Congratulations on your purchase of the Yamaha XVS250. This model is the result of Yamaha's vast experience in the production of fine sporting, touring, and pacesetting racing machines. It represents the high degree of craftsmanship and reliability that have made Yamaha a leader in these fields.

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

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.
- Yamaha continually seeks advancements in product design and quality. Therefore, while this manual contains the most current product information available at the time of printing, there may be minor discrepancies between your motorcycle and this manual. If you have any questions concerning this manual, please consult your Yamaha dealer.
IMPORTANT MANUAL INFORMATION

⚠️ WARNING

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

MOTORCYCLES ARE SINGLE TRACK VEHICLES. THEIR SAFE USE AND OPERATION ARE DEPENDENT UPON THE USE OF PROPER RIDING TECHNIQUES AS WELL AS THE EXPERTISE OF THE OPERATOR. EVERY OPERATOR SHOULD KNOW THE FOLLOWING REQUIREMENTS BEFORE RIDING THIS MOTORCYCLE.
HE OR SHE SHOULD:
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 approaching and passing through intersections, since intersections are the most likely places for motorcycle accidents to occur.
   c. Ride where other motorists can see you. Avoid riding in another motorist’s blind spot.
SAFETY INFORMATION

4. Many motorcycle 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 that you are qualified and that you only lend your motorcycle to other qualified 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 the motorcycle and all of its controls.

5. Many motorcycle accidents have been caused by error of the motorcycle operator. A typical error made by the operator is veering wide on a turn due to EXCESSIVE SPEED or undercornering (insufficient lean angle for the speed).
   a. Always obey the speed limit and never travel faster than warranted by road and traffic conditions.
   b. Always signal before turning or changing lanes. Make sure that other motorists can see you.

6. The posture of the operator and passenger is important for proper control.
   a. The operator should keep both hands on the handlebar and both feet on the operator footrests during operation to maintain control of the motorcycle.
   b. The passenger should always hold onto the operator, seat strap, or grab bar, if 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 other drugs.

8. This motorcycle is designed for on-road use only, therefore, it is not suitable for off-road use.
SAFETY INFORMATION

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 in your unprotected eyes could contribute to an impairment of vision which could delay seeing a hazard.
3. The use of a jacket, heavy boots, trousers, gloves, etc., is effective in preventing or reducing abrasions or lacerations.
4. Never wear loose-fitting clothes, otherwise they could catch on the control levers, footrests, or wheels and cause injury or an 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. Passengers should also observe the precautions mentioned above.

Modifications
Modifications made to this motorcycle not approved by Yamaha, or the removal of original equipment, may render the 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 motorcycle is changed. To avoid the possibility of an accident, use extreme caution when adding cargo or accessories to your motorcycle. Use extra care when riding a motorcycle that has added cargo or accessories. Here are some general guidelines to follow if loading cargo or adding accessories to your motorcycle:
SAFETY INFORMATION

Loading

The total weight of the operator, passenger, accessories and cargo must not exceed the maximum load limit of 180 kg. When loading within this weight limit, keep the following in mind:

1. Cargo and accessory weight should be kept as low and close to the motorcycle as possible. Make sure to distribute the weight as evenly as possible on both sides of the motorcycle 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. Check accessory mounts and cargo restraints frequently.

3. Never attach any large or heavy items to the handlebar, front fork, or front fender. These items, including such cargo as sleeping bags, duffel bags, or tents, can create unstable handling or slow steering response.

Accessories

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

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

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 that it does not in any way reduce ground clearance or cornering clearance, limit suspension travel, steering travel or control operation, or obscure lights or reflectors.
SAFETY INFORMATION

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 passing or being passed by large vehicles.

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. Use caution when adding electrical accessories. If electrical accessories exceed the capacity of the motorcycle’s electrical system, an electric failure could result, which could cause a dangerous loss of lights or engine power.

Gasoline and exhaust gas

1. GASOLINE IS HIGHLY FLAMMABLE:
   a. Always turn the engine off when refueling.
   b. Take care not to spill any gasoline on the engine or exhaust system 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.
SAFETY INFORMATION

3. Always turn the engine off before leaving the motorcycle unattended and remove the key from the main switch. When parking the motorcycle, note the following:
   a. The engine and exhaust system may be hot, therefore, 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, otherwise it may fall over.
   c. Do not park the motorcycle near a flammable source (e.g. a kerosene heater, or near an open flame), otherwise it could catch fire.

4. When transporting the motorcycle in another vehicle, make sure that 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 into your eyes, see your doctor immediately. If any gasoline spills on your skin or clothing, immediately wash the affected area with soap and water and change your clothes.
Location of important labels
Please read the following important label carefully before operating this motorcycle.
DESCRIPTION

Left view

1. Headlight (page 6-33)
2. Fuel cock (page 3-7)
3. Fuses (page 6-32)
4. Helmet holder (page 3-8)
5. Shock absorber assembly spring preload adjusting ring (page 3-9)
6. Shift pedal (page 3-4)
Right view

7. Owner’s tool kit (page 6-1)
8. Battery (page 6-30)
9. Air filter element (page 6-12)
10. Main switch/steering lock (page 3-1)
11. Brake pedal (page 3-5)
12. Oil filter element (page 6-10)
13. Shock absorber assembly spring preload adjusting ring (page 3-9)
DESCRIPTION

Controls and instruments

1. Clutch lever (page 3-4)
2. Left handlebar switches (page 3-3)
3. Speedometer unit (page 3-2)
4. Right handlebar switches (page 3-4)
5. Brake lever (page 3-5)
6. Throttle grip (page 6-15)
7. Fuel tank cap (page 3-6)
Main switch/steering lock

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

**ON**
All electrical systems are supplied with power, and the headlight, meter lighting and taillight come on, and the engine can be started. The key cannot be removed.

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

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

To lock the steering
1. Turn the handlebars all the way to the left.
2. Push the key in from the “OFF” position, and then turn it to “LOCK” while still pushing it.
3. Remove the key.

To unlock the steering
Push the key in, and then turn it to “OFF” while still pushing it.

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

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**INSTRUMENT AND CONTROL FUNCTIONS**

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<tr>
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<th>Unlock</th>
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<tbody>
<tr>
<td>OFF (push)</td>
<td>OFF</td>
</tr>
<tr>
<td>LOCK</td>
<td>LOCK (push)</td>
</tr>
</tbody>
</table>

1. Push.
2. Turn.
**INSTRUMENT AND CONTROL FUNCTIONS**

**Neutral indicator light “N”**
This indicator light comes on when the transmission is in the neutral position.

**Engine trouble warning light “ ”**
This warning light comes on or flashes when an electrical circuit monitoring the engine is defective. When this occurs, have the Yamaha dealer check the self-diagnosis system.

**NOTE:**
This warning light comes on for a few seconds, and then flashes when the key is turned to “ON”, but this does not indicate a malfunction.

**Indicator and warning lights**

1. High beam indicator light “ ”
2. Turn signal indicator light “ ”
3. Neutral indicator light “N”
4. Engine trouble warning light “ ”

**Speedometer unit**
The speedometer unit is equipped with a speedometer, an odometer and a tripmeter. The speedometer shows riding speed. The odometer shows the total distance traveled. The tripmeter shows the distance traveled since it was last set to zero with the reset knob. The tripmeter can be used to estimate the distance that can be traveled with a full tank of fuel. This information will enable you to plan future fuel stops.
Self-diagnosis device
This model is equipped with a self-diagnosis device for various electrical circuits. If any of those circuits are defective, the engine trouble warning light will come on or flash. If this occurs, have a Yamaha dealer check the motorcycle.

