

Congratulations on your purchase of the Yamaha XV250S. This model is the result of Yamaha's vast experience in the production of fine sporting, touring, and pacesetting racing machines. It represents the high degree of craftsmanship and reliability that have made Yamaha a leader in these fields.

This manual will give you an understanding of the operation, inspection, and basic maintenance of this motorcycle. If you have any questions about the operation or maintenance of your motorcycle, please consult a Yamaha dealer.

IMPORTANT MANUAL INFORMATION

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



The Safety Alert Symbol means ATTENTIONI BECOME ALERTI YOUR SAFETY IS IN-VOLVED!



Failure to follow WARNING instructions could result in severe injury or death to the motorcycle operator, a bystander or a person inspecting or repairing the motorcycle



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 there is any
 question concerning this manual, please consult your Yamaha dealer.

IMPORTANT MANUAL INFORMATION

EW000002

MARNING

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

EAU00008

XV250SM

OWNER'S MANUAL

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SAFETY INFORMATION

TWO-WHEELED MOTORCYCLES ARE SINGLE TRACK VEHICLES THEIR SAFE USE AND OPERATION ARE DEPENDENT UPON THE USE OF PROPER RIDING TECHNIQUES AS WELL AS THE EXPERTISE OF THE OPERATOR EVERY OPERATOR SHOULD KNOW THE FOLLOWING REQUIREMENTS BEFORE RIDING HE OR SHE SHOULD

- 1 OBTAIN THOROUGH INSTRUCTIONS FROM A COMPETENT SOURCE ON ALL ASPECTS OF MOTORCYCLE OPERATION
- 2. OBSERVE THE WARNINGS AND MAINTENANCE REQUIREMENTS IN THE OWNER'S MANUAL
- 3 OBTAIN QUALIFIED TRAINING IN SAFE AND PROPER RIDING TECHNIQUES
- 4 OBTAIN PROFESSIONAL TECHNICAL SERVICE AS INDICATED BY THE OWNER'S MANUAL AND/OR WHEN MADE NECESSARY BY MECHANICAL CONDITIONS

Safe riding

- 1 Always make pre-operation checks Careful checks may help prevent an accident
- 2 This motorcycle is designed to carry the operator and a passenger
- 3 The failure of motorists to detect and recognize motorcycles in traffic is the predominating cause of automobile/motorcycle accidents. Many accidents have been caused by an automobile driver who did not see the motorcycle. Making yourself conspicuous appears to be very effective in reducing the chance of this type of accident.

Therefore

- a Wear a brightly colored jacket
- b Use extra caution when you approach and pass through intersections, since intersections are the most likely places for motorcycle accidents.
- c Ride where other motorists can see you. Avoid riding in another motorist's "blind spot".

A SAFETY INFORMATION

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



Protective apparel

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

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

Modification

Modifications made to the motorcycle not approved by Yamaha, or the removal of original equipment, may render your motorcycle unsafe for use and may cause severe personal injury Modifications may also make your motorcycle illegal to use.

Loading and accessories

Adding accessories or cargo to your motorcycle can adversely affect stability and handling if the weight distribution of the machine is changed. To avoid the possibility of an accident, extreme caution should be used if adding cargo or accessories to your motorcycle. Use extra care if riding a motorcycle which has added cargo or accessories. Here are some general guidelines to follow if loading cargo or adding accessories to your motorcycle

Loading

The total weight of the operator, passenger, accessories and cargo must not exceed the maximum load limit of 183 kg.

When loading within these weight limits, keep the following in mind-

- 1 Cargo and accessory weight should be kept as low and close to the motorcycle as possible. Be sure to distribute the weight as evenly as possible on both sides of the machine to minimize imbalance or instability.
- 2 Shifting weights can create a sudden imbalance. Make sure that accessories and cargo are securely attached to the motorcycle before riding. Recheck accessory mounts and cargo restraints frequently
- 3. Never attach any large or heavy items to the handlebars, front forks, or front fender. These items, including such cargo as sleeping bags, duffle bags, or tents, can create unstable handling or slow steering response.

Accessories

Genuine Yamaha accessories have been specifically designed for use on this motorcycle. Since Yamaha cannot test all other accessories which may be available, you must personally be responsible for the proper selection, installation and use of non-Yamaha accessories. You should use extreme caution when selecting and installing any accessories.

Keep in mind these guidelines for mounting accessories in addition to those provided under "LOADING".

1 Never install accessories or carry cargo that would impair the performance of your motorcycle. Carefully inspect the accessory before using it to make sure it does not in any way reduce ground clearance or cornering clearance, limit suspension travel, steering travel or control operation, or obscure lights or reflectors



- Accessories fitted to the handlebar or the front fork area can create instability due to improper weight distribution or aerodynamic changes. If accessories are added to the handlebar or front fork area, they must be as lightweight as possible and should be kept to a minimum
- Bulky or large accessories may seriously affect the stability of the motorcycle due to aerodynamic effects. Wind may attempt to lift the motorcycle, or the motorcycle may become unstable in cross winds These accessories may also cause instability when being passed by or passing large vehicles.
- Certain accessories can displace the operator from his or her normal riding position. This improper position limits the freedom of movement of the operator and may limit control ability. Therefore such accessories are not recommended
- 2 Caution must be used if adding electrical accessories. If these accessories exceed the capacity of the motorcycle's electrical system, an electric failure could result, which could cause a dangerous loss of lights or engine power

Gasoline and exhaust gas

- GASOLINE IS HIGHLY FLAMMABLE
 - a Always turn off the engine when refueling
 - Take care not to spill any gasoline on the engine or exhaust system when refueling
 - Never refuel while smoking or in the vicinity of an open flame.
- 2 Never start the engine or let it run for any length of time in a closed area. The exhaust fumes are poisonous and may cause loss of consciousness and death within a short time. Always operate your motorcycle in an area that has adequate ventilation
- Always turn off the engine before leaving the motorcycle unattended and remove the ignition key When parking the motorcycle, note the following:

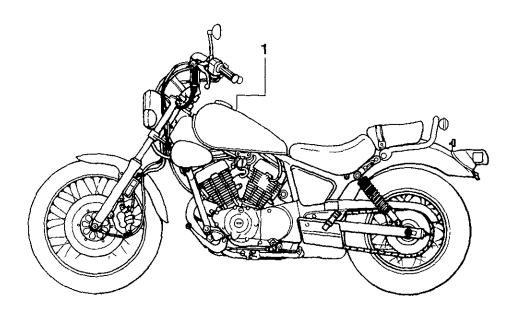
SAFETY INFORMATION

- The engine and exhaust system may be hot Park the motorcycle in a place where pedestrians or children are not likely to touch these hot areas
- b Do not park the motorcycle on a slope or soft ground, the motorcycle may fall over.
- c. Do not park the motorcycle near a flammable source, e.g. a kerosene heater, or near an open flame. The motorcycle could catch fire
- 4 When transporting the motorcycle in another vehicle, be sure it is kept upright and that the fuel cock is turned to "ON" or "RES" (for vacuum type) / "OFF" (for manual type). If it should lean over, gasoline may leak out of the carburetor or fuel tank
- 5. If you should swallow any gasoline, inhale a lot of gasoline vapor, or allow gasoline to get in your eyes, see your doctor immediately. If any gasoline spills on your skin or clothing, immediately wash it off with soap and water and change your clothes.

EAU01277

LOCATION OF THE IMPORTANT LABEL

Please read the following label carefully before operating this motorcycle.





WARNING

Before you operate this vehicle, read the owner's manual

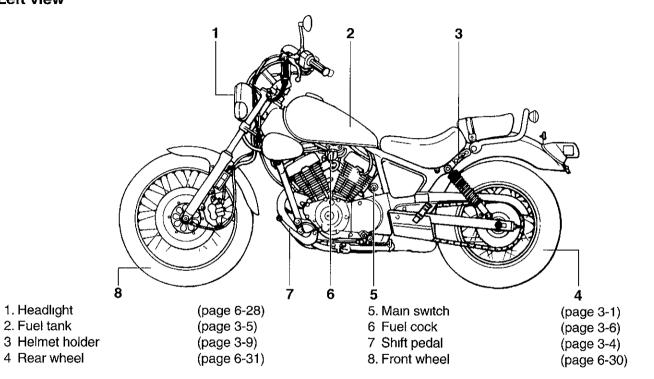
English

3HP-21568-00

Left view

1. Headlight

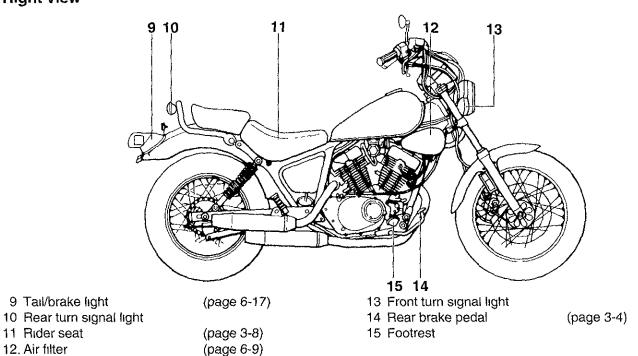
2. Fuel tank



Right view

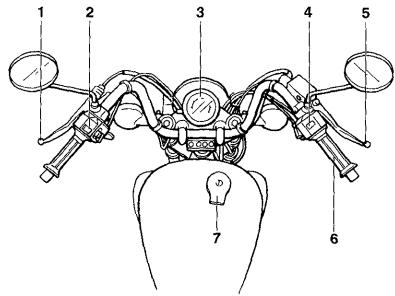
11 Rider seat

12. Air filter

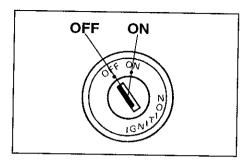


DESCRIPTION

Controls/Instruments



1. Clutch lever	(page 3-3)
2. Left handlebar switches	(page 3-2)
3. Speedometer	(page 3-1)
4. Right handlebar switches	(page 3-2)
5. Front brake lever	(page 3-4)
6. Throttle grip	(page 6-12
7 Fuel tank cap	(page 3-5)



EAU00028

Main switch

The main switch controls the ignition and lighting systems. Its operation is described below.

