




OWNER'S MANUAL

XT

XT225T
XT225TC

LIT-11626-18-25

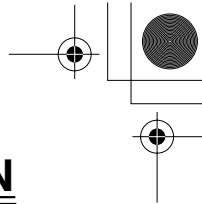
5RK-28199-13

 **WARNING**

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

YAMAHA

LIT-CALIF-65-01



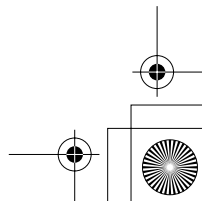
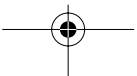
INTRODUCTION

EAU10080

XT225/XT225C. This model is the result of Yamaha's vast experience in setting racing machines. It represents the high degree of craftsmanship and the fields.

operation, inspection, and basic maintenance of this motorcycle. If you maintenance of your motorcycle, please consult a Yamaha dealer.

motorcycle fully comply with the emissions standards for clean air applicable standards without reducing the performance or economy of operation of it is important that you and your Yamaha dealer pay close attention to the following instructions contained within this manual.



FORMATION

n this manual by the following notations:

ymbol means **ATTENTION! BECOME ALERT! YOUR SAFETY IS**

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

ates special precautions that must be taken to avoid damage to

ey information to make procedures easier or clearer.

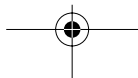
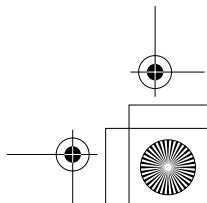
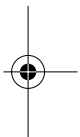
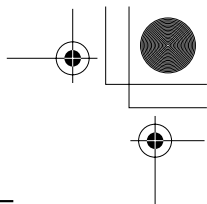
nt part of this motorcycle and should remain with it even if the motorcycle

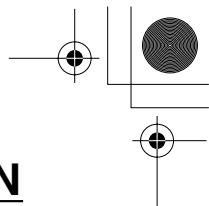
product design and quality. Therefore, while this manual contains the most
e of printing, there may be minor discrepancies between your motorcycle
ncerning this manual, please consult your Yamaha dealer.

AND YOUR MOTORCYCLE: RIDING TIPS” BOOKLET CAREFULLY
S MOTORCYCLE. DO NOT ATTEMPT TO OPERATE THIS MOTORCY-
E KNOWLEDGE OF ITS CONTROLS AND OPERATING FEATURES
FE AND PROPER RIDING TECHNIQUES. REGULAR INSPECTIONS
GOOD RIDING SKILLS, WILL ENSURE THAT YOU SAFELY ENJOY
THIS MOTORCYCLE.

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EWA10010



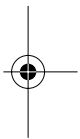


IMPORTANT MANUAL INFORMATION

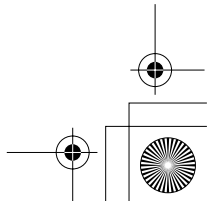
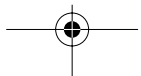
EAU10192

AFFIX DEALER

LABEL HERE



XT225T/XT225TC
OWNER'S MANUAL
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1st edition, April 2004
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P/N LIT-11626-18-25



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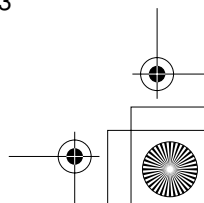
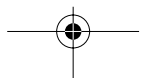
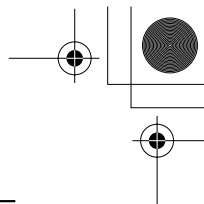
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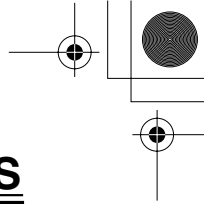
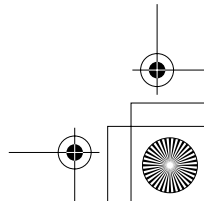
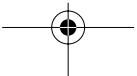


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ne operator and a passenger.

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recognize motorcycles in traf-
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omobile/motorcycle accidents.

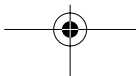
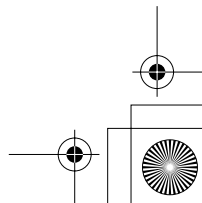
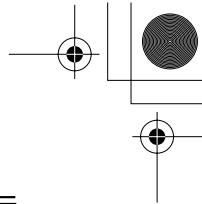
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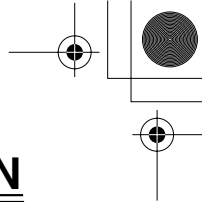
efore:

Wear a brightly colored jacket.

se extra caution when ap-
roaching and passing through
intersections, since intersec-
ons are the most likely places
or motorcycle accidents to oc-
ur.

- Ride where other motorists can see you. Avoid riding in another motorist's blind spot.
- Many accidents involve inexperienced operators. In fact, many operators who have been involved in accidents do not even have a current motorcycle license.
- Make sure that you are qualified and that you only lend your motorcycle to other qualified operators.
- Know your skills and limits. Staying within your limits may help you to avoid an accident.
- We recommend that you practice riding your motorcycle where there is no traffic until you have become thoroughly familiar with the motorcycle and all of its controls.
- Many accidents have been caused by error of the motorcycle operator. A typical error made by the operator is veering wide on a turn due to EXCESSIVE SPEED or un-





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 most critical factor in the prevention and reduction of head injuries.

Always wear an approved helmet. Wear a face shield or goggles. Look out for your unprotected eyes. They could contribute to an impairment of vision that could delay seeing a hazard.

The use of a jacket, heavy boots, gloves, etc., is effective in preventing or reducing abrasions and lacerations.

Never wear loose-fitting clothes, otherwise they could catch on the control levers, footrests, or wheels and cause injury or an accident.

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.

- 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:

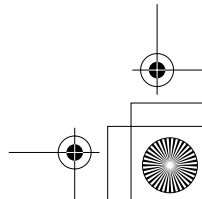
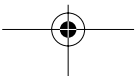
Loading

The total weight of the operator, passenger, accessories and cargo must

1



1-2



specifically designed for use on motorcycle. Since Yamaha cannot guarantee the safety of other accessories that may be added, 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.

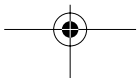
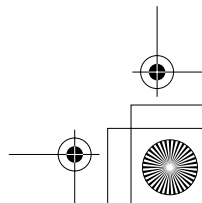
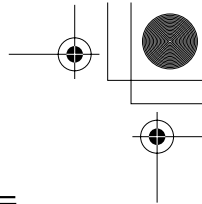
Keep the following guidelines in mind, as those provided under "Load Capacity" when mounting accessories.

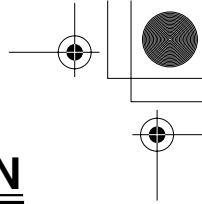
Never install accessories or carry loads that would impair the performance of your motorcycle. Carefully inspect the accessory before installing it to make sure that it does not in any way reduce ground clearance or cornering clearance, restrict suspension travel, steering control or control operation,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

Accessories fitted to the handlebar or the front fork area can create instability due to improper weight distribution or aerodynamic

changes. If accessories are added to the handlebar or front fork area, they must be as lightweight as possible and should be kept to a minimum.

- Bulky or large accessories may seriously affect the stability of the motorcycle due to aerodynamic effects. Wind may attempt to lift the motorcycle, or the motorcycle may become unstable in cross winds. These accessories may also cause instability when passing or being passed by large vehicles.
- Certain accessories can displace the operator from his or her normal riding position. This improper position limits the freedom of movement of the operator and may limit control ability, therefore, such accessories are not recommended.
- Use caution when adding electrical accessories. If electrical accessories exceed the capacity of the





SAFETY INFORMATION

, note the following:

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.

Do not park the motorcycle on a slope or soft ground, otherwise it may fall over.

Do not park the motorcycle near a flammable source (e.g., a kerosene heater, or near an open flame), otherwise it could catch fire.

When transporting the motorcycle on another vehicle, make sure that it is kept upright and that the fuel tank(s) are turned to "ON" or "RES" (for vacuum type)/"OFF" (for manual type). If the motorcycle should lean over, gasoline may leak out of the carburetor or fuel tank.