CAUTION:
To prevent engine damage, be sure to consult a Yamaha dealer as soon as possible if this occurs.

Handlebar switches

Pass switch “ ”
Press this switch to flash the headlight.

Dimmer switch
Set this switch to “ ” for the high beam and to “ ” for the low beam.

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

Horn switch “ ”
Press this switch to sound the horn.
INSTRUMENT AND CONTROL FUNCTIONS

1. Engine stop switch
2. Start switch " ( ) "

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

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

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

---

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

The clutch lever is equipped with a clutch switch, which is part of the ignition circuit cut-off system. (See page 3-10 for an explanation of the ignition circuit cut-off system.)

---

**Shift pedal**
The shift pedal is located on the left side of the engine and is used in combination with the clutch lever when shifting the gears of the 5-speed constant-mesh transmission equipped on this motorcycle.
**Brake lever**
The brake lever is located at the right handlebar grip. To apply the front brake, pull the lever toward the handlebar grip.

**Brake pedal**
The brake pedal is on the right side of the motorcycle. To apply the rear brake, press down on the brake pedal.
INSTRUMENT AND CONTROL FUNCTIONS

Fuel tank cap

To remove the fuel tank cap
Insert the key into the lock and turn it 1/4 turn clockwise. The lock will be released and the fuel tank cap can be removed.

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

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

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

Fuel

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

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

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

Fuel cock
This motorcycle is equipped with a negative pressure fuel cock. The fuel cock supplies fuel from the tank to the carburetors while also filtering it. The fuel cock lever positions are explained as follows and shown in the illustrations.

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

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

Recommended fuel:
Regular gasoline
For Australia:
Unleaded fuel only
Fuel tank capacity:
Total amount: 11 L
Reserve amount: 3.4 L
**INSTRUMENT AND CONTROL FUNCTIONS**

**PRI: priming position**

1. Arrow mark positioned over “PRI”

**PRI**

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

**Starter (choke) lever “/\”**

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

1. Starter (choke) lever “/\”

**Helmet holder**

To open the helmet holder, insert the key into the lock, and then turn the key as shown.

To lock the helmet holder, place it in the original position, and then remove the key.

**WARNING**

Never ride with a helmet attached to the helmet holder, since the helmet may hit objects, causing loss of control and possibly an accident.
Adjusting the shock absorber assemblies
Each shock absorber assembly is equipped with a spring preload adjusting ring.

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

**WARNING**
Always adjust both shock absorber assemblies equally, otherwise poor handling and loss of stability may result.

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

Adjust the spring preload as follows. To increase the spring preload and thereby harden the suspension, turn the adjusting ring on each shock absorber assembly in direction a. To decrease the spring preload and thereby soften the suspension, turn the adjusting ring on each shock absorber assembly in direction b.

**Setting**

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</table>

1. Spring preload adjusting ring
2. Position indicator
**INSTRUMENT AND CONTROL FUNCTIONS**

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

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

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

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

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

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

**WARNING**
If a malfunction is noted, have a Yamaha dealer check the system before riding.
With the engine turned off:
1. Move the sidestand down.
2. Make sure that the engine stop switch is set to “○”.
3. Turn the key to “ON”.
4. Shift the transmission into the neutral position.
5. Push the start switch.
Does the engine start?

YES NO

With the engine still running:
6. Move the sidestand up.
7. Keep the clutch lever pulled.
8. Shift the transmission into gear.
9. Move the sidestand down.
Does the engine stall?

YES NO

After the engine has stalled:
10. Move the sidestand up.
11. Keep the clutch lever pulled.
12. Push the start switch.
Does the engine start?

YES NO

The system is OK. The motorcycle can be ridden.

NOTE:
This check is most reliable if performed with a warmed-up engine.

The neutral switch may be defective. The motorcycle should not be ridden until checked by a Yamaha dealer.

The sidestand switch may be defective. The motorcycle should not be ridden until checked by a Yamaha dealer.

The clutch switch may be defective. The motorcycle should not be ridden until checked by a Yamaha dealer.
The condition of a vehicle is the owner’s responsibility. Vital components can start to deteriorate quickly and unexpectedly, even if the vehicle remains unused (for example, as a result of exposure to the elements). Any damage, fluid leakage or loss of tire air pressure could have serious consequences. Therefore, it is very important, in addition to a thorough visual inspection, to check the following points before each ride.

### Pre-operation check list

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<td>• Refuel if necessary.</td>
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<td></td>
<td>• Check fuel line for leakage.</td>
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<tr>
<td>Engine oil</td>
<td>• Check oil level in engine.</td>
<td>6-10</td>
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<tr>
<td></td>
<td>• If necessary, add recommended oil to specified level.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Check vehicle for oil leakage.</td>
<td></td>
</tr>
<tr>
<td>Front brake</td>
<td>• Check operation.</td>
<td>6-20, 6-22–6-24</td>
</tr>
<tr>
<td></td>
<td>• If soft or spongy, have Yamaha dealer bleed hydraulic system.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Check lever free play.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Adjust if necessary.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Check fluid level in reservoir.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• If necessary, add recommended brake fluid to specified level.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Check hydraulic system for leakage.</td>
<td></td>
</tr>
<tr>
<td>Rear brake</td>
<td>• Check operation.</td>
<td>6-20–6-24</td>
</tr>
<tr>
<td></td>
<td>• Check pedal free play.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Adjust if necessary.</td>
<td></td>
</tr>
<tr>
<td>Clutch</td>
<td>• Check operation.</td>
<td>6-19</td>
</tr>
<tr>
<td></td>
<td>• Lubricate cable if necessary.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Check lever free play.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Adjust if necessary.</td>
<td></td>
</tr>
<tr>
<td>Throttle grip</td>
<td>• Make sure that operation is smooth.</td>
<td>6-15</td>
</tr>
<tr>
<td></td>
<td>• Lubricate throttle grip, housing and cables if necessary.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Check free play.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• If necessary, have Yamaha dealer make adjustment.</td>
<td></td>
</tr>
</tbody>
</table>
## PRE-OPERATION CHECKS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>CHECKS</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control cables</td>
<td>• Make sure that operation is smooth.</td>
<td>6-27</td>
</tr>
<tr>
<td></td>
<td>• Lubricate if necessary.</td>
<td></td>
</tr>
<tr>
<td>Drive chain</td>
<td>• Check chain slack.</td>
<td>6-24–6-26</td>
</tr>
<tr>
<td></td>
<td>• Adjust if necessary.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Check chain condition.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Lubricate if necessary.</td>
<td></td>
</tr>
<tr>
<td>Wheels and tires</td>
<td>• Check for damage.</td>
<td>6-16–6-18</td>
</tr>
<tr>
<td></td>
<td>• Check tire condition and tread depth.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Check air pressure.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Correct if necessary.</td>
<td></td>
</tr>
<tr>
<td>Brake and shift pedals</td>
<td>• Make sure that operation is smooth.</td>
<td>6-27</td>
</tr>
<tr>
<td></td>
<td>• Lubricate pedal pivoting points if necessary.</td>
<td></td>
</tr>
<tr>
<td>Brake and clutch levers</td>
<td>• Make sure that operation is smooth.</td>
<td>6-28</td>
</tr>
<tr>
<td></td>
<td>• Lubricate lever pivoting points if necessary.</td>
<td></td>
</tr>
<tr>
<td>Sidestand</td>
<td>• Make sure that operation is smooth.</td>
<td>6-28</td>
</tr>
<tr>
<td></td>
<td>• Lubricate pivot if necessary.</td>
<td></td>
</tr>
<tr>
<td>Chassis fasteners</td>
<td>• Make sure that all nuts, bolts and screws are properly tightened.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Tighten if necessary.</td>
<td></td>
</tr>
<tr>
<td>Instruments, lights, signals</td>
<td>• Check operation.</td>
<td></td>
</tr>
<tr>
<td>and switches</td>
<td>• Correct if necessary.</td>
<td></td>
</tr>
<tr>
<td>Sidestand switch</td>
<td>• Check operation of ignition circuit cut-off system.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• If system is defective, have Yamaha dealer check vehicle.</td>
<td>3-10</td>
</tr>
</tbody>
</table>
PRE-OPERATION CHECKS