ON

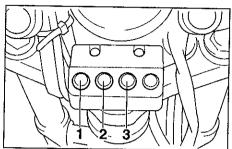
EAU00030

EAU00038

Electrical circuits are switched on, and the headlight, meter light, and taillight come on The engine can be started. The key cannot be removed in this position

OFF

All electrical circuits are switched off. The key can be removed in this position.



- 1 High beam indicator light "HIGH BEAM"
- 2 Neutral indicator light "NEUTRAL"
- 3 Turn indicator light "TURN"

Indicator lights

High beam indicator light "HIGH BEAM"

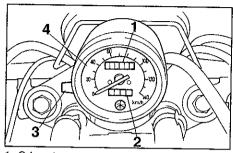
This indicator comes on when the headlight high beam is used.

Neutral indicator light "NEUTRAL"

This indicator comes on when the transmission is in neutral

Turn indicator light "TURN"

This indicator flashes when the turn switch is moved to the left or right.



- I Odometer
- 2 Tripmeter

EAU00056

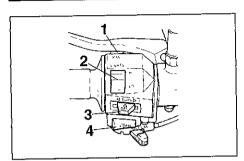
EAU00059

- 3 Reset knob
- 4 Speedometer

EAU00095

Speedometer

The speedometer shows riding speed. This speedometer is equipped with an odometer and trip odometer. The trip odometer can be reset to "0" with the reset knob. Use the trip odometer to estimate how far you can ride on a tank of fuel This information will enable you to plan fuel stops in the future



- Pass switch "PASS"
- Dimmer switch "LIGHTS"
- Turn signal switch "TURN"
- 4 Horn switch "HORN"

Handlebar switches

FAU00120

EAU00118

Pass switch "PASS"

Press the switch to operate the passing light

FAU00122

Dimmer switch "LIGHTS"

Turn the switch to "HI" for the high beam and to "LO" for the low beam

Turn signal switch "TURN"

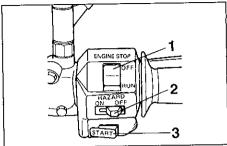
To signal a right-hand turn, push the switch to the right. To signal a left-hand turn, push the switch to the left. Once the switch is released it will return to the center position. To cancel the signal. push the switch in after it has returned to the center position

EAU00130

Horn switch "HORN"

Press the switch to sound the horn

EAU00125



- Engine stop switch "ENGINE STOP"
- Hazard switch "HAZARD"
- 3 Start switch "START"

EAU00137

Engine stop switch "ENGINE STOP"

The engine stop switch is a safety device for use in an emergency such as when the motorcycle overturns or if trouble occurs in the throttle system Turn the switch to "RUN" to start the engine. In case of emergency, turn the switch to "OFF" to stop the engine

EAU00141

EC000005

Hazard switch "HAZARD"

The hazard switch should be turned on under emergency or hazardous conditions. All turn signal lights will flash simultaneously when this switch is turned on with the main switch in the "ON" position.

EC000006

CAUTION:

The battery can discharge from extended use, making it difficult to operate the starter.

NOTE:

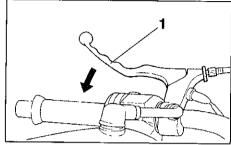
Turn on the hazard switch to warn other drivers if your motorcycle must be stopped where it might be a traffic hazard

Start switch "START"

The starter motor cranks the engine when pushing the start switch

CAUTION:

See starting instructions prior to starting the engine.

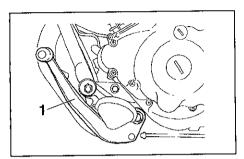


Clutch lever

FAU00152

Clutch lever

The clutch lever is located on the left handlebar, and the ignition circuit cut-off system is incorporated in the clutch lever holder. Pull the clutch lever to the handlebar to disengage the clutch, and release the lever to engage the clutch. The lever should be pulled rapidly and released slowly for smooth clutch operation. (Refer to the engine starting procedures for a description of the ignition circuit cut-off system.)



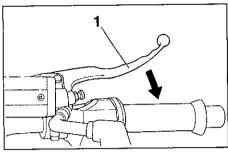


EAU00157

Shift pedal

This motorcycle is equipped with a constant-mesh 5-speed transmission.

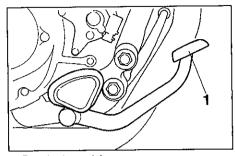
The shift pedal is located on the left side of the engine and is used in combination with the clutch when shifting



1 Front brake lever

Front brake lever

The front brake lever is located on the right handlebar Pull it toward the handlebar to apply the front brake



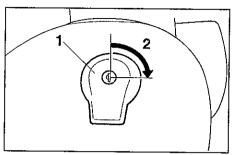
1 Rear brake pedal

EAU00158

EAU00162

Rear brake pedal

The rear brake pedal is on the right side of the motorcycle. Press down on the brake pedal to apply the rear brake



- 1 Fuel tank cap
- 2 Open

Fuel tank cap

To open

Insert the key and turn it 1/4 turn clockwise. The lock will be released and the cap can be opened.

To close

Push the tank cap into position with the key inserted. To remove the key, turn it counterclockwise to the original position.

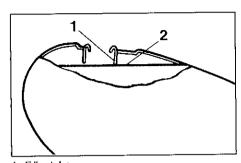
NOTE:

EAU00167

This tank cap cannot be closed unless the key is in the lock. The key cannot be removed if the cap is not locked properly

WARNING

Be sure the cap is properly installed and locked in place before riding the motorcycle.



1 Filler tube2 Fuel level

EAU01183

Fuel

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

EW000130

A WARNING

Do not overfill the fuel tank. Avoid spilling fuel on the hot engine. Do not fill the fuel tank above the bottom of the filler tube or it may overflow when the fuel heats up later and expands.

CAUTION:

Always wipe off spilled fuel immediately with a dry and clean soft cloth. Fuel may deteriorate painted surfaces or plastic parts.

EAU00192

EAU00185

Recommended fuel:

Regular gasoline

For Australia.

Unleaded fuel only

Fuel tank capacity.

Total

9.5 L

Reserve

26L

Normal position

1 Arrow mark positioned over "ON"

EAU00208

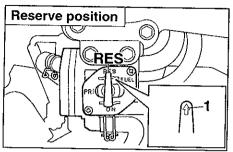
Fuel cock

The negative pressure fuel cock supplies fuel from the tank to the carburetor while filtering it also.

The fuel cock has the following three positions:

ON

With the lever in this position, fuel flows if the engine is running, but stops if the engine is not running



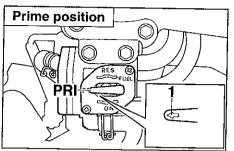
1 Arrow mark positioned over "RES"

RES

This indicates reserve If you run out of fuel while riding, move the lever to "PRI", start the engine, then move the lever to "RES". FILL THE TANK AT THE FIRST OPPORTUNITY. BE SURE TO MOVE THE LEVER TO "ON" AFTER REFUELING

NOTE:

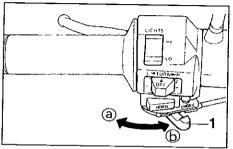
The fuel cock operates on vacuum from the engine when set at "ON" or "RES". If the line connecting the cock to the carburetor intake manifold is not connected or has a leak, the cock will not function properly.



1 Arrow mark positioned over "PRI"

PRI

This indicates prime With the lever in this position, fuel flows whether the engine is running or not. If the fuel tank is completely empty, refill the tank and move the lever to "PRI" to prime the carburetor. Move the lever to "ON" after starting the engine



1 Starter (choke)

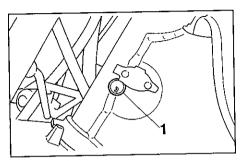
EAU00211

Starter (choke)

Starting a cold engine requires a richer air-fuel mixture. A separate starter circuit supplies this mixture.

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

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



1 Steering lock

EAU02934

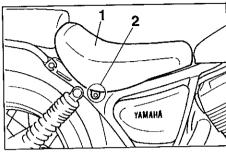
Steering lock To lock the steering

Turn the handlebars all the way to the right and open the steering lock cover. Insert the key and turn it 1/8 turn counterclockwise. Then, push the key in while turning the handlebars slightly to the left and turn the key 1/8 turn clockwise.

Check that the steering is locked, remove the key and close the lock cover

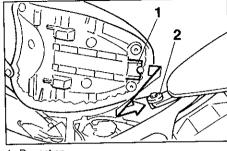
To unlock the steering

Insert the key, push it in and turn it 1/8 turn counterclockwise so that it moves out. Then, release and remove the key



- 1 Rider seat 2 Bolt (× 2)
- Seat

To remove the rider seat, remove the bolts



Projection
 Seat holder

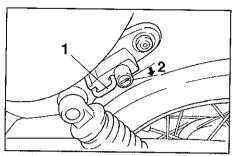
FAU01072

To reinstall the rider seat, insert the projection on the front of the seat into the seat holder, then tighten the bolts.