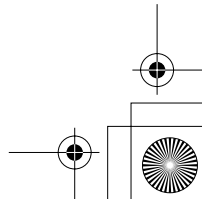
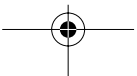
You should swallow any gasoline, inhale a lot of gasoline vapor, allow gasoline to get into your

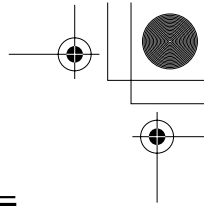
eyes, see your doctor immediately. If any gasoline spills on your skin or clothing, immediately wash the affected area with soap and water and change your clothes.

1



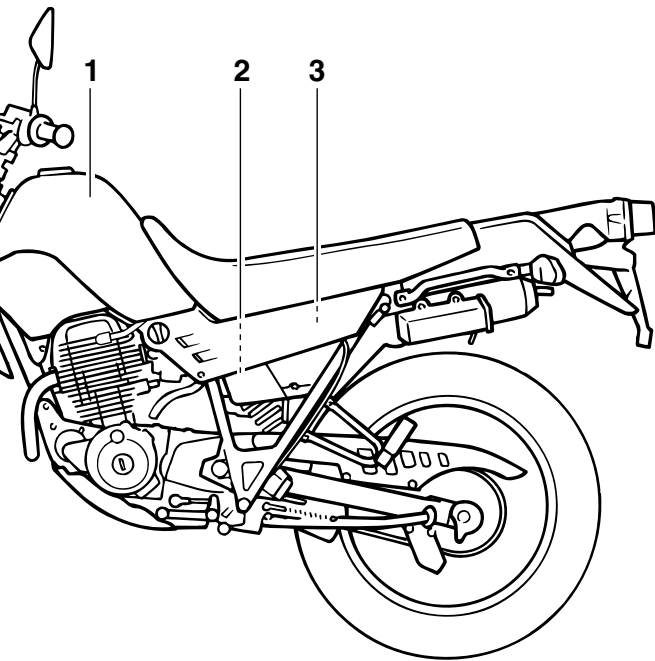
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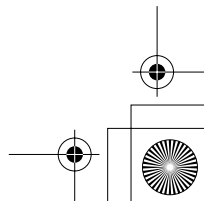
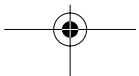


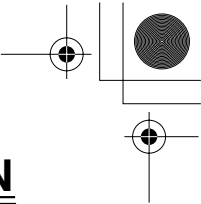
EAU10381

y before operating this vehicle.




1-5





SAFETY INFORMATION

2

 **WARNING**

This unit contains high pressure nitrogen gas.
Mishandling can cause explosion.

- Read owner's manual for instructions.
- Do not incinerate, puncture or open.

4AA-22259-80



4

TIRE INFORMATION

Cold tire normal pressure should be set as follows.

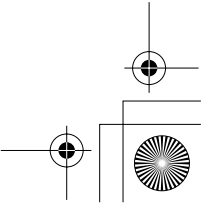
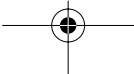
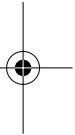
- Up to 90kg (198 lbs) load

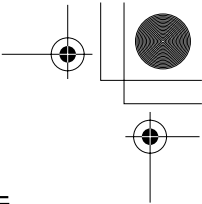
FRONT : 125 kPa, {1.25 kgf/cm²}, 18 psi
REAR : 150 kPa, {1.50 kgf/cm²}, 22 psi

- 90kg (198 lbs) ~ maximum load

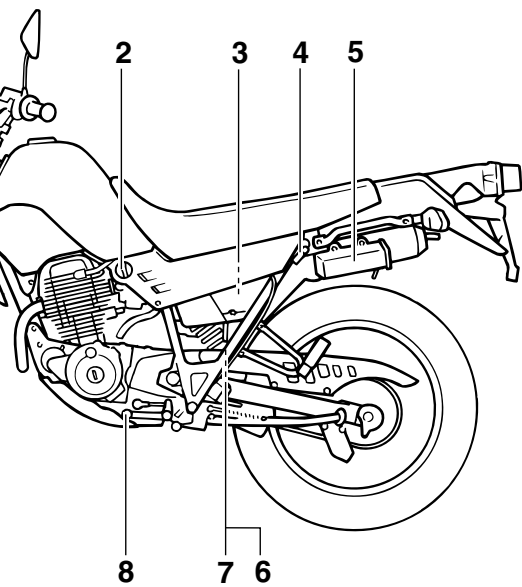
FRONT : 150 kPa, {1.50 kgf/cm²}, 22 psi
REAR : 175 kPa, {1.75 kgf/cm²}, 25 psi

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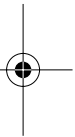




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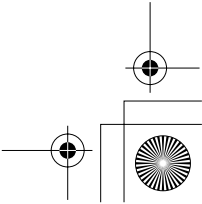
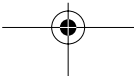


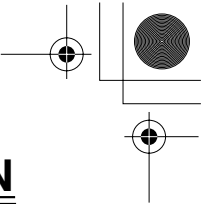
8. Shift pedal (page 3-4)



age 3-9)
ng dial

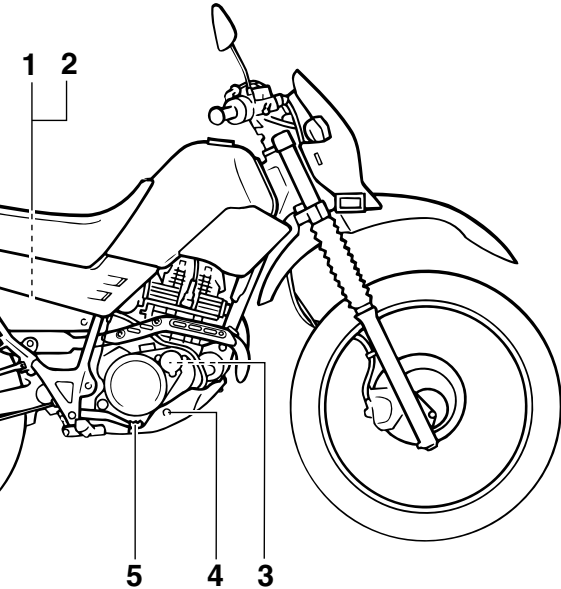
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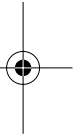


DESCRIPTION

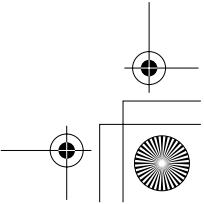
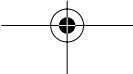
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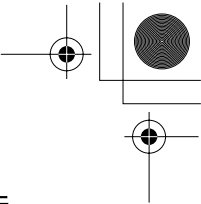


2

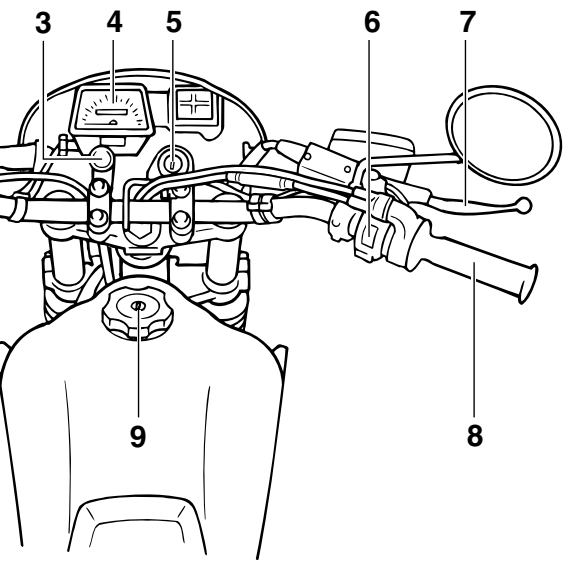


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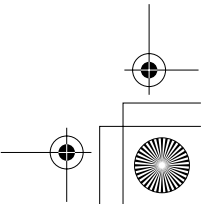
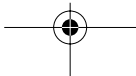


EAU10430



9. Fuel tank cap (page 3-5)

2-3



INSTRUMENT AND CONTROL FUNCTIONS

EAU10710

ering is locked, and all electrical
s are off. The key can be re-

the steering

To unlock the steering

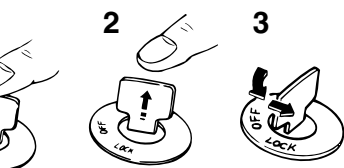
Insert the key and turn it to "OFF".