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

WARNING
If any item in the Pre-operation check list is not working properly, have it inspected and repaired before operating the motorcycle.
WARNING
- Become thoroughly familiar with all operating controls and their functions before riding. Consult a Yamaha dealer regarding any control or function that you do not thoroughly understand.
- Never start the engine or operate it in a closed area for any length of time. Exhaust fumes are poisonous, and inhaling them can cause loss of consciousness and death within a short time. Always make sure that there is adequate ventilation.
- Before starting out, make sure that the sidestand is up. If the sidestand is not raised completely, it could contact the ground and distract the operator, resulting in a possible loss of control.

OPERATION AND IMPORTANT RIDING POINTS

Starting and warming up a cold engine
In order for the ignition circuit cut-off system to enable starting, one of the following conditions must be met:
- The transmission is in the neutral position.
- The transmission is in gear with the clutch lever pulled and the sidestand up.

WARNING
- Before starting the engine, check the function of the ignition circuit cut-off system according to the procedure described on page 3-11.
- Never ride with the sidestand down.

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

1. Arrow mark positioned over “ON”

1. Turn the fuel cock lever to “ON”.
2. Turn the key to “ON” and make sure that the engine stop switch is set to “”.
3. Shift the transmission into the neutral position.

NOTE:
OPERATION AND IMPORTANT RIDING POINTS

4. Turn the starter (choke) on and completely close the throttle. (See page 3-8 for starter (choke) operation.)

5. Start the engine by pushing the start switch.

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

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

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

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

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

Starting a warm engine
Follow the same procedure as for starting a cold engine with the exception that the starter (choke) is not required when the engine is warm.
OPERATION AND IMPORTANT RIDING POINTS

Shifting
Shifting gears lets you control the amount of engine power available for starting off, accelerating, climbing hills, etc. The gear positions are shown in the illustration.

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

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

Tips for reducing fuel consumption
Fuel consumption depends largely on your riding style. Consider the following tips to reduce fuel consumption:
- Thoroughly warm up the engine.
- Turn the starter (choke) off as soon as possible.
- Shift up swiftly, and avoid high engine speeds during acceleration.
- Do not rev the engine while shifting down, and avoid high engine speeds with no load on the engine.
- Turn the engine off instead of letting it idle for an extended length of time (e.g., in traffic jams, at traffic lights or at railroad crossings).
**OPERATION AND IMPORTANT RIDING POINTS**

**Engine break-in**

There is never a more important period in the life of your engine than the period between 0 and 1,600 km. For this reason, you should read the following material carefully. Since the engine is brand new, do not put an excessive load on it for the first 1,600 km. The various parts in the engine wear and polish themselves to the correct operating clearances. During this period, prolonged full-throttle operation or any condition that might result in engine overheating must be avoided.

- **0–1,000 km**
  - Avoid prolonged operation above 1/3 throttle.

- **1,000–1,600 km**
  - Avoid prolonged operation above 1/2 throttle.

**CAUTION:**

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

- **1,600 km and beyond**
  - The vehicle can now be operated normally.

**CAUTION:**

If any engine trouble should occur during the engine break-in period, immediately have a Yamaha dealer check the vehicle.

**Parking**

When parking, stop the engine, remove the key from the main switch, and then turn the fuel cock lever to "OFF".

**WARNING**

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

Safety is an obligation of the owner. Periodic inspection, adjustment and lubrication will keep your vehicle in the safest and most efficient condition possible. The most important points of inspection, adjustment, and lubrication are explained on the following pages. The intervals given in the periodic maintenance and lubrication chart should be simply considered as a general guide under normal riding conditions. However, depending on the weather, terrain, geographical location, and individual use, the maintenance intervals may need to be shortened.

**WARNING**

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

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

**WARNING**

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

---

Owner’s tool kit

The owner’s tool kit is located behind panel A. (See page 6-5 for panel removal and installation procedures.) The service information included in this manual and the tools provided in the owner’s tool kit are intended to assist you in the performance of preventive maintenance and minor repairs. However, additional tools such as a torque wrench may be necessary to perform certain maintenance work correctly.
PERIODIC MAINTENANCE AND MINOR REPAIR

NOTE:
- The annual checks must be performed every year, except if a kilometer-based maintenance is performed instead.
- From 50,000 km, repeat the maintenance intervals starting from 10,000 km.
- Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills.

<table>
<thead>
<tr>
<th>NO.</th>
<th>ITEM</th>
<th>CHECK OR MAINTENANCE JOB</th>
<th>ODOMETER READING (× 1,000 km)</th>
<th>ANNUAL CHECK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fuel line</td>
<td>• Check fuel hoses and vacuum hose for cracks or damage.</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Check condition.</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>2</td>
<td>Fuel filter</td>
<td>• Check condition.</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>3</td>
<td>Spark plugs</td>
<td>• Check condition.</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Clean and regap.</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Replace.</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>4</td>
<td>Valves</td>
<td>• Check valve clearance.</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Adjust.</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>5</td>
<td>Air filter element</td>
<td>• Clean.</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Replace.</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>6</td>
<td>Clutch</td>
<td>• Check operation.</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Adjust.</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>7</td>
<td>Front brake</td>
<td>• Check operation, fluid level and vehicle for fluid leakage.</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(See NOTE on page 6-4.)</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Replace brake pads.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Rear brake</td>
<td>• Check operation and adjust brake pedal free play.</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Replace brake shoes.</td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>

(See NOTE on page 6-4.) Whenever worn to the limit
### PERIODIC MAINTENANCE AND MINOR REPAIR

<table>
<thead>
<tr>
<th>NO.</th>
<th>ITEM</th>
<th>CHECK OR MAINTENANCE JOB</th>
<th>ODOMETER READING (&gt;1,000 km)</th>
<th>ANNUAL CHECK</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Brake hose</td>
<td>• Check for cracks or damage.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Replace. (See NOTE on page 6-4.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Every 4 years</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Wheels</td>
<td>• Check runout, spoke tightness and for damage.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Tighten spokes if necessary.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Tires</td>
<td>• Check tread depth and for damage.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Replace if necessary.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Check air pressure.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Correct if necessary.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Wheel bearings</td>
<td>• Check bearing for looseness or damage.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Check operation and for excessive play.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Swingarm</td>
<td>• Lubricate with molybdenum disulfide grease.</td>
<td></td>
<td>Every 50,000 km</td>
</tr>
<tr>
<td>14</td>
<td>Drive chain</td>
<td>• Check chain slack.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Make sure that the rear wheel is properly aligned.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Clean and lubricate.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Every 1,000 km and after washing the motorcycle or riding in the rain.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Steering bearings</td>
<td>• Check bearing play and steering for roughness.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Lubricate with lithium-soap-based grease.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Every 20,000 km</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Chassis fasteners</td>
<td>• Make sure that all nuts, bolts and screws are properly tightened.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Sidestand</td>
<td>• Check operation.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Lubricate.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Sidestand switch</td>
<td>• Check operation.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Front fork</td>
<td>• Check operation and for oil leakage.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Rear shock absorber</td>
<td>• Check operation and shock absorbers for oil leakage.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td></td>
<td>assemblies</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Carburetor</td>
<td>• Check starter (choke) operation.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Adjust engine idling speed.</td>
<td>√</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Engine oil</td>
<td>• Change.</td>
<td>√</td>
<td></td>
</tr>
</tbody>
</table>
### PERIODIC MAINTENANCE AND MINOR REPAIR

