

OWNER'S MANUAL

Diversion



4BR-28199-E7

XJ600S

Welcome to the Yamaha world of motorcycling!

As the owner of an XJ600S/XJ600N, 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 XJ600S/XJ600N. The 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 hesitate to contact your Yamaha dealer.

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

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

Â	The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!
	Failure to follow WARNING instructions <u>could result in severe injury or death</u> to the motorcycle operator, a bystander, or a person inspecting or repairing the motorcycle.
CAUTION:	A CAUTION indicates special precautions that must be taken to avoid damage to the motorcycle.
NOTE:	A NOTE provides key information to make procedures easier or clearer.

NOTE:

- This manual should be considered a permanent part of this motorcycle and should remain with it even if the motorcycle is subsequently sold.
- 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 you have any questions concerning this manual, please consult your Yamaha dealer.

IMPORTANT MANUAL INFORMATION

EW000002

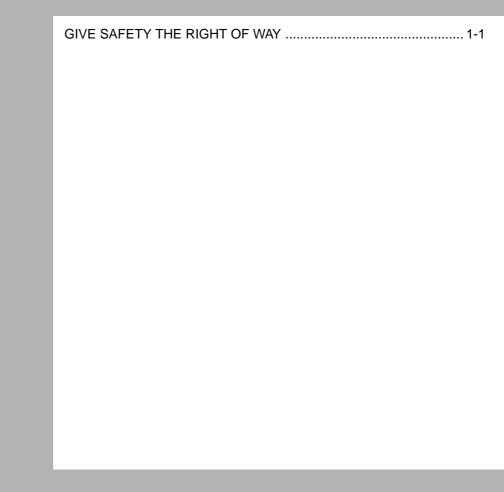
PLEASE READ THIS MANUAL CAREFULLY AND COMPLETELY BEFORE OPERATING THIS MOTORCYCLE.

EAU03337

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▲ GIVE SAFETY THE RIGHT OF WAY



▲ GIVE SAFETY THE RIGHT OF WAY

Regular care and maintenance are essential for preserving value and operating condition of your motorcycle. Moreover, what is true for the motorcycle is also true for the rider: good performance depends on being in good shape. Riding under the influence of medication, drugs and alcohol is, of course, out of the question. Motorcycle riders—more than car drivers—must always be at their mental and physical best. Under the influence of even small amounts of alcohol, there is a tendency to take dangerous risks.

Protective clothing is as essential for the motorcycle rider as seat belts are for car drivers and passengers. Always wear a complete motorcycle suit (whether made of leather or tear-resistant synthetic materials with protectors), sturdy boots, motorcycle gloves and a properly fitting helmet. Optimum protective wear, however, should not encourage carelessness. Although full-coverage helmets and suits, in particular, create an illusion of total safety and protection, motorcyclists will always be vulnerable. Riders who lack critical self-control run the risk of going too fast and are apt to take chances. This is even more dangerous in wet weather. The good motorcyclist rides safely, predictably and defensively—avoiding all dangers, including those caused by others.

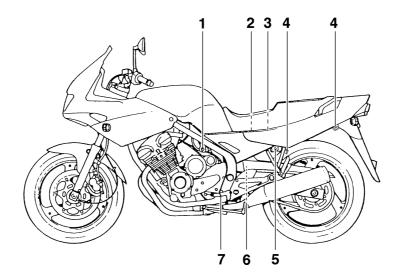
Enjoy your ride!

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DESCRIPTION

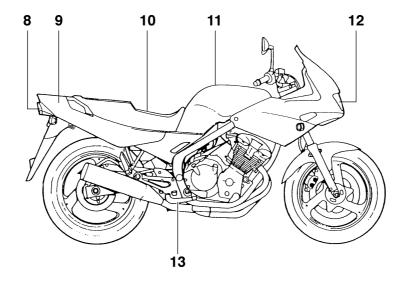
Left view (XJ600S)



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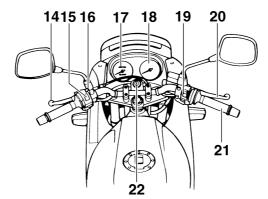


8. Tail/bra	ke light
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DESCRIPTION

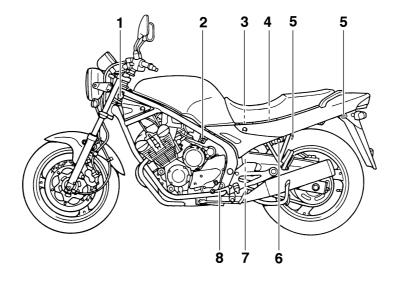
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Left view (XJ600N)

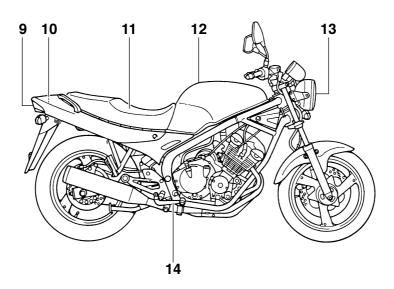


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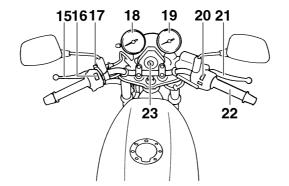
DESCRIPTION

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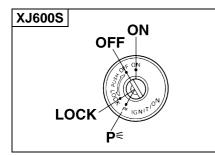
Controls and instruments (XJ600N)

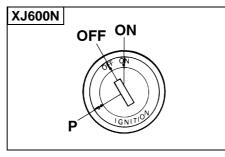


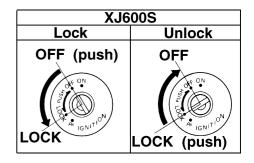
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EAU00029

Main switch/steering lock

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

EAU00036

ON

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

OFF

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

EAU00038

LOCK (for XJ600S)

EAU00040

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

To lock the steering

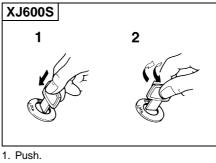
- 1. Turn the handlebars all the way to the left.
- Push the key in from the "OFF" position, and then turn it to "LOCK" while still pushing it.
- 3. Remove the key.

To unlock the steering

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

A 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".



2. Turn.

EW000016

P€ (Parking) (for XJ600S)

The steering is locked, and the taillight and auxiliary light are on, but all other electrical systems are off. The key can be removed.

The steering must be locked before the key can be turned to "P≤".

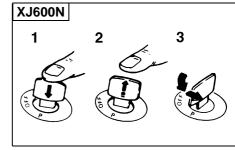
ECA00043

EAU01590

CAUTION:

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

3-2



1. Push.

2. Release.

3. Turn.

EAU00055

3

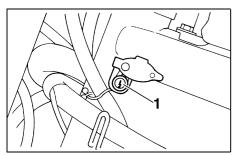
P (Parking) (for XJ600N)

The taillight and auxiliary light are on, but all other electrical systems are off. The key can be removed.

The key must be pushed in, and then released before it can be turned to "P".

CAUTION:

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



- 3
- 1. Steering lock

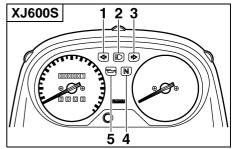
Steering lock (for XJ600N)

To lock the steering

- 1. Turn the handlebar all the way to right.
- 2. Open the steering lock cover, and then insert the key.
- 3. Turn the key 1/8 turn counterclockwise, push it in while turning the handlebar slightly to the left, and then turn the key 1/8 turn clockwise.
- 4. Check that the steering is locked, remove the key, and then close the lock cover.

To unlock the steering

- 1. Open the steering lock cover, and then insert the key.
- 2. Push the key in, turn it 1/8 turn counterclockwise so that it moves out, and then release it.
- 3. Remove the key, and then close the lock cover.



- 1. Left turn indicator light " < > "
- 2. High beam indicator light "≣O"
- 3. Right turn indicator light "
 → "
- 4. Neutral indicator light "N"
- 5. Oil level warning light "

EAU03034

Indicator and warning lights

EAU03299

Turn signal indicator lights

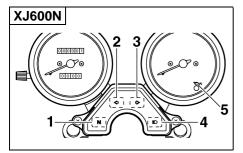
"⇔"/"⇔"

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

EAU00061

Neutral indicator light " N "

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



- 1. Neutral indicator light "N"
- 2. Left turn indicator light " < > "
- 4. High beam indicator light "≣O"
- 5. Oil level warning light " *** "

EAU00063

High beam indicator light " ≣○ "

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

EAU03201

Oil level warning light " ** "

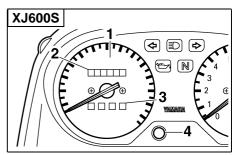
This warning light comes on when the engine oil level is low.

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

- 1. Set the engine stop switch to "○" and turn the key to "ON".
- 2. Shift the transmission into the neutral position or pull the clutch lever.
- 3. Push the start switch. If the warning light does not come on while pushing the start switch, have a Yamaha dealer check the electrical circuit.

NOTE: _

Even if the oil level is sufficient, the warning light may flicker when riding on a slope or during sudden acceleration or deceleration, but this is not a malfunction.