NOTE:

Make sure that the seat is securely fitted.

FAUGOSON



- Helmet holder
- 2 Open

Helmet holder

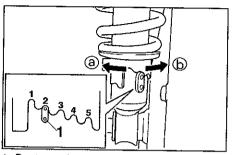
To open the helmet holder, insert the key in the lock and turn it as shown. To lock the helmet holder, replace the holder in its original position.

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EAU00260

WARNING

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



1 Position indicator

Rear shock absorber adjustment

Each shock absorber is equipped with a spring preload adjusting ring. Adjust spring preload as follows. Turn the adjusting ring in direction (a) to increase spring preload and in direction (b) to decrease spring preload. Make sure that the appropriate notch in the adjusting ring is aligned with the position indicator on the rear shock absorber.

	Soft	Standard	Hard		
Adjusting position	1	2	3	4	5

EW000040

WARNING

Always adjust each shock absorber to the same setting. Uneven adjustment can cause poor handling and loss of stability.

EAU00330

Sidestand

This model is equipped with an ignition circuit cut-off system. The motorcycle must not be ridden when the sidestand is down. The sidestand is located on the left side of the frame. (Refer to page 5-1 for an explanation of this system.)

EW000044

WARNING

This motorcycle must not be operated with the sidestand in the down position. If the stand is not properly retracted, it could contact the ground and distract the operator, resulting in a possible loss of control. Yamaha has designed into this motorcycle a lockout system to assist the operator in fulfilling the rethe sponsibility of retracting sidestand. Please check carefully the operating instructions listed below and if there is any indication of a malfunction, return the motorcycle to a Yamaha dealer immediately for repair.

Sidestand/clutch switch operation check

Check the operation of the sidestand switch and clutch switch against the information below

TURN THE MAIN SWITCH TO "ON"
AND THE ENGINE STOP SWITCH TO
"RUN"

PULL IN CLUTCH LEVER AND

TRANSMISSION IS IN GEAR AND

ENGINE WILL START

SIDESTAND IS UP

CLUTCH SWITCH IS OK

PUSH THE START SWITCH

SIDESTAND IS DOWN

EAU00331

ENGINE WILL STALL

SIDESTAND SWITCH IS OK

EW000045

WARNING

If improper operation is noted, consult a Yamaha dealer immediately.

Owners are personally responsible for their vehicle's condition. Your motorcycle's vital functions can start to deteriorate quickly and unexpectedly, even if it remains unused (for instance, if it is exposed to the elements). Any damage, fluid leak or loss of tire pressure could have serious consequences. Therefore, it is very important that, in addition to a thorough visual inspection, you check the following points before each ride.

EAU00340

PRE-OPERATION CHECK LIST

ITEM	CHECKS	PAGE
Front brake	Check operation, free play, fluid level and fluid leakage Fill with DOT 4 (or DOT 3) brake fluid if necessary	0.15 0.10
Rear brake	Check operation, condition and free play Adjust if necessary	6-15 ~ 6-19
Clutch	Check operation, condition and free play Adjust if necessary	6-14
Throttle grip and housing	Check for smooth operation Lubricate if necessary	6-12, 6-22
Engine oil	Check oil level Fill with oil if necessary	6-6 ~ 6-8
Drive chain	Check chain slack and condition Adjust if necessary	6-20 ~ 6-21
Wheels and tires	Check tire pressure, wear, damage and spoke tightness Tighten spokes if necessary	6-12 ~ 6-14, 6-30 ~ 6-32
Control and meter cables	Check for smooth operation Lubricate if necessary	6-22
Brake and shift pedal shafts	Check for smooth operation Lubricate if necessary	6-22
Brake and clutch lever pivots	Check for smooth operation Lubricate if necessary	6-23

PRE-OPERATION CHECKS

ITEM	CHECKS	PAGE
Sidestand pivot	Check for smooth operation Lubricate if necessary	6-23
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	3-5 ~ 3-6
Lights, signals and switches	Check for proper operation	6-28 ~ 6-29
Battery	Check fluid level Fill with distilled water if necessary	6-25 ~ 6-26

NOTE: _

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

WARNING

If any item in the PRE-OPERATION CHECK is not working properly, have it inspected and repaired before operating the motorcycle.

EAU00373

WARNING

- Before riding this motorcycle, become thoroughly familiar with all operating controls and their functions. Consult a Yamaha dealer regarding any control or function that you do not thoroughly understand.
- Never start your engine or let it run for any length of time in a closed area. The exhaust fumes are poisonous and can cause loss of consciousness and death within a short time. Always operate your motorcycle in an area with adequate ventilation.
- Before starting out, always be sure the sidestand is up. Failure to retract the sidestand completely can result in a serious accident when you try to turn a corner.

EAU01515*

Starting and warming up a cold engine

NOTE: ...

This motorcycle is equipped with an ignition circuit cut-off system.

The engine can be started only under one of the following conditions.

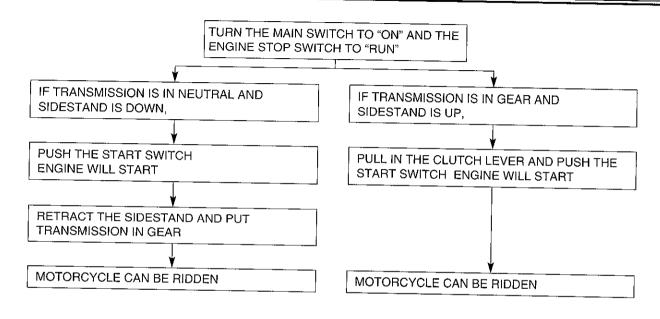
- The transmission is in neutral
- The sidestand is up, the transmission is in gear and the clutch is disengaged

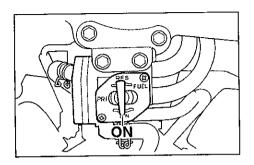
The motorcycle must not be ridden when the sidestand is down.

FW000054

MARNING

Before going through the following steps, check the function of the sidestand switch and clutch switch. (Refer to page 3-10.)

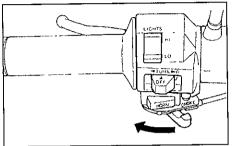




- 1 Turn the fuel cock to "ON".
- 2 Turn the main switch to "ON" and the engine stop switch to "RUN"
- 3. Shift transmission into neutral

	_	_	
N		_	•

When the transmission is in neutral, the neutral indicator light should be on If the light does not come on, ask a Yamaha dealer to inspect it



- 4. Turn on the starter (choke) and completely close the throttle grip
- Start the engine by pushing the start switch

NOTE:

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

6. After starting the engine, move the starter to the halfway position

NOTE: ...

For maximum engine life, always warm up the engine before starting off Never accelerate hard with a cold engine.

7. After warming up the engine, turn off the starter completely

NOTE:

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

Starting a warm engine

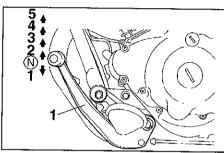
The starter (choke) is not required when the engine is warm.

EC000046

EAU01258

CAUTION:

See the "Engine break-in" section prior to operating the motorcycle for the first time.



1 Shift pedal N Neutral

Shifting

The transmission lets you control the amount of power you have available at a given speed for starting, accelerating, climbing hills, etc. The use of the shift pedal is shown in the illustration.

To shift into neutral, depress the shift pedal repeatedly until it reaches the end of its travel, then raise the pedal slightly.

EC000048

CAUTION:

EAU00423

- Do not coast for long periods with the engine off, and do not tow the motorcycle a long distance. Even with gears in neutral, the transmission is only properly lubricated when the engine is running. Inadequate lubrication may damage the transmission.
- Always use the clutch when changing gears. The engine, transmission, and driveline are not designed to withstand the shock of forced shifting and can be damaged by shifting without using the clutch.

EAU00424

Tips for reducing fuel consumption

Your motorcycle's fuel consumption depends to a large extent on your riding style. The following tips can help reduce fuel consumption:

- Warm up the engine before riding
- Turn off the starter (choke) as soon as possible.
- Shift up swiftly and avoid high engine speeds during acceleration
- Do not double-clutch or rev the engine while shifting down and avoid high engine speeds with no load on the engine.
- Turn off the engine instead of letting it idle for an extended length of time, i.e. in traffic jams, at traffic lights or railroad crossings.

EAU00436

Engine break-in

There is never a more important period in the life of your motorcycle than the period between zero and 1,000 km. For this reason we ask that you carefully read the following material. Because the engine is brand new, you must 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 which might result in excessive heating of the engine, must be avoided.

EAU00445

0 ~ 150 km

Avoid operation above 1/3 throttle Stop the engine and let it cool for 5 to 10 minutes after every hour of operation Vary the speed of the motorcycle from time to time Do not operate it at one set throttle position

150 ~ 500 km

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

500 ~ 1,000 km

Avoid cruising speeds in excess of 3/4 throttle

1,000 km and beyond

Avoid prolonged full throttle operation Vary speeds occasionally

EC000059

CAUTION:

- After 1,000 km of operation, be sure to replace the engine oil and oil filter, and clean the oil strainer.
- If any engine trouble should occur during the break-in period, consult a Yamaha dealer immediately.

EAU00460

Parking

When parking the motorcycle, stop the engine and remove the ignition key

EW000058

MARNING

The exhaust system is hot. Park the motorcycle in a place where pedestrians or children are not likely to touch the motorcycle. Do not park the motorcycle on a slope or soft ground; the motorcycle may overturn.