<table>
<thead>
<tr>
<th>NO.</th>
<th>ITEM</th>
<th>CHECK OR MAINTENANCE JOB</th>
<th>ODOMETER READING (× 1,000 km)</th>
<th>ANNUAL CHECK</th>
</tr>
</thead>
<tbody>
<tr>
<td>23</td>
<td>Engine oil filter element</td>
<td>- Replace.</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>24</td>
<td>Front and rear brake switches</td>
<td>- Check operation.</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>25</td>
<td>Moving parts and cables</td>
<td>- Lubricate.</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>26</td>
<td>Air induction system</td>
<td>- Check the air cut valve and reed valve for damage.</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Replace the entire air induction system if necessary.</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>27</td>
<td>Lights, signals and switches</td>
<td>- Check operation.</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Adjust headlight beam.</td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>

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

---

**Removing and installing panels**

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

**Panel A**

To remove the panel:

1. Slide the lock cover open, insert the key into the lock, and then turn it 1/4 turn clockwise.

2. Unlock.
PERIODIC MAINTENANCE AND MINOR REPAIR

2. Pull the rear of the panel out with the key inserted in the lock, and then slide the panel forward to release it in the front.

To install the panel
1. Secure the front of the panel, and then push the rear of the panel in with the key inserted in the lock.
2. Turn the key counterclockwise to the original position, remove it, and then close the lock cover.

Panel B
To remove the panel
1. Remove the bolt.
PERIODIC MAINTENANCE AND MINOR REPAIR

2. Pull the rear of the panel out, and then slide the panel forward to release it in the front.

To install the panel:
1. Secure the front of the panel, and then push the rear of the panel in.
2. Install the bolt.
PERIODIC MAINTENANCE AND MINOR REPAIR

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

To remove a spark plug
1. Remove the spark plug cap.
2. Remove the spark plug wrench included in the owner's tool kit.

To check the spark plugs
1. Check that the porcelain insulator around the center electrode on each spark plug is a medium-to-light tan (the ideal color when the motorcycle is ridden normally).
2. Check that all spark plugs installed in the engine have the same color.

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

Specified spark plug:
CR6HSA (NGK) or U20FSR-U (DENSO)
To install a spark plug
1. Measure the spark plug gap with a wire thickness gauge and, if necessary, adjust the gap to specification.
2. Clean the surface of the spark plug gasket and its mating surface, and then wipe off any grime from the spark plug threads.
3. Install the spark plug with the spark plug wrench, and then tighten it to the specified torque.
4. Install the spark plug cap.

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

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

To check the engine oil level
1. Place the motorcycle on a level surface and hold it in an upright position.

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

2. Start the engine, warm it up for several minutes, and then turn it off.

To change the engine oil (with or without oil filter element replacement)
1. Start the engine, warm it up for several minutes, and then turn it off.
2. Place an oil pan under the engine to collect the used oil.

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

3. Wait a few minutes until the oil settles, and then check the oil level through the check window located at the bottom-right side of the crankcase.

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

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

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

NOTE:
Skip steps 4–6 if the oil filter element is not being replaced.

4. Remove the oil filter element cover by removing the bolts.

5. Remove and replace the oil filter element and O-ring.

6. Install the oil filter element cover by installing the bolts, then tightening them to the specified torque.

Tightening torque:
Oil filter element cover bolt:
10 Nm (1.0 m·kg)

NOTE:
Make sure that the O-ring is properly seated.
PERIODIC MAINTENANCE AND MINOR REPAIR

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

**CAUTION:**
- In order to prevent clutch slippage (since the engine oil also lubricates the clutch), do not mix any chemical additives with the oil or use oils of a higher grade than “CD”. In addition, do not use oils labeled “ENERGY CONSERVING II” or higher.
- Make sure that no foreign material enters the crankcase.

Tightening torque:
- Engine oil drain bolt: 34 Nm (3.4 m·kg)

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

**Recommended engine oil:**
- See page 8-1.

**Oil quantity:**
- With oil filter element replacement: 1.6 L
- Without oil filter element replacement: 1.4 L
- Total amount (dry engine): 1.75 L

9. Start the engine, and then let it idle for several minutes while checking it for oil leakage. If oil is leaking, immediately turn the engine off and check for the cause.

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

Cleaning the air filter element

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

1. Remove the air filter case by removing the bolts, loosening the clamp screw, then disconnecting the hose.
PERIODIC MAINTENANCE AND MINOR REPAIR

1. Air filter case cover
2. Screw (× 4)

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

1. Air filter element
2. Screw (× 3)

3. Remove the air filter element by removing the screws.

4. Lightly tap the air filter element to remove most of the dust and dirt, and then blow the remaining dirt out with compressed air as shown. If the air filter element is damaged, replace it.

5. Install the air filter element by inserting it into the air filter case, then installing the screws.
PERIODIC MAINTENANCE AND MINOR REPAIR

CAUTION:

- Make sure that the air filter element is properly seated in the air filter case.
- The engine should never be operated without the air filter element installed, otherwise the pistons and/or cylinders may become excessively worn.

6. Install the air filter case cover by installing the screws.

7. Connect the hose.
8. Install the air filter case by inserting the projection into the grommet, installing the bolts, then tightening the clamp screw.

Adjusting the carburetor

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

CAUTION:

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

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

NOTE:
A diagnostic tachometer is needed to make this adjustment.

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

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

3. Check the engine idling speed and, if necessary, adjust it to specification by turning the throttle stop screw. To increase the engine idling speed, turn the screw in direction a. To decrease the engine idling speed, turn the screw in direction b.

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

Adjusting the throttle cable free play

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

Engine idling speed:
1,200–1,400 r/min
Adjusting the valve clearance
The valve clearance changes with use, resulting in improper air-fuel mixture and/or engine noise. To prevent this from occurring, the valve clearance must be adjusted by a Yamaha dealer at the intervals specified in the periodic maintenance and lubrication chart.

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

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

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

### Tire air pressure (measured on cold tires)

<table>
<thead>
<tr>
<th>Load*</th>
<th>Front</th>
<th>Rear</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 90 kg</td>
<td>175 kPa (1.75 kgf/cm², 1.75 bar)</td>
<td>200 kPa (2.00 kgf/cm², 2.00 bar)</td>
</tr>
<tr>
<td>90 kg–maximum</td>
<td>225 kPa (2.25 kgf/cm², 2.25 bar)</td>
<td>225 kPa (2.25 kgf/cm², 2.25 bar)</td>
</tr>
</tbody>
</table>

* Total weight of rider, passenger, cargo and accessories
PERIODIC MAINTENANCE AND MINOR REPAIR

**WARNING**

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

**Tire inspection**

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 sidewall is cracked, contact a Yamaha dealer immediately and have the tire replaced.