EWA10070



WARNING

**Never turn the key to "LOCK" while
the motorcycle is moving.**



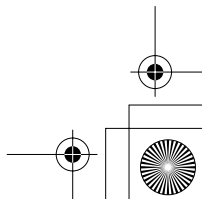
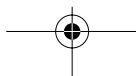
se.

e handlebars all the way to the
ght.

sh the key in from the "OFF" po-
on, release it, and then turn it to
LOCK".

move the key.

3-1



L FUNCTIONS

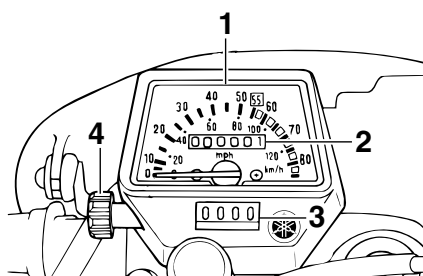
EAU11080

am indicator light “”

icator light comes on when the
am of the headlight is switched

Speedometer unit

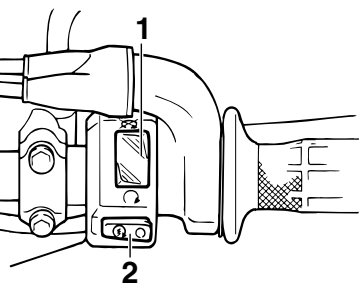
EAU11630



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

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.

INSTRUMENT AND CONTROL FUNCTIONS



Engine stop switch “/”
Horn switch “”

Headlight switch “/”
Push 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 ready, the switch returns to the center position. To cancel the turn signal, push the switch in after it has returned to the center position.

Horn switch “”

Press this switch to sound the horn.

Engine stop switch “/”

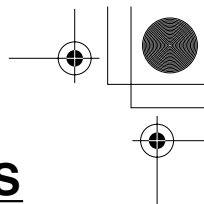
Set this switch to “” before starting the engine. Set this switch to “” to stop the engine in case of an emergency, such as when the vehicle overturns or when the throttle cable is stuck.

Start switch “”

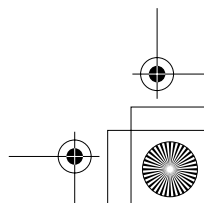
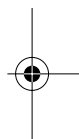
Push this switch to crank the engine with the starter.

CAUTION:

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



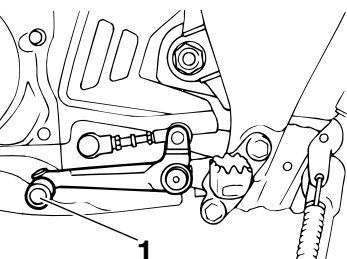
3



FUNCTIONS

Clutch pedal

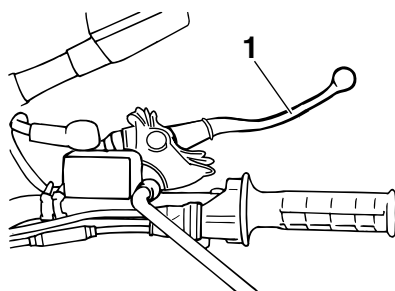
EAU12870



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

Brake lever

EAU12890



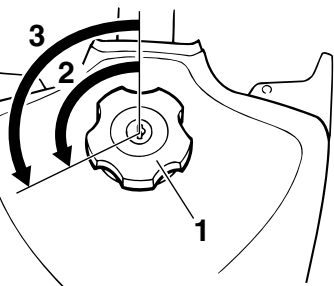
1. Brake lever

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

INSTRUMENT AND CONTROL FUNCTIONS

EAU32280

Fuel tank cap



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.

EWA10120

⚠ WARNING

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

3

Fuel tank cap
key.

Remove the fuel tank cap

Insert the key into the lock and turn 1/3 turn counterclockwise.

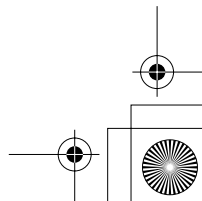
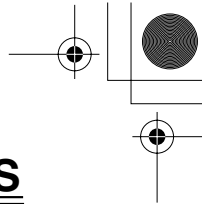
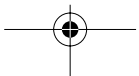
Turn the fuel tank cap 1/3 turn counterclockwise and pull it off.

Install the fuel tank cap

Insert the fuel tank cap into the lock opening with the key inserted in the lock, and then turn the cap 1/3 turn clockwise.

Turn the key 1/3 turn clockwise, and then remove it.

3-5



L FUNCTIONS

may deteriorate painted surfaces and plastic parts.

EAU13300

Recommended fuel:
UNLEADED GASOLINE ONLY
Fuel tank capacity:
18.8 L (2.32 US gal) (1.94 Imp.gal)
Fuel reserve amount:
4.0 L (0.53 US gal) (0.44 Imp.gal)

ECA11400

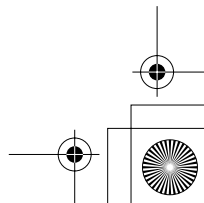
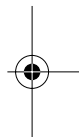
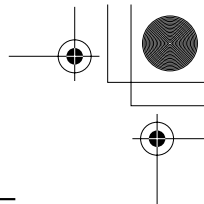
CAUTION:
Do not use unleaded gasoline. The use of unleaded gasoline will cause severe damage to internal engine parts, including the valves and piston rings, and damage to the exhaust system.

The Yamaha engine has been designed to use regular unleaded gasoline with a pump octane number of 86 or higher, or a research octane number of 91 or higher. If knocking (or pinging) occurs, use a different brand or premium unleaded fuel. Use of unleaded fuel will reduce spark plug life and reduce

maintenance costs.

Gasohol

There are two types of gasohol: gasohol containing ethanol and that containing methanol. Gasohol containing ethanol can be used if the ethanol content does not exceed 10%. Gasohol containing methanol is not recommended by Yamaha because it can cause damage to the fuel system or vehicle performance problems.



INSTRUMENT AND CONTROL FUNCTIONS



mark pointing to "ON"

the lever in this position, fuel flows to the carburetor. Normal riding is done with the lever in this position.



mark pointing to "RES"

indicates reserve. If you run out of fuel while riding, move the lever to this position. Fill the tank at the first opportunity. Be sure to set the lever back to "ON" after refueling!

3

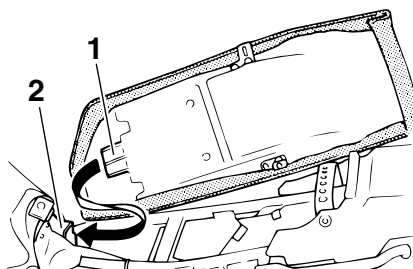
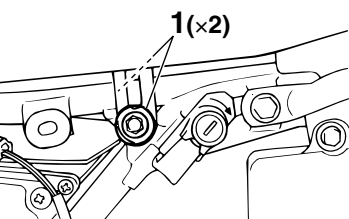
L FUNCTIONS

EAU13981

ove the seat

move panels A and B. (See
e 6-9.)

move the bolts and pull the seat



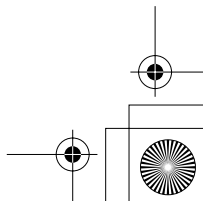
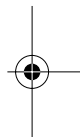
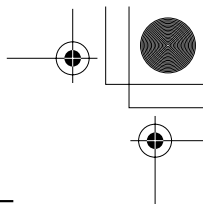
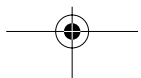
1. Projection
2. Seat holder

2. Place the seat in the original position, and then tighten the bolts.
3. Install the panels.

NOTE: _____
Make sure that the seat is properly secured before riding.

all the seat

ert the projection on the front of
seat into the seat holder as
wn.



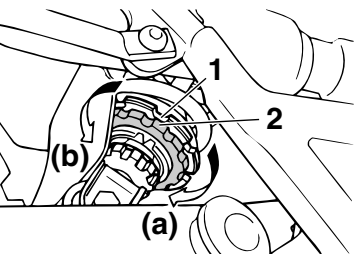
INSTRUMENT AND CONTROL FUNCTIONS

Adjusting the shock absorber assembly

The shock absorber assembly is equipped with a spring preload adjusting nut and a rebound damping force adjusting dial.

WARNING: Do not attempt to turn an adjusting mechanism beyond the maximum or minimum settings.

Adjusting the spring preload

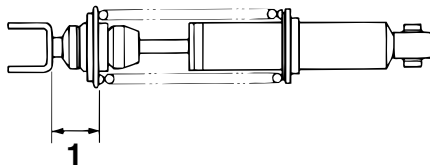


Adjusting the spring preload adjusting nut

Loosen the locknut.