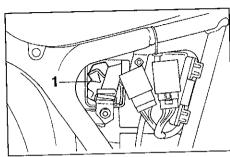
EAU00469

Periodic inspection, adjustment and lubrication will keep your motorcycle in the safest and most efficient condition possible. Safety is an obligation of the motorcycle owner. The maintenance and lubrication schedule chart should be considered strictly as a guide to general maintenance and lubrication intervals YOU MUST TAKE INTO CONSIDERATION THAT WEATHER. TERRAIN, GEOGRAPHICAL LOCA-TIONS, AND A VARIETY OF INDIVID-UAL USES ALL TEND TO DEMAND THAT EACH OWNER ALTER THIS TIME SCHEDULE TO SHORTER IN-TERVALS TO MATCH THE ENVI-RONMENT. The most important points of motorcycle inspection, adjustment, and lubrication are explained in the fol-

WARNING

lowing pages.

If you are not familiar with motorcycle service, this work should be done by a Yamaha dealer.



1 Tool kit

EW000060

Tool kit

The service information included in this manual is intended to provide you, the owner, with the necessary information for completing some of your own preventive maintenance and minor repairs. The tools provided in the owner's tool kit are to assist you in the performance of periodic maintenance. However, some other tools such as a torque wrench are also necessary to perform the maintenance correctly.

NOTE:

If you do not have necessary tools required during a service operation, take your motorcycle to a Yamaha dealer for service

EW000063

WARNING

Modifications to this motorcycle not approved by Yamaha may cause loss of performance, and render it unsafe for use. Consult a Yamaha dealer before attempting any changes.

6

PERIODIC MAINTENANCE AND MINOR REPAIR

PERIODIC MAINTENANCE AND LUBRICATION

EAU00473

ł					EV	ERY	
NO.		CHECKS AND MAINTENANCE JOBS		INITIAL (1,000 km)	6,000 km or 6 months (whichever	12,000 km or 12 months (whichever comes first)	
1	*	Fuel line	Check fuel hoses and vacuum hose for cracks or damage Replace if necessary		1	√ ×	
2	*	Fuel filter	Check condition Replace if necessary			√ V	
3	\perp	Spark plugs	Check condition Clean, regap or replace if necessary	V	√	√	
4	*	Valves	Check valve clearance Adjust if necessary	1	1	√	
5	_	Air filter	Clean or replace if necessary				
6	*	Battery	Check electrolyte level and specific gravity Correct or recharge if necessary Make sure that the breather hose is properly routed		√	√ √	
7		Clutch	Check operation Adjust or replace cable	- 	- V		
8	*	Front brake	Check operation, fluid level and vehicle for fluid leakage (See NOTE on page 6-4) Correct accordingly Replace brake pads if necessary	√	√	√	
9	*	Rear brake	Check operation Adjust brake pedal free play and replace brake shoes if necessary	V	→		
0	*	Wheels	Check balance, runout, spoke tightness and for damage Tighten spokes and rebalance, replace if necessary		V	√	

Γ					EVI	'ERY	
N	0.	ITEM	CHECKS AND MAINTENANCE JOBS	INITIAL (1,000 km)	6,000 km or 6 months (whichever comes first)	12,000 km or 12 months (whichever comes first)	
11	*	Tires	Check tread depth and for damage Replace if necessary Check air pressure Correct if necessary		V	√	
12	*	Wheel bearings	Check bearing for looseness or damage. Replace if necessary		√	√	
13	*	Swingarm	Check swingarm pivoting point for play Correct if necessary Lubricate with molybdenum disulfide grease every 24,000 km or 24 months (whichever comes first)		٧	٧	
14		Drive chain	Check chain slack Adjust if necessary 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 Correct accordingly Lubricate with lithium soap base grease every 24,000 km or 24 months (whichever comes first)		1	٧	
16	*	Chassis fasteners	Make sure that all nuts, bolts and screws are properly tightened Tighten if necessary		√	1	
17		Sidestand	Check operation Lubricate and repair if necessary		√	√	
18	*	Sidestand switch	Check operation Replace if necessary	٧	V	V	
19	*	Front fork	Check operation and for oil leakage Correct accordingly		1	V	

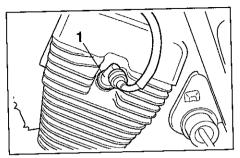
Г					EVE	RY
NO.		ITEM	CHECKS AND MAINTENANCE JOBS INITIAL (1,000 km)		6,000 km or 6 months (whichever comes first)	12,000 km or 12 months (whichever comes first)
20	*	Rear shock absorber assemblies	Check operation and shock absorbers for oil leakage Replace shock absorber assembly if necessary		1	1
21	*	Carburetor	Check engine idling speed and starter operation Adjust if necessary	٧	1	٧
22		Engine oil	Check oil level and vehicle for oil leakage Correct if necessary Change (Warm engine before draining)	1	٧	٧
23		Engine oil filter element	Replace	√		1
24	*	Engine oil strainer	Clean or replace if necessary	1		V

^{*} Since these items require special tools, data and technical skills, they should be serviced by a Yamaha dealer

EAU02970

NOTE: _

- The air filter needs more frequent service if you are riding in unusually wet or dusty areas
- Hydraulic brake system
 - When disassembling the master cylinder or caliper, always replace the brake fluid. Check the brake fluid level regularly and fill as required
 - · Replace the oil seals on the inner parts of the master cylinder and caliper every two years
 - · Replace the brake hoses every four years or if cracked or damaged

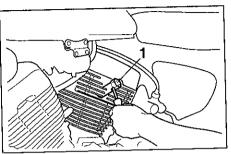


Sparl plug cap

EAU01485

Spark plugs Removal

Remove the spark plug cap



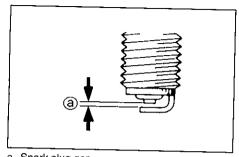
- Spark plug wrench
- 2 Use the spark plug wrench in the tool kit to remove the spark plug as shown

Inspection

The spark plug is an important engine component and is easy to inspect. The condition of the spark plug can indicate the condition of the engine Normally, all spark plugs from the same engine should have the same color on the white insulator around the center electrode. The ideal color at this point is a medium-to-light tan color for a motorcycle that is being ridden normally. If one spark plug shows a distinctly different color, there could be something wrong with the engine Do not attempt

to diagnose such problems yourself. Instead, take the motorcycle to a Yamaha dealer. You should periodically remove and inspect the spark plugs because heat and deposits will cause any spark plug to slowly break down and erode If electrode erosion becomes excessive, or if carbon and other deposits are excessive, you should replace the spark plug with the specified plua

Specified spark plug: C6HSA (NGK) or U20FS-U (DENSO)



a Spark plug gap

Installation

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

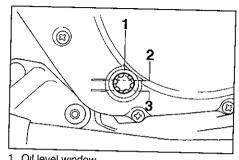
Spark plug gap $0.6 \sim 0.7 \, \text{mm}$

- 2 Clean the gasket surface Wipe off any grime from the threads
- Install the spark plug and tighten it to the specified torque

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

NOTE:

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



- Oif level window
- 2 Maximum level mark
- 3 Minimum level mark

EAU015231

Engine oil

Oil level inspection

Place the motorcycle on a level place and hold it in an upright position Warm up the engine for several minutes.

NOTE:

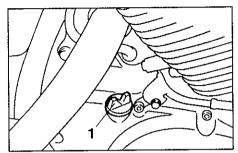
Be sure the motorcycle is positioned straight up when checking the oil level A slight tilt toward the side can result in false readings

2. With the engine stopped, check the oil level through the level window located at the lower part of the right side crankcase cover.

NOTE: _

Wart a few minutes until the oil level settles before checking

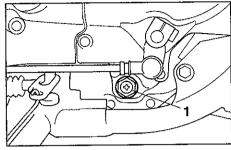
3 The oil level should be between maximum level and minimum level marks. If the level is low, fill engine with sufficient oil to raise it to the specified level.



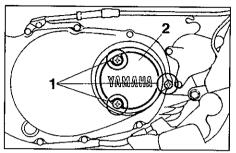
1 Engine oil filler cap

Engine oil and oil filter element replacement

- Warm up the engine for a few minutes
- Stop the engine Place an oil pan under the engine and remove the oil filler cap.



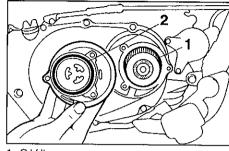
- 1 Engine oil drain bolt
- 3 Remove the drain bolt and drain the oil



- Oil filter cover screw (x 3)
- 2 Oil filter cover
- 4. Remove the oil filter cover screws and the oil filter cover.
- Remove the oil filter and O-ring.
- 6. Install the drain bolt and tighten it to the specified torque.

Tightening torque Drain bolt: 34 Nm (3 4 m·kg)

7. Install the new oil filter, new O-ring and the oil filter cover. Tighten the oil filter cover screws to the specified torque.



- Oil filter 2 O-ring
 - Tightening torque Oil filter cover screw 7 Nm (0 7 m·kg)

NOTE:

Make sure the O-ring is seated properly

Fill the engine with oil. Install the oil filler cap and tighten it

Recommended oil:

See page 8-1.