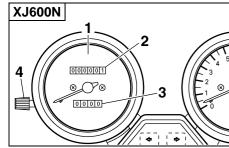
- 1. Speedometer
- 2. Odometer
- 3. Tripmeter
- 4. Reset button

EAU00094

3

Speedometer unit (for XJ600S)

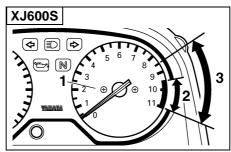
The speedometer unit is equipped with a speedometer, an odometer and a tripmeter. The speedometer shows riding speed. The odometer shows the total distance traveled. The tripmeter shows the distance traveled since it was last set to zero with the reset button. The tripmeter can be used to estimate the distance that can be traveled with a full tank of fuel. This information will enable you to plan future fuel stops.



- 3
- 1. Speedometer
- 2. Odometer
- 3. Tripmeter
- 4. Reset knob

Speedometer unit (for XJ600N)

The speedometer unit is equipped with a speedometer, an odometer and a tripmeter. The speedometer shows riding speed. The odometer shows the total distance traveled. The tripmeter shows the distance traveled since it was last set to zero with the reset knob. The tripmeter can be used to estimate the distance that can be traveled with a full tank of fuel. This information will enable you to plan future fuel stops.



- 1. Tachometer
- 2. Red zone (except for CH, A)
- 3. Red zone (for CH, A)

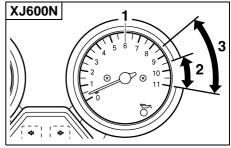
Tachometer

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

EC000003*

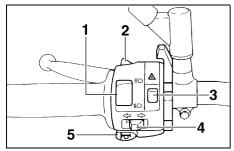
CAUTION:

Do not operate the engine in the tachometer red zone. Red zone: 9,500 r/min and above (except for CH, A) 8,500 r/min and above (for CH, A)



- 1. Tachometer
- 2. Red zone (except for CH, A)
- 3. Red zone (for CH, A)

EAU00101



- 1. Dimmer switch
- 2. Pass switch "PASS"
- 3. Hazard switch " A "
- 4. Turn signal switch
- 5. Horn switch " > "

Handlebar switches

FAI 100144

Hazard switch " & "

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

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

EC000006

Turn signal switch

To signal a right-hand turn, push this switch to " \dashv >". To signal a left-hand turn, push this switch to " \triangleleft ". 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.

EAU00129

3

EAU00127

CAUTION:

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

Horn switch " > "

Press this switch to sound the horn.

EAU00120

FAU00118

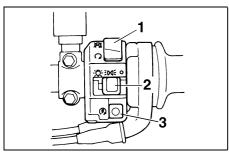
Pass switch "PASS"

Press this switch to flash the headlight.

EAU00121

Dimmer switch

Set this switch to "EO" for the high beam and to " \$\overline{O} " for the low beam.



- 3
- 1. Engine stop switch
- 2. Light switch
- 3. Start switch " (1) "

EAU00138

EAU00134

Engine stop switch

Set this switch to " \bigotimes " to stop the engine in case of an emergency, such as when the motorcycle overturns or when the throttle cable is stuck.

Light switch

Set this switch to " $\exists D \ d \equiv$ " to turn on the auxiliary light, meter lighting and taillight. Set the switch to " $\ d \in$ " to turn on the headlight also.

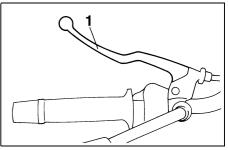
EAU00143

Start switch " (*s*)" Push this switch to crank the engine with the starter.

EC000005

CAUTION:

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



1. Clutch lever

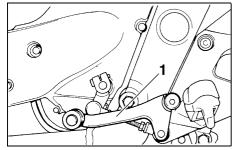
EAU00152

Clutch lever

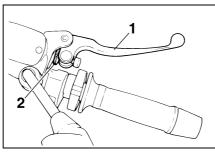
The clutch lever is located at the left handlebar grip. To disengage the clutch, pull the lever toward the handlebar grip. To engage the clutch, release the lever. The lever should be pulled rapidly and released slowly for smooth clutch operation.

The clutch lever is equipped with a clutch switch, which is part of the ignition circuit cut-off system. (See page 3-16 for an explanation of the ignition circuit cut-off system.)

EAU00160



1. Shift pedal

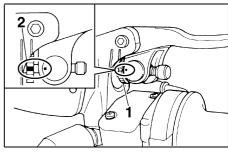


Brake lever
 Position adjusting nut

Brake lever

EAU00157

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



3

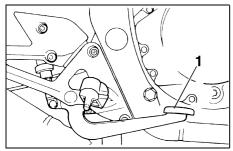
The brake lever is equipped with a position adjusting nut. To adjust the distance between the brake lever and the handlebar grip, turn the adjusting nut while holding the lever pushed away from the handlebar grip. Make sure that the mark "■" on the adjusting nut is aligned with the mark "●" on the brake lever.

Shift pedal

The shift pedal is located on the left side of the engine and is used in combination with the clutch lever when shifting the gears of the 6-speed constant-mesh transmission equipped on this motorcycle.

Brake lever position adjusting nut
 Properly aligned marks

EAU00162

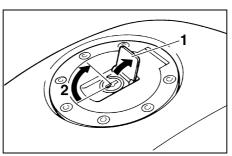


3

1. Brake pedal

Brake pedal

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



Fuel tank cap lock cover
 Unlock.

Fuel tank cap

To open the fuel tank cap

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

To close the fuel tank cap

- 1. Push the fuel tank cap into position with the key inserted in the lock.
- 2. Turn the key counterclockwise to the original position, remove it, and then close the lock cover.

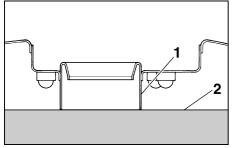
NOTE:

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

EWA00025

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

EAU02935



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

EAU01183

EW000130

Fuel

Make sure that there is sufficient fuel in the tank. Fill the fuel tank to the bottom of the filler tube as shown in the illustration.

- Do not overfill the fuel tank, otherwise it may overflow when the fuel warms up and expands.
- Avoid spilling fuel on the hot engine.

EAU00185

CAUTION:

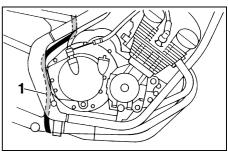
Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts.

EAU00191

Recommended fuel: Regular unleaded gasoline with a research octane number of 91 or higher Fuel tank capacity: Total amount: 17.0 L Reserve amount: 3.5 L

NOTE: _

If knocking (or pinging) occurs, use gasoline of a different brand or with a higher octane grade.



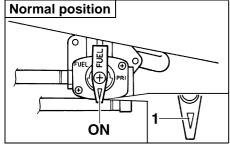
1. Fuel tank breather hose

EAU00196

Fuel tank breather hose (for Germany only)

Before operating the motorcycle:

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



1. Arrow mark positioned over "ON"

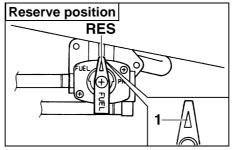
Fuel cock

The fuel cock supplies fuel from the tank to the carburetors while also filtering it.

The fuel cock lever positions are explained as follows and shown in the illustrations.

ON

With the fuel cock lever in this position, fuel flows to the carburetors when the engine is running. Turn the fuel cock lever to this position when starting the engine and riding.

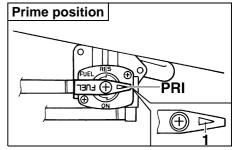


1. Arrow mark positioned over "RES"

RES

EAU00207

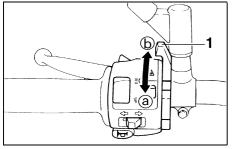
This indicates reserve. With the fuel cock lever in this position, the fuel reserve is made available. Quickly turn the fuel cock lever to this position if you run out of fuel while riding, otherwise the engine may stall and will have to be primed (see "PRI"). After turning the fuel cock lever to "RES", refuel as soon as possible and be sure to turn the fuel cock lever back to "ON"!



^{1.} Arrow mark positioned over "PRI"

PRI

This indicates prime. With the fuel cock lever in this position, the engine can be "primed". Turn the fuel cock lever to this position when the engine has been allowed to run out of fuel. This sends fuel directly to the carburetors, which will make starting easier. After the engine has started, be sure to turn the lever to "ON" (or "RES" if you have not refueled yet).



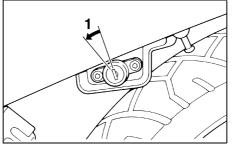
1. Starter (choke) lever

Starter (choke) lever

Starting a cold engine requires a richer air-fuel mixture, which is supplied by the starter (choke).

Move the lever in direction (a) to turn on the starter (choke).

Move the lever in direction (b) to turn off the starter (choke).



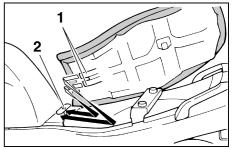


Seat

EAU02976

To remove the seat

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



Projection (× 2)
 Seat holder

To install the seat

Insert the projections on the front of the seat into the seat holder, push the rear of the seat down to lock it in place, and then remove the key.