To increase the spring preload and

thereby harden the suspension, turn the adjusting nut in direction (a). To decrease the spring preload and thereby soften the suspension, turn the adjusting nut in direction (b).



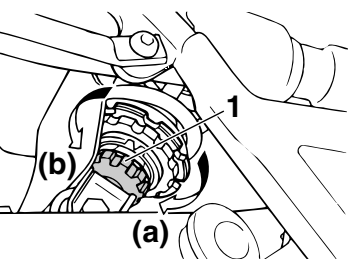
1. Distance A

NOTE:

- Use the special wrench included in the owner's tool kit to make the adjustment.
- The spring preload setting is determined by measuring distance A, shown in the illustration. The longer distance A is, the higher the spring preload; the shorter distance A is, the lower the spring

FUNCTIONS

Rebound damping force



Rebound damping force adjusting dial

To increase the rebound damping force, turn the adjusting dial in direction (a) to thereby harden the rebound damping. To decrease the rebound damping force, turn the adjusting dial in direction (b) to thereby soften the rebound damping.

Rebound damping setting:

Minimum (soft):
20 clicks in direction (b)*

Standard:
9 clicks in direction (b)*

Maximum (hard):
1 click in direction (b)*

* With the adjusting dial fully turned in direction (a)

NOTE:

Although the total number of clicks of the damping force adjusting mechanism may not exactly match the above specifications due to small differences in production, the actual number of clicks always represents the entire adjusting range. To obtain a precise adjustment, it would be advisable to check the number of clicks of the damping force adjusting mechanism and to modify the specifications as necessary.

WARNING

This shock absorber contains highly pressurized nitrogen gas. For proper handling, read and understand the following information before

INSTRUMENT AND CONTROL FUNCTIONS

EAU15300

Stand

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

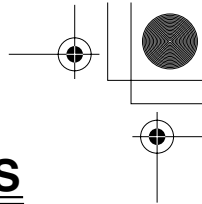
The built-in sidestand switch is part of the ignition circuit cut-off system, which cuts the ignition in certain situations. (For further information, see the section on the ignition circuit cut-off system.)

EWA10240

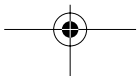
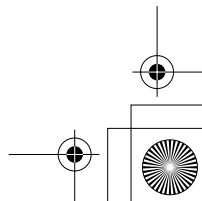
WARNING

The vehicle must not be ridden with the stand down, or if the stand cannot be properly moved up (it does not stay up), otherwise the stand 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 stand before starting off. Therefore, check

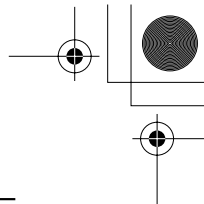
this system regularly as described below and have a Yamaha dealer repair it if it does not function properly.



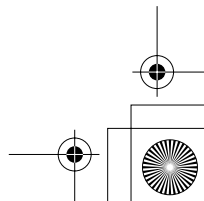
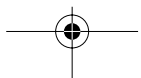
3



L FUNCTIONS



3-12



INSTRUMENT AND CONTROL FUNCTIONS

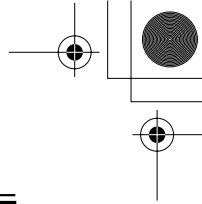
NOTE: _____
This check is most reliable if performed with
a warmed-up engine.

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

3

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.



EAU15591

ability. Vital components can start to deteriorate quickly and unexpectedly, as a result of exposure to the elements). Any damage, fluid leakage or loss of oil. Therefore, it is very important, in addition to a thorough visual inspection, to check the oil level regularly.

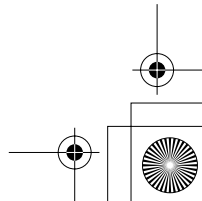
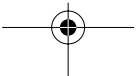
the vehicle is used. Such an inspection can be accomplished in a very short time, and is well worth the time involved.

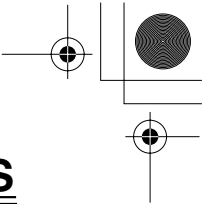
EWA11150

Before operating the vehicle, make sure the engine oil is at the correct level. If the oil is low, top up with the correct grade of oil. If the oil is dirty, change it. If the oil is old, change it. If the oil is contaminated, change it. If the oil is leaking, stop the vehicle and have it inspected and repaired before operating.



4-1



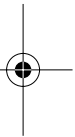


PRE-OPERATION CHECKS

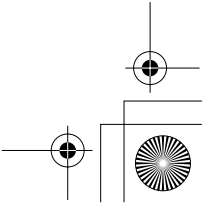
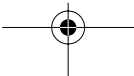
EAU15602

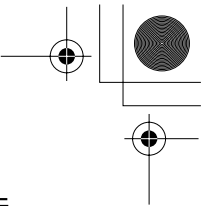
CHECKS	PAGE
Fuel tank.	3-6
Leakage.	
Engine.	6-12
Recommended oil to specified level.	
Oil leakage.	
Have Yamaha dealer bleed hydraulic system.	6-23, 6-25, 6-26
Brake.	
Brake wear.	
Brake reservoir.	
Recommended brake fluid to specified level.	
Brake system for leakage.	
Clutch.	6-23, 6-25
Shift.	6-22
Shift operation is smooth.	
Clutch play.	6-18, 6-30
Yamaha dealer adjust cable free play and lubricate cable	
Clutch operation is smooth.	6-29
Clutch free play.	

4

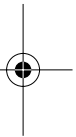


4-2

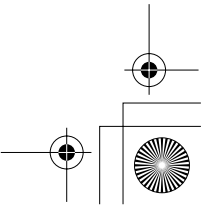
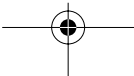




CHECKS	PAGE
in. y.	6-27, 6-29
and tread depth.	6-18, 6-21
ation is smooth. ing points if necessary.	6-30
ation is smooth. ing points if necessary.	6-30
ation is smooth. ecessary.	6-31
ts, bolts and screws are properly tightened.	—
	—
gnition circuit cut-off system. , have Yamaha dealer check vehicle.	3-11



4-3



OPERATION AND IMPORTANT RIDING POINTS

Starting and warming up a cold engine

Before the ignition circuit cut-off system can be enabled 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 3-12.

Never ride with the sidestand down.

Turn the fuel cock lever to "ON".
Turn the key to "ON" and make sure that the engine stop switch is set to "O".

Shift transmission into the neutral

position.

NOTE:

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

4. Turn the starter (choke) on and completely close the throttle. (See page 3-8.)
5. Start the engine by pushing the start switch.

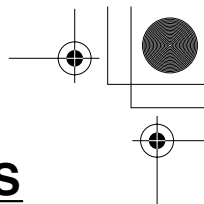
NOTE:

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.

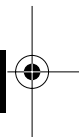
6. After starting the engine, move the starter (choke) back halfway.

CAUTION:

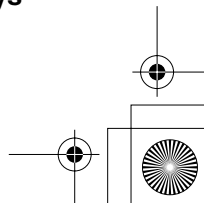
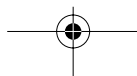
For maximum engine life, always



5



5-1



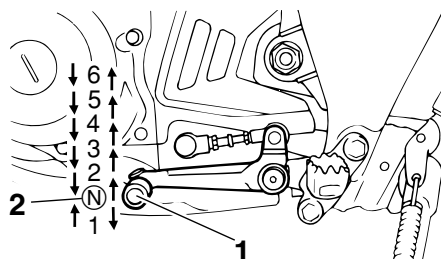
IT RIDING POINTS

EAU16640

g a warm engine

he same procedure as for start-
old engine with the exception
starter (choke) is not required
e engine is warm.

Shifting



1. Shift pedal
2. Neutral position

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.

ACCELERATION AND IMPORTANT RIDING POINTS

When the throttle is gradually opened, and at the same time, release the clutch lever slowly.

At the recommended shift points shown in the following table, close the throttle, and at the same time, quickly pull the clutch lever in.

Shift the transmission into second gear. (Make sure not to shift the transmission into the neutral position.)

When the throttle is part way open, gradually release the clutch lever.

Follow the same procedure when shifting to the next higher gear.

Shift gears at the recommended points.

EAU16700

Decelerate

Apply both the front and the rear brakes to slow the motorcycle.

Shift the transmission into first gear when the motorcycle reaches 20 km/h (12.5 mi/h). If the engine is

about to stall or runs very roughly, pull the clutch lever in and use the brakes to stop the motorcycle.