Oil quantity

Total amount:

1.8 L

Periodic oil change:

1.4 L

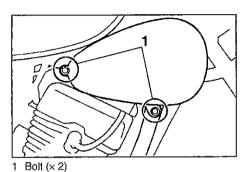
With oil filter replacement:

16L

EC000066

CAUTION

- Do not put in any chemical additives. Engine oil also lubricates the clutch and additives could cause clutch slippage.
- Be sure no foreign material enters the crankcase.
- 9. Start the engine and warm up for a few minutes While warming up. check for oil leakage. If oil leakage is found, stop the engine immediately and check for the cause.
- 10. Stop the engine and check the oil level



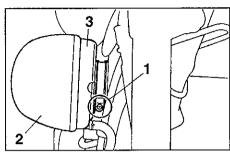
EAU01103*

EAU01

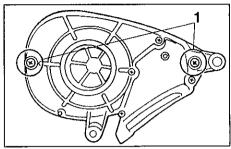
Air filter

The air filter should be cleaned at the specified intervals. It should be cleaned more frequently if you are riding in unusually wet or dusty areas.

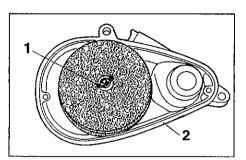
1 Remove the bolts, loosen the screw clamp, and then remove the air filter case



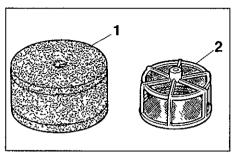
- 1 Screw clamp 2 Air filter cover
- 3 Air filter case



- 1 Screw (x 2)
 - 2. Remove the screws and the air filter cover.



- 1 Wing nut
- 2 Air filter case
 - 3 Remove the wing nut and the air filter



- 1 Foam element
- 2 Frame
 - 4 Remove the foam element from its frame and clean it with solvent. After cleaning, remove the remaining solvent by squeezing it.
- 5 Apply recommended oil to the entire surface of the element and squeeze out the excess oil. It should be wet but not dripping.

Recommended oil
Same as engine oil

6 Pull the element over its frame, install the air filter in the case and tighten the wing nut. 7 Install the air filter cover and air filter case.

EC000082

CAUTION:

- Make sure the air filter is properly seated in the air filter case.
- The engine should never be run without the air filter installed.
 Excessive piston and/or cylinder wear may result.

EAU01168

EAU00629

Carburetor adjustment

The carburetor is a vital part of the engine and requires very sophisticated adjustment. Most adjustments should be left to a Yamaha dealer who has the professional knowledge and experience to do so However, the following may be serviced by the owner as part of routine maintenance

EC000094

CAUTION:

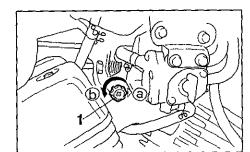
The carburetor was set at the Yamaha factory after many tests. If the settings are changed, poor engine performance and damage may result.

Idle speed adjustment

NOTE: ____

A diagnostic tachometer must be used for this procedure.

1. Attach the tachometer. Start the engine and warm it up for a few minutes at approximately 1,000 to 2,000 r/min. Occasionally rev the engine to 4,000 to 5,000 r/min. The engine is warm when it quickly responds to the throttle.



- 1 Throttle stop screw
 - Set the idle to the specified engine speed by adjusting the throttle stop screw. Turn the screw in direction (a) to increase engine speed and in direction (b) to decrease engine speed

Standard idle speed: 1,250 ~ 1,350 r/min

NOTE:

If the specified idle speed cannot be obtained by performing the above adjustment, consult a Yamaha dealer

EAU00635

a Free play

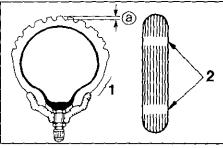
Throttle cable free play inspection

There should be a free play of 3 ~ 5 mm at the throttle grip if the free play is incorrect, ask a Yamaha dealer to make this adjustment

Valve clearance adjustment

The correct valve clearance changes with use, resulting in improper fuel/air supply or engine noise. To prevent this, the valve clearance must be adjusted regularly. This adjustment however, should be left to a professional Yamaha service technician.





- Side wall
- 2 Wear indicator
- a Tread depth

EAU01543

Tires

To ensure maximum performance, long service and safe operation, note the following:

Tire air pressure

Always check and adjust the tire pressure before operating the motorcycle

6

EW000082

WARNING

Tire inflation pressure should be checked and adjusted when the temperature of the tire equals the ambient air temperature. Tire inflation pressure must be adjusted according to total weight of cargo, rider, passenger, and accessories (fairing, saddlebags, etc. if approved for this model), and vehicle speed.

Maximum load*	um load* 183 kg	
Cold tire pressure	Front	Rear
Up to 90 kg load*	175 kPa (1 75 kgf/cm ² , 1 75 bar)	200 kPa (2 00 kgf/cm ² , 2 00 bar)
90 kg load ~ Maximum load*	200 kPa (2 00 kgf/cm ² , 2 00 bar)	225 kPa (2 25 kgf/cm ² , 2 25 bar)

Load is the total weight of cargo, rider, passenger and accessories

WARNING

Proper loading of your motorcycle is important for several characteristics of your motorcycle, such as handling, braking, performance and safety. Do not carry loosely packed items that can shift. Securely pack vour heaviest items close to the center of the motorcycle, and distribute the weight evenly from side to side. Properly adjust the suspension for your load, and check the condition and pressure of your tires. **NEVER OVERLOAD YOUR MOTOR-**CYCLE. Make sure the total weight of the cargo, rider, passenger, and accessories (fairing, saddlebags, etc. if approved for this model) does not exceed the maximum load of the motorcycle. Operation of an overloaded motorcycle could cause tire damage, an accident, or even injury.

EW000083 Tire inspection

Always check the tires before operating the motorcycle. If a tire tread shows crosswise lines (minimum tread depth), if the tire has a nail or glass fragments in it, or if the side wall is cracked, contact a Yamaha dealer immediately and have the tire replaced.

FRONT

Manufacturer	Size	Туре
CHENG SHIN	3 00-18 47P	C-916

REAR

Manufacturer	Size	Type
CHENG SHIN	130/90-15M/C 66P	C-915

7,000,000	
Minimum tire tread depth	1 0 mm
(front and rear)	1 0 111111

EAU00680

WARNING

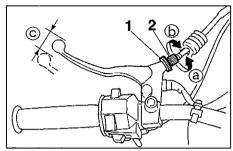
- It is dangerous to ride with a worn-out tire. When a tire tread begins to show lines, have a Yamaha dealer replace the tire immediately. Brakes, tires, and related wheel parts replacement should also be left to a Yamaha dealer.
- Patching a punctured tube is not recommended. If it is absolutely necessary to do so, use great care and replace the tube as soon as possible with a good quality replacement.

. . . .

Wheels

To ensure maximum performance, long service, and safe operation, note the following:

- Always inspect the wheels before a ride Check for cracks, bends or warpage of the wheel Be sure the spokes are tight and undamaged If any abnormal condition exists in a wheel, consult a Yamaha dealer Do not attempt even small repairs to the wheel. If a wheel is deformed or cracked, it must be replaced
- Tires and wheels should be balanced whenever either one is changed or replaced Failure to have a wheel balanced can result in poor performance, adverse handling characteristics, and 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 Locknut

EAU00685

- 2 Adjusting bolt
- c Free play

EAU00694

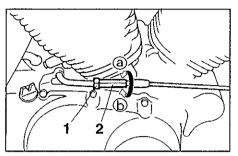
Clutch lever free play adjustment

The clutch lever free play should be adjusted to 10 ~ 15 mm

- Loosen the locknut at the clutch lever
- 2 Turn the adjusting bolt at the clutch lever in direction (a) to increase free play or in direction (b) to decrease free play.
- 3 Tighten the locknut at the clutch lever

6

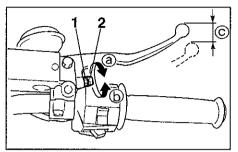
PERIODIC MAINTENANCE AND MINOR REPAIR



- 1 Locknut
- 2 Adjusting nut

If the specified free play cannot be obtained, proceed with the following steps.

- 4 Loosen the locknut at the clutch lever.
- 5 Turn the adjusting bolt at the clutch lever in direction (a) to loosen the cable.
- Loosen the locknut at the crankcase side
- 7 Turn the adjusting nut at the crankcase in direction (a) to increase free play or in direction (b) to decrease free play.
- 8. Tighten the locknut at the crankcase and the clutch lever



- 1 Locknut
- 2 Adjusting bolt
- c Free play

EAU00696

Front brake lever free play adjustment

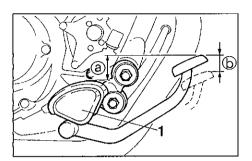
The free play at the front brake lever should be 2 ~ 5 mm

- Loosen the locknut.
- Turn the adjusting bolt in direction (a) to increase free play or in direction (b) to decrease free play
- 3 After adjusting, tighten the locknut.

⚠ WARNING

EW000099

- Check the brake lever free play.
 Be sure the brake is working properly.
- A soft or spongy feeling in the brake lever can indicate the presence of air in the brake system. This air must be removed by bleeding the brake system before the motorcycle is operated. Air in the system will cause greatly diminished braking capability and can result in loss of control and an accident. Have a Yamaha dealer inspect and bleed the system if necessary.



- Footrest
- Pedal height
- b Free play

Rear brake pedal height and free play adjustment

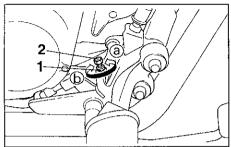
EW000104



It is advisable to have a Yamaha dealer make this adjustment.

Pedal height

The brake pedal should be positioned so that its top end is approximately 60 mm above the top of the footrest

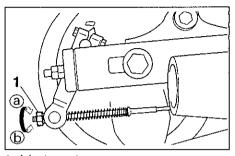


- Locknut
- 2 Adjusting bolt
 - Loosen the locknut
 - Turn the adiusting bolt in direction (a) to raise pedal height or in direction (b) to lower pedal height
- Tighten the locknut

EW000108

WARNING

After adjusting the pedal height, adjust brake pedal free play.