**NOTE:**

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

<table>
<thead>
<tr>
<th>Minimum tire tread depth (front and rear)</th>
<th>1.0 mm</th>
</tr>
</thead>
</table>

**WARNING**

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

**WARNING**

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

**WARNING**

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

### FRONT

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Size</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHENG SHIN</td>
<td>80/100-18 47P</td>
<td>C-916</td>
</tr>
<tr>
<td>INOUE</td>
<td>80/100-18 47P</td>
<td>MARBELLA NF27</td>
</tr>
</tbody>
</table>

### REAR

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Size</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHENG SHIN</td>
<td>130/90-15 M/C 66P</td>
<td>C-915</td>
</tr>
<tr>
<td>INOUE</td>
<td>130/90-15 M/C 66P</td>
<td>MARBELLA NR31</td>
</tr>
</tbody>
</table>

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

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

Adjusting the clutch lever free play

The clutch lever free play should measure 5–10 mm as shown. Periodically check the clutch lever free play and, if necessary, adjust it as follows.

1. Loosen the locknut at the clutch lever.
2. To increase the clutch lever free play, turn the adjusting bolt in direction a. To decrease the clutch lever free play, turn the adjusting bolt in direction b.
3. If the specified clutch lever free play could be obtained as described above, tighten the locknut and skip the rest of the procedure, otherwise proceed as follows.

1. Loosen the locknut at the crankcase.
2. To increase the clutch lever free play, turn the adjusting nut in direction c. To decrease the clutch lever free play, turn the adjusting nut in direction d.
3. Tighten the locknut at the clutch lever and the crankcase.
PERIODIC MAINTENANCE AND MINOR REPAIR

Adjusting the brake lever free play

The brake lever free play should measure 5–8 mm as shown. Periodically check the brake lever free play and, if necessary, adjust it as follows:

1. Loosen the locknut at the brake lever.
2. To increase the brake lever free play, turn the adjusting bolt in direction \( \text{a} \). To decrease the brake lever free play, turn the adjusting bolt in direction \( \text{b} \).
3. Tighten the locknut.

WARNING

- After adjusting the brake lever free play, check the free play and make sure that the brake is working properly.
- A soft or spongy feeling in the brake lever can indicate the presence of air in the hydraulic system. If there is air in the hydraulic system, have a Yamaha dealer bleed the system before operating the motorcycle. Air in the hydraulic system will diminish the braking performance, which may result in loss of control and an accident.

Adjusting the brake pedal position and free play

It is advisable to have a Yamaha dealer make these adjustments.

Brake pedal position

The top of the brake pedal should be positioned approximately 76.6 mm above the top of the footrest as shown. Periodically check the brake pedal position and, if necessary, adjust it as follows.
PERIODIC MAINTENANCE AND MINOR REPAIR

1. Loosen the locknut at the brake pedal.
2. To raise the brake pedal, turn the adjusting bolt in direction a. To lower the brake pedal, turn the adjusting bolt in direction b.
3. Tighten the locknut.

WARNING
After adjusting the brake pedal position, the brake pedal free play must be adjusted.

Brake pedal free play
The brake pedal free play should measure 20–30 mm at the brake pedal end. Periodically check the brake pedal free play and, if necessary, adjust it as follows.
To increase the brake pedal free play, turn the adjusting nut at the brake rod in direction a. To decrease the brake pedal free play, turn the adjusting nut in direction b.

WARNING
- After adjusting the drive chain slack or removing and installing the rear wheel, always check the brake pedal free play.
- If proper adjustment cannot be obtained as described, have a Yamaha dealer make this adjustment.
- After adjusting the brake pedal free play, check the operation of the brake light.
Adjusting the rear brake light switch
The rear brake light switch, which is activated by the brake pedal, is properly adjusted when the brake light comes on just before braking takes effect. If necessary, adjust the brake light switch as follows.

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

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

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

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

Checking the brake fluid level
Insufficient brake fluid may allow air to enter the brake system, possibly causing it to become ineffective. Before riding, check that the brake fluid is above the minimum level mark and replenish if necessary. A low brake fluid level may indicate worn brake pads and/or brake system leakage. If the brake level is low, be sure to check the brake pads for wear and the brake system for leakage.

Observe these precautions:
- When checking the fluid level, make sure that the top of the brake fluid reservoir is level.
- Use only the recommended quality brake fluid, otherwise the rubber seals may deteriorate, causing leakage and poor braking performance.
- Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor braking performance.
- Be careful that water does not enter the brake fluid reservoir when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock.
PERIODIC MAINTENANCE AND MINOR REPAIR

- Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fluid immediately.
- As the brake pads wear, it is normal for the brake fluid level to gradually go down. However, if the brake fluid level goes down suddenly, have a Yamaha dealer check the cause.

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

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

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

To check the drive chain slack
1. Place the motorcycle on a level surface and hold it in an upright position.

NOTE:
When checking and adjusting the drive chain slack, the motorcycle should be positioned straight up and there should be no weight on it.
PERIODIC MAINTENANCE AND MINOR REPAIR

1. Shift the transmission into the neutral position.
2. Move the rear wheel by pushing the motorcycle to locate the tightest portion of the drive chain, and then measure the drive chain slack as shown.

3. To adjust the drive chain slack
   1. Loosen the brake pedal free play adjusting nut, axle nut, and locknut at each end of the swingarm.

   Drive chain slack:
   30–40 mm

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

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

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

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

Tightening torque:
- Axle nut: 104 Nm (10.4 m·kg)

4. Adjust the brake pedal free play. (See page 6-21 for brake pedal free play adjustment procedures.)

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

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

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

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

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

2. Wipe the drive chain dry.

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

**CAUTION:**
Do not use engine oil or any other lubricants for the drive chain, as they may contain substances that could damage the O-rings.
PERIODIC MAINTENANCE AND MINOR REPAIR

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

Recommended lubricant:
Engine oil

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

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

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

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

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

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

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

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

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

To check the condition

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

Check the inner tubes for scratches, damage and excessive oil leakage.
PERIODIC MAINTENANCE AND MINOR REPAIR

Checking the steering

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

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

VARNING

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

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

To check the operation

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

CAUTION:

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

Checking the wheel bearings
The front and rear wheel bearings must be checked at the intervals specified in the periodic maintenance and lubrication chart. If there is play in the wheel hub or if the wheel does not turn smoothly, have a Yamaha dealer check the wheel bearings.

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

To charge the battery
Have a Yamaha dealer charge the battery as soon as possible if it seems to have discharged. Keep in mind that the battery tends to discharge more quickly if the motorcycle is equipped with optional electrical accessories.
PERIODIC MAINTENANCE AND MINOR REPAIR

WARNING

Electrolyte is poisonous and dangerous since it contains sulfuric acid, which causes severe burns. Avoid any contact with skin, eyes or clothing and always shield your eyes when working near batteries. In case of contact, administer the following FIRST AID.

- EXTERNAL: Flush with plenty of water.
- INTERNAL: Drink large quantities of water or milk and immediately call a physician.
- EYES: Flush with water for 15 minutes and seek prompt medical attention.

To store the battery

1. If the motorcycle will not be used for more than one month, remove the battery, fully charge it, and then place it in a cool, dry place.
2. If the battery will be stored for more than two months, check it at least once a month and fully charge it if necessary.
3. Fully charge the battery before installation.

