YAMAHA

XV250G
XV250SG

OWNER'S MANUAL

3LV-28199-26
INTRODUCTION

Congratulations on your purchase of the Yamaha XV250G/XV250SG. 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.
Particularly important information is distinguished in this manual by the following notations:

⚠️ The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

⚠️ WARNING
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.

⚠️ CAUTION:
A CAUTION indicates special precautions that must be taken to avoid damage to the motorcycle.

NOTE:
A NOTE provides key information to make procedures easier or clearer.

NOTE:
This manual should be considered a permanent part of this motorcycle and should remain with it even if the motorcycle is subsequently sold.

NOTE:
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 machine and this manual. If there is any question concerning this manual, please consult your Yamaha dealer.
WARNING

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

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.
5. 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 motorcycle 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.
   a. 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.
b. 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 vehicle.

c. 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**

1. **GASOLINE IS HIGHLY FLAMMABLE:**
   a. Always turn off the engine when refueling.
   b. Take care not to spill any gasoline on the engine or exhaust pipe(s)/muffler(s) when refueling.
   c. 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.
3. Always turn off the engine before leaving the motorcycle unattended and remove the ignition key. When parking the motorcycle, note the following:
   a. The engine and exhaust pipe(s)/muffler(s) 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(s) 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 eye(s), 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.
LOCATION OF THE IMPORTANT LABELS

Please read the following labels carefully before operating this motorcycle.
WARNING

Before you operate this vehicle, read the owner’s manual.
DESCRIPTION

1. Tail/brake light
2. Rear flasher light
3. Seat
4. Air filter
5. Front flasher light
6. Brake pedal
7. Footrest
8. Headlight
9. Fuel tank
10. Helmet holder
11. Rear wheel
12. Main switch
13. Shift pedal
14. Front wheel
15. Clutch lever
16. Handlebar switches
17. Speedometer
18. Brake lever
19. Throttle grip
MOTORCYCLE IDENTIFICATION

Identification numbers record

1. KEY IDENTIFICATION NUMBER:

2. VEHICLE IDENTIFICATION NUMBER:

3. ENGINE SERIAL NUMBER:

Your key identification number is stamped on your key as shown in the following illustration. Record this number in the space provided for reference if you need a new key.

Record your vehicle identification number and engine serial number in the spaces provided to assist you in ordering spare parts from your Yamaha dealer or for reference in case your vehicle is stolen.
Vehicle identification number
The vehicle identification number is stamped into the steering head pipe.

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.

Engine serial number
The engine serial number is stamped into the crankcase.

NOTE:
The first three digits of these numbers are for model identification; the remaining digits are the unit production number. Keep a record of these numbers for reference when ordering parts from a Yamaha dealer.
CONTROL FUNCTIONS

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

ON:
Electrical circuits are switched 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.

NOTE:
Always turn the main switch to "OFF" and remove the key when the motorcycle is unattended.
Indicator lights

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

High beam indicator light "HIGH BEAM"
This indicator comes on when the headlight high beam is used.

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 odometer to estimate how far you can ride on a tank of fuel before going to reserve. This information will enable you to plan fuel stops in the future.
**Handlebar switches**

1. Pass switch “PASS”
2. Dimmer switch “LIGHTS”
3. Turn signal switch “TURN”
4. Horn switch “HORN”
5. Engine stop switch “ENGINE STOP”
6. Hazard switch “HAZARD”
7. Start switch “START”

**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.

**Horn switch “HORN”**
Press the switch to sound the horn.
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.

Start switch “START”
The starter motor cranks the engine when pushing the starter switch.

CAUTION:
See starting instructions prior to starting the engine.

Hazard switch “HAZARD”
The hazard switch should be turned on under emergency or hazardous conditions. Both front and rear flasher lights will flash simultaneously when this switch is turned on with the main switch in the “ON” position.

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.

Clutch lever
The clutch lever is located on the left handlebar, and the starting circuit cutoff switch 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 starting circuit cutoff switch.)
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.

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

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.

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.

EAC10201

**Fuel cock**
The negative pressure fuel cock supplies fuel from the tank to the carburetor(s) 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.
**RES:** This indicates reserve. If you run out of fuel while riding, move the lever to “PRI”, start the engine, then switch to “RES”. FILL THE TANK AT THE FIRST OPPORTUNITY. BE SURE TO SET THE LEVER TO “ON” AFTER REFUELLING.

**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.
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, prime the carburetor in this position, and then switch to “ON” after starting the engine.

EAC20100

**Starter lever (CHOKE)**
The starter lever is located on the left handlebar. Starting a cold engine requires a richer fuel mixture. In such a case, turn the starter lever to the left. After the engine is warm, turn the lever to its original position.

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**NOTE:**
Refer to “Starting and warming up a cold engine” for proper operation.

1. Starter lever (CHOKE)
**Steering lock**
To lock the steering, turn the handlebars all the way to the right, and insert the key into the steering lock. Turn the key 1/8 turn counterclockwise, push it in, then turn it 1/8 turn clockwise. After checking to see that the lock is engaged, remove the key from the lock. To release the lock, reverse the above procedure.

**Seat**
To remove the seat, remove the bolts.

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*Image of a motorcycle seat with bolts marked for removal.*
When reinstalling the seat, insert the lobe(s) on the seat front into the receptacle(s) on the frame, then tighten the bolts.

**NOTE:**

Make sure that the seat is securely fitted.

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**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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**WARNING**

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

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1. Helmet holder
2. Open
Rear shock absorber
The spring preload of the rear shock absorber can be adjusted to suit the rider’s preference, motorcycle’s load (ex: optional accessories etc.) and road conditions. Refer to page 8-27 for proper adjustment procedures.

1. Spring preload adjuster

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 7-1 for an explanation of this system.)

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 responsibility of retracting the 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 MAIN SWITCH TO “ON” AND ENGINE STOP SWITCH TO “RUN”**.

