 Remove all dirt and mud from the drive chain with a brush or cloth.

TIP:__

For a thorough cleaning, have a Yamaha dealer remove the drive chain and soak it in solvent.

 Spray Yamaha Chain and Cable Lube or a high-quality spray-type drive chain lubricant on both sides and on the middle of the chain, making sure that all side plates and rollers have been sufficiently oiled

Checking and lubricating the cables

The operation of all control cables and the condition of the cables should be checked before each ride, and the cables and cable ends should be lubricated if necessary. If a cable is damaged or does not move smoothly, have a Yamaha dealer check or replace it.

WARNING! Damage to the outer sheath may interfere with proper cable operation and will cause the inner cable to rust. Replace a damaged cable as soon as possible to prevent unsafe conditions.

Recommended lubricant:

Engine oil

Checking and lubricating the throttle grip and cable

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

Lubricating the brake lever

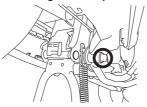


The pivoting point of the brake lever must be lubricated at the intervals specified in the periodic maintenance and lubrication chart.

Recommended lubricant:

Engine oil

Lubricating the brake pedal

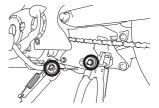


The operation of the brake pedal should be checked before each ride, and the pedal pivot should be lubricated if necessary.

Recommended lubricant:

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

Checking and lubricating the centerstand and sidestand



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

MARNING

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

Recommended lubricant:

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

Lubricating the swingarm pivots

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

Recommended lubricant:

Lithium-soap-based grease

Checking the front fork

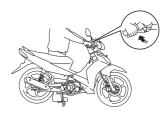
The condition and operation of the front fork must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart.

To check the condition

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

To check the operation

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



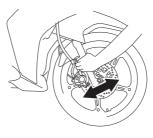
NOTICE:

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

Checking the steering

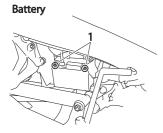
Worn or loose steering bearings may cause danger. Therefore, the operation of the steering must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart.

- Place a stand under the engine to raise the front wheel off the ground.
 WARNING! To avoid injury securely support the vehicle so that there is no danger of it falling over.
- 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.



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.



1. Battery terminals

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.

NOTICE:

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

⚠ WARNING

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

 KEEP THIS AND ALL BATTER-IES OUT OF THE REACH OF CHILDREN.

To charge the battery

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

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. If you do not have access to a constant-voltage battery charger, have a Yamaha dealer charge your battery.

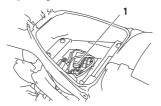
To store the battery

- 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 the key is turned to "OFF", then disconnect the negative lead before disconnecting the positive lead.
- 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.
- After installation, make sure that the battery leads are properly connected to the battery terminals.

NOTICE:

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

Replacing the fuse



1. Spare fuse and main fuse

all electrical circuits.

The fuse holder is located under the seat. (See page 3-8.)

If the fuse is blown, replace it as fol-

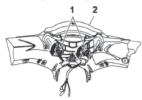
- If the fuse is blown, replace it as follows.

 1. Turn the key to "OFF" and turn off
- Remove the blown fuse, and then install a new fuse of the specified amperage. WARNINGI: Do not use a fuse of a higher amperage rating than recommended to avoid causing extensive damage to the electrical system and pos sibly a fire.

Specified fuse: 7.5 A

- Turn the key to "ON" and turn on the electrical circuits to check if the devices operate.
- If the fuse immediately blows again, have a Yamaha dealer check the electrical system

Replacing a headlight bulb



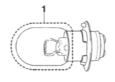
- 1. Headlight bulb holder
- 2. Cowling B

If a headlight bulb burns out, replace as follows.

- 1. Remove cowling B. (See page 6-6.)
- Remove the headlight bulb holder by pushing it inward and turning counterclockwise, and then remove the defective bulb.

⚠ WARNING

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



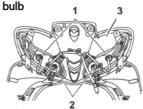
- 1. Do not touch the glass part of the bulb.
- 3. Place a new bulb into position, and then secure it with the bulb holder.

NOTICE:

Do not touch the glass part of the headlight bulb to keep it free from oil, otherwise the transparency of the glass, the luminosity of the bulb, and the bulb life will be adversely affected. Thoroughly clean off any dirt and fingerprints on the headlight bulb using a cloth moistened with alcohol or thinner.

- 4. Install the cowling.
- 5. Have a Yamaha dealer adjust the headlight beam if necessary.

Replacing a front turn signal light bulb or an auxiliary light



- Turn signal light bulb socket
- 2. Auxiliary light bulb socket
- 3. Cowling B

If a front turn signal light or an auxiliary light bulb burns out, replace it as follows.