KEEP THIS AND ALL BATTERIES OUT OF THE REACH OF CHILDREN.

CAUTION:

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

The fuse boxes are located behind panel B. (See page 6-6 for panel removal and installation procedures.) If a fuse is blown, replace it as follows.

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

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

Specified fuses:

- Main fuse: 30 A
- Ignition fuse: 10 A
- Signaling system fuse: 10 A
- Headlight fuse: 15 A
- Carburetor heater fuse: 10 A

**CAUTION:**

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

Replacing the headlight bulb
This motorcycle is equipped with a quartz bulb headlight. If the headlight bulb burns out, replace it as follows.
1. Remove the headlight unit by removing the screws.
2. Disconnect the headlight coupler, and then remove the headlight unit and bulb cover.
PERIODIC MAINTENANCE AND MINOR REPAIR

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

WARNING

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

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

CAUTION:

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

5. Install the bulb cover, and then connect the coupler.

6. Install the headlight unit by installing the screws.

7. Have a Yamaha dealer adjust the headlight beam if necessary.
PERIODIC MAINTENANCE AND MINOR REPAIR

Replacing the tail/brake light bulb

1. Remove the tail/brake light lens by removing the screws.
2. Remove the defective bulb by pushing it in and turning it counter-clockwise.
3. Insert a new bulb into the socket, push it in, and then turn it clockwise until it stops.
4. Install the lens by installing the screws.

CAUTION:
Do not overtighten the screws, otherwise the lens may break.
PERIODIC MAINTENANCE AND MINOR REPAIR

Replacing a turn signal light bulb
1. Remove the turn signal lens by removing the screws.
2. Remove the defective bulb by pushing it in and turning it counterclockwise.
3. Insert a new bulb into the socket, push it in, and then turn it clockwise until it stops.
4. Install the lens by installing the screws.

CAUTION:
Do not overtighten the screws, otherwise the lens may break.

Supporting the motorcycle
Since this model is not equipped with a 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.

To service the front wheel
1. Stabilize the rear of the motorcycle by using a motorcycle stand or, if an additional motorcycle stand is not available, by placing a jack under the frame in front of the rear wheel.
2. Raise the front wheel off the ground by using a motorcycle stand.
PERIODIC MAINTENANCE AND MINOR REPAIR

To service the rear wheel
Raise the rear wheel off the ground by using a motorcycle stand or, if a motorcycle stand is not available, by placing a jack either under each side of the frame in front of the rear wheel or under each side of the swingarm.

Front wheel

To remove the front wheel

**WARNING**
- It is advisable to have a Yamaha dealer service the wheel.
- Securely support the motorcycle so that there is no danger of it falling over.

1. Disconnect the speedometer cable from the front wheel.

---

**CAUTION:**
Do not apply the brake after the wheel has been removed together with the brake disc, otherwise the brake pads will be forced shut.
To install the front wheel:

1. Install the speedometer gear unit into the wheel hub so that the projections mesh with the slots.
2. Lift the wheel up between the fork legs.
3. Insert the wheel axle.
4. Lower the front wheel so that it is on the ground.
5. Push down hard on the handlebar several times to check for proper fork operation.
6. Tighten the wheel axle to the specified torque, and then install the rubber cap.
7. Tighten the front wheel axle pinch bolt to the specified torque.
8. Connect the speedometer cable.

**NOTE:**
Make sure that there is enough space between the brake pads before inserting the brake disc and that the slot in the speedometer gear unit fits over the retainer on the fork leg.
PERIODIC MAINTENANCE AND MINOR REPAIR

Rear wheel

To remove the rear wheel

**WARNING**
- It is advisable to have a Yamaha dealer service the wheel.
- Securely support the motorcycle so that there is no danger of it falling over.

1. Loosen the axle nut and the brake torque rod nut at the brake shoe plate.
2. Lift the rear wheel off the ground according to the procedure on page 6-36.
3. Disconnect the brake torque rod from the brake shoe plate by removing the nut and the bolt.
4. Remove the brake pedal free play adjusting nut, and then disconnect the brake rod at the brake cam-shaft lever.
5. Loosen the locknut and the drive chain adjusting nut on both ends of the swingarm.
6. Remove the axle nut, and then pull the wheel axle out.
7. Push the wheel forward, and then remove the drive chain from the rear sprocket.

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

8. Remove the wheel.
PERIODIC MAINTENANCE AND MINOR REPAIR

To install the rear wheel

1. Insert the wheel axle from the left-hand side, and then install the drive chain onto the rear sprocket.
2. Install the axle nut, and then lower the rear wheel so that it is on the ground.
3. Install the brake rod onto the brake camshaft lever, and then install the brake pedal free play adjusting nut onto the brake rod.
4. Connect the brake torque rod to the brake shoe plate by installing the bolt and the nut, and then tighten the bolt to the specified torque.
5. Adjust the drive chain slack. (See page 6-25 for drive chain slack adjustment procedures.)
6. Tighten the axle nut to the specified torque.
7. Adjust the brake pedal position and free play. (See page 6-20 for brake pedal position and free play adjustment procedures.)

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

Troubleshooting

Although Yamaha motorcycles receive a thorough inspection before shipment from the factory, trouble may occur during operation. Any problem in the fuel, compression, or ignition systems, for example, can cause poor starting and loss of power.

The following troubleshooting chart represents a quick and easy procedure for checking these vital systems yourself. However, should your motorcycle require any repair, take it to a Yamaha dealer, whose skilled technicians have the necessary tools, experience, and know-how to service the motorcycle properly.

Use only genuine Yamaha replacement parts. Imitation parts may look like Yamaha parts, but they are often inferior, have a shorter service life and can lead to expensive repair bills.
Troubleshooting chart

**WARNING**

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

### 1. Fuel
- Check the fuel level in the fuel tank.
  - There is enough fuel. → Check the compression.
  - There is no fuel. → Supply fuel. → The engine does not start. Check the compression.

### 2. Compression
- Operate the electric starter.
  - There is compression. → Check the ignition.
  - There is no compression. → Have a Yamaha dealer check the vehicle.

### 3. Ignition
- Remove the spark plugs and check the electrodes.
  - Wet: Wipe off with a dry cloth and correct the spark plug gaps, or replace the spark plugs.
  - Dry: Have a Yamaha dealer check the vehicle.
  - The engine does not start. → Open the throttle halfway and operate the electric starter.

### 4. Battery
- Operate the electric starter.
  - The engine turns over quickly. → The battery is good.
  - The engine turns over slowly. → Check the battery lead connections, and charge the battery if necessary.
  - The engine does not start. → Have a Yamaha dealer check the vehicle.
MOTORCYCLE CARE AND STORAGE

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

Before cleaning
1. Cover the muffler outlets with plastic bags after the engine has cooled down.
2. Make sure that all caps and covers as well as all electrical couplers and connectors, including the spark plug caps, are tightly installed.
3. 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
CAUTION:
- Avoid using strong acidic wheel cleaners, especially on spoked wheels. If such products are used on hard-to-remove dirt, do not leave the cleaner on the affected area any longer than instructed. Also, thoroughly rinse the area off with water, immediately dry it, and then apply a corrosion protection spray.
- Improper cleaning can damage windshields, cowlings, panels and other plastic parts. Use only a soft, clean cloth or sponge with mild detergent and water to clean plastic.
MOTORCYCLE CARE AND STORAGE

- Do not use any harsh chemical products on plastic parts. Be sure to avoid using cloths or sponges which have been in contact with strong or abrasive cleaning products, solvent or thinner, fuel (gasoline), rust removers or inhibitors, brake fluid, antifreeze or electrolyte.