1 Adjusting nut

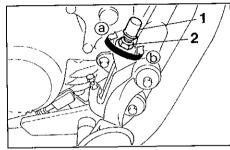
Free play

The rear brake pedal free play should be adjusted to 20 ~ 30 mm at the brake pedal end Turn the adjusting nut on the brake rod in direction (a) to increase free play or in direction (b) to decrease free play

EW000106

WARNING

- Brake pedal free play should be checked whenever the chain is adjusted or the rear wheel is removed and then reinstalled.
- Check the operation of the brake light after adjusting the rear brake.
- If it is impossible to make proper adjustment, consult a Yamaha dealer.



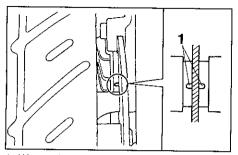
- 1 Brake light switch
- 2 Adjusting nut

EAU00713

Brake light switch adjustment

The rear brake light switch is activated by the brake pedal and is properly adjusted when the brake light comes on just before braking takes effect. To adjust the rear brake light switch, hold the switch body so it does not rotate while turning the adjusting nut.

Turn the adjusting nut in direction (a) to make the brake light come on earlier Turn the adjusting nut in direction (b) to make the brake light come on later



1 Wear indicator groove

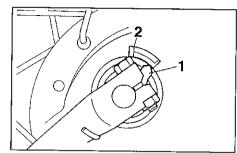
EAU00720

Checking the front brake pads and rear brake shoes

EAU00725

Front brake

A wear indicator groove is provided on each brake pad. This indicator allows checking of brake pad wear without disassembling the brake. Inspect the groove If the groove has almost disappeared, ask a Yamaha dealer to replace the pads.

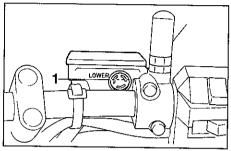


- 1 Wear indicator
- 2 Wear limit line

Rear brake

Apply the brake and inspect the wear indicator.

If the indicator reaches the wear limit line, ask a Yamaha dealer to replace the shoes.



1 Minimum level mark

EAU00727

EAU00732

Inspecting the brake fluid level

Insufficient brake fluid may let air enter the brake system, possibly causing the brakes to become ineffective

Before riding, check that the brake fluid is above the minimum level and fill when necessary.

Observe these precautions:

 When checking the fluid level, make sure the top of the master cylinder is level by turning the handlebars

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PERIODIC MAINTENANCE AND MINOR REPAIR

 Use only the designated quality brake fluid Otherwise, the rubber seals may deteriorate, causing leakage and poor brake performance.

Recommended brake fluid. DOT 4

NOTE: If DOT 4 is not available, DOT 3 can be

used

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

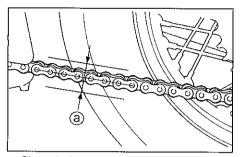
 Have a Yamaha dealer check the cause if the brake fluid level goes down. EAU00742

Brake fluid replacement

The brake fluid should be replaced only by trained Yamaha service personnel Have the Yamaha dealer replace the following components during periodic maintenance or when they are damaged or leaking:

- oil seals (every two years)
- brake hoses (every four years)

EAU00744



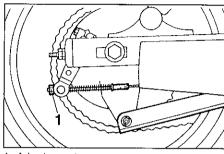
a Chain slack

Drive chain slack check

NOTE: ___

Spin the wheel several times and find the tightest position of the chain. Check and/or adjust the chain slack while it's in this tightest position

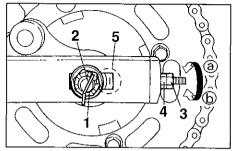
To check the chain slack the motor-cycle must be held straight up with both wheels on the ground and without rider Check the slack at the position shown in the illustration. Normal slack is approximately 30 ~ 40 mm. If the slack exceeds 40 mm, adjust



1 Adjusting nut

Drive chain slack adjustment

 Loosen the rear brake pedal free play adjusting nut



- 1 Axle nut
- 2 Cotter pin

EAU01076

- 3 Locknut
- 4 Adjusting nut
- 5 Alignment marks
- 2 Remove the cotter pin from the axle nut
- 3 Loosen the axle nut
- 4 Loosen the chain adjusting locknuts on each chain puller. To tighten the chain, turn the chain
 adjusting nuts in direction (a) To
 loosen the chain, turn the chain
 adjusting nuts in direction (b) and
 push the wheel forward. Turn each
 chain adjusting nut exactly the
 same amount to maintain correct

axle alignment. There are marks on each chain puller Use these marks to align the rear wheel

EC000096

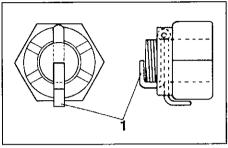
CAUTION:

Too little chain slack will overload the engine and other vital parts. Keep the slack within the specified limits.

5 After adjusting, be sure to tighten each chain adjusting locknut Then tighten the axle nut to the specified torque

Axle nut.

105 Nm (10 5 m·kg)



- 1 Cotter pin
- Insert a new cotter pin into the axle
 nut and bend the end of the cotter
 pin as shown. If the notch in the
 axle nut and the cotter pin hole do
 not match, tighten the nut slightly
 to align them.

EW000110

WARNING

Always use a new cotter pin on the axle nut.

7 Adjust the free play in the brake pedal.

EW000103

WARNING

Check the operation of the brake light after adjusting the rear brake.

EAU03006

Drive chain lubrication

The chain consists of many parts which work with each other. If the chain is not maintained properly, it will wear out quickly. Therefore, the chain must be serviced regularly. This service is especially necessary when riding in dusty areas This motorcycle is equipped with a sealed type chain. Steam cleaning, high-pressure washers, and solvents can damage the drive chain, so do not use these for cleaning it. Use only kerosene to clean the drive chain Wipe it dry, and thoroughly lubricate it with SAE 30 ~ 50W motor oil Do not use any other lubricants on the drive chain They may contain solvents that could damage the sealed chain

EC000097

CAUTION:

Be sure to oil the chain after washing the motorcycle or riding in the rain.

Cable inspection and lubrication

EW000112

EAU02962

WARNING

Damage to the outer housing of cables may lead to internal rusting and interfere with the cable movement. Replace damaged cables as soon as possible to prevent unsafe conditions.

Lubricate the cables and cable ends If a cable does not operate smoothly, ask a Yamaha dealer to replace it.

Recommended lubricant Engine oil

Throttle cable and grip lubrication

The throttle twist grip assembly should be greased at the time that the cable is lubricated, since the grip must be removed to get at the end of the throttle cable After removing the screws, hold the end of the cable up in the air and put in several drops of lubricant. With the throttle grip disassembled, coat the metal surface of the grip assembly with a suitable all-purpose grease

EAU00773

Brake and shift pedal lubrication

EAU02984

Lubricate the pivoting parts

Recommended lubricant Engine oil

Brake and clutch lever lubrication

Lubricate the pivoting parts.

Recommended lubricant Engine oil EAU02986

Sidestand lubrication

Lubricate the sidestand pivoting point and metal-to-metal contact surfaces. Check that the sidestand moves up and down smoothly.

Recommended lubricant: Engine oil

EW000113

M WARNING

EAU02985

If the sidestand does not move smoothly, consult a Yamaha dealer.

Front fork inspection Visual check

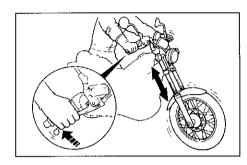
EW000115

FAU02939



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

Check for scratches or damage on the inner tube and excessive oil leakage from the front fork



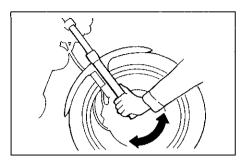
Operation check

- 1 Place the motorcycle on a level place
- 2 Hold the motorcycle in an upright position and apply the front brake
- 3 Push down hard on the handlebars several times and check if the fork rebounds smoothly

EC000098

CAUTION:

If any damage or unsmooth movement is found with the front fork, consult a Yamaha dealer.



EAU00794

Steering inspection

Periodically inspect the condition of the steering. Worn out or loose steering bearings may be dangerous. Place a stand under the engine to raise the front wheel off the ground. Hold the lower end of the front forks and try to move them forward and backward. If any free play can be felt, ask a Yamaha dealer to inspect and adjust the steering. Inspection is easier if the front wheel is removed.

EW000115

WARNING

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

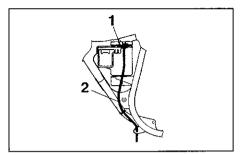
FC000099

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU01144

Wheel bearings

If there is play in the front or rear wheel hub or if the wheel does not turn smoothly, have a Yamaha dealer inspect the wheel bearings.



- 1 Battery
- 2 Battery breather hose

EAU01071

Battery

Check the level of the battery electrolyte and make sure that the terminals are tight. Fill with distilled water if the electrolyte level is low

CAUTION:

When inspecting the battery, be sure the breather hose is routed correctly. If the breather hose is positioned in such a way as to cause battery electrolyte or gas to exit onto the frame, structural and cosmetic damage to the motorcycle can occur.

EW000116

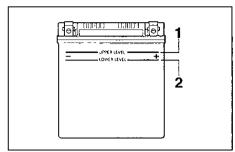
⚠ WARNING

Battery electrolyte is poisonous and dangerous, causing severe burns, etc. It contains sulfuric acid. Avoid contact with skin, eyes or clothing. ANTIDOTE:

- EXTERNAL: Flush with water.
- INTERNAL: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call a physician immediately.
- EYES: Flush with water for 15 minutes and get prompt medical attention.