3. Shift the transmission into the neutral position when the motorcycle is almost completely stopped. The neutral indicator light should come on.

EAU16740

Recommended shift points

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

5

Shift up points:

1st → 2nd: 16 km/h (10 mi/h)
2nd → 3rd: 24 km/h (15 mi/h)
3rd → 4th: 32 km/h (20 mi/h)
4th → 5th: 40 km/h (25 mi/h)
5th → 6th: 48 km/h (30 mi/h)

Shift down points:

6th → 5th: 20 km/h (12.5 mi/h)
5th → 4th: 20 km/h (12.5 mi/h)
4th → 3rd: 20 km/h (12.5 mi/h)
3rd → 2nd: 20 km/h (12.5 mi/h)
2nd → 1st: 20 km/h (12.5 mi/h)

IT RIDING POINTS

ECA12711

ON:
er 1000 km (600 mi) of opera-
n, the engine oil must be
anged, the oil filter element
l the oil strainer cleaned.

ny engine trouble should oc-
during the engine break-in
od, immediately have a
naha dealer check the vehi-

Parking

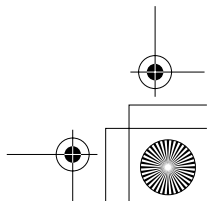
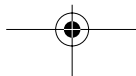
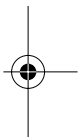
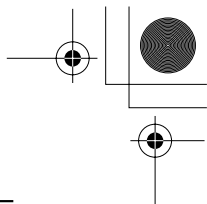
When parking, stop the engine, remove the key from the main switch, and then turn the fuel cock lever to "OFF".

EAU17170

EWA10310

WARNING

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



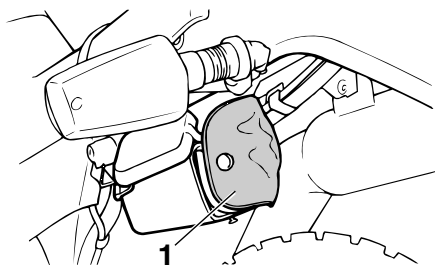
PERIODIC MAINTENANCE AND MINOR REPAIR

PERIODIC MAINTENANCE

PERIODIC MAINTENANCE OF YOUR VEHICLE IS IMPORTANT IN ORDER TO ENJOY LONG, PLEASANT SERVICE. ESPECIALLY IMPORTANT ARE THE MAINTENANCE SERVICES RELATED TO EMISSIONS CONTROL. THESE SERVICES NOT ONLY FUNCTION TO ENSURE CLEANER AIR, BUT ARE ALSO VITAL TO PROPER ENGINE OPERATION AND MAXIMUM PERFORMANCE. IN THE FOLLOWING PERIODIC MAINTENANCE SERVICES, THE SERVICES RELATED TO EMISSIONS CONTROL ARE LISTED SEPARATELY. THESE SERVICES REQUIRE SPECIALIZED KNOWLEDGE, AND EQUIPPED YAMAHA DEALERS ARE ADVISED AND EQUIPPED TO PERFORM THESE PARTICULAR SER-

EAU17301

Owner's tool kit



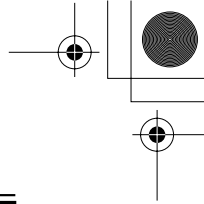
1. Owner's tool kit

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

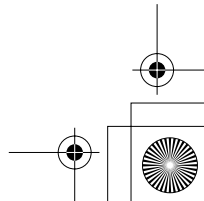
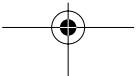
NOTE:

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

ND MINOR REPAIR



6-2



ODIC MAINTENANCE AND MINOR REPAIR

EAU17580

ission control system

	INITIAL	ODOMETER READINGS				
	600 mi (1000 km) or 1 month	4000 mi (6000 km) or 6 months	7000 mi (11000 km) or 12 months	10000 mi (16000 km) or 18 months	13000 mi (21000 km) or 24 months	16000 mi (26000 km) or 30 months
cks or		√	√	√	√	√
000 hereaf- 0 km)		√	Replace.	√	Replace.	√
		√	√	√	√	√
clear- ld.	√	√	√	√	√	√
		√		√		√
e idle		√	√	√	√	√
ces-		√	√	√	√	√

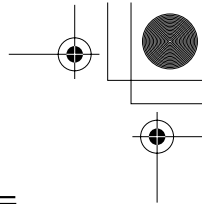
6-3

6

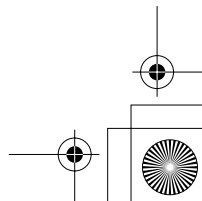
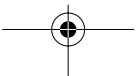
END MINOR REPAIR

	INITIAL	ODOMETER READINGS				
	600 mi (1000 km) or 1 month	4000 mi (6000 km) or 6 months	7000 mi (11000 km) or 12 months	10000 mi (16000 km) or 18 months	13000 mi (21000 km) or 24 months	16000 mi (26000 km) or 30 months
dam-			✓		✓	

ills, have a Yamaha dealer perform the service.



6-4



ND MINOR REPAIR

	INITIAL	ODOMETER READINGS				
	600 mi (1000 km) or 1 month	4000 mi (6000 km) or 6 months	7000 mi (11000 km) or 12 months	10000 mi (16000 km) or 18 months	13000 mi (21000 km) or 24 months	16000 mi (26000 km) or 30 months
ment	Every 300 mi (500 km) and after washing the motorcycle or riding in the rain					
n with ricant						
for	✓	✓	✓	Repack.	✓	✓
th- every 18						
and		✓	✓	✓	✓	✓
d (se)		✓	✓	✓	✓	✓
d (se)		✓	✓	✓	✓	✓
d (se)		✓	✓	✓	✓	✓
lace if	✓	✓	✓	✓	✓	✓

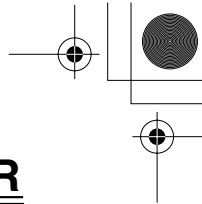
ODIC MAINTENANCE AND MINOR REPAIR

	INITIAL	ODOMETER READINGS				
	600 mi (1000 km) or 1 month	4000 mi (6000 km) or 6 months	7000 mi (11000 km) or 12 months	10000 mi (16000 km) or 18 months	13000 mi (21000 km) or 24 months	16000 mi (26000 km) or 30 months
oil		✓	✓	✓	✓	✓
oil		✓	✓	✓	✓	✓
d		✓	✓	✓	✓	
before	✓	✓	✓	✓	✓	✓
	✓		✓		✓	
	✓		✓		✓	
d cable 30 thor-	✓	✓	✓	✓	✓	✓
e play. free		✓	✓	✓	✓	✓
p						

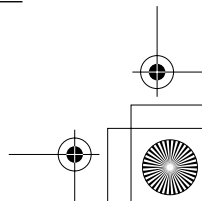
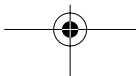
kills, have a Yamaha dealer perform the service.

the maintenance intervals starting from 7000 mi (11000 km) or 12 months.

6-7



6



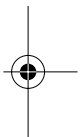
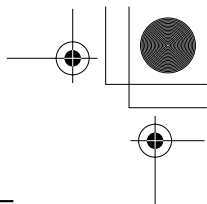
END MINOR REPAIR

EAU17620

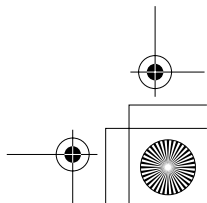
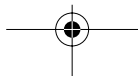
you are riding in unusually wet or dusty areas.

caliper cylinder, always replace the brake fluid. Check the brake fluid level

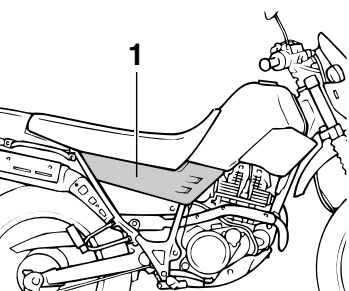
the master cylinder and caliper cylinder every two years.
or if cracked or damaged.