- Do not use high-pressure washers or steam-jet cleaners since they cause water seepage and deterioration in the following areas: seals (of wheel and swing-arm bearings, fork and brakes), electric components (couplers, connectors, instruments, switches and lights), breather hoses and vents.

- For motorcycles equipped with a windshield: Do not use strong cleaners or hard sponges as they will cause dulling or scratching. Some cleaning compounds for plastic may leave scratches on the windshield. Test the product on a small hidden part of the windshield to make sure that it does not leave any marks. If the windshield is scratched, use a quality plastic polishing compound after washing.

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

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

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

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

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

2. After drying the motorcycle, apply a corrosion protection spray on all metal, including chrome- and nickel-plated, surfaces to prevent corrosion.
MOTORCYCLE CARE AND STORAGE

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 stainless-steel parts, including the exhaust system. (Even the thermally induced discoloring of stainless-steel exhaust systems can be removed through polishing.)
4. To prevent corrosion, it is recommended to apply a corrosion protection spray on all metal, including chrome- and nickel-plated, surfaces.
5. Use spray oil as a universal cleaner to remove any remaining dirt.
6. Touch up minor paint damage caused by stones, etc.
7. Wax all painted surfaces.
8. Let the motorcycle dry completely before storing or covering it.

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

CAUTION:
- Apply spray oil and wax sparingly and make sure to wipe off any excess.
- Never apply oil or wax to any rubber and plastic parts, but treat them with a suitable care product.
- Avoid using abrasive polishing compounds as they will wear away the paint.

NOTE: Consult a Yamaha dealer for advice on what products to use.
MOTORCYCLE CARE AND STORAGE

Storage

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

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

Long-term
Before storing your motorcycle for several months:
1. Follow all the instructions in the “Care” section of this chapter.
2. Turn the fuel cock lever to “ON”.
3. Drain the carburetor float chambers by loosening the drain bolts; this will prevent fuel deposits from building up. Pour the drained fuel into the fuel tank.
4. Fill up the fuel tank and add fuel stabilizer (if available) to prevent the fuel tank from rusting and the fuel from deteriorating.
5. Perform the following steps to protect the cylinders, piston rings, etc. from corrosion.
   a. Remove the spark plug caps and spark plugs.
   b. Pour a teaspoonful of engine oil into each spark plug bore.
   c. Install the spark plug caps onto the spark plugs, and then place the spark plugs on the cylinder head so that the electrodes are grounded. (This will limit sparking during the next step.)
   d. Turn the engine over several times with the starter. (This will coat the cylinder walls with oil.)
   e. Remove the spark plug caps from the spark plugs, and then install the spark plugs and the spark plug caps.

WARNING
To prevent damage or injury from sparking, make sure to ground the spark plug electrodes while turning the engine over.
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, and then lift the motorcycle so that both of its wheels are off the ground. Alternatively, turn the wheels a little every month in order to prevent the tires from becoming degraded in one spot.

8. Cover the muffler outlets with plastic bags to prevent moisture from entering them.

9. Remove the battery and fully charge it. Store it in a cool, dry place and charge it once a month. Do not store the battery in an excessively cold or warm place (less than 0 °C or more than 30 °C). For more information on storing the battery, see page 6-30.

NOTE: Make any necessary repairs before storing the motorcycle.
Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>XVS250</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td></td>
</tr>
<tr>
<td>Overall length</td>
<td>2,320 mm</td>
</tr>
<tr>
<td>Overall width</td>
<td>910 mm</td>
</tr>
<tr>
<td>Overall height</td>
<td>1,075 mm</td>
</tr>
<tr>
<td>Seat height</td>
<td>670 mm</td>
</tr>
<tr>
<td>Wheelbase</td>
<td>1,530 mm</td>
</tr>
<tr>
<td>Ground clearance</td>
<td>150 mm</td>
</tr>
<tr>
<td>Minimum turning radius</td>
<td>2,900 mm</td>
</tr>
<tr>
<td>Basic weight (with oil and full fuel tank)</td>
<td>159 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Engine</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine type</td>
<td>Air-cooled 4-stroke, SOHC</td>
</tr>
<tr>
<td>Cylinder arrangement</td>
<td>V type 2-cylinder</td>
</tr>
<tr>
<td>Displacement</td>
<td>249 cm³</td>
</tr>
<tr>
<td>Bore × stroke</td>
<td>49 × 66 mm</td>
</tr>
<tr>
<td>Compression ratio</td>
<td>10:1</td>
</tr>
<tr>
<td>Starting system</td>
<td>Electric starter</td>
</tr>
<tr>
<td>Lubrication system</td>
<td>Wet sump</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Engine oil</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
</tr>
</tbody>
</table>

| -20 | -10 | 0 | 10 | 20 | 30 | 40 | 50 | ℃ |
|------------------|
| SAE 10W-30       |
| SAE 10W-40       |
| SAE 15W-40       |
| SAE 20W-40       |
| SAE 20W-50       |