Batteries produce explosive gases. Keep sparks, flame, cigarettes etc., away. Ventilate when charging or using in an enclosed space. Always shield your eyes when working near batteries.

KEEP OUT OF REACH OF CHIL-DREN.



- 1 Maximum level mark
- 2 Minimum level mark

Replenishing the battery fluid

A poorly maintained battery will corrode and discharge quickly. The battery fluid should be checked at least once a month. The level should be between the minimum level and maximum level marks. Use only distilled water if refilling is necessary.

EC000100

CAUTION:

Normal tap water contains minerals which are harmful to a battery; therefore, refill only with distilled water.

EW000117

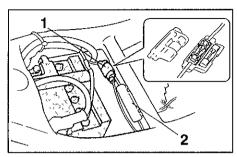
WARNING

Take care not to spill battery fluid on the chain. Battery fluid may weaken the chain causing shorter chain life and possibly result in an accident.

Battery storage

- When the motorcycle will not be used for a month or longer, remove the battery, fully charge it and store it in a cool, dry place. Completely recharge the battery before reinstallation.
- If the battery will be stored for longer than two months, check the specific gravity of the fluid at least once a month and fully recharge the battery when it is too low
- Always make sure the connections are correct when putting the battery back in the motorcycle.
 Make sure the breather hose is properly connected and is not damaged or obstructed.

6



- 1 Main fuse
- Signaling system fuse

Fuse replacement

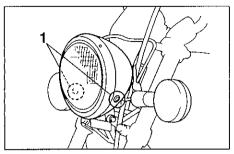
The fuse cases are located under the rider seat.

If a fuse is blown, turn off the main switch and the switch of the circuit in question. Install a new fuse of specified amperage. Turn on the switches and see if the electrical device operates. If the fuse immediately blows again, consult a Yamaha dealer EC000103

CAUTION:

Do not use fuses of higher amperage rating than those recommended. Substitution of a fuse of improper rating can cause extensive electrical system damage and possibly a fire.

Specified fuses
Main fuse. 20 A
Signaling system fuse 10 A



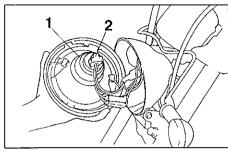
1 Screw (x 2)

Headlight bulb replacement

This motorcycle is equipped with a quartz bulb headlight

If the headlight bulb burns out, replace the bulb as follows

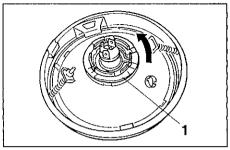
Remove the headlight unit screws



- 1 Bulb holder cover
- 2 Connector

EAU03003

2 Remove the connector, the headlight unit and then the bulb holder cover.



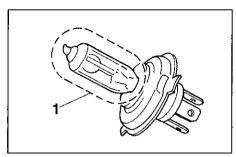
- 1 Bulb holder
- 3 Turn the bulb holder counterclockwise to remove it and remove the defective bulb

EWA00023

WARNING

Keep flammable products and your hands away from the bulb while it is on, as it is hot. Do not touch the bulb until it cools down.

4 Put a new bulb into position and secure it in place with the bulb holder



1 Don't touch

ECA00040

CAUTION:

Avoid touching the glass part of the bulb. Keep it free from oil; otherwise, the transparency of the glass, life of the bulb, and luminous flux will be adversely affected. If oil gets on the bulb, thoroughly clean it with a cloth moistened with alcohol or lacquer thinner.

Install the bulb holder cover, connector and headlight unit Ask a Yamaha dealer to adjust the headlight beam if that adjustment is necessary

Supporting the motorcycle

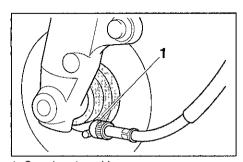
Since the Yamaha XV250S has no centerstand, follow these precautions when removing the front and rear wheel or performing other maintenance requiring the motorcycle to stand upright Check that the motorcycle is in a stable and level position before starting any maintenance. A strong wooden box can be placed under the engine for added stability

Front wheel service

To stabilize the rear of the motorcycle, either use a motorcycle stand or place a motorcycle jack under the frame in front of the rear wheel to prevent it from moving from side to side. Then use a motorcycle stand to elevate the front wheel off of the ground.

Rear wheel service

Use a motorcycle stand or motorcycle jack to elevate the motorcycle so the rear wheel is off the ground. Alternatively, two jacks can be placed under the frame or swingarm



1 Speedometer cable

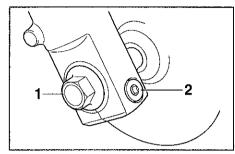
Front wheel removal

EAU00894 EW000122

WARNING

 It is advisable to have a Yamaha dealer service the wheel.

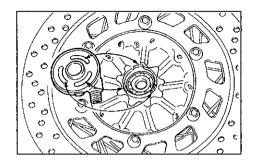
- Securely support the motorcycle so there is no danger of it falling over.
- 1. Remove the speedometer cable from the front wheel side.



- 1 Axle
- 2 Pinch bolt
 - 2 Loosen the pinch bolt and wheel axle
 - 3 Elevate the front wheel by placing a suitable stand under the engine.
 - 4 Remove the wheel axle and the front wheel

NOTE: _

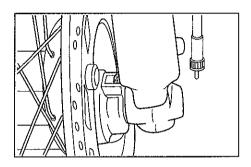
Do not depress the brake lever when the disc and caliper are separated.



FAU01394

Front wheel installation

- Install the speedometer gear unit into the wheel hub Make sure the wheel hub and the speedometer gear unit are installed with the projections meshed into the slots
- Lift up the wheel between the front fork legs and guide the brake disc between the brake pads Make sure the slot in the speedometer gear unit fits over the stopper on the front fork outer tube.
- 3 Install the wheel axle and let the motorcycle down.



- 4 Push down hard on the handlebars several times to check for proper fork operation.
- 5 Tighten the wheel axle to the specified torque
- Install the pinch bolt and tighten it to the specified torque.

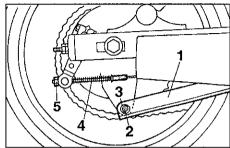
Tightening torque:

Wheel axle 59 Nm (5 9 m-kg)

Pinch bolt

20 Nm (2 0 m·kg)

7 Install the speedometer cable.



- 1 Brake torque rod
- 2 Cotter pin
- 3 Brake torque rod bolt
- 4 Brake rod
- 5 Brake pedal free play adjusting nut

EAU01550

Rear wheel removal

EW000122

WARNING

- It is advisable to have a Yamaha dealer service the wheel.
- Securely support the motorcycle so there is no danger of it falling over.
- 1 Remove the axle nut cotter pin and brake torque rod cotter pin.

- 2 Loosen the axle nut and brake torque rod nut
- 3. Elevate the rear wheel by placing a suitable stand under the engine.
- 4 Remove the brake torque rod nut and bolt from the brake shoe plate.
- Remove the rear brake pedal free play adjusting nut and brake rod from the brake cam lever.

- Axle nut
- Cotter pin
- Locknut
- Adjusting nut
- 5 Alignment marks
 - Loosen the locknuts and chain adjusting nuts on each side
- Remove the axle nut
- Pull out the wheel axle and remove the wheel assembly

Rear wheel installation

- Install the rear wheel and the axle
- Install the axle nut and let the motorcycle down.
- Insert the brake rod into the brake cam lever and install the brake pedal free play adjusting nut
- Install the brake torque rod bolt and tighten to the specified tightening torque. Then install a new cotter pin

Specified torque Brake torque rod bolt.

23 Nm (2 3 m·kg)

- 5. Adjust the drive chain free play (See page 6-20)
- Tighten the axle nut to the specified tightening torque

Specified torque:

Axle nut.

105 Nm (10.5 m-kg)

EAU01696

Adjust the rear brake pedal height and free play (See page 6-16)

EW000103

WARNING

Check the operation of the brake light after adjusting the rear brake.

EAU01008

Troubleshooting

Although Yamaha motorcycles receive a rigid inspection before shipment from the factory, trouble may occur during operation

Any problem in the fuel, compression, or ignition systems can cause poor starting and loss of power. The trouble-shooting chart describes a quick, easy procedure for making checks.

If your motorcycle requires any repair, bring it to a Yamaha dealer. The skilled technicians at a Yamaha dealership have the tools, experience, and knowhow to properly service your motorcycle. Use only genuine Yamaha parts on your motorcycle Imitation parts may look like Yamaha parts, but they are often inferior. Consequently, they have a shorter service life and can lead to expensive repair bills.

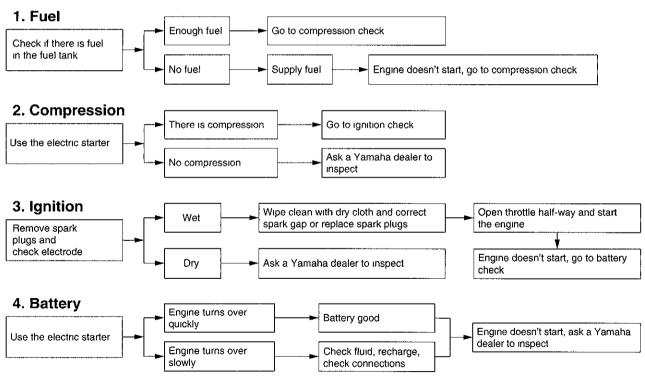
Troubleshooting chart

EAU01562*

EW000125



Never check the fuel system while smoking or in the vicinity of an open flame.