NOTE: ____

EALI02925

Make sure that the seat is properly secured before riding. 3

WARNING

holder

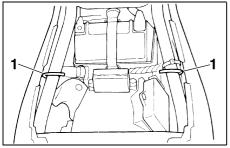
the seat.

Never ride with a helmet attached to a helmet holder, since the helmet may hit objects, causing loss of control and possibly an accident.

To release a helmet from a helmet

Remove the seat, remove the helmet

from the helmet holder, and then install



3

1. Helmet holder (\times 2)

EAU02936

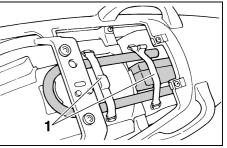
Helmet holders

The helmet holders are located under the seat.

To secure a helmet to a helmet holder

- Remove the seat. (See page 3-12 for seat removal and installation procedures.)
- 2. Attach the helmet to the helmet holder, and then securely install the seat.

EWA00015



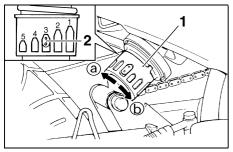
1. Strap for U-LOCK (\times 2)

EAU01688

Storage compartment

This storage compartment is designed to hold a genuine Yamaha U-LOCK. (Other locks may not fit.) When placing a U-LOCK in the storage compartment, securely fasten it with the straps. When the U-LOCK is not in the storage compartment, be sure to secure the straps to prevent losing them.

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 motorcycle, be careful not to let any water enter the storage compartment.



1. Spring preload adjusting ring

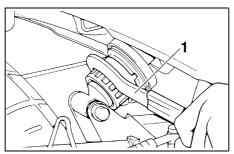
2. Position indicator

Adjusting the shock absorber assembly

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

CAUTION:

Never attempt to turn an adjusting mechanism beyond the maximum or minimum settings.



1. Special wrench

Adjust the spring preload as follows. To increase the spring preload and thereby harden the suspension, turn the adjusting ring in direction (a). To decrease the spring preload and thereby soften the suspension, turn the adjusting ring in direction (b).

NOTE: ____

EC000015

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

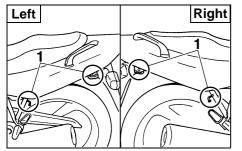
		nimum Star soft) dare		Maximum (hard)		d)	
Setting	1	2	3	4	5	6	7

This shock absorber contains highly pressurized nitrogen gas. For proper handling, read and understand the following information before handling the shock absorber. The manufacturer cannot be held responsible for property damage or personal injury that may result from improper handling.

- Do not tamper with or attempt to open the gas cylinder.
- Do not subject the shock absorber to an open flame or other high heat sources, otherwise it may explode due to excessive gas pressure.
- Do not deform or damage the gas cylinder in any way, as this will result in poor damping performance.
- Always have a Yamaha dealer service the shock absorber.

EAU00315

EAU01398



1. Luggage strap holder (\times 4)

Luggage strap holders

There are four luggage strap holders: one on each passenger footrest bracket and one below each side of the seat.

Sidestand

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

NOTE:

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

EAU00330

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

EW000044

EAU00332

Ignition circuit cut-off system

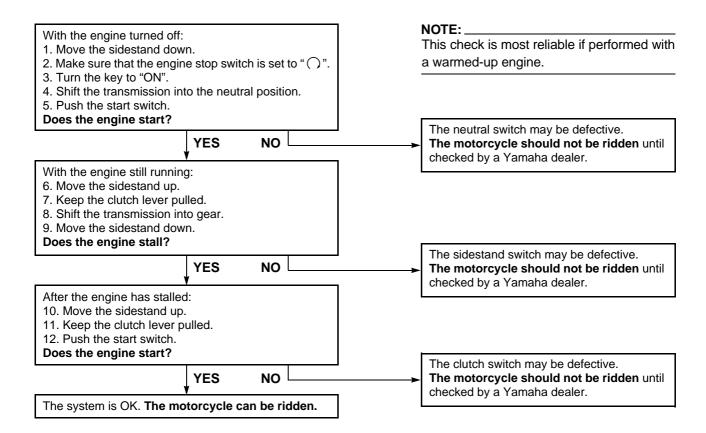
The ignition circuit cut-off system (comprising the sidestand switch, clutch switch and neutral switch) has the following functions.

- It prevents starting when the transmission is in gear and the sidestand is up, but the clutch lever is not pulled.
- It prevents starting when the transmission is in gear and the clutch lever is pulled, but the sidestand is still down.
- It cuts the running engine when the sidestand is moved down.

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

EW000046

- The vehicle must be placed on the centerstand during this inspection.
- If a malfunction is noted, have a Yamaha dealer check the system before riding.



PRE-OPERATION CHECKS

Pre-operation check list 4-1

PRE-OPERATION CHECKS

The condition of a vehicle is the owner's responsibility. Vital components can start to deteriorate quickly and unexpectedly, even if the vehicle remains unused (for example, as a result of exposure to the elements). Any damage, fluid leakage or loss of tire air pressure could have serious consequences. Therefore, it is very important, in addition to a thorough visual inspection, to check the following points before each ride.

EAU03328

ITEM	CHECKS	PAGE
Front brake	Check operation, fluid level and fluid leakage.	6-19–6-21
Rear brake	 Fill with DOT 4 brake fluid if necessary. 	6-18–6-21
Clutch	Check operation, condition and free play.Adjust if necessary.	6-17–6-18
Throttle grip and housing	Check smooth operation.Lubricate if necessary.	6-13, 6-24
Engine oil	Check oil level.Fill with oil if necessary.	6-7–6-10
Drive chain	Check chain slack and condition.Adjust if necessary.	6-21–6-23
Wheels and tires	Check tire pressure, wear and damage.	6-14–6-17, 6-33–6-36
Control and meter cables	Check smooth operation.Lubricate if necessary.	6-23
Brake and shift pedal shafts	Check smooth operation.Lubricate if necessary.	6-24
Brake and clutch lever pivots	Check smooth operation.Lubricate if necessary.	6-25
Center and sidestand pivots	Check smooth operation.Lubricate if necessary.	6-25

Pre-operation check list

PRE-OPERATION CHECKS

ITEM	ITEM CHECKS			
Chassis fasteners	 Make sure that all nuts, bolts and screws are properly tightened. Tighten if necessary. 	_		
Fuel	Check fuel level.Fill with fuel if necessary.	3-9–3-10		
Lights, signals and switches	Check proper operation.	_		

NOTE: _

Pre-operation checks should be made each time the motorcycle is used. Such an inspection can be accomplished in a very short time; and the added safety it assures is more than worth the time involved.

If any item in the Pre-operation check list is not working properly, have it inspected and repaired before operating the motorcycle.

Starting a cold engine	. 5-1
Starting a warm engine	5-2
Shifting	. 5-3
Recommended shift points (for Switzerland only)	. 5-3
Tips for reducing fuel consumption	. 5-4
Engine break-in	. 5-4
Parking	. 5-5

- 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.

EAU00373

Starting a cold engine

In order for the ignition circuit cut-off system to enable starting, one of the following conditions must be met:

- The transmission is in the neutral position.
- The transmission is in gear with the clutch lever pulled and the sidestand up.

EW000054

EAU00381

- Before starting the engine, check the function of the ignition circuit cut-off system according to the procedure described on page 3-16.
- Never ride with the sidestand down.
- 1. Turn the fuel cock lever to "ON".
- Turn the key to "ON" and make sure that the engine stop switch is set to "○".
- 3. Shift the transmission into the neutral position.

NOTE:

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

- 4. Turn the starter (choke) on and completely close the throttle. (See page 3-12 for starter (choke) operation.)
- 5. Start the engine by pushing the start switch.

NOTE: _____

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

EC000034

CAUTION:

The oil level warning light should come on when the start switch is pushed, and it should go off when the start switch is released. If the oil level warning light flickers or remains on after starting, immediately stop the engine, and then check the engine oil level and the vehicle for oil leakage. If necessary, add engine oil, and then check the warning light again. If the warning light does not come on when pushing the start switch, or if it does not go off after starting with sufficient engine oil. have a Yamaha dealer check the electrical circuit.

6. After starting the engine, move the starter (choke) knob/lever back halfway.

034

CAUTION:

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

7. When the engine is warm, turn the starter (choke) off.

NOTE:

The engine is warm when it responds normally to the throttle with the starter (choke) turned off.

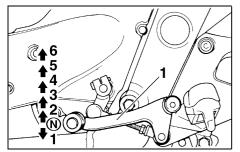
ECA00045

Starting a warm engine

Follow the same procedure as for starting a cold engine with the exception that the starter (choke) is not required when the engine is warm.

EAU01258

EAU00423



^{1.} Shift pedal N. Neutral position

Shifting

5

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

The gear positions are shown in the illustration.

NOTE: _

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

- Even with the transmission in the neutral position, do not coast for long periods of time with the engine off, and do not tow the motorcycle for long distances. The transmission is properly lubricated only when the engine is running. Inadequate lubrication may damage the transmission.
- Always use the clutch while changing gears to avoid damaging the engine, transmission, and drive train, which are not designed to withstand the shock of forced shifting.