- **Recommended engine oil classification**: API Service SE, SF, SG or higher

**CAUTION:**

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

<table>
<thead>
<tr>
<th>Quantity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Without oil filter element replacement</td>
<td>1.4 L</td>
</tr>
<tr>
<td>With oil filter element replacement</td>
<td>1.6 L</td>
</tr>
<tr>
<td>Total amount (dry engine)</td>
<td>1.75 L</td>
</tr>
</tbody>
</table>
# SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Air filter</strong></td>
<td>Dry type element</td>
</tr>
<tr>
<td><strong>Fuel</strong></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Regular gasoline</td>
</tr>
<tr>
<td>Unleaded fuel only (for Australia)</td>
<td></td>
</tr>
<tr>
<td>Fuel tank capacity</td>
<td>11 L</td>
</tr>
<tr>
<td>Fuel reserve amount</td>
<td>3.4 L</td>
</tr>
<tr>
<td><strong>Carburetor</strong></td>
<td></td>
</tr>
<tr>
<td>Manufacturer</td>
<td>MIKUNI</td>
</tr>
<tr>
<td>Model x quantity</td>
<td>BDS26 x 1</td>
</tr>
<tr>
<td><strong>Spark plug</strong></td>
<td></td>
</tr>
<tr>
<td>Manufacturer/model</td>
<td>NGK / CR6HSA or DENSO / U20FSR-U</td>
</tr>
<tr>
<td>Gap</td>
<td>0.6–0.7 mm</td>
</tr>
<tr>
<td><strong>Clutch type</strong></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Wet, multiple-disc</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>3.130</td>
</tr>
<tr>
<td>Secondary reduction system</td>
<td>Chain drive</td>
</tr>
<tr>
<td>Secondary reduction ratio</td>
<td>2.800</td>
</tr>
<tr>
<td>Number of drive chain sprocket teeth (front/rear)</td>
<td>20/56</td>
</tr>
<tr>
<td>Transmission type</td>
<td>Constant-mesh 5-speed</td>
</tr>
<tr>
<td>Operation</td>
<td>Left foot</td>
</tr>
<tr>
<td><strong>Gear ratio</strong></td>
<td></td>
</tr>
<tr>
<td>1st</td>
<td>2.643</td>
</tr>
<tr>
<td>2nd</td>
<td>1.684</td>
</tr>
<tr>
<td>3rd</td>
<td>1.261</td>
</tr>
<tr>
<td>4th</td>
<td>1.000</td>
</tr>
<tr>
<td>5th</td>
<td>0.821</td>
</tr>
<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>35°</td>
</tr>
<tr>
<td>Trail</td>
<td>135 mm</td>
</tr>
<tr>
<td><strong>Tires</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Front</strong></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Tube tire</td>
</tr>
<tr>
<td>Size</td>
<td>80/100-18 47P</td>
</tr>
<tr>
<td>Manufacturer/model</td>
<td>CHENG SHIN / C-916</td>
</tr>
<tr>
<td>Rear</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Tube tire</td>
</tr>
<tr>
<td>Size</td>
<td>130/90-15 M/C 66P</td>
</tr>
<tr>
<td>Manufacturer/model</td>
<td>CHENG SHIN / C-915</td>
</tr>
</tbody>
</table>
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum load*</td>
<td>180 kg</td>
</tr>
</tbody>
</table>
| Tire air pressure (measured on cold tires) | Up to 90 kg*  
  Front: 175 kPa (1.75 kgf/cm², 1.75 bar)  
  Rear: 200 kPa (2.00 kgf/cm², 2.00 bar)  
  90 kg–maximum*  
  Front: 225 kPa (2.25 kgf/cm², 2.25 bar)  
  Rear: 225 kPa (2.25 kgf/cm², 2.25 bar) |
| * Total weight of rider, passenger, cargo and accessories |                                                                 |
| Wheels                         |                                                                         |
| Front Type                     | Spoke wheel                                                             |
| Size                           | 18 × 1.60                                                               |
| Rear Type                      | Spoke wheel                                                             |
| Size                           | 15 M/C × MT 3.00                                                        |
| Brakes                         |                                                                         |
| Front Type                     | Single disc brake                                                       |
| Operation                      | Right hand                                                              |
| Fluid                          | DOT 4                                                                   |
| Rear Type                      | Drum brake                                                              |
| Operation                      | Right foot                                                              |
| Suspension                     |                                                                         |
| Front Type                      | Telescopic fork                                                         |
| Rear Type                      | Swingarm                                                                |
| Spring/shock absorber          |                                                                         |
| Front Type                      | Coil spring / oil damper                                                |
| Rear Type                      | Coil spring / oil damper                                                |
| Wheel travel                   |                                                                         |
| Front                          | 140 mm                                                                  |
| Rear                           | 100 mm                                                                  |
| Electrical system              |                                                                         |
| Ignition system                | T.C.I (digital)                                                         |
| Charging system                |                                                                         |
| Type                           | A.C. magneto                                                            |
| Standard output                | 14 V, 23 A @ 5,000 r/min                                                |
| Battery                        |                                                                         |
| Model                          | GT6B-3                                                                  |
| Voltage, capacity              | 12 V, 6 Ah                                                              |
| Headlight type                 | Quartz bulb (halogen)                                                   |
## SPECIFICATIONS

### Bulb voltage, wattage × quantity

<table>
<thead>
<tr>
<th>Light Type</th>
<th>Voltage</th>
<th>Wattage</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headlight</td>
<td>12 V</td>
<td>60/55 W</td>
<td>1</td>
</tr>
<tr>
<td>Tail/brake light</td>
<td>12 V</td>
<td>5/21 W</td>
<td>1</td>
</tr>
<tr>
<td>Turn signal light</td>
<td>12 V</td>
<td>21 W</td>
<td>4</td>
</tr>
<tr>
<td>Meter lighting</td>
<td>12 V</td>
<td>1.7 W</td>
<td>1</td>
</tr>
<tr>
<td>Neutral indicator light</td>
<td>12 V</td>
<td>1.7 W</td>
<td>1</td>
</tr>
<tr>
<td>High beam indicator light</td>
<td>12 V</td>
<td>1.7 W</td>
<td>1</td>
</tr>
<tr>
<td>Turn signal indicator light</td>
<td>12 V</td>
<td>1.7 W</td>
<td>1</td>
</tr>
<tr>
<td>Engine trouble warning light</td>
<td>12 V</td>
<td>1.7 W</td>
<td>1</td>
</tr>
</tbody>
</table>

### Fuses

<table>
<thead>
<tr>
<th>Fuse Type</th>
<th>Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main fuse</td>
<td>30 A</td>
</tr>
<tr>
<td>Headlight fuse</td>
<td>15 A</td>
</tr>
<tr>
<td>Signaling system fuse</td>
<td>10 A</td>
</tr>
<tr>
<td>Ignition fuse</td>
<td>10 A</td>
</tr>
<tr>
<td>Carburetor heater fuse</td>
<td>10 A</td>
</tr>
</tbody>
</table>
All specification data in this manual are listed in SI and METRIC UNITS. Use this table to convert METRIC unit data to IMPERIAL unit data.

Example

<table>
<thead>
<tr>
<th>METRIC</th>
<th>MULTIPLIER</th>
<th>IMPERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>** mm</td>
<td>× 0.03937</td>
<td>** in</td>
</tr>
<tr>
<td>2 mm</td>
<td>× 0.03937</td>
<td>0.08 in</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Metric unit</th>
<th>Multiplier</th>
<th>Imperial unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torque</td>
<td>m·kg</td>
<td>ft·lb</td>
</tr>
<tr>
<td></td>
<td>m·kg</td>
<td>in·lb</td>
</tr>
<tr>
<td></td>
<td>cm·kg</td>
<td>in·lb</td>
</tr>
<tr>
<td></td>
<td>cm·kg</td>
<td>ft·lb</td>
</tr>
<tr>
<td>Weight</td>
<td>kg</td>
<td>lb</td>
</tr>
<tr>
<td></td>
<td>g</td>
<td>oz</td>
</tr>
<tr>
<td>Speed</td>
<td>km/h</td>
<td>mi/h</td>
</tr>
<tr>
<td></td>
<td>m</td>
<td>ft</td>
</tr>
<tr>
<td></td>
<td>m</td>
<td>yd</td>
</tr>
<tr>
<td>Distance</td>
<td>km</td>
<td>mi</td>
</tr>
<tr>
<td></td>
<td>m</td>
<td>ft</td>
</tr>
<tr>
<td></td>
<td>cm</td>
<td>in</td>
</tr>
<tr>
<td></td>
<td>mm</td>
<td>in</td>
</tr>
<tr>
<td>Volume,</td>
<td>cc (cm³)</td>
<td>oz (IMP liq.)</td>
</tr>
<tr>
<td>Capacity</td>
<td>cc (cm³)</td>
<td>cu·in</td>
</tr>
<tr>
<td></td>
<td>L (liter)</td>
<td>qt (IMP liq.)</td>
</tr>
<tr>
<td></td>
<td>L (liter)</td>
<td>gal (IMP liq.)</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>kg/mm</td>
<td>lb/in</td>
</tr>
<tr>
<td></td>
<td>kg/cm²</td>
<td>psi (lb/in²)</td>
</tr>
<tr>
<td></td>
<td>Centigrade (°C)</td>
<td>Fahrenheit (°F)</td>
</tr>
</tbody>
</table>
CONSUMER INFORMATION

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

1. KEY IDENTIFICATION NUMBER:

2. VEHICLE IDENTIFICATION NUMBER:

3. MODEL LABEL INFORMATION:

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

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

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

Model label
The model label is affixed to the location shown. Record the information on this label in the space provided. This information will be needed when ordering spare parts from a Yamaha dealer.

Motorcycle 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.