**TRANSMISSION IS IN GEAR AND SIDESTAND IS UP**.

**PULL IN CLUTCH LEVER AND PUSH STARTER SWITCH**.

**ENGINE WILL START**.

**CLUTCH SWITCH IS OK**.

**SIDESTAND IS DOWN**.

**ENGINE WILL STALL**.

**SIDESTAND SWITCH IS OK**.

**WARNING**

If improper operation is noted, consult a Yamaha dealer immediately.
# PRE-OPERATION CHECKS

Before using this motorcycle, check the following points:

<table>
<thead>
<tr>
<th>Item</th>
<th>Routine</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front brake</td>
<td>Check operation, free play, fluid level and fluid leakage. Top-up with DOT#4 ( or DOT #3) brake fluid if necessary.</td>
<td>6-3<del>6-4, 8-15</del>8-20</td>
</tr>
<tr>
<td>Rear brake</td>
<td>Check operation, condition and free play. Adjust if necessary.</td>
<td>6-4, 8-20~8-21</td>
</tr>
<tr>
<td>Clutch</td>
<td>Check operation, condition and free play. Adjust if necessary.</td>
<td>6-4, 8-20~8-21</td>
</tr>
<tr>
<td>Throttle grip/Housing</td>
<td>Check for smooth operation. Lubricate/Adjust if necessary.</td>
<td>6-4, 8-13, 8-25</td>
</tr>
<tr>
<td>Engine oil</td>
<td>Check oil level/add oil as required.</td>
<td>6-4, 8-6~8-9</td>
</tr>
<tr>
<td>Drive chain</td>
<td>Check chain slack and condition. Adjust if necessary.</td>
<td>6-5, 8-22~8-24</td>
</tr>
<tr>
<td>Wheels/Tires</td>
<td>Check tire pressure, wear, damage and spoke tightness.</td>
<td>6-5<del>6-7, 8-33</del>8-37</td>
</tr>
<tr>
<td>Control/Meter cables</td>
<td>Check for smooth operation. Lubricate if necessary.</td>
<td>8-25</td>
</tr>
<tr>
<td>Brake and shift pedal shafts</td>
<td>Check for smooth operation. Lubricate if necessary.</td>
<td>8-25</td>
</tr>
<tr>
<td>Brake and clutch lever pivots</td>
<td>Check for smooth operation. Lubricate if necessary.</td>
<td>8-25</td>
</tr>
<tr>
<td>Sidestand pivot</td>
<td>Check for smooth operation. Lubricate if necessary.</td>
<td>8-26</td>
</tr>
<tr>
<td>Fittings/fasteners</td>
<td>Check all chassis fittings and fasteners. Tighten/Adjust if necessary.</td>
<td>6-8, 8-5</td>
</tr>
<tr>
<td>Fuel tank</td>
<td>Check fuel level/top-up as required.</td>
<td>6-8~6-9</td>
</tr>
<tr>
<td>Item</td>
<td>Routine</td>
<td>Page</td>
</tr>
<tr>
<td>---------------------</td>
<td>--------------------------------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Lights and signals</td>
<td>Check for proper operation.</td>
<td>6-8, 8-31~8-33</td>
</tr>
<tr>
<td>Battery</td>
<td>Check fluid level, top-up with distilled water if necessary.</td>
<td>6-8, 8-28~8-30</td>
</tr>
</tbody>
</table>

**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.
Brakes (See page 8-15 for details)

1. Brake lever and brake pedal
   Check for correct free play in the front brake lever and rear brake pedal and adjust if necessary. Make sure the brakes are working properly by checking at low speed shortly after starting out.

2. Brake fluid
   Check the brake fluid level. Add fluid if necessary.

   Recommended brake fluid: DOT #4

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

3. Check the disc pads.
   Refer to page 8-18.

4. Check the brake shoes.
   Refer to page 8-19.

WARNING

A soft, spongy feeling in the brake lever indicates a failure in the brake system. Do not operate the motorcycle until the failure in the brake system is corrected. Ask a Yamaha dealer for immediate repairs. A soft, spongy feeling could indicate a hazardous condition in the brake system.

NOTE:
When this brake service is necessary, consult a Yamaha dealer.

Brake fluid leakage (Front)
Apply the brake for a few minutes. Check to see if any brake fluid leaks out from the pipe joints or the master cylinder(s).

CAUTION:
Brake fluid may deteriorate painted surfaces or plastic parts. Never spill any fluid. If spilled, clean it up immediately.
**WARNING**

If brake fluid leakage is found, ask a Yamaha dealer for immediate repairs. Such leakage could indicate a hazardous condition.

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**Clutch (See page 8-20 for details)**

Check the free play in the clutch lever, and make sure the clutch operates properly. If the free play is incorrect, adjust it.

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**Throttle grip (See page 8-13 for details)**

Turn the throttle grip to see if it operates properly, and check the free play. Make sure the grip returns by spring force when released. Ask a Yamaha dealer to make any necessary adjustments.

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**Engine oil (See page 8-6 for details)**

Make sure the engine oil is at the specified level. Add oil as necessary.

![Recommended oil chart]

- **Recommended oil:**
  - SAE 20W40 type SE motor oil
  - SAE 10W30 type SE motor oil

- **Oil quantity:**
  - **Total amount:** 1.8 L
  - **Periodic oil change:** 1.4 L
  - **With oil filter replacement:** 1.6 L

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**NOTE:**

Recommended engine oil classification; API Service “SE”, “SF” type or equivalent (e.g. “SF-SE”, “SF-SE-CC”, “SF-SE-SD” etc.).
Chain (See page 8-22 for details)
Check the general condition of the chain and the chain slack before every ride. Lubricate and adjust the chain as necessary.

Tires
To ensure maximum performance, long service, and safe operation, note the following:
1. Tire air pressure
   Always check and adjust the tire pressure before operating the motorcycle.

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.

<table>
<thead>
<tr>
<th>Basic weight:</th>
<th>147 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>With oil and full fuel tank</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Maximum load*</th>
<th>183 kg</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Cold tire pressure:</th>
<th>Front</th>
<th>Rear</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 90 kg load*</td>
<td>175 kPa (1.75 kgf/cm², 1.75 bar)</td>
<td>200 kPa (2.0 kgf/cm², 2.0 bar)</td>
</tr>
</tbody>
</table>

| 90 kg load ~        | 200 kPa (2.0 kgf/cm², 2.0 bar) | 225 kPa (2.25 kgf/cm², 2.25 bar) |
| Maximum load*       |        |       |

* Load is the total weight of cargo, rider, passenger, and accessories.
load, and check the condition and pressure of your tires. NEVER OVERLOAD YOUR MOTORCYCLE. 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.