EC000048

Recommended shift points (for Switzerland only)

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

	Shift point (km/h)
1st \rightarrow 2nd	20
2nd \rightarrow 3rd	30
$3rd \rightarrow 4th$	40
$4th \rightarrow 5th$	50
5th \rightarrow 6th	60

NOTE:

When shifting down two gears at a time, reduce the speed accordingly (e.g., down to 35 km/h when shifting from 5th to 3rd gear).

EAU02937

EAU00424

Engine break-in

Tips for reducing fuel consumption Fuel consumption depends largely on

your riding style. Consider the following tips to reduce fuel consumption:

- Thoroughly warm up the engine.
- Turn the starter (choke) off as soon as possible.
- 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).

There is never a more important period in the life of your engine than the period between 0 and 1,000 km. 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 1,000 km. The various parts in the engine wear and polish themselves to the correct operating clearances. During this period, prolonged full-throttle operation or any condition that might result in engine overheating must be avoided.

EAU00436

0–150 km

- Avoid prolonged operation above 5,000 r/min.
- 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

- Avoid prolonged operation above 6,000 r/min.
- Rev the engine freely through the gears, but do not use full throttle at any time.

EAU00440

500-1,000 km

- Avoid prolonged full-throttle operation.
- Avoid prolonged operation above 7.000 r/min.

CAUTION:

After 1,000 km of operation, the engine oil must be changed and the oil filter cartridge/element replaced.

5

1,000 km and beyond

The vehicle can now be operated normally.

EC000053

EC000052

CAUTION:

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

Parking

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

EW000058

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 motorcycle may overturn.

FAI 100460

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EAU00462

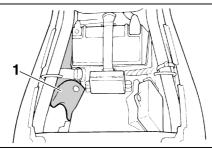
EW000063

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU00464

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.

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



1. Tool kit

Owner's tool kit

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.

NOTE:

EW000060

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

EAU00469

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.

EAU03540

Periodic maintenance and lubrication chart

NOTE:

• The annual checks must be performed every year, except if a kilometer-based maintenance is performed instead.

• From 50,000 km, repeat the maintenance intervals starting from 10,000 km.

• Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills.

NO.		ITEM		ODO	METER	READIN	G (×1,00	00 km)	Annual	
N	0.	ITEM	TEM CHECK OR MAINTENANCE JOB	1	10	20	30	40	check	
1	*	Fuel line	Check fuel hoses and vacuum hose for cracks or damage.		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
2	*	Fuel filter	Check condition.							
3		Spark plugs	Check condition. Clean and regap.		\checkmark		\checkmark			
			Replace.			\checkmark				
4	*	Valves	Check valve clearance. Adjust.	Every 20,000 km						
5		• Clean.			\checkmark		\checkmark			
Э		Air filter element	Replace.			\checkmark				
6		Clutch	Check operation. Adjust.	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
7	*	Front brake	Check operation, fluid level and vehicle for fluid leakage. (See NOTE on page 6-4.)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
			Replace brake pads.		W	henever	ever worn to the limit			
8	*	Rear brake	Check operation, fluid level and vehicle for fluid leakage. (See NOTE on page 6-4.)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
			Replace brake pads.	Whenever worn to the limit			•			
9	*	Brake hoses	Check for cracks or damage.		\checkmark	\checkmark	\checkmark		\checkmark	
Э	×	brake noses	• Replace. (See NOTE on page 6-4.)			Ever	y 4 years			

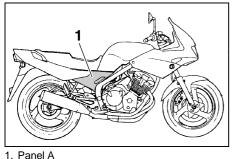
NO.		ITEM	CHECK OR MAINTENANCE JOB	ODO	METER	READIN	G (×1,00	0 km)	Annual
				1	10	20	30	40	check
10	*	Wheels	 Check runout and for damage. 		\checkmark	\checkmark	\checkmark	\checkmark	
11	*	Tires	 Check tread depth and for damage. Replace if necessary. Check air pressure. Correct if necessary. 		V	\checkmark	\checkmark	\checkmark	
12	*	Wheel bearings	 Check bearing for looseness or damage. 		\checkmark	\checkmark	\checkmark	\checkmark	
13	*	Swingarm	Check operation and for excessive play.		\checkmark	\checkmark		\checkmark	
13		Swingarin	 Lubricate with molybdenum disulfide grease. 			Every \$	50,000 ki	n	
14		Drive chain	 Check chain slack. Make sure that the rear wheel is properly aligned. Clean and lubricate. 	Every 1,000 km and after washing the motorcycle or riding in the rain.					
15	*	Steering bearings	 Check bearing play and steering for roughness. 	\checkmark	\checkmark			\checkmark	
15	î	Steering bearings	 Lubricate with lithium-soap-based grease 	Every 20,000 km					
16	*	Chassis fasteners	Make sure that all nuts, bolts and screws are properly tightened.		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
17		Sidestand/centerstand	Check operation. Lubricate.		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
18	*	Sidestand switch	Check operation.	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
19	*	Front fork	Check operation and for oil leakage.		\checkmark	\checkmark			
20	*	Rear shock absorber assembly	Check operation and shock absorber for oil leakage.		\checkmark	\checkmark	\checkmark	\checkmark	
		Rear suspension relay	Check operation.		\checkmark	\checkmark		\checkmark	
21	*	arm and connecting arm pivoting points	Lubricate with molybdenum disulfide grease.			\checkmark		\checkmark	
22	*	Carburetors	Check starter (choke) operation.Adjust engine idling speed and synchronization.	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
23		Engine oil	• Change.	\checkmark	\checkmark	\checkmark			\checkmark
24		Engine oil filter cartridge	Replace.	\checkmark		\checkmark		\checkmark	

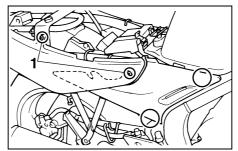
	0.	ITEM	CHECK OR MAINTENANCE JOB	ODOMETER READING (×1,000 km)					Annual
	υ.			1	10	20	30	40	check
25	*	Front and rear brake switches	Check operation.		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
26	5	Moving parts and cables	Lubricate.		\checkmark		\checkmark	\checkmark	\checkmark
27	*	Lights, signals and switches	Check operation.Adjust headlight beam.	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark

EAU03884

NOTE:

- 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 cylinders and calipers, and change the brake fluid.
 - Replace the brake hoses every four years and if cracked or damaged.





1. Screw (× 2)

EAU02926

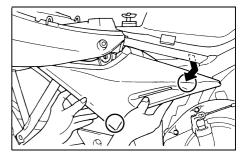
Removing and installing the panel

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

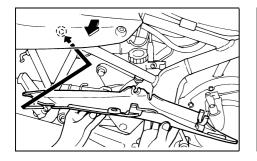
Panel A

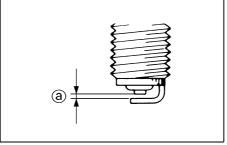
To remove the panel

- 1. Remove the seat. (See page 3-12 for seat removal and installation procedures.)
- 2. Remove the screws, and then slide the panel as shown to release it.



EAU01880





a. Spark plug gap

To install the panel

- 1. Place the panel in the original position, and then install the screws.
- 2. Install the seat.

Checking the spark plugs

The spark plugs are important engine components, which should be checked periodically, preferably by a Yamaha dealer. Since heat and deposits will cause any spark plug to slowly erode, they should be removed and checked in accordance with the periodic maintenance and lubrication chart. In addition, the condition of the spark plugs can reveal the condition of the engine. The porcelain insulator around the center electrode of each spark plug should be a medium-to-light tan (the ideal color when the motorcycle is ridden normally), and all spark plugs installed in the engine should have the same color. If any spark plug shows a distinctly different color, the engine could be defective. Do not attempt to diagnose such problems yourself. Instead, have a Yamaha dealer check the motorcycle. If a spark plug shows signs of electrode erosion and excessive carbon or other deposits, it should be replaced.

Specified spark plug: CR8E (NGK) or U24ESR-N (DENSO)

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

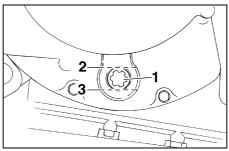
Spark plug gap: 0.7–0.8 mm

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

Tightening torque: Spark plug: 12.5 Nm (1.25 m·kg)

NOTE:

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.



- 1. Engine oil level window
- 2. Maximum level mark
- 3. Minimum level mark

EAU02938

Engine oil and oil filter cartridge

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

To check the engine oil level

1. Place the motorcycle on the centerstand.

NOTE:

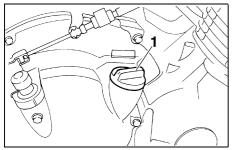
Make sure that the motorcycle is positioned straight up when checking the oil level. A slight tilt to the side can result in a false reading.

- 2. Start the engine, warm it up for several minutes, and then turn it off.
- 3. Wait a few minutes until the oil settles, and then check the oil level through the check window located at the bottom-right side of the crankcase.

NOTE: ____

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

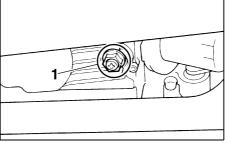
4. If the engine oil is below the minimum level mark, add sufficient oil of the recommended type to raise it to the correct level.