6-8



PERIODIC MAINTENANCE AND MINOR REPAIR



To install the cowling

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

EAU19292

Panels A and B

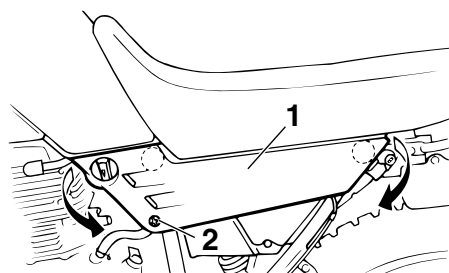
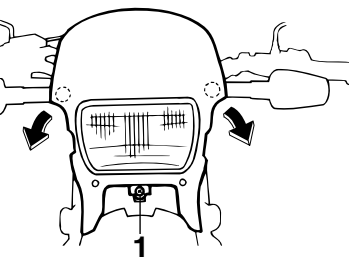
To remove one of the panels

Remove the screw, and then pull the panel off as shown.

B

EAU18810

g A
To remove the cowling, remove the screw, and then pull the panel off as shown.



6

- 1. Panel A
- 2. Screw

6-9

AND MINOR REPAIR

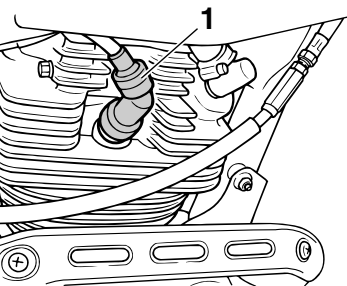
EAU19602

ing the spark plug

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

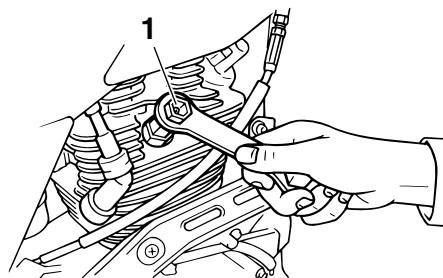
Remove the spark plug

Remove the spark plug cap.



Remove the spark plug cap

Remove the spark plug as shown, using the spark plug wrench included in the owner's tool kit.



1. Spark plug wrench

To check the spark plug

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

NOTE:

If the spark plug shows a distinctly different color, the engine could be defective. Do not attempt to diagnose such problems yourself. Instead, have a Yamaha dealer check the vehicle.

2. Check the spark plug for electrode erosion and excessive carbon or other deposits, and replace it if

PERIODIC MAINTENANCE AND MINOR REPAIR

Install the spark plug with the spark plug wrench, and then tighten it to the specified torque.

Tightening torque:

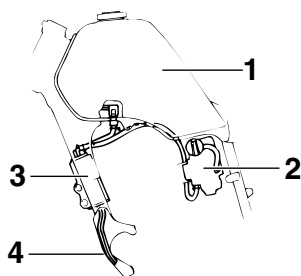
Spark plug:
17.5 Nm (1.75 m·kgf, 12.5 ft·lbf)

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

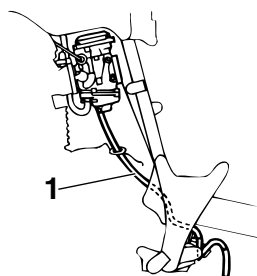
Install the spark plug cap.

Canister (for California only)

EAU19671



1. Fuel tank
2. Carburetor
3. Canister
4. Vent hose



1. Overflow hose

This model is equipped with a canister to prevent the discharging of fuel vapor

END MINOR REPAIR

Check the oil and oil filter element

The engine oil level should be checked at each ride. In addition, the oil should be changed and the oil filter element cleaned at the intervals specified in the general maintenance and lubrication chart.

Check the engine oil level

Place the vehicle on a level surface and hold it in an upright position.

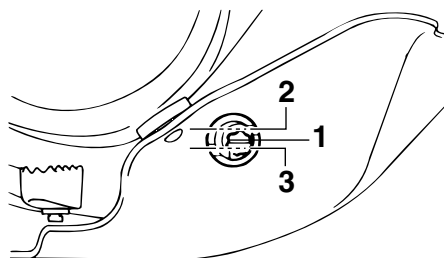
Ensure that the vehicle is positioned upright when checking the oil level. Tilting the vehicle to the side can result in an incorrect reading.

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

Wait a few minutes until the oil settles, and then check the oil level through the check window located on the bottom right side of the engine guard.

NOTE:

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



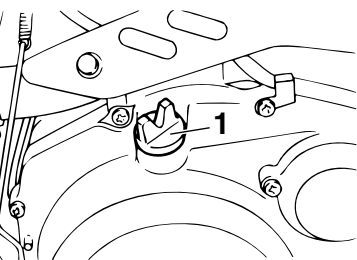
1. Engine oil level check window
2. Maximum level mark
3. Minimum level mark

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.

To change the engine oil (with or without oil filter element cleaning)

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.

PERIODIC MAINTENANCE AND MINOR REPAIR



Remove the oil filler cap

ECA11000

NOTE:

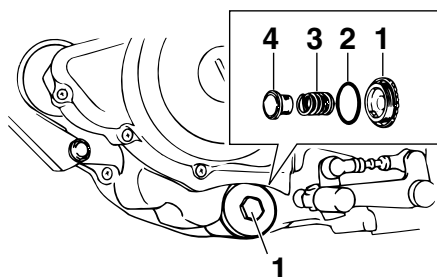
When removing the engine oil drain the O-ring, compression spring and oil strainer will fall out. Do not lose these parts.

Inspect the O-ring for damage and replace if necessary.

Clean the engine oil strainer with a wire brush.

Follow steps 6–11 if the oil filter element is being cleaned.

6. Remove the oil filter element drain bolt to drain the oil from the oil filter element.



1. Engine oil drain bolt
 2. O-ring
 3. Compression spring
 4. Oil strainer
7. Remove the oil filter element cover by removing the bolts.

6

END MINOR REPAIR

Place them if necessary.
Remove the oil filter element with solvent, and then install it.

Remove the oil filter element for damage and replace it if necessary.

Remove all the oil filter element cover by removing the bolts and drain bolt, and then tightening them to the specified torques.

Tightening torques:
Oil filter element cover bolt:
43 Nm (1.0 m·kgf, 7.2 ft·lbf)
Oil filter element drain bolt:
43 Nm (1.0 m·kgf, 7.2 ft·lbf)

Ensure that the O-ring is properly

Remove all the engine oil strainer, compression spring, O-ring and engine oil drain bolt, and then tighten the drain bolt to the specified torque.

ECA10420

CAUTION:
When installing the engine oil drain

6-14

bolt, do not forget to install the O-ring, compression spring, and oil strainer in position.

Tightening torque:
Engine oil drain bolt:
43 Nm (4.3 m·kgf, 31 ft·lbf)

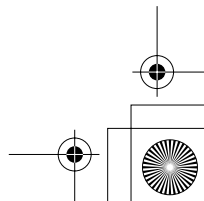
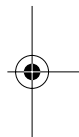
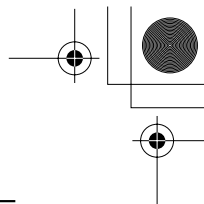
13. Add the specified amount of the recommended engine oil, and then install and tighten the oil filler cap.

Recommended oil:
See page 8-1.
Oil quantity:
Without oil filter element removal:
1.00 L (1.06 US qt) (0.88 Imp.qt)
With oil filter element removal:
1.10 L (1.16 US qt) (0.97 Imp.qt)

ECA11620

CAUTION:

- In order to prevent clutch slippage (since the engine oil also lubricates the clutch), do not mix any chemical additives. Do not use oils with a diesel specification of "CD" or oils of a higher quality than specified. In



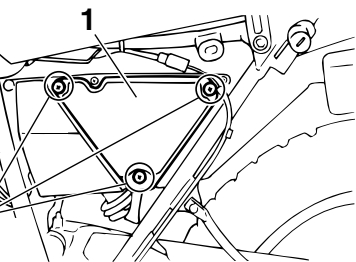
PERIODIC MAINTENANCE AND MINOR REPAIR

EAU20840

Changing the air filter element

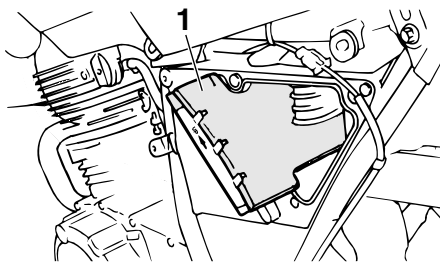
The air filter element should be cleaned at the intervals specified in the periodic maintenance and lubrication chart. Clean the air filter element more frequently if you are riding in unusually dusty areas.