2. 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.

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHENG SHIN</td>
<td>3.00-18 47P</td>
<td>C916</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Size</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHENG SHIN</td>
<td>130/90-15 M/C 66P</td>
<td>C915</td>
</tr>
</tbody>
</table>

Minimum tire tread depth (front and rear) | 1.0 mm
1. 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 be left to a Yamaha Service Technician.

2. 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:

1. 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.

2. 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.

3. After installing a tire, ride conservatively to allow the tire to seat itself on the rim properly. Failure to allow proper seating may cause tire failure, resulting in damage to the motorcycle and injury to the rider.
Fittings/Fasteners
Always check the tightness of chassis fittings and fasteners before a ride. Use the chart on page 8-5 to find the correct torque.

Lights and signals
Check the headlight, flasher lights, taillight, brake light, meter lights, and all the indicator lights to make sure they are in working condition.

Switches
Check the operation of the headlight switch, turn switch, brake light switch, horn switch, starter switch, main switch, etc.

Battery (See page 8-28 for details)
Check the fluid level and top-up if necessary. Use only distilled water if refilling is necessary.

Fuel
Make sure there is sufficient fuel in the tank.

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 as shown in the illustration or it may overflow when the fuel heats up later and expands.

1. Filler tube  
2. Fuel level
CAUTION: Always wipe off spilled fuel immediately with a dry and clean soft cloth. Fuel may deteriorate painted surfaces or plastic parts.

Recommended fuel:
   Regular gasoline
   For Australia:
      Unleaded fuel only

Fuel tank capacity:
   Total:
      9.5 L
   Reserve:
      2.6 L
OPERATION AND IMPORTANT RIDING POINTS

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.

WARNING

1. 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.

2. 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.

Starting and warming up a cold engine

NOTE:

This motorcycle is equipped with a starting and an ignition circuit cut-off switch.

1. The engine can be started only under the following conditions:
   a. The transmission is in neutral.
   b. The sidestand is up, the transmission is in gear, and the clutch is disengaged.

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

Before going through the following steps, check the function of the sidestand switch and clutch switch. (Refer to page 5-11.)

- **TURN MAIN SWITCH TO “ON” AND ENGINE STOP SWITCH TO “RUN”**
  - IF TRANSMISSION IS IN NEUTRAL AND SIDESTAND IS DOWN
    - PUSH STARTER SWITCH; ENGINE WILL START
    - RETRACT SIDESTAND AND PUT TRANSMISSION IN GEAR
    - MOTORCYCLE CAN BE RIDDEN
  - IF TRANSMISSION IS IN GEAR AND SIDESTAND IS UP
    - PULL IN CLUTCH LEVER AND PUSH STARTER SWITCH; ENGINE WILL START
    - MOTORCYCLE CAN BE RIDDEN
1. Turn the main switch to “ON” and the engine stop switch to “RUN.”
2. Shift transmission into neutral.

**NOTE:**
When the transmission is in neutral, the neutral indicator light (green) should be on. If the light does not come on, ask a Yamaha dealer to inspect it.

3. Fully open the starter (CHOKE) and completely close the throttle grip.
4. Start the engine by pushing the starter switch.

**NOTE:**
If the engine fails to start, release the starter 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.

5. After starting the engine, turn back the starter (CHOKE) to warming up position (about halfway).

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

6. 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 turned off.
Starting a warm engine
The starter (CHOOSE) is not required when the engine is warm.

CAUTION: See "Break-in section" prior to operating the motorcycle for the first time.

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. (Page 5-5)
To shift into neutral, depress the shift pedal repeatedly until it reaches the end of its travel, then raise the pedal slightly.

CAUTION:

1. 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.

2. 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.
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.

1. 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.

2. 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.

3. 500 ~ 1,000 km:
   Avoid cruising speeds in excess of 3/4 throttle.

CAUTION: __________________________
After 1,000 km of operation, be sure to replace the engine oil and oil filter element.

4. 1,000 km and beyond:
   Avoid prolonged full throttle operation. Vary speeds occasionally.

CAUTION: __________________________
If any engine trouble should occur during the break-in period, consult a Yamaha dealer immediately.
Parking
When parking the motorcycle, stop the engine and remove the ignition key.

⚠️ WARNING
The muffler and exhaust pipe are 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.
PERIODIC MAINTENANCE AND MINOR REPAIR

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 LOCATIONS, AND A VARIETY OF INDIVIDUAL USES ALL TEND TO DEMAND THAT EACH OWNER ALTER THIS TIME SCHEDULE TO SHORTER INTERVALS TO MATCH THE ENVIRONMENT. The most important points of motorcycle inspection, adjustment, and lubrication are explained in the following pages.

WARNING

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

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.
**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.