1. Engine oil filler cap

To change the engine oil (with or without oil filter cartridge replacement)

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

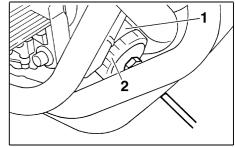


1. Engine oil drain bolt

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

NOTE: _

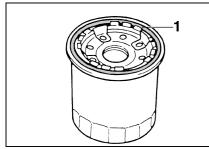
Skip steps 4–6 if the oil filter cartridge is not being replaced.



- 1. Oil filter cartridge
- 2. Oil filter wrench
- 4. Remove the oil filter cartridge with an oil filter wrench.

NOTE: _____

An oil filter wrench is available at a Yamaha dealer.

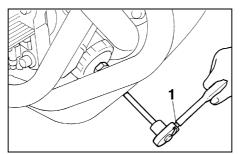


1. O-ring

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

NOTE:

Make sure that the O-ring is properly seated.



1. Torque wrench

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

Tightening torque: Oil filter cartridge: 17 Nm (1.7 m·kg)

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

Tightening torque: Engine oil drain bolt: 43 Nm (4.3 m·kg) 8. 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: Without oil filter cartridge replacement: 2.3 L With oil filter cartridge replacement: 2.6 L Total amount (dry engine): 3.1 L

EC000072

CAUTION:

- In order to prevent clutch slippage (since the engine oil also lubricates the clutch), do not mix any chemical additives with the oil or use oils of a higher grade than "CD". In addition, do not use oils labeled "ENERGY CONSERVING II" or higher.
- 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.

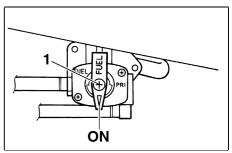
NOTE:

After the engine is started, the engine oil level warning light should go off if the oil level is sufficient. EC000067

CAUTION:

If the oil level warning light flickers or remains on, immediately turn the engine off and have a Yamaha dealer check the vehicle.

10. Turn the engine off, and then check the oil level and correct it if necessary.



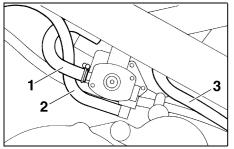
1. Screw

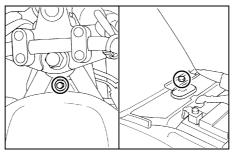
EAU02928

Cleaning the air filter element

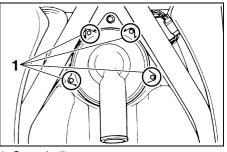
The air filter element should be cleaned at the intervals specified in the periodic maintenance and lubrication chart. Clean the air filter element more frequently if you are riding in unusually wet or dusty areas.

- 1. Remove the seat. (See page 3-12 for seat removal and installation procedures.)
- 2. Turn the fuel cock lever to "ON", and then remove the fuel cock lever by removing the screw.

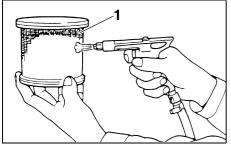




- 1. Fuel hose
- 2. Vacuum hose
- 3. Fuel tank drain hose
- 3. Disconnect the hoses shown.
- 4. Remove the fuel tank by removing the bolts.



- 1. Screw (× 4)
 - 5. Remove the air filter case cover by removing the screws.
 - 6. Pull the air filter element out.



- 1. Air filter element
- Lightly tap the air filter element to remove most of the dust and dirt, and then blow the remaining dirt out with compressed air as shown. If the air filter element is damaged, replace it.
- 8. Insert the air filter element into the air filter case.

CAUTION:

- 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.
- 9. Install the air filter case cover by installing the screws.
- 10. Install the fuel tank by installing the bolts.
- 11. Connect the hoses.
- 12. Install the fuel cock lever by installing the screw.
- 13. Install the seat.

EC000082

EAU00630

Adjusting the carburetors

The carburetors are important parts of the engine and require very sophisticated adjustment. Therefore, most carburetor adjustments should be left to a Yamaha dealer, who has the necessary professional knowledge and experience. The adjustment described in the following section, however, may be serviced by the owner as part of routine maintenance.

EC000095

CAUTION:

The carburetors have been set and extensively tested at the Yamaha factory. Changing these settings without sufficient technical knowledge may result in poor performance of or damage to the engine.

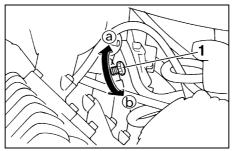
Adjusting the engine idling speed

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

 Start the engine and warm it up for several minutes at 1,000– 2,000 r/min while occasionally revving it to 4,000–5,000 r/min.

NOTE: _

The engine is warm when it quickly responds to the throttle.



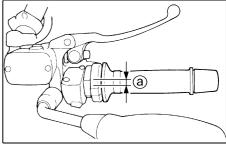
1. Throttle stop screw

 Check the engine idling speed and, if necessary, adjust it to specification by turning the throttle stop 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).

Engine idling speed: 1,200 – 1,300 r/min

NOTE: _

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



a. Throttle cable free play

EAU00635

Adjusting the throttle cable free play

The throttle cable free play should measure 3–5 mm at the throttle grip. Periodically check the throttle cable free play and, if necessary, have a Yamaha dealer adjust it.

EAU00637

Adjusting the 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.

EAU03362

Tire air pressure (measured on cold tires)								
Load*	Front	Rear						
Up to 90 kg	200 kPa 2.00 kg/cm ² 2.00 bar	225 kPa 2.25 kg/cm ² 2.25 bar						
90 kg–maximum	200 kPa 2.00 kg/cm ² 2.00 bar	250 kPa 2.50 kg/cm ² 2.50 bar						
High-speed riding	200 kPa 2.00 kg/cm ² 2.00 bar	250 kPa 2.50 kg/cm ² 2.50 bar						

EW000082

082	Maximu

um load*	AJ0003. 164 Kg
	XJ600N: 187 kg

V 16006 · 194 kg

Total weight of rider, passenger, cargo and accessories

WARNING

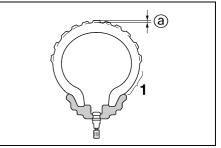
- The tire air pressure must be checked and adjusted on cold tires (i.e., when the temperature of the tires equals the ambient temperature).
- The tire air pressure must be adjusted in accordance with the riding speed and with the total weight of rider, passenger, cargo, and accessories approved for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

EWA00012

Because loading has an enormous impact on the handling, braking, performance and safety characteristics of your motorcycle, you should keep the following precautions in mind.

- NEVER OVERLOAD THE MOTORCYCLE! Operation of an overloaded motorcycle may result in tire damage, loss of control, or severe injury. Make sure that the total weight of rider, passenger, cargo, and accessories does not exceed the specified maximum load for the vehicle.
- Do not carry along loosely packed items, which can shift during a ride.
- Securely pack the heaviest items close to the center of the motorcycle and distribute the weight evenly on both sides.

- Adjust the suspension and tire air pressure with regard to the load.
- Check the tire condition and air pressure before each ride.



1. Side wall

a. Tire tread depth

Tire inspection

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

Minimum tire tread depth (front and rear)	1.6 mm
· · · · · · · · · · · · · · · · · · ·	

NOTE:

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

- Have a Yamaha dealer replace excessively worn tires. Besides being illegal, operating the motorcycle with excessively worn tires decreases riding stability and can lead to loss of control.
- 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.

EW000079 Tire information

This motorcycle is equipped with tube tires.

EW000078

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

FRONT

Manufacturer	Size	Туре
DUNLOP	110/80-17 57H	D103FA
MICHELIN	110/80-17 57H	MACADAM 50

REAR

Manufacturer	Size	Туре
DUNLOP	130/70-18 63H	D103A
MICHELIN	130/70-18 63H	MACADAM 50

EAU00683

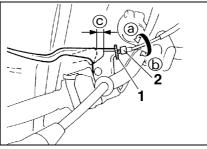
- Have a Yamaha dealer replace excessively worn tires. Besides being illegal, operating the motorcycle with excessively worn tires decreases riding stability and can lead to loss of control.
- The replacement of all wheeland brake-related parts, including the tires, should be left to a Yamaha dealer, who has the necessary professional knowledge and experience.

FALI00687

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 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.

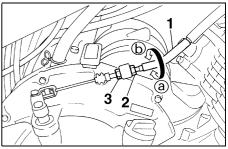


- 1. Clutch lever free play locknut
- 2. Clutch lever free play adjusting bolt
- c. Clutch lever free play

Adjusting the clutch lever free play

The clutch lever free play should measure 2–3 mm as shown. Periodically check the clutch lever free play and, if necessary, adjust it as follows.

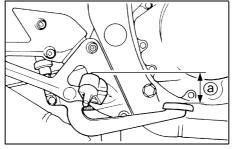
- 1. Loosen the locknut at the clutch lever.
- To increase the clutch lever free play, turn the adjusting bolt in direction (a). To decrease the clutch lever free play, turn the adjusting bolt in direction (b).