1. Remove panel A. (See page 6-9.)
2. Remove the air filter case cover by removing the screws.



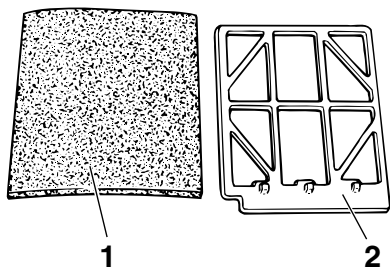
Air filter case cover

3. Pull the air filter element out from the air filter case.



1. Air filter element

4. Remove the sponge material from the air filter element frame.



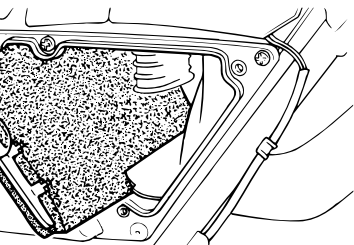
1. Sponge material

2. Air filter element frame

5. Clean the sponge material with solvent, and then squeeze the remaining solvent out.

END MINOR REPAIR

ing forward and with the “UP”
inting as shown.



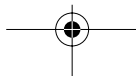
mark
ON: ECA10480

ke sure that the air filter ele-
nt is properly seated in the
filter case.

e engine should never be op-
ted without the air filter ele-
nt installed, otherwise the
ton(s) and/or cylinder(s) may
come excessively worn.

all the air filter case cover by in-
ling the screws.
all the panel.

6-16



Cleaning the spark arrester

The spark arrester should be cleaned
at the intervals specified in the Periodic
maintenance and lubrication chart.

EAU21233

EWA10980

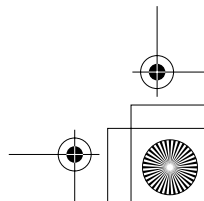
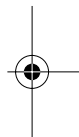
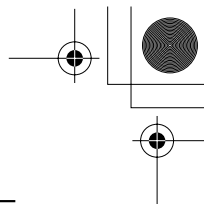
WARNING

- Always let the exhaust system cool prior to touching exhaust components.
- Do not start the engine when cleaning the exhaust system.

NOTE:

Make sure to select a well-ventilated
area free of combustible materials to
clean the spark arrester.

1. Remove the tailpipe by removing
the screw, and then pulling it out of
the muffler.



ODIC MAINTENANCE AND MINOR REPAIR

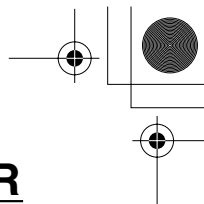
ert the tailpipe into the muffler,
d then install and tighten the
ew.

sure to align the screw holes
serting the tailpipe.

Adjusting the carburetor

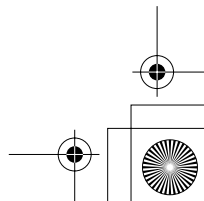
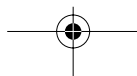
The carburetor is an important part of the engine and its emission control system, which requires very sophisticated adjustment. Therefore, carburetor adjustments should be left to Yamaha dealer, who has the necessary professional knowledge and experience.

EAU21250



6

6-17



END MINOR REPAIR

EAU21400

ing the valve clearance

re clearance changes with use, in improper air-fuel mixture engine noise. To prevent this occurring, the valve clearance adjusted by a Yamaha dealer intervals specified in the periodic ance 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

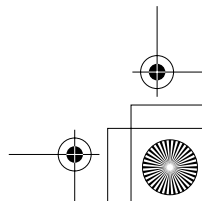
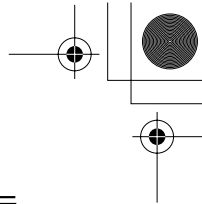
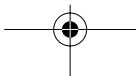
The tire air pressure should be checked and, if necessary, adjusted before each ride.

EAU21630

EWA10500

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.



PERIODIC MAINTENANCE AND MINOR REPAIR

at the total weight of rider, passenger, cargo, and accessories does not exceed the specified maximum load for the vehicle.

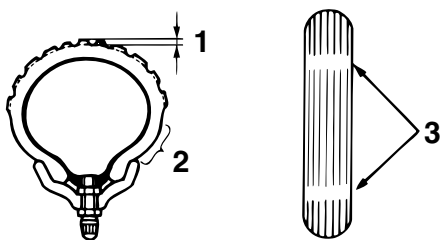
not carry along loosely packed items, which can shift during a ride.

securely pack the heaviest items close to the center of the motorcycle and distribute the weight evenly on both sides.

adjust the suspension and tire pressure with regard to the load.

check the tire condition and air pressure before each ride.

Tire inspection



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

The tires must be checked before each ride. If the tire shows crosswise lines (minimum tread depth), if the tire has a nail or glass fragments in it, or if the sidewall is cracked, have a Yamaha dealer replace the tire immediately.

Minimum tire tread depth (front and rear):
1.0 mm (0.04 in)

NOTE:

The tire tread depth limits may differ from country to country. Always comply

END MINOR REPAIR

tire:

3:
175-21 45P
Manufacturer/model:
BRIDGESTONE/TW27
CHENG SHIN/C-6006

tire:

3:
20/80-18M/C 62P
Manufacturer/model:
BRIDGESTONE/TW30
CHENG SHIN/C-6006

EWA10560

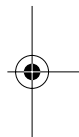
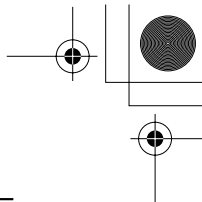
WARNING

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.

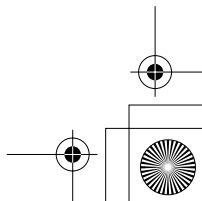
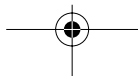
The replacement of all wheel- and brake-related parts, including the tires, should be left to a Yamaha dealer, who has the necessary professional knowledge and experience.

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.



6-20



PERIODIC MAINTENANCE AND MINOR REPAIR

Accessories and replacement

EAU22011

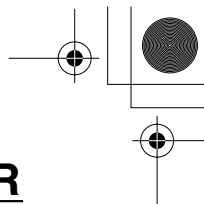
the use of items which have not been approved by Yamaha.

EWA10621

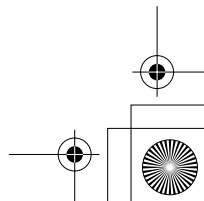
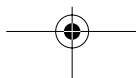
WARNING

This vehicle is not designed to pull a trailer or to be attached to a sidecar. Accessories or replacement parts you choose for your vehicle must be designed specifically for this model, and they must be securely mounted to maintain the handling stability of the original motorcycle. Genuine Yamaha Parts and Accessories are designed and tested to be compatible with your vehicle. Please consider Genuine Yamaha Parts and Accessories before making a purchase. Use of non-Yamaha-approved accessories and replacement parts may cause reduced handling stability and riding safety. Since Yamaha cannot control the quality of accessories or parts manufactured by other companies, Yamaha cannot be held liable for any consequences caused by

6-21



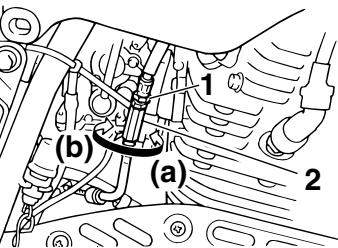
6



END MINOR REPAIR

specified clutch lever free play
obtained as described above,
the locknut and skip the rest of
cedure, otherwise proceed as

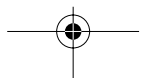
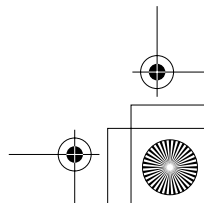
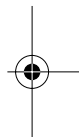
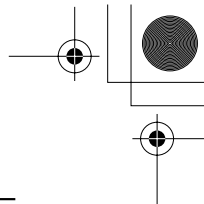
y turn the adjusting bolt at the
ch lever in direction (a) to loos-
the clutch cable.
sen the locknut at the crank-
e.



ut (crankcase)
ng nut

increase the clutch lever free
y, turn the adjusting nut in direc-
(a). To decrease the clutch le-

- ver free play, turn the adjusting nut
in direction (b).
6. Tighten the locknut at the clutch le-
ver and the crankcase.



PERIODIC MAINTENANCE AND MINOR REPAIR

Loosen the locknut.