---

**NOTE:**

If you do not have necessary tools required during a service operation, take your motorcycle to a Yamaha dealer for service.
<table>
<thead>
<tr>
<th>Item</th>
<th>Remarks</th>
<th>BREAK-IN 1,000</th>
<th>EVERY 6,000 or 12,000 or 12 months</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valve(s)*</td>
<td>Check valve clearance. Adjust if necessary.</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Spark plug(s)</td>
<td>Check condition. Clean or replace if necessary.</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Air filter</td>
<td>Clean. Replace if necessary.</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Carburetor*</td>
<td>Check idle speed/starter operation. Adjust if necessary.</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Fuel line*</td>
<td>Check fuel hose and vacuum pipe for cracks or damage. Replace if necessary.</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Fuel filter*</td>
<td>Check condition. Replace if necessary.</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Engine oil</td>
<td>Replace (Warm engine before draining).</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Engine oil filter*</td>
<td>Replace.</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Front brake*</td>
<td>Check operation/fluid leakage/See NOTE (page 8-4). Correct if necessary.</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Rear brake</td>
<td>Check operation. Adjust if necessary.</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Clutch</td>
<td>Check operation. Adjust if necessary.</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Rear arm pivot*</td>
<td>Check rear arm assembly for looseness. Correct if necessary. Moderately repack every 24,000 or 24 months.***</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Wheels*</td>
<td>Check balance/damage/runout/spoke tightness. Replace if necessary.</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Wheel bearings*</td>
<td>Check bearing assembly for looseness/damage. Replace if damaged.</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Steering bearing*</td>
<td>Check bearings assembly for looseness. Correct if necessary. Moderately repack every 24,000 or 24 months.**</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Item</td>
<td>Remarks</td>
<td>BREAK-IN 1,000</td>
<td>EVERY 6,000 or 6 months</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----------------------------------------------------------</td>
<td>----------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>Front forks*</td>
<td>Check operation/oil leakage. Repair if necessary.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rear shock absorber*</td>
<td>Check operation/oil leakage. Repair if necessary.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drive chain</td>
<td>Check chain slack/alignment. Adjust if necessary. Clean and lube.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fittings/Fasteners*</td>
<td>Check all chassis fittings and fasteners. Correct if necessary.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sidestand*</td>
<td>Check operation. Replace if necessary.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sidestand switch*</td>
<td>Check operation. Clean or replace if necessary.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Battery*</td>
<td>Check specific gravity. Check breather pipe for proper operation. Correct if necessary.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* : It is recommended that these items be serviced by a Yamaha dealer.
** : Medium weight wheel bearing grease.
*** : Lithium soap base grease.

**NOTE:**

Brake fluid replacement:
1. When disassembling the master cylinder or caliper cylinder replace the brake fluid. Normally check the brake fluid level and add the fluid as required.
2. On the inner parts of the master cylinder and caliper cylinder replace the oil seals every two years.
3. Replace the brake hose every four years, or if cracked or damaged.
**Torque specifications**

Use a torque wrench to tighten these items. It is recommended that these items be checked occasionally, especially before a long trip. Always check the tightness of these items whenever they are loosened for any reason.

<table>
<thead>
<tr>
<th>A (Nut)</th>
<th>B (Bolt)</th>
<th>General torque specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 mm</td>
<td>6 mm</td>
<td>Nm</td>
</tr>
<tr>
<td>12 mm</td>
<td>8 mm</td>
<td>15</td>
</tr>
<tr>
<td>14 mm</td>
<td>10 mm</td>
<td>30</td>
</tr>
<tr>
<td>17 mm</td>
<td>12 mm</td>
<td>55</td>
</tr>
<tr>
<td>19 mm</td>
<td>14 mm</td>
<td>85</td>
</tr>
<tr>
<td>22 mm</td>
<td>16 mm</td>
<td>130</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nm</td>
</tr>
<tr>
<td>Spark plug</td>
<td>12.5</td>
</tr>
<tr>
<td>Engine oil drain plug</td>
<td>34</td>
</tr>
<tr>
<td>Oil filter bolt</td>
<td>7</td>
</tr>
<tr>
<td>Front axle pinch bolt</td>
<td>20</td>
</tr>
<tr>
<td>Front wheel axle</td>
<td>59</td>
</tr>
<tr>
<td>Rear wheel axle</td>
<td>104</td>
</tr>
<tr>
<td>Tension bar bolt</td>
<td>23</td>
</tr>
</tbody>
</table>
**Engine oil**

1. Oil level measurement
   a. 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.

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

**NOTE:**
Wait a few minutes until the oil level settles before checking.

c. The oil level should be between maximum and minimum marks. If the level is low, add sufficient oil to raise it to the proper level.

2. Engine oil and oil filter replacement
   a. Warm-up the engine for a few minutes.
b. Stop the engine. Place an oil pan under the engine, and remove the oil filler cap.

c. Remove the drain plug and drain the oil.

d. Remove the oil filter bolts and filter element.

e. Reinstall the drain plug (make sure it is tight).

**Drain plug torque:**
34 Nm (3.4 m·kg)
f. Install the new oil filter element, new O-ring, and the filter cover; tighten the oil filter bolt.

<table>
<thead>
<tr>
<th>Oil filter bolt torque:</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 Nm (0.7 m·kg)</td>
</tr>
</tbody>
</table>

NOTE: Make sure the O-ring is seated properly.

---

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

<table>
<thead>
<tr>
<th>Recommended oil:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°C  5°C  10°C  15°C</td>
</tr>
<tr>
<td>-------------------</td>
</tr>
<tr>
<td>SAE 20W40 type SE motor oil</td>
</tr>
<tr>
<td>SAE 10W30 type SE motor oil</td>
</tr>
</tbody>
</table>

Oil quantity:
- **Total amount:** 1.8 L
- **Periodic oil change:** 1.4 L
- **With oil filter replacement:** 1.6 L

NOTE: Recommended engine oil classification:
API Service “SE”, “SF” type or equivalent (e.g. “SF-SE”, “SF-SE-CC”, “SF-SE-SD” etc.).

---

1. Oil filter element  2. O-ring
CAUTION:

Do not put in any chemical additives. Engine oil also lubricates the clutch and additives could cause clutch slippage.

CAUTION:

Be sure no foreign material enters the crankcase.

h. 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.

Air filter
The element 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 air filter case assembly.
2. Remove the air filter case cover.

3. Remove the element from its case, and clean it with solvent. After cleaning, remove the remaining solvent by squeezing the element.

1. Wing nut
1. Air filter element  2. Element guide

4. Apply recommended oil to the entire surface of the filter and squeeze out the excess oil. The element should be wet but not dripping.

**Recommended oil:**
SAE 10W30 type SE motor oil

5. Install the element in its case.

**CAUTION:**
Make sure the element is properly seated in the filter case.

**CAUTION:**
The engine should never be run without the air filter element installed; excessive piston and/or cylinder wear may result.

**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.

**NOTE:**
A diagnostic tachometer must be used for this procedure.
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
1. Attach the tachometer. Start the engine and warm it up for a few minutes (normally, 1 or 2 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.
2. Set the idle to the specified engine speed by adjusting the throttle stop screw; turn the screw in to increase engine speed, and out 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.
Throttle cable adjustment

NOTE: Before adjusting the throttle cable free play, the engine idling speed should be adjusted.