1. Clutch lever cable

- 2. Clutch lever free play adjusting nut
- 3. Locknut
- 3. If the specified clutch lever free play could be obtained as described above, tighten the locknut and skip the rest of the procedure, otherwise proceed as follows.
- 4. Fully turn the adjusting bolt at the clutch lever in direction (a) to loosen the clutch cable.
- 5. Loosen the locknut at the crankcase.
- To increase the clutch lever free play, turn the adjusting nut in direction (a). To decrease the clutch lever free play, turn the adjusting nut in direction (b).

7. Tighten the locknut at the clutch lever and the crankcase.



a. Distance between brake pedal and footrest

EAU00712

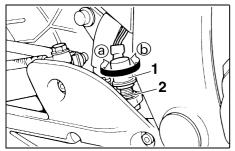
Adjusting the brake pedal position

The top of the brake pedal should be positioned approximately 40 mm below the top of the footrest as shown. Periodically check the brake pedal position and, if necessary, have a Yamaha dealer adjust it.

WARNING

A soft or spongy feeling in the brake pedal 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.

EW000109



1. Brake light switch

2. Brake light switch adjusting nut

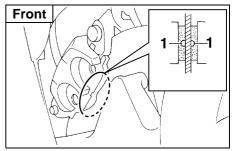
EAU00713

Adjusting the rear brake light switch

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 and rear brake pads

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

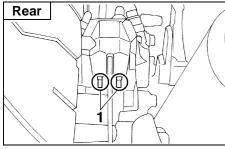


1. Wear indicator groove (\times 2)

EAU00725

Front brake pads

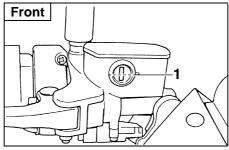
Each front brake pad is provided with a wear indicator groove, which allows you to check the brake pad wear without having to disassemble the brake. To check the brake pad wear, check the wear indicator groove. If a brake pad has worn to the point that the wear indicator groove has almost disappeared,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



1. Wear indicator groove (\times 2)

Rear brake pads

Each rear brake pad is provided with a wear indicator, which allows you to check the brake pad wear without having to disassemble the brake. To check the brake pad wear, check the position of the wear indicator while applying the brake. If a brake pad has worn to the point that the wear indicator almost touches the brake disc, have a Yamaha dealer replace the brake pads as a set.



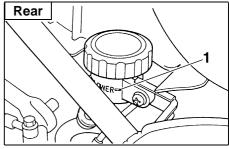
1. Minimum level mark

EAU00728

Checking the brake fluid level

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 level is low, be sure to check the brake pads for wear and the brake system for leakage.



1. Minimum level mark

Observe these precautions:

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

Recommended brake fluid: DOT 4

 Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor braking performance.

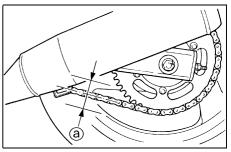
- Be careful that water does not enter the master cylinder when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock.
- Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fluid immediately.
- As the brake pads wear, 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.

EAU03238

Changing the brake fluid

Have a Yamaha dealer change the brake fluid at the intervals specified in the periodic maintenance and lubrication chart. In addition, have the oil seals of the 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.



a. Drive chain slack

EAU00745

Drive chain slack

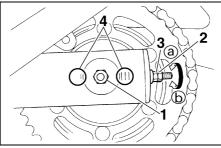
The drive chain slack should be checked before each ride and adjusted if necessary.

To check the drive chain slack

- 1. Place the motorcycle on the centerstand.
- 2. Shift the transmission into the neutral position.
- 3. 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: 30–40 mm

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



- 1. Axle nut
- 2. Chain puller locknut
- 3. Drive chain slack adjusting nut
- 4. Alignment marks

EAU00762

To adjust the drive chain slack

- 1. Loosen the axle nut, then the chain puller locknut at each end of the swingarm.
- 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.

NOTE: ____

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

EC000096

CAUTION:

Improper drive chain slack will overload the engine as well as other vital parts of the motorcycle and can lead to chain slippage or breakage. To prevent this from occurring, keep the drive chain slack within the specified limits.

3. Tighten the locknuts, and then tighten the axle nut to the specified torque.

Tightening torque: Axle nut:

105 Nm (10.5 m·kg)

EAU03006

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.

EC000097

CAUTION:

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

1. Clean the drive chain with kerosene and a small soft brush.

ECA00053

CAUTION:

To prevent damaging the O-rings, do not clean the drive chain with steam cleaners, high-pressure washers or inappropriate solvents.

- 2. Wipe the drive chain dry.
- 3. Thoroughly lubricate the drive chain with a special O-ring chain lubricant.

ECA00052

CAUTION:

Do not use engine oil or any other lubricants for the drive chain, as they may contain substances that could damage the O-rings.

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.

Recommended lubricant: Engine oil

EW000112

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.

EAU03209

Checking and lubricating the throttle grip and cable

The operation of the throttle grip and the condition of the throttle cable should be checked before each ride, and the cable should be lubricated or replaced if necessary.

NOTE: ____

Since the throttle grip must be removed to access the throttle cable end, the throttle grip and the cable should always be lubricated at the same time.

- 1. Remove the throttle grip by removing the screws.
- 2. Disconnect the throttle cable, hold it up, and then apply several drops of oil to the cable end, allowing it to trickle into the sheath.
- 3. Connect the throttle cable, and then grease the inside of the throttle grip housing.
- 4. Grease the metal-to-metal contact surface of the throttle grip, and then install the grip by installing the screws.

Recommended lubricant: Throttle cable: Engine oil Throttle grip housing and grip: Lithium-soap-based grease (all-purpose grease)

Checking and lubricating the brake and shift pedals

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

Recommended lubricant: Lithium-soap-based grease (all-purpose grease)

FALI03164

Checking and lubricating the brake and clutch levers

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

Recommended lubricant: Lithium-soap-based grease (all-purpose grease)

EAU03371

EW000114

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-tometal contact surfaces should be lubricated if necessary.

WARNING

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 rear suspension

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

EALI00790

Recommended lubricant: Molybdenum disulfide grease

EAU02939

Checking the front fork

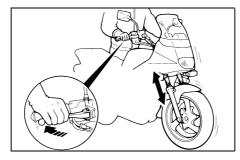
The condition and operation of the front fork must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart.

To check the condition

EW000115

Securely support the motorcycle so that there is no danger of it falling over.

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



To check the operation

- 1. Place the motorcycle on a level surface and hold it in an upright position.
- While applying the front brake, push down hard on the handlebars several times to check if the front fork compresses and rebounds smoothly.

EC000098

CAUTION:

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.

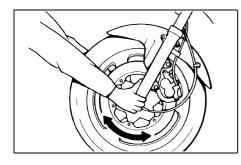
1. Place a stand under the engine to raise the front wheel off the ground.

EW000115

FAI 100794

Securely support the motorcycle so that there is no danger of it falling over.

6



FAI J01144

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.

EAU00800

Battery

This motorcycle is equipped with a sealed-type (MF) battery, which does not require any maintenance. There is no need to check the electrolyte or to add distilled water.

EC000101

CAUTION:

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

EW000116

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.

2. Hold the lower ends of the front fork legs and try to move them forward and backward. If any free play can be felt, have a Yamaha dealer check or repair the steering.

- 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 motorcycle is equipped with optional electrical accessories.

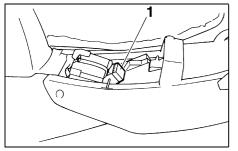
To store the battery

- If the motorcycle will not be used for more than one month, remove the battery, fully charge it, and then place it in a cool, dry place.
- 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.
- 4. After installation, make sure that the battery leads are properly connected to the battery terminals.

EC000102

CAUTION:

- Always keep the battery charged. Storing a discharged battery can cause permanent battery damage.
- To charge a sealed-type (MF) battery, a special (constantvoltage) battery charger is required. Using a conventional battery charger will damage the battery. If you do not have access to a sealed-type (MF) battery charger, have a Yamaha dealer charge your battery.



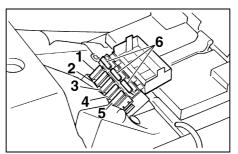
1. Fuse box

Replacing the fuses

The fuse box is located under the seat. (See page 3-12 for seat removal and installation procedures.)

If a fuse is blown, replace it as follows.

- 1. Turn the key to "OFF" and turn off the electrical circuit in question.
- 2. Remove the blown fuse, and then install a new fuse of the specified amperage.



1. Main fuse

EAU01470

- 2. Ignition fuse
- 3. Signaling system fuse
- 4. Headlight fuse
- 5. Hazard fuse
- 6. Spare fuse (\times 3)

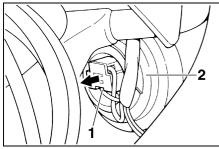
Specified fuses:	
Main fuse:	30 A
Ignition fuse:	10 A
Signaling system fuse:	15 A
Headlight fuse:	15 A
Hazard fuse:	10 A

CAUTION:

Do not use a fuse of a higher amperage rating than recommended to avoid causing extensive damage to the electrical system and possibly a fire.