Care

The exposure of its technology makes a motorcycle charming but also vulnerable. Although high-quality components are used, they are not all rustresistant While a rusty exhaust pipe may remain unnoticed on a car, it does look unattractive on a motorcycle. Frequent and proper care, however, will keep your motorcycle looking good, extend its life and maintain its performance. Moreover, the warranty states that the vehicle must be properly taken care of For all these reasons, it is recommended that you observe the folcleaning and lowing storing precautions

Before cleaning

- 1 Cover up the muffler outlets with plastic bags.
- 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

After normal use

Remove dirt with warm water, a neutral detergent and a soft clean sponge, then rinse with plenty of clean water. Use a tooth or bottle brush for hard-to-reach parts. Tougher dirt and insects will come off more easily if the area is covered with a wet cloth for a few minutes before cleaning.

ECA00010

CAUTION:

- Avoid using strong acidic wheel cleaners, especially on spoked wheels. If you do use such products for hard-to-remove dirt, do not leave it on any longer than instructed, then thoroughly rinse it off with water, immediately dry the area and apply a corrosion protection spray.
- Improper cleaning can damage windshields, cowlings, panels and other plastic parts. Use only a soft, clean cloth or sponge with mild detergent and water to clean plastic.

- Do not use any harsh chemical products on plastic parts. Be sure to avoid using cloths or sponges which have been in contact with strong or abrasive 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 bearings, swingarm bearings, forks 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 they do not leave any marks. If the windshield is scratched, use a quality plastic polishing compound after washing.

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

Since sea salt or salt sprayed on the roads in the 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 (Salt sprayed in the winter may remain on the roads well into spring)

1 Clean your motorcycle with cold water and soap after the engine has cooled down.

ECA00012

CAUTION:

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

2 Be sure to apply a corrosion protection spray on all (even chromeand nickel-plated) metal 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
- 3 Use a chrome polish to shine chrome, aluminum and stainlesssteel parts, including the exhaust system. (Even the thermally induced discoloring of stainlesssteel exhaust systems can be removed through polishing)
- To prevent corrosion, it is recommended to apply a corrosion protection spray on all (even chromeand nickel-plated) metal 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 it or covering it

WARNING

EWA00001

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

CAUTION:

ECA00013 Storage

 Apply spray oil and wax sparingly and wipe off any excess.

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

NOTE: Consult a Yamaha dealer for advice on what products to use

Short-term

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

ECA00014

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

Before storing your motorcycle for several months.

- 1 Follow all the instructions in the "Care" section of this chapter.
- 2 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
- 3 Only for motorcycles equipped with a fuel cock which has an "OFF" position Turn the fuel cock to "OFF".
- 4. Fill up the fuel tank and add fuel stabilizer (if available) to prevent the fuel tank from rusting and the fuel from deteriorating.
- Perform the following steps to protect the 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 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, install the spark plugs and then the spark plug caps.

EWA00003

WARNING

When turning the engine over, be sure to ground the spark plug electrodes to prevent damage or injury from sparking.

- 6 Lubricate all control cables and the pivoting points of all levers and pedals as well as of the sidestand/ centerstand
- 7. Check and, if necessary, correct the tire air pressure, then raise 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 up the muffler outlets with plastic bags to prevent moisture from entering.

9 Remove the battery and fully charge it. Store it in a cool, dry place and recharge 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, see "Battery storage" in the chapter "PERIOD-IC MAINTENANCE AND MINOR REPAIRS".

NOTE:

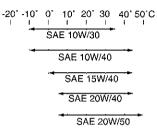
Make any necessary repairs before storing the motorcycle.

Specifications

Model	XV250S
Dimensions	
Overall length	2,190 mm
Overall width	815 mm
Overall height	1 ,140 mm
Seat height	685 mm
Wheelbase	1,490 mm
Ground clearance	145 mm
Minimum turning radius	2,800 mm
Basic weight (with oil and fuil fuel tank)	147 kg
Engine	
Engine type	Air-cooled 4-stroke, SOHC
Cylinder arrangement	V type 2-cylinder
Displacement	249 cm ³
Bore × Stroke	49 × 66 mm
Compression ratio	10 1
Starting system	Electric starter
Lubrication system	Wet sump

Engine oil

Type



Recommended engine oil

classification API Service SE, SF, SG type or higher

CAUTION:

Be sure to use motor oils that do not contain anti-friction modifiers. Passenger car motor oils (often labeled "Energy Conserving") contain anti-friction additives which will cause clutch and/or starter clutch slippage, resulting in reduced component life and poor engine performance.

Quantity

Periodic oil change 1 4 L
With oil filter replacement 1 6 L
Total amount 1 8 L

SPECIFICATIONS

Air filter	Wet type element	Gear ratio	
Fuel		1st	2 643
Туре	Regular gasoline	2nd	1 684
	Unleaded fuel only For Australia	3rd	1 261
Fuel tank capacity	95L	4th	1 000
Reserve amount	26L	5th	0 821
Carburetor		Chassis	
Type \times quantity	BDS26 × 1	Frame type	Double cradle
Manufacturer	MIKUNI	Caster angle	32°
Spark plug		Trail	120 mm
Type/Manufacturer	C6HSA / NGK or	Tire	
	U20FS-U / DENSO	Front	
Gap	06~07 mm	Туре	With tube
Clutch type	Wet, multiple-disc	Size	3 00-18 47P
Transmission		Manufacturer/	
Primary reduction system	Spur gear	model	CHENG SHIN / C-916
Primary reduction ratio	3 130	Rear	
Secondary reduction system	Chain drive	Туре	With tube
Secondary reduction ratio	2 813	Sıze	130/90-15M/C 66P
Number of drive chain sprocket teeth (rear/front)	45/16	Manufacturer/ model	CHENG SHIN / C-915
Transmission type	Constant mesh 5-speed	Maximum load*	183 kg
Operation	Left foot operation		

SPECIFICATIONS

Air pressure (cold tire)

Up to 90 kg load*

175 kPa (1 75 kgf/cm², 1 75 bar) Front 200 kPa (2 00 kgf/cm², 2 00 bar)

Rear

90 kg load ~ maximum

load*

200 kPa (2 00 kgf/cm², 2 00 bar) Front 225 kPa (2 25 kgf/cm², 2 25 bar) Rear

* Load is total weight of cargo, rider, passenger and accessories

Wheels

Front

Type Spoke

Size 18×160

Rear

Spoke Type

Size 15M/C × MT 2 75

Brakes

Front

Type Single disc brake

Operation Right hand operation

Fluid DOT 4 or DOT 3

Rear

Type Drum brake

Operation Right foot operation Suspension

Front

Telescopic fork Type

Rear

Type Swingarm

Shock absorbers

Front Coil spring / oil damper Rear Coil spring / oil damper

Wheel travel

140 mm Front Rear 100 mm

Electrical system

Ignition system TCI (digital)

Charging system

Type A C magneto

Standard output 14 V, 25 A @ 5,000 r/min

Battery

Type GM10-3A-2 Voltage, capacity 12 V, 10 AH

Headlight type Quartz bulb (halogen)

SPECIFICATIONS

Bulb voltage, wattage × quantity

Headlight12 V, 60/55 W \times 1Tail/brake light12 V, 5/21 W \times 1Turn signal lights12 V, 21 W \times 4Meter light14 V, 3 W \times 1Neutral indicator light14 V, 3 W \times 1

High beam indicator light 12 V, 1 7 W \times 1 Turn indicator light 14 V, 3 W \times 1

Fuses

Main fuse 20 A Signaling system fuse 10 A EAU01064

HOW TO USE THE 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

Ex

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/hr	0 6214	mph	
Distance	km	0 6214	mı	
	m	3 281	ft	
	m	1 094	yd	
	cm	0 3937	ın	
	mm	0 03937	ın	
Volume / Capacity	cc (cm ³) cc (cm ³) it (liter) it (liter)	0 03527 0 06102 0 8799 0 2199	oz (IMP liq) cu in qt (IMP liq) gal (IMP liq)	
Misc	kg/mm	55 997	lb/in	
	kg/cm ²	14 2234	psi (lb/in ²)	
	Centigrade (°C)	9/5 + 32	Fahrenheit (°F)	

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EAU02944

Identification number records

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

1 KEY IDENTIFICATION NUMBER.

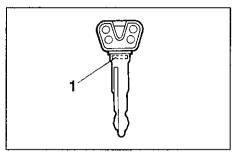


2. VEHICLE IDENTIFICATION NUMBER:



3. MODEL LABEL INFORMATION.





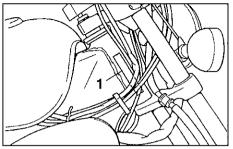
1 Key identification number

EAU01042

Key identification number

The key identification number is stamped on the key.

Record this number in the space provided and use it for reference when obtaining a new key



1 Vehicle identification number

EAU01043

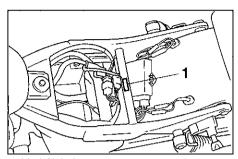
Vehicle identification number

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 state.

CONSUMER INFORMATION



1 Model label

EAU01050

Model label

The model label is affixed to the frame under the seat. (See page 3-8 for seat removal procedures.) Record the information on this label in the space provided. This information will be needed to order spare parts from your Yamaha dealer.

EAU01388

NOISE REGULATION (For Australia)

TAMPERING WITH NOISE CONTROL SYSTEM PROHIBITED

Owners are warned that the law may prohibit.

- (a) The removal or rendering inoperative by any person other than for purposes of maintenance, repair or replacement, of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use; and
- (b) The use of the vehicle after such device or element of design has been removed or rendered inoperative by any person

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