The throttle cable should have a specified free play in the turning direction at the grip flange. If the free play is incorrect, ask a Yamaha dealer to make 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.

Spark plug 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 porcelain 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 plug.

**Standard spark plug:**
C6HSA (NGK) or U20FS-U (NIPPONDENSO)

Before installing any spark plug, measure the electrode gap with a wire thickness gauge; adjust the gap to specification.

1. Spark plug gap

**Spark plug gap:**
0.6 ~ 0.7 mm

When installing the plug, always clean the gasket surface and use a new gasket. Wipe off any grime from the threads, and torque the spark plug properly.

**Spark plug torque:**
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 torqued to the correct value as soon as possible with a torque wrench.

Front brake adjustment
The free play at the end of the front brake lever should be 2 ~ 5 mm.
1. Loosen the lock nut.
2. Turn the adjuster so that the brake lever movement at the lever end is 2 ~ 5 mm before the adjuster contacts the master cylinder piston.
3. After adjusting, tighten the lock nut.

WARNING
Check the brake lever free play. Be sure the brake is working properly.
**WARNING**

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.

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**EAH87102**

**Rear brake adjustment**

**EUU64301**

**WARNING**

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

---

1. Pedal height
   a. Loosen the lock nut.
   b. By turning the adjuster clockwise or counterclockwise, adjust the brake pedal position as shown.
   c. Tighten the lock nut.

---

1. Footrest
2. Pedal height: 45~55 mm
3. Free play: 20~30 mm
1. Lock nut
2. Adjuster (for pedal height)

**WARNING**

After adjusting the pedal height adjust brake pedal free play.

2. Free play
   The rear brake pedal free play should be adjusted to 20 ~ 30 mm at the brake pedal end. Turn the adjuster on the brake rod clockwise to reduce play or counterclockwise to increase play.

1. Adjuster

**WARNING**

1. The rear brake pedal adjustment must be checked whenever the chain is adjusted or the rear wheel is removed and then reinstalled.
2. Check the operation of the brake light after adjusting the rear brake.
Brake light switch adjustment
The brake light switch is operated by movement of the brake pedal. To adjust, hold the main body of the switch so it does not rotate and turn the adjusting nut. Proper adjustment is achieved when the brake light comes on just before the brake begins to take effect.

Checking the front brake pads and rear brake shoes
A wear indicator is provided on each brake. This indicator allows checking of brake pad/shoe wear without disassembling the brake.

FRONT
Apply the brake and inspect the wear indicator. If the brake pads are worn to the wear limit, have a Yamaha dealer replace the pads.
REAR
Apply the brake and inspect the wear indicator.
If the indicator reaches the wear limit line, ask a Yamaha dealer to replace the shoes.

Observe these precautions:
1. When checking the fluid level, make sure the top of the master cylinder is level by turning the handlebars.
2. 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, #3 can be used.

3. Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor brake performance.
4. 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.

1. Wear indicator 2. Wear limit

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 lower level and replenish when necessary.
5. Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fluid immediately.
6. Have a Yamaha dealer check the cause if the brake fluid level goes down.

**Brake fluid replacement**

1. Complete fluid replacement should be done only by trained Yamaha service personnel.
2. Have a Yamaha dealer replace the following components during periodic maintenance or when they are damaged or leaking.
   a. Replace all rubber seals every two years.
   b. Replace all hoses every four years.

**Clutch adjustment**

The clutch lever free play should be adjusted to 3 ~ 5 mm at the clutch lever. If the free play is incorrect, adjust as follows.

Free play: 3 ~ 5 mm
1. Loosen the lock nut at the handlebar.
2. Turn the adjuster in or out until proper lever free play is obtained.
3. Tighten the lock nut.
4. If the free play is still incorrect, make an adjustment at the crankcase side.

**NOTE:**
If proper adjustment cannot be obtained or the clutch does not work correctly, ask a Yamaha dealer to inspect the internal clutch mechanism.
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 motorcycle 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. Loosen the rear brake adjuster.
2. Remove the cotter pin from the axle nut.
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 the lock nuts and the axle nut.

Axle nut torque:
104 Nm (10.4 m·kg)

6. Insert a new cotter pin into the axle nut and bend the end of the cotter pin as shown in the illustration. If the notch in the nut and the cotter pin hole do not match, tighten the nut slightly to align them.
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 washes, and solvents can damage 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.

1. Cotter pin

**WARNING**

Always use a new cotter pin on the axle nut.

7. Adjust the free play in the brake pedal.

**WARNING**

Check the operation of the brake light after adjusting the rear brake.
Cable inspection and lubrication

**WARNING**

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

Lubricate the inner cable and the cable end. If it does not operate smoothly, ask a Yamaha dealer to replace them.

Recommended lubricant:
SAE 10W30 motor oil

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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.

Brake and shift pedals

Lubricate the pivoting parts.

Recommended lubricant:
SAE 10W30 motor oil

Brake and clutch levers

Lubricate the pivoting parts.

Recommended lubricant:
SAE 10W30 motor oil
**Sidestand**
Lubricate the pivoting parts. Check to see that the sidestand moves up and down smoothly.

**Recommended lubricant:**
SAE 10W30 motor oil

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

**Front fork inspection**

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

1. Visual check
   Check for scratches/damage on the inner tube and excessive oil leakage from the front fork.

2. Operation check
   Place the motorcycle on a level place.
   a. Hold the motorcycle in an upright position and apply the front brake.
   b. Stroke the front forks up and down several times.

**CAUTION:**
If any damage or unsmooth movement is found with the front fork, consult a Yamaha dealer.
**Rear shock absorber adjustment**

This shock absorber is equipped with a spring preload adjuster. Adjust spring preload as follows.

1. Turn adjuster in direction ② to increase spring preload and in direction ① to decrease spring preload.

2. Stiffer

1. Softer

**WARNING**

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

**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.
WARNING

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

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. The wheel bearings should be inspected according to the Maintenance Schedule.

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

CAUTION:

When inspecting the battery, be sure the breather pipe is routed correctly. If the breather pipe 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.
**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 CHILDREN.