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

EC000103



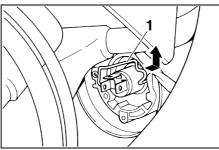
1. Headlight coupler

2. Headlight bulb cover

Replacing a headlight bulb (for XJ600S)

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

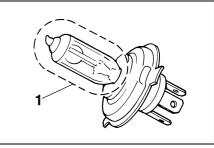
1. Disconnect the headlight coupler, and then remove the headlight bulb cover.



- 1. Headlight bulb holder
- 2. Unhook the headlight bulb holder, and then remove the defective bulb.

EW000119

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



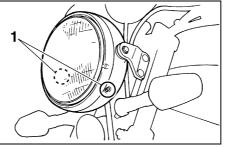
- 1. Do not touch this area.
 - Place a new bulb into position, and then secure it with the bulb holder.

6

CAUTION:

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 bulb cover, and then connect the coupler.
- 5. Have a Yamaha dealer adjust the headlight beam if necessary.



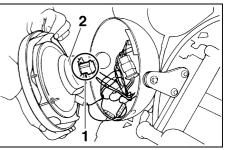
1. Screw (× 2)

EAU03188

Replacing the headlight bulb (for XJ600N)

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

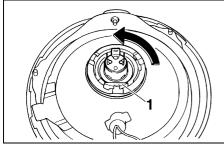
1. Remove the headlight unit by removing the screws.



1. Headlight coupler

2. Headlight bulb cover

2. Disconnect the headlight coupler, and then remove the headlight unit and bulb cover.



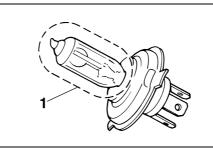
1. Headlight bulb holder

3. Unhook the headlight bulb holder, and then remove the defective bulb.

EW000119

A WARNING

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



1. Do not touch this area.

4. Place a new bulb into position, and then secure it with the bulb holder.

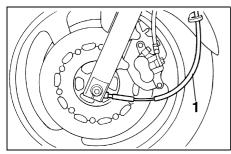
CAUTION:

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.

- 5. Install the bulb cover, and then connect the coupler.
- 6. Install the headlight unit by installing the screws.
- 7. Have a Yamaha dealer adjust the headlight beam if necessary.

FALI00868

EW000122



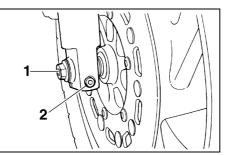
1. Speedometer cable

Front wheel

To remove the front wheel

6

- It is advisable to have a Yamaha dealer service the wheel.
- Securely support the motorcycle so that there is no danger of it falling over.
- 1. Place the motorcycle on the centerstand.
- 2. Disconnect the speedometer cable from the front wheel.
- Remove the brake calipers by removing the bolts.

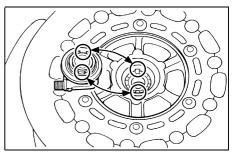


Front wheel axle
 Front wheel axle pinch bolt

CAUTION:

Do not pull the brake lever after the brake caliper has been removed, otherwise the brake pads will be forced shut.

- 4. Loosen the front wheel axle pinch bolt.
- 5. Pull the wheel axle out, and then remove the wheel.



EAU03420

To install the front wheel

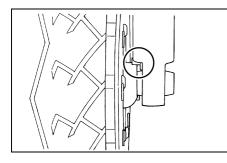
- 1. Install the speedometer gear unit into the wheel hub so that the projections mesh with the slots.
- 2. Lift the wheel up between the fork legs.

NOTE: _

ECA00047

Make sure that the slot in the speedometer gear unit fits over the retainer on the fork leg.

- 3. Insert the wheel axle.
- 4. Take the motorcycle off the centerstand so that the front wheel is on the ground.



5. Install the brake calipers by installing the bolts.

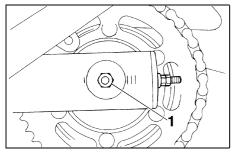
NOTE: _

Make sure that there is enough space between the brake pads before installing the brake calipers onto the brake discs.

6. Tighten the front wheel axle pinch bolt, then the wheel axle, and the brake caliper bolts to the specified torques.

Tightening torques: Wheel axle: 58 Nm (5.8 m·kg) Front wheel axle pinch bolt: 40 Nm (4.0 m·kg) Brake caliper bolt: 19 Nm (1.9 m·kg)

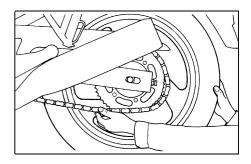
- 7. Connect the speedometer cable.
- Push down hard on the handlebar several times to check for proper fork operation.



1. Rear wheel axle nut

Brake torque rod bolt
 Nut

 Disconnect the brake torque rod from the brake caliper bracket by removing the nut and the bolt.



- 4. While supporting the brake caliper bracket, pull the wheel axle out.
- 5. Push the wheel forward, and then remove the drive chain from the rear sprocket.

NOTE:

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

6. Remove the wheel.

ECA00048

CAUTION:

Do not apply the brake after the wheel has been removed together with the brake disc, otherwise the brake pads will be forced shut.

Rear wheel

To remove the rear wheel

EW000122

FALI01480

- It is advisable to have a Yamaha dealer service the wheel.
- Securely support the motorcycle so that there is no danger of it falling over.
- 1. Place the motorcycle on the centerstand.
- 2. Remove the axle nut.

6

EAU01468

To install the rear wheel

- 1. Insert the wheel axle from the right-hand side.
- 2. Install the drive chain onto the rear sprocket, and then adjust the drive chain slack. (See page 6-21 for drive chain slack adjustment procedures.)
- 3. Install the axle nut and brake torque rod bolt at the brake caliper bracket.
- 4. Install the brake caliper by installing the bolts.

NOTE: ____

Make sure that there is enough space between the brake pads before installing the brake caliper onto the brake disc.

- 5. Take the motorcycle off the centerstand so that the rear wheel is on the ground.
- 6. Tighten the axle nut and brake torque rod bolt to the specified torques.

Tightening torques: Axle nut: 105 Nm (10.5 m·kg) Brake torque rod bolt: 23 Nm (2.3 m·kg)

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 chart represents a quick and easy procedure 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.

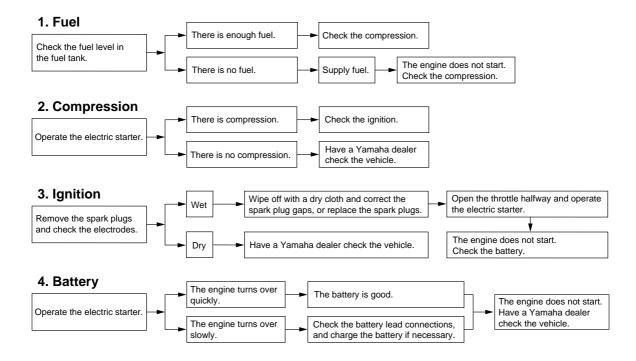
FAU01008

Troubleshooting chart

EW000125

FAI I01297

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



MOTORCYCLE CARE AND STORAGE

Care	·······	7-1
Storag	ge	7-4

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

- 1. Cover the muffler outlets with plastic bags after the engine has cooled down.
- 2. Make sure that all caps and covers as well as all electrical couplers and connectors, including the spark plug caps, are tightly installed.
- Remove extremely stubborn dirt, like oil burnt onto the crankcase, with a degreasing agent and a brush, but never apply such products onto seals, gaskets, sprockets, the drive chain and wheel axles. Always rinse the dirt and degreaser off with water.

Cleaning

ECA00010

CAUTION:

- 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.

MOTORCYCLE CARE AND STORAGE

- Do not use any harsh chemical products on plastic parts. Be sure to avoid using cloths or sponges which have been in contact with strong or abrasive cleaning products, solvent or thinner, fuel (gasoline), rust removers or inhibitors, brake fluid, antifreeze or electrolyte.
- Do not use high-pressure washers or steam-jet cleaners since they cause water seepage and deterioration in the following areas: seals (of wheel and 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 Some scratching. 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.

NOTE:

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

1. Clean the motorcycle with cold water and a mild detergent, after the engine has cooled down.

ECA00012

7

CAUTION:

Do not use warm water since it increases the corrosive action of the salt.

 After drying the motorcycle, 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.
- 2. 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.)
- 4. 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.

EWA00001

ECA00013

CAUTION:

- 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.

NOTE:

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

MOTORCYCLE CARE AND STORAGE

Storage

Short-term

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

CAUTION:

- 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

ECA00014

Before storing your motorcycle for several months:

- 1. Follow all the instructions in the "Care" section of this chapter.
- 2. Turn the fuel cock lever to "ON".
- Drain the carburetor float chambers by loosening the drain bolts; this will prevent fuel deposits from building up. Pour the drained fuel into the fuel tank.
- 4. Fill up the fuel tank and add fuel stabilizer (if available) to prevent the fuel tank from rusting and the fuel from deteriorating.
- 5. Perform the following steps to protect the cylinders, piston rings, etc. from corrosion.
- a. Remove the spark plug caps and spark plugs.
- b. Pour a teaspoonful of engine oil into each spark plug bore.

- c. Install the spark plug caps onto the spark plugs, and then place the spark plugs 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 walls with oil.)
- e. Remove the spark plug caps from the spark plugs, and then install the spark plugs and the spark plug caps.