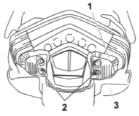
- 1. Remove front panel and cowlings B, (See page 6-6.)
- Remove the socket (together with the bulb) by turning it counterclockwise.
- Remove the defective bulb by pulling it out.



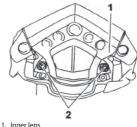
1. Bulb

- 4. Insert a new bulb into the socket.
- 5. Install the socket (together with the bulb) by turning it clockwise.
- 6. Install the cowlings.

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



- 1 Outer lens
- Outer lens screw
- 3. Side cover
- 1. Remove rear panel and side cover (see page 6-7)
- 2. Remove the 2 pcs lens by removing the screws.
- 3. Remove the burnt-out tail/brake light bulb by pushing it in and turning it counterclockwise



- 2 Inner lens screw

Remove the burnt-out rear turn light bulb by pulling it out.

- 4. Insert a new bulb tail/brake light into the socket, push it in, and then turn it clockwise until it stops. Insert a new bulb rear turn in to the socket.
- 5. Install the lens by installing the NOTICE: Do not overscrews. tighten the screws, other wise the lens may break.
- 6. Install side cover and rear panel.

Front wheel



- 1. Speedometer cable
- 2. Axle nut and washer

To remove the front wheel

⚠ WARNING

To avoid injury, securely support the vehicle so there is no danger of it falling over.

- Place the motorcycle on the centerstand.
- 2. Disconnect the speedometer cable from the front wheel.
- 3. Remove the axle nut, and the washer.

4. Pull the wheel axle out, and then remove the wheel. NOTICE: Donot apply the brake after the wheel has been removed toge ther with the brake disc, other wise the brake pads will be forced shut.

To install the front wheel

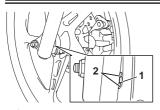
 Install the speedometer gear unit into the wheel hub so that the projection on the wheel hub fits in either slot of the speedometer gear unit.



- 1. Speedometer gear unit
- 2. Lift the wheel up between the fork legs.

TIP:

Make sure that there is enough space between the brake pads before inserting the brake disc and that the retainer in the speedometer gear unit fits over the slot on the fork leg.



- 1. Retainer
- 2. Slot
- 3. Insert the wheel axle, and then install the axle nut.
- Take the motorcycle off the centerstand so that the front wheel is on the ground.
- 5. Tighten the axle nut to the specified torque.

Tightening torque:

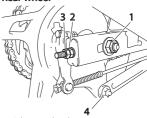
Axle nut: 40 Nm (4.0 m·kaf, 29 ft ·lbf)

TIP:

When tightening the axle nut, hold the wheel axle with a wrench to keep it from turning.

- While applying the front brake, push down hard on the handlebars several times to check if the front fork compresses and rebounds smoothly.
- 7. Connect the speedometer cable.

Rear wheel



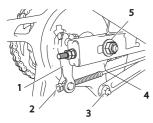
- 1. Axle nut and washer
- 2. Drive chain adjusting nut
- 3. Locknut drive chain adjusting nut
- 4. Brake torque rod nut

To remove the rear wheel

₩ARNING

To avoid injury, securely support the vehicle so there is no danger of it falling over.

- 1. Loosen the axle nut.
- Loosen the locknut and the drive chain slack adjusting nut on both ends of the swingarm.
- 3. Loosen the brake torque rod nut at the brake shoe plate.



- 1. Brake camshaft lever
- 2. Brake pedal free play adjusting nut
- 3. Brake torque rod nut and bolt
- 4. Brake rod
- 5. Washer and Axle nut
- Disconnect the brake torque rod from the brake shoe plate by removing the cotter pin, the nut, the washer and the bolt.
- Place the motorcycle on the centerstand.
- Remove the brake pedal free play adjusting nut, and then disconnect the brake rod from the brake camshaft lever.

Remove the axle nut and the washer, and then pull the wheel axle out.

TIP:_

Do not remove the washer on the right side of the wheel axle so as to not lose it.

Push the wheel forward, and then remove the drive chain from the rear sprocket.

TIP :

The drive chain does not need to be disassembled in order to remove and install the wheel.

9. Remove the wheel.

To install the rear wheel

- Insert the wheel axle from the lefthand side, and then install the washer and axle nut.
- Install the drive chain onto the rear sprocket.
- Lower the rear wheel so that it is on the ground, and then put the sidestand down.
- Install the brake rod onto the brake camshaft lever, and then install the brake pedal free play adjusting nut onto the brake rod.
- Connect the brake torque rod to the brake shoe plate by installing the bolt and the nut, and then tighten the nut to the specified torque.