---

**Replenishing the battery fluid**

A poorly maintained battery will corrode and discharge quickly. The battery fluid should be checked at least once a month.

1. The level should be between the upper and lower level marks. Use only distilled water if refilling is necessary.
CAUTION

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

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.

2. When the motorcycle will not be used for a month or longer, remove the battery and store it in a cool, dark place. Completely recharge the battery before reusing.

3. If the battery will be stored for a longer period than the above, check the specific gravity of the fluid at least once a month and recharge the battery when it is too low.

4. Always make sure the connections are correct when putting the battery back in the motorcycle. Make sure the breather pipe is properly connected and is not damaged or obstructed.

Fuse replacement

1. The fuse box(es) are located under the seat.

1. Fuse (Main)  2. Fuse (Signal)
2. If any fuse is blown, turn off the ignition switch and the switch of the circuit in question. Install a new fuse of proper amperage. Turn on the switches and see if the electrical device operates. If the fuse immediately blows again, consult a Yamaha dealer.

**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.

<table>
<thead>
<tr>
<th>Specified fuse:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Main:</td>
<td>20A</td>
</tr>
<tr>
<td>Signal:</td>
<td>10A</td>
</tr>
</tbody>
</table>

**Headlight bulb replacement**

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

1. Remove the screws holding the light unit assembly.
2. Disconnect the headlight lead(s), remove the light unit assembly and then the cover.

3. Turn the bulb holder counterclockwise to remove it and remove the defective bulb.

1. Cover

1. Bulb holder

EUI66001

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.
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 illuminous flux will be adversely affected. If oil gets on the bulb, thoroughly clean it with a cloth moistened with alcohol or lacquer thinner.

5. Install the cover.
6. Connect headlight lead(s).
7. Install the light unit assembly.

If the headlight beam adjustment is necessary, ask a Yamaha dealer to make adjustment.

Front wheel removal

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

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

1. Remove the speedometer cable from the front wheel side.

1. Speedometer cable
2. Loosen the pinch bolt and wheel axle.

Front wheel installation
When installing the front wheel, reverse the removal procedure. Pay attention to the following points:
1. Make sure the wheel hub and the speedometer gear unit are installed with the projections meshed into the slots.

NOTE: Do not depress the brake lever when the disc is off the caliper as the brake pads will be forced shut.
2. Make sure there is enough gap between the brake pads before inserting the brake disc.
3. Make sure the slot in the speedometer gear unit fits over the stopper on the front fork outer tube.

4. Make sure the wheel axle is properly torqued.

   **Tightening torque:**
   - Wheel axle: 59 Nm (5.9 m·kg)

5. Before tightening the pinch bolt, stroke the front fork several times to check for proper fork operation.
6. Tighten the pinch bolt.

   **Pinch bolt torque:**
   - 20 Nm (2.0 m·kg)

---

**WARNING**

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

---

**WARNING**

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

1. Elevate the rear wheel by placing a suitable stand under the engine.
2. Remove the cotter pin, nut and tension bar bolt from the brake shoe plate.

3. Remove the brake adjuster and brake rod from the brake cam lever.

4. Loosen the lock nuts and chain adjusters on each side.

5. Remove the axle nut cotter pin and the axle nut.

6. The rear wheel assembly, the collar, the chain puller(s), etc., can be removed from the motorcycle by pulling out the wheel axle.

**NOTE:**
You do not have to disassemble the chain in order to remove or install the rear wheel.
Rear wheel installation
When installing the rear wheel, reverse the removal procedure. Pay attention to the following points:

1. Adjust the drive chain.
2. Make sure the following parts are properly torqued, and a new cotter pin is installed.

<table>
<thead>
<tr>
<th>Tightening torque:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Axle nut:</td>
</tr>
<tr>
<td>104 Nm (10.4 m·kg)</td>
</tr>
<tr>
<td>Tension bar bolt:</td>
</tr>
<tr>
<td>23 Nm (2.3 m·kg)</td>
</tr>
</tbody>
</table>

WARNING
Always use a new cotter pin.

3. Adjust the rear brake. (See page 8-16)
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 troubleshooting 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 know-how 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.
WARNING
Never check the fuel system while smoking or in the vicinity of an open flame.

1. Fuel
   - Check if there is fuel in the fuel tank
     - There is fuel: Ask Yamaha dealer to inspect
     - Some fuel: Turn the fuel cock to "RES" and restart engine
     - No fuel: Supply fuel

2. Compression
   - Use electric starter
     - There is compression: Compression normal
     - No compression: Ask Yamaha dealer to inspect

3. Ignition
   - Remove spark plug(s) and check electrode
     - Wet: Wipe clean with dry cloth
     - Dry: Attach plug cap and ground to chassis
     - Use electric starter
     - Spark good: Ignition system normal
     - Spark weak: Adjust plug gap or replace plug

4. Battery
   - Use electric starter
     - Engine turns over quickly: Battery good
     - Engine turns over slowly: Check fluid, recharge, check connections
     - No spark: Ask Yamaha dealer to inspect
A. CLEANING

Frequent, thorough cleaning of your motorcycle will not only enhance its appearance but will improve its general performance and extend the useful life of many components.

1. Before cleaning the motorcycle:
   a. Block off the end of the exhaust pipe to prevent water entry; a plastic bag and strong rubber band may be used.
   b. Make sure the spark plug(s) and all filler caps are properly installed.

2. If the engine case is excessively greasy, apply degreaser with a paint brush. Do not apply degreaser to the chain, sprockets, or wheel axles.

3. Rinse the dirt and degreaser off with a garden hose. Use only enough pressure to do the job.

4. Once the majority of the dirt has been hosed off, wash all surfaces with warm water and mild, detergent-type soap. An old toothbrush or bottle brush is handy for hard-to-get-at places.

5. Rinse the motorcycle off immediately with clean water and dry all surfaces with a chamois, clean towel, or soft absorbent cloth.

6. Dry the chain and lubricate it to prevent rust.

Excessive hose pressure may cause water seepage and deterioration of wheel bearings, front fork, brakes, transmission seals and electrical parts.

Many expensive repair bills have resulted from improper high pressure detergent applications such as those available in coin-operated car washers.
7. Clean the seat with a vinyl upholstery cleaner to keep the cover pliable and glossy.