EWA10630

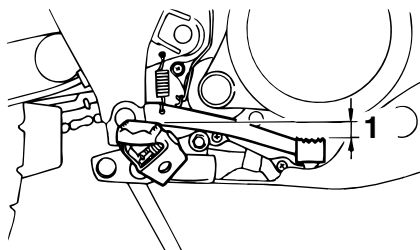
WARNING

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

EAU22191



1. Brake pedal position

EWA10670

WARNING

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

6

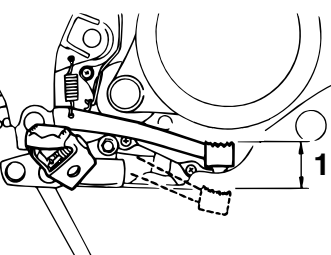
Brake pedal position

The top of the brake pedal should be positioned approximately 10.0 mm (0.39 in) below the top of the footrest. Periodically check the brake pedal position and, if necessary, adjust it as follows.

1. Loosen the locknut at the brake pedal.

END MINOR REPAIR

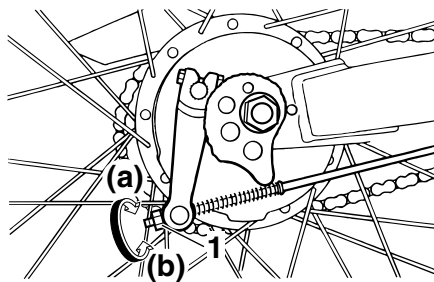
Brake pedal free play



Brake pedal free play

Brake pedal free play should measure 10–30.0 mm (0.79–1.18 in) as shown. Periodically check the brake pedal free play and, if necessary, adjust the brake pedal free play.

To increase the brake pedal free play, turn the adjusting nut at the brake rod in (a). To decrease the brake pedal free play, turn the adjusting nut in (b).



1. Brake pedal free play adjusting nut

WARNING

EWA10680

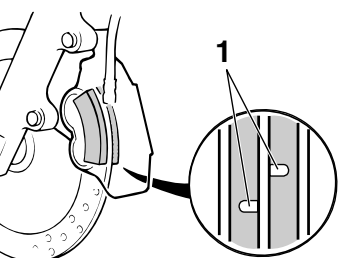
- After adjusting the drive chain slack or removing and installing the rear wheel, always check the brake pedal free play.
- If proper adjustment cannot be obtained as described, have a Yamaha dealer make this adjustment.
- After adjusting the brake pedal free play, check the operation of the brake light.

PERIODIC MAINTENANCE AND MINOR REPAIR

Checking the front brake pads and rear brake shoes

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

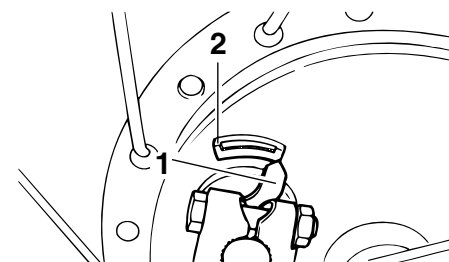


Wear indicator groove

The 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 is worn to the point that the wear

indicator groove has almost disappeared, have a Yamaha dealer replace the brake pads as a set.

Rear brake shoes



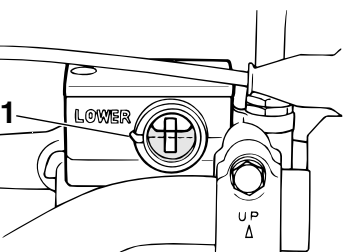
1. Wear indicator
2. Wear limit line

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

END MINOR REPAIR

Checking the brake fluid level

EAU32341



um level mark

ent brake fluid may allow air to
e brake system, possibly caus-
become ineffective.

dding, check that the brake fluid
e the minimum level mark and
n if necessary. A low brake fluid
ay indicate worn brake pads
brake system leakage. If the
id level is low, be sure to check
e pads for wear and the brake
or leakage.

these precautions:

en checking the fluid level,
ke sure that the top of the mas-

ter cylinder is level by turning the
handlebars.

- Use only the recommended quality brake fluid, otherwise the rubber seals may deteriorate, causing leakage and poor braking performance.

Recommended brake fluid:
DOT 4

- Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor braking performance.
- Be careful that water does not enter the master cylinder when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock.
- Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fluid immediately.
- As the brake pads wear, it is normal for the brake fluid level to gradually go down. However, if the

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU22720

Changing the brake fluid

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

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

EAU22760

Drive chain slack

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

EAU22770

To check the drive chain slack

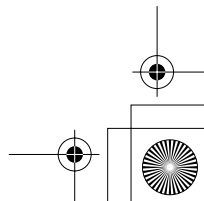
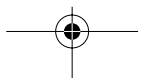
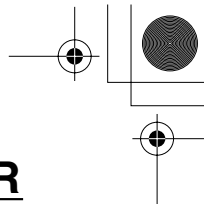
1. Place the motorcycle on a level surface and hold it in an upright position.

NOTE:

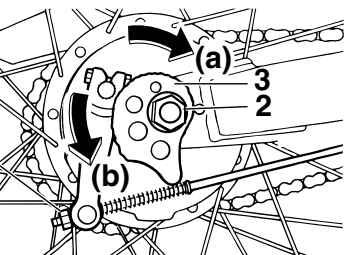
When checking and adjusting the drive chain slack, the motorcycle should be positioned straight up and there should be no weight on it.

2. Shift the transmission into the neutral position.
3. 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.

Drive chain slack:
35.0–45.0 mm (1.38–1.77 in)



END MINOR REPAIR



pedal free play adjusting nut
ut
chain slack adjusting plate

osen the axle nut.

tighten the drive chain, turn the
adjusting plate on each side of the
ngarm in direction (a). To loos-
the drive chain, turn the adjust-
plate on each side of the
ngarm in direction (b), and then
h the rear wheel forward.

ure that both adjusting plates
he same position for proper
ignment.

CAUTION:

Improper drive chain slack will over-
load 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.

4. Tighten the axle nut to the speci-
fied torque.

Tightening torque:

Axle nut:
85 Nm (8.5 m·kgf, 62 ft·lbf)

5. Adjust the brake pedal free play.
(See page 6-23.)

WARNING

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

PERIODIC MAINTENANCE AND MINOR REPAIR

ECA11110

NOTE:

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

Checking and lubricating the cables

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

Recommended lubricant:
Yamaha Chain and Cable Lube
or engine oil SAE 10W-30 (API
SE)

EWA10710

WARNING

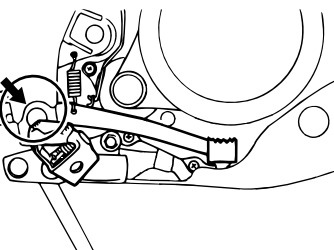
Damage to the outer housing of cables may result in internal rusting and cause interference with cable movement. Replace damaged cables as soon as possible to prevent unsafe conditions.

6

END MINOR REPAIR

Checking and lubricating the brake and shift pedals

EAU23131

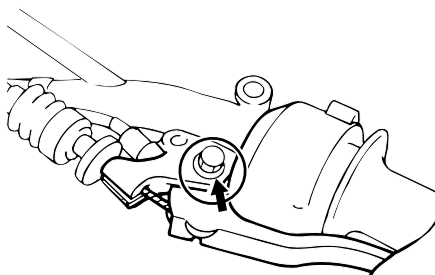


The operation of the brake and shift
pedals should be checked before each
ride, and the pedal pivots should be lu-
bricated if necessary.

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

Checking and lubricating the brake and clutch levers

EAU23140



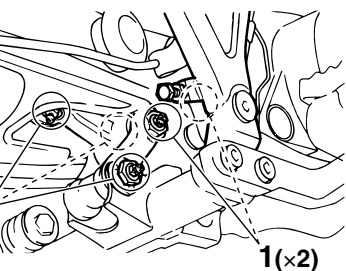
The operation of the brake and clutch
levers should be checked before each
ride, and the lever pivots should be lu-
bricated if necessary.

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

PERIODIC MAINTENANCE AND MINOR REPAIR

Lubricating the rear suspension

EAU23250



se nipple

oting points of the rear suspension must be lubricated at the intervals d in the periodic maintenance rication chart.

commended lubricant:
Lithium-soap-based grease

Checking the front fork

EAU23271

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

EWA10750

⚠ WARNING

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

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

To check the operation

1. Place the vehicle 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.

6

END MINOR REPAIR

EAU23280

ing the steering

loose steering bearings may danger. Therefore, the operation steering must be checked as fol- the intervals specified in the pe- maintenance and lubrication

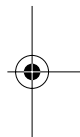