Tightening torques:

Brake torque rod nut: 19 Nm (1.9 m·kgf, 14 ft·lbf)

- 6. Adjust the drive chain slack. (Seepage 6-21.)
- 7. Tighten the axle nut to the specified torque.

Tightening torque:

Axle nut: 60 Nm (6.0 m · kgf, 43 ft·lbf)

8. Adjust the brake pedal free play. (See page 6-1 8.)

⚠ WARNING

After adjusting the brake pedal free play, check the operation of the brake light.

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.

⚠ WARNING

When checking the fuel system, do not smoke, and make sure there are no open flames or sparks in the area, including pilot lights from water heaters or furnaces.

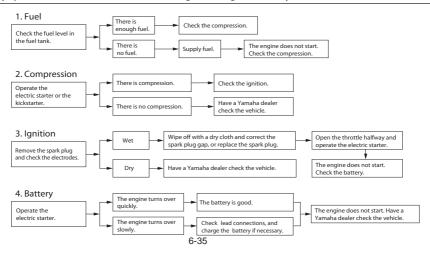
Gasoline or gasoline vapors can ignite or explode, causing severe injury or property damage.

Troubleshooting charts

Starting problems or poor engine performance



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



Care

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

Before cleaning

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

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

Cleaning

NOTICE:

- Avoid using strong acidic wheel cleaners, especially on spoked wheels. If such products are used on hard-to-remove dirt, do not leave the cleaner on the affected area any longer than instructed. Also, thoroughly rinse the area off with water, immediately dry it, and then apply a corrosion protection spray.
- Improper cleaning can damage windshields, cowlings, panels and other plastic parts. Use only a soft, clean cloth or sponge with mild detergent and water to clean plastic.
- Do not use any harsh chemical products on plastic parts. Be sure to avoid using cloths or sponges which have been in contact with strong or abrasive 7-1

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

After normal use

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

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

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

TIP:

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

Clean the motorcycle with cold water and a mild detergent, after the engine has cooled down. NOTICE:
 Do not use warm water since it increases the corrosive action of the salt.

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

After cleaning

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

- 7. Wax all painted surfaces.
- 8. Let the motorcycle dry completely before storing or covering it.

↑ WARNING

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

NOTICE:

 Apply spray oil and wax sparingly and make sure to wipe off any excess.

- Never apply oil or wax to any rubber and plastic parts, but treat them with a suitable care product.
- Avoid using abrasive polishing compounds as they will wear away the paint.

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

Storage

Short-term

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

NOTICE:

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

Long-term

Before storing your motorcycle for several months:

- 1. Follow all the instructions in the "Care" section of this chapter.
- For motorcycles equipped with a fuel cock that has an "OFF" position: Turn the fuel cock lever to "OFF".

- Drain the carburetor float chamber by loosening the drain bolt, this will prevent fuel deposits from building up. Pour the drained fuel into the fuel tank.
- Fill up the fuel tank and add fuel stabilizer (if available) to prevent the fuel tank from rusting and the fuel from deteriorating.
- Perform the following steps to protect the cylinder, piston rings, etc. from corrosion.
 - a. Remove the spark plug cap and spark plug.
 - 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.
- e. Remove the spark plug cap from the spark plug, and then install the spark plug and the spark plug cap.

- Lubricate all control cables and the pivoting points of all levers and pedals as well as of the sidestand/centerstand.
- 7. Check and, if necessary, correct the tire air pressure, and then lift the motorcycle so that both of its wheels are off the ground. Alternatively, turn the wheels a little every month in order to prevent the tires from becoming degraded in one spot.
- Cover the muffler outlet with a plastic bag to prevent moisture from entering it.
- Remove the battery and fully charge it. Store it in a cool, dry place and charge it once a month.
 Do not store the battery in an excessively cold or warm place [less than 0 °C (30 °F) or more than 30 °C (90 °F)]. For more information on storing the battery, see page 6-28.

TIP: ______ Make any necessary repairs before storing the motorcycle.

SPECIFICATIONS

		01 2011 107 111011
Dimensions: Overall length: 1935 mm Overall width: 680 mm Overall height: 1065 mm Seat height: 765 mm Wheelbase: 1240 mm Ground clearance: 150 mm Minimum turning radius: 1590 mm Weight: With oil and fuel: 102 kg	Lubrication system: Wet sump Engine oil: Type: SAE20W40 or SAE20W50 Recommended engine oil grade: API service SF, SG type or higher JASO MA Engine oil quantity: Periodic oil change: 0.80 L (0.85 US qt) (0.70 Imp.qt) With oil filter element replacement: 0.85 L (0.90 US qt) (0.74 Imp.qt) Total Capacity 1 L (1.05 US qt) (0.80 Imp.qt)	Spark plug (s): Manufacturer/model: NGK CR6HSA / DENSO U20FSR-U Spark plug gap: 0.6–0.7 mm (0.023–0.027 in) Clutch: Clutch type: Wet, multiple-disc and centrifugal automatic Transmission: Primary reduction system: Spur gear Primary reduction ratio: 58/20 (2.900) Secondary reduction system: Chain drive Secondary reduction ratio: 41/13 (3.154) Transmission type:
Engine: Engine type: Air cooled 4-stroke, S OHC Cylinder arrangement: Forward-inclined single cylinder Displacement: 113.7 cm³ Bore × stroke: 50.0 × 57.9 mm Compression ratio: 9.3 : 1 Starting system: Electric starter and kickstarter	Air filter: Air filter element: Wet type Fuel: Recommended fuel: Regular unleaded gasoline only Fuel tank capacity: 4.1 L Throttle body: Manufacturer: MIKUNI SE AC24-22/1 Type × quantity: VM17 SH ×1 8-1	Constant mesh 4-speed Operation: Left foot operation Gear ratio: 1st: 34/12 (2.833) 2nd: 30/16(1.875) 3rd: 23/17 (1.353) 4th: 23/22 (1.045) Chassis: Frame type: Steel tube underbone

Rear: Spring/shock absorber type: Caster angle: 225 kPa (33 psi) (2.25 kgf/cm²) 26.2° Coil spring/oil damper Loading condition: Wheel travels Trail: 90-110 kg (198 -243 lb) 100.0 mm 73.0 mm Front: Rear suspension: Front tire: 200 kPa (29 psi) (2.00 kgf/cm²) Type: Type: Rear: Swingarm With tube and tubeless 225 kPa (33 psi) (2.25 kgf/cm²) Size Spring/shock absorber type: Front wheel: Coil spring/oil damper 70/90-17 M/C 38P Wheel type: Wheel travel: Manufacturer/models Cast wheel / Spoke wheel 80.0 mm Vee Rubber / V322F Rim size: Electrical system: 17x1.40 lanition system: Rear wheel: Rear tire: DC CDI Wheel type: Charging system: Type: Cast wheel / Spoke wheel AC magneto With tube and tubeless Rim size: Size Battery: 17x1 40 80/90-17 M/C 44P Model: Front brake: Manufacturer/model: GT74S-MF Type: Vee Rubber / V322R Voltage, capacity: Single disc brake 12 V. 3.5 Ah Operation: Headlight: Right hand operation Loading: Bulb type: Recommended fluid: Maximum load: Krypton bulb DOT 3 or 4 Bulb voltage, wattage × quantity: 150 kg (331 lb) Rear brake: (Total weight of rider, passenger, cargo and Headlight: Type: accessories) 12 V. 25 W/25 W × 2 Drum brake Tire air pressure (measured on cold Operation: Tail/brake light: tires): 12 V. 5.0 W/21.0 W × 1 Right foot operation Front turn signal light: Loading condition: Front suspension: 12 V. 10.0 W × 2 0-90 kg (0 -198 lb) Type: Rear turn signal light: Front: Telescopic fork 12 V. 10.0 W × 2 200 kPa (29 psi) (2.00 kgf/cm²) 8-2

SPECIFICATIONS

Position light: $12V, 3.4 \text{ W} \times 2$ Meter lighting: Blue LED $0.3 \text{W} \times 3$ Neutral indicator light: $12V, 1.7 \text{ W} \times 1$ High beam indicator light: $12V, 1.7 \text{ W} \times 1$ Turn signal indicator light: $12V, 1.7 \text{ W} \times 2$ Luggage box illumination light: 16V, 380 mW (white) LED

Fuse:

Fuse:

7.5 A

Identification numbers

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

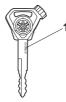
KEY IDENTIFICATION NUMBER:

VEHICLE IDENTIFICATION NUMBER:

ENGINE SERIAL NUMBER:



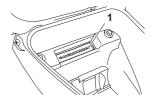
Key identification number



1. Key identification number

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

Vehicle Identification Number



1. Vehicle identification number

The vehicle identification number is stamped into the rear frame.

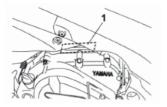
TIP

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

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Engine serial number



1. Engine serial number

The engine serial number is stamped into the crankcase.

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