8. Automotive-type wax may be applied to all painted and chrome-plated surfaces. Avoid combination cleaners. Many contain abrasives which may mar the paint or protective finish. When finished, start the engine and let it idle for several minutes.

2. Remove the empty fuel tank, pour a cup of SAE 10W30 or 20W40 motor oil in the tank, shake the tank to coat the inner surfaces thoroughly and drain off the excess oil. Reinstall the tank.

3. Remove the spark plug, pour about one tablespoon of SAE 10W30 or 20W40 motor oil in the spark plug hole and reinstall the spark plug. Turn the engine over several times (ground spark plug lead wires) to coat the cylinder walls with oil.

### B. STORAGE

Long term storage (60 days or more) of your motorcycle will require some preventive procedures to guard against deterioration. After thoroughly cleaning the motorcycle, prepare for storage as follows:

1. Drain the fuel tank, fuel lines, and carburetor float bowl(s).

4. Remove the drive chain. Thoroughly clean the chain with kerosene and lubricate it. Reinstall the chain or store it in a plastic bag (tied to frame for safekeeping).

⚠️ **WARNING**

When using the starter motor to crank the engine, remove the spark plug wires, and ground them to prevent sparking.
5. Lubricate all control cables.
6. Block up the frame to raise both wheels off the ground.
7. Tie a plastic bag over the exhaust pipe outlet to prevent moisture from entering.
8. If storing in a humid or salt-air atmosphere, coat all exposed metal surfaces with a light film of oil. Do not apply oil to any rubber parts or the seat cover.
9. Remove the battery and charge it. Store it in a dry place and recharge it once a month. Do not store the battery in an excessively warm or cold place (less than 0°C or more than 30°C).

NOTE: Make any necessary repairs before storing the motorcycle.
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>XV250G/XV250SG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions:</td>
<td></td>
</tr>
<tr>
<td>Overall length</td>
<td>2,190 mm</td>
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<tr>
<td>Overall width</td>
<td></td>
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<tr>
<td>XV250G: 725 mm</td>
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<tr>
<td>XV250SG: 815 mm</td>
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</tr>
<tr>
<td>Overall height</td>
<td></td>
</tr>
<tr>
<td>XV250G: 1,045 mm</td>
<td></td>
</tr>
<tr>
<td>XV250SG: 1,140 mm</td>
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<tr>
<td>Seat height</td>
<td>685 mm</td>
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<tr>
<td>Wheelbase</td>
<td>1,490 mm</td>
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<tr>
<td>Minimum ground clearance</td>
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<td>Minimum turning radius</td>
<td>2,800 mm</td>
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<td>Basic weight:</td>
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<tr>
<td>With oil and full fuel tank</td>
<td>147 kg</td>
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<tr>
<td>Engine:</td>
<td>X5V250G/X5V250SG</td>
</tr>
<tr>
<td>----------------</td>
<td>------------------</td>
</tr>
<tr>
<td>Engine type</td>
<td>Air-cooled 4-stroke, SOHC</td>
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<tr>
<td>Model</td>
<td>X5V250G: 3LV7</td>
</tr>
<tr>
<td></td>
<td>X5V250SG: 3LV8</td>
</tr>
<tr>
<td>Cylinder arrangement</td>
<td>V type 2-cylinder</td>
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<tr>
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<td>248 cm³</td>
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<tr>
<td>Bore x stroke</td>
<td>49 x 66 mm</td>
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<td>Compression ratio</td>
<td>10:1</td>
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<tr>
<td>Starting system</td>
<td>Electric starter</td>
</tr>
<tr>
<td>Lubrication system</td>
<td>Wet sump</td>
</tr>
</tbody>
</table>

**Oil type or grade:**
- **Engine oil**
  - SAE0W40 type SE motor oil
  - SAE10W30 type SE motor oil

**Oil capacity:**
- **Engine oil**
  - Periodic oil change: 1.4 L
  - With oil filter replacement: 1.6 L
  - Total amount: 1.8 L