EWA00003

7

To prevent damage or injury from sparking, make sure to ground the spark plug electrodes while turning the engine over.

 Lubricate all control cables and the pivoting points of all levers and pedals as well as of the sidestand/ centerstand.

MOTORCYCLE CARE AND STORAGE

- 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.
- 8. Cover the muffler outlets with plastic bags to prevent moisture from entering them.
- 9. 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 or more than 30 °C). For more information on storing the battery, see page 6-27.

NOTE: _

Make any necessary repairs before storing the motorcycle.

Specifications	8-1
Conversion table	8-5

Specifications

8

Model	XJ600S/XJ600N	Engine oil
Dimensions		Туре
Overall length	2,170 mm	-20 -10 0 10 20 30 40 50 °C ! ! ! ! ! ! ! !
Overall width	735 mm	SAE 10W-30
Overall height		SAE 10W-40
XJ600S	1,205 mm	SAE 15W-40
XJ600N	1,090 mm	✓ SAE 20W-40
Seat hight	770 mm	
Wheelbase	1,445 mm	
Ground clearance	150 mm	Recommended engine oil
Minimum turning radius	2,700 mm	classification API Service SE, SF, SG type or higher
Basic weight (with oil and full fuel tank)		CAUTION:
XJ600S	213 kg	Be sure to use motor oils that do not contain anti-friction
XJ600N	210 kg	modifiers. Passenger car motor oils (often labeled
Engine		"Energy Conserving") contain anti-friction additives which will cause clutch and/or starter clutch slippage, resulting in
Engine type	Air-cooled 4-stroke, DOHC	reduced component life and poor engine performance.
Cylinder arrangement	Forward-inclined parallel 4-cylinder	Quantity
Displacement	598 cm ³	Without oil filter cartridge
Bore × Stroke	58.5 imes 55.7 mm	replacement 2.3 L
Compression ratio	10:1	With oil filter cartridge replacement 2.6 L
Starting system	Electric starter	
Lubrication system	Wet sump	Total amount (dry engine) 3.1 L

8-1

FAI	101	038

Air filter	Dry type element	Operation	Left foot
Fuel		Gear ratio	
Туре	Regular unleaded gasoline	1st	2.733
Fuel tank capacity	17.0 L	2nd	1.778
Reserve amount	3.5 L	3rd	1.333
Carburetor		4th	1.074
Manufacturer	MIKUNI	5th	0.913
Model × quantity	$BDS28\times 4$	6th	0.821
Spark plug		Chassis	
Model/Manufacturer	CR8E / NGK	Frame type	Double cradle
	U24ESR-N / DENSO	Caster angle	25°
Gap	0.7–0.8 mm	Trail	97 mm
Clutch type	Wet, multiple-disc	Tire	
Transmission		Front	
Primary reduction system	Spur gear	Туре	Tubeless
Primary reduction ratio	2.225	Size	110/80-17 57H
Secondary reduction system	Chain drive	Manufacturer/model	MICHELIN / MACADAM 50
Secondary reduction ratio	3.000 (except for CH, A)		DUNLOP / D103FA
	2.875 (for CH, A)	Rear	
Number of drive chain		Туре	Tubeless
sprocket teeth (rear/front)	48/16 (except for CH, A)	Size	130/70-18 63H
	46/16 (for CH, A)	Manufacturer/model	MICHELIN / MACADAM 50
Transmission type	Constant mesh 6-speed		DUNLOP / D103A

Maximu	ım load*		Brakes
	XJ600S	184 kg	Front
	XJ600N	187 kg	
Tire air cold tire	pressure (measur es)	ed on	
Up te	o 90 kg*		Rear
	Front	200 kPa (2.00 kg/cm ² , 2.00 bar)	
	Rear	225 kPa (2.25 kg/cm ² , 2.25 bar)	
90 k	g maximum*		
	Front	200 kPa (2.00 kg/cm ² , 2.00 bar)	Suspen
	Rear	250 kPa (2.50 kg/cm ² , 2.50 bar)	Front
High	-speed riding		Rear
	Front	200 kPa (2.00 kg/cm ² , 2.00 bar)	
	Rear	250 kPa (2.50 kg/cm ² , 2.50 bar)	Spring/s
* Tota	l weight of rider, p	assenger, cargo and accessories	Front
Wheels			Rear
Front			Wheel t
	Туре	Cast wheel	Front
	Size	17 × MT 2.50	Rear
Rear			Electric
	Туре	Cast wheel	Igniti
	Size	18 × MT 3.50	

nt

	Туре	Dual disc brake
	Operation	Right hand
	Fluid	DOT 4
ar		
	Туре	Single disc brake
	Operation	Right foot
	Fluid	DOT 4
nsion		
nt		Telescopic fork
ar		Swingarm (monocross suspension)
g/shoc	k absorbers	
nt		Coil spring / oil damper
ar		Coil spring / gas-oil damper
trave	l	
nt		140 mm
ar		110 mm
ical sy	stems	
ition sy	vstem	Transistorized coil ignition

Charging s	system		
	Туре	A.C. magneto	
	Standard output	14 V, 20 A @ 5,0	000 r/min
Battery			
	Model	YTX9-BS	
	Voltage, capacity	12 V, 8 Ah	
Headlight typ	be	Quartz bulb (hal	ogen)
Bulb voltage	, wattage $ imes$ quantity		
Headlight		12 V, 60/55 W \times	1
Auxiliary li	ght	12 V, 4 W × 1 (e) IRL)	cept for GB,
		12 V, 3.4 W \times 1	(for GB, IRL)
Tail/brake	light	12 V, 5/21 W \times 1	
Turn signa	l light	12 V, 21 W $ imes$ 4	
Meter light	ling		
XJ6008	S	12 V, 1.7 W $\times3$	
XJ6001	N	14 V, 3 W $\times2$	
		12 V, 1.7 W $\times2$	
Neutral inc	dicator light	12 V, 3.4 W \times 1	
High beam	n indicator light	12 V, 3.4 W \times 1	
Oil level wa	arning light		
XJ6008	S	12 V, 3.4 W \times 1	
XJ6001	N	14 V, 3 W $ imes$ 1	
Turn signa	l indicator light	12 V, 3.4 W \times 2	

Fuses

Main fuse	30 A
Ignition fuse	10 A
Signaling system fuse	15 A
Headlight fuse	15 A
Hazard fuse	10 A

EAU01064

Conversion table

All specification data in this manual are listed in SI and METRIC UNITS.

Use this table to convert METRIC unit data to IMPERIAL unit data.

Example

METRIC		MULTIPLIER		IMPERIAL
** mm	×	0.03937	=	** in
2 mm	×	0.03937	=	0.08 in

Conversion table

METRIC TO IMPERIAL				
	Metric unit	Multiplier	Imperial unit	
Torque	m⋅kg	7.233	ft-lb	
	m⋅kg	86.794	in-lb	
	cm⋅kg	0.0723	ft-lb	
	cm⋅kg	0.8679	in-lb	
Weight	kg	2.205	lb	
	g	0.03527	oz	
Speed	km/h	0.6214	mi/h	
Distance	km	0.6214	mi	
	m	3.281	ft	
	m	1.094	yd	
	cm	0.3937	in	
	mm	0.03937	in	
Volume, Capacity	cc (cm ³) cc (cm ³) L (liter) L (liter)	0.03527 0.06102 0.8799 0.2199	oz (IMP liq.) cu·in qt (IMP liq.) gal (IMP liq.)	
Miscellaneous	kg/mm	55.997	lb/in	
	kg/cm ²	14.2234	psi (Ib/in ²)	
	Centigrade (°C)	9/5 + 32	Fahrenheit (°F)	

CONSUMER INFORMATION

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Key identification number (for XJ600S)	9-1
Key identification number (for XJ600N)	9-1
Vehicle identification number	9-2
Model label	9-2

CONSUMER INFORMATION

FAI 102944

Identification numbers

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

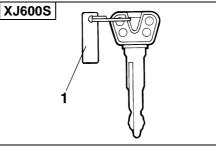
1. KEY IDENTIFICATION NUMBER:

2. VEHICLE IDENTIFICATION NUMBER:



3. MODEL LABEL INFORMATION:



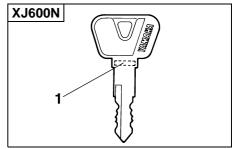


1. Key identification number

EAU01041

Key identification number (for XJ600S)

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



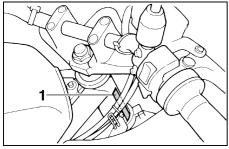
1. Key identification number

EAU01042

Key identification number (for XJ600N)

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.

CONSUMER INFORMATION



1. Vehicle identification number

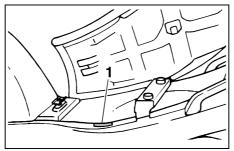
EAU01043

Vehicle identification number

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

NOTE: _____

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



1. Model label

Model label

The model label is affixed to the frame under the seat. (See page 3-12 for seat removal and installation procedures.) Record the information on this label in the space provided. This information will be needed when ordering spare parts from a Yamaha dealer.

EAU01050

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