**Air filter:** Wet type element
<table>
<thead>
<tr>
<th>Model</th>
<th>XV250G/XV250SG</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fuel:</strong></td>
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<tr>
<td>Type</td>
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<td>Type</td>
<td>Unleaded fuel only: For Australia</td>
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<td>Fuel tank capacity</td>
<td>9.5 L</td>
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<tr>
<td>Fuel reserve amount</td>
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<tr>
<td><strong>Carburetor:</strong></td>
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</tr>
<tr>
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<tr>
<td>Manufacturer</td>
<td>MIKUNI</td>
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<tr>
<td><strong>Spark plug:</strong></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>C6HSA/U20FS-U</td>
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<tr>
<td>Manufacturer</td>
<td>NGK/NIPPONDENSO</td>
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<tr>
<td>Spark plug gap</td>
<td>0.6 ~ 0.7 mm</td>
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<tr>
<td><strong>Clutch:</strong></td>
<td></td>
</tr>
<tr>
<td>Clutch type</td>
<td>Wet, multiple-disc</td>
</tr>
<tr>
<td>Model</td>
<td>XV250G/XV250SG</td>
</tr>
<tr>
<td>------------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td><strong>Transmission:</strong></td>
<td></td>
</tr>
<tr>
<td>Primary reduction system</td>
<td>Spur gear</td>
</tr>
<tr>
<td>Primary reduction ratio</td>
<td>72/23 (3.130)</td>
</tr>
<tr>
<td>Secondary reduction system</td>
<td>Chain drive</td>
</tr>
<tr>
<td>Secondary reduction ratio</td>
<td>45/16 (2.813)</td>
</tr>
<tr>
<td>Transmission type</td>
<td>Constant mesh 5-speed</td>
</tr>
<tr>
<td>Operation</td>
<td>Left foot operation</td>
</tr>
<tr>
<td><strong>Gear ratio:</strong></td>
<td></td>
</tr>
<tr>
<td>1st</td>
<td>37/14 (2.643)</td>
</tr>
<tr>
<td>2nd</td>
<td>32/19 (1.684)</td>
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<tr>
<td>3rd</td>
<td>29/23 (1.261)</td>
</tr>
<tr>
<td>4th</td>
<td>26/26 (1.000)</td>
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<tr>
<td>5th</td>
<td>23/28 (0.821)</td>
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<tr>
<td><strong>Chassis:</strong></td>
<td></td>
</tr>
<tr>
<td>Frame type</td>
<td>Double cradle</td>
</tr>
<tr>
<td>Caster angle</td>
<td>32°</td>
</tr>
<tr>
<td>Trail</td>
<td>120 mm</td>
</tr>
<tr>
<td><strong>Tire:</strong></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>With tube</td>
</tr>
<tr>
<td>Size (front)</td>
<td>3.00-18 47P</td>
</tr>
<tr>
<td>Size (rear)</td>
<td>130/90-15 M/C 66P</td>
</tr>
<tr>
<td>Model</td>
<td>XV250G/XV250SG</td>
</tr>
<tr>
<td>---------------</td>
<td>---------------------------------------------------</td>
</tr>
<tr>
<td>Brake:</td>
<td></td>
</tr>
<tr>
<td>Front brake</td>
<td>type Single disc brake</td>
</tr>
<tr>
<td></td>
<td>operation Right hand operation</td>
</tr>
<tr>
<td>Rear brake</td>
<td>type Drum brake</td>
</tr>
<tr>
<td></td>
<td>operation Right foot operation</td>
</tr>
<tr>
<td>Suspension:</td>
<td></td>
</tr>
<tr>
<td>Front suspension</td>
<td>Telescopic fork</td>
</tr>
<tr>
<td>Rear suspension</td>
<td>Swingarm</td>
</tr>
<tr>
<td>Shock absorber:</td>
<td></td>
</tr>
<tr>
<td>Front shock absorber</td>
<td>Coil spring / Oil damper</td>
</tr>
<tr>
<td>Rear shock absorber</td>
<td>Coil spring / Oil damper</td>
</tr>
<tr>
<td>Wheel travel:</td>
<td></td>
</tr>
<tr>
<td>Front wheel travel</td>
<td>140 mm</td>
</tr>
<tr>
<td>Rear wheel travel</td>
<td>100 mm</td>
</tr>
<tr>
<td>Electrical:</td>
<td></td>
</tr>
<tr>
<td>Ignition system</td>
<td>T.C.I. (Digital)</td>
</tr>
<tr>
<td>Generator system</td>
<td>A.C. magneto generator</td>
</tr>
<tr>
<td>Battery type</td>
<td>GM10-3A-2</td>
</tr>
<tr>
<td>Battery capacity</td>
<td>12 V 10 AH</td>
</tr>
<tr>
<td>Headlight type:</td>
<td>Quartz bulb (Halogen)</td>
</tr>
<tr>
<td>Bulb wattage × quantity:</td>
<td>XV250G/XV250SG</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>Headlight</td>
<td>12 V 60 W / 55 W × 1</td>
</tr>
<tr>
<td>Tail / brake light</td>
<td>12 V 5 W / 21 W × 1</td>
</tr>
<tr>
<td>Flasher light</td>
<td>12 V 21 W × 4</td>
</tr>
<tr>
<td>Meter light</td>
<td>12 V 3 W × 1</td>
</tr>
<tr>
<td>Neutral indicator light</td>
<td>12 V 3 W × 1</td>
</tr>
<tr>
<td>High beam indicator light</td>
<td>12 V 1.7 W × 1</td>
</tr>
<tr>
<td>Turn indicator light</td>
<td>12 V 3 W × 1</td>
</tr>
</tbody>
</table>
HOW TO USE THE CONVERSION TABLE

All specification data in this manual is listed in SI and METRIC UNITS. Use this table to convert METRIC unit data to IMP unit data.

Ex.

<table>
<thead>
<tr>
<th>METRIC</th>
<th>MULTIPLIER</th>
<th>IMP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>mm</strong></td>
<td>0.03937</td>
<td><strong>in</strong></td>
</tr>
<tr>
<td>2 mm</td>
<td>0.03937</td>
<td>0.08 in</td>
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<table>
<thead>
<tr>
<th>CONVERSION TABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>METRIC TO IMP</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>METRIC</th>
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<th>Multiplier</th>
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<tbody>
<tr>
<td>Torque</td>
<td>m·kg</td>
<td>7.233</td>
<td>ft·lb</td>
</tr>
<tr>
<td></td>
<td>m·kg</td>
<td>86.794</td>
<td>in·lb</td>
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<tr>
<td></td>
<td>cm·kg</td>
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<td>ft·lb</td>
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<td>cm·kg</td>
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<td>in·lb</td>
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<td>lb</td>
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<tr>
<td></td>
<td>g</td>
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</tr>
<tr>
<td>Distance</td>
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<td>0.6214</td>
<td>mph</td>
</tr>
<tr>
<td></td>
<td>km</td>
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<td>mi</td>
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<tr>
<td></td>
<td>m</td>
<td>3.281</td>
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<tr>
<td></td>
<td>m</td>
<td>1.094</td>
<td>yd</td>
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<td></td>
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<td>in</td>
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<td></td>
<td>mm</td>
<td>0.03937</td>
<td>in</td>
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<tr>
<td>Volume/</td>
<td>cc(cm³)</td>
<td>0.03527</td>
<td>oz (IMP liq.)</td>
</tr>
<tr>
<td>Capacity</td>
<td>cc(cm³)</td>
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<td>cu-in</td>
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<tr>
<td></td>
<td>lit (liter)</td>
<td>0.8799</td>
<td>qt (IMP liq.)</td>
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<tr>
<td></td>
<td>lit (liter)</td>
<td>0.2199</td>
<td>gal (IMP liq.)</td>
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<tr>
<td>Miscellaneous</td>
<td>kg/mm</td>
<td>55.997</td>
<td>lb/in</td>
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<tr>
<td></td>
<td>kg/cm²</td>
<td>14.2234</td>
<td>psi (lb/in²)</td>
</tr>
<tr>
<td></td>
<td>Centigrade</td>
<td>9/5(°C)+32</td>
<td>Fahrenheit (°F)</td>
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</tbody>
</table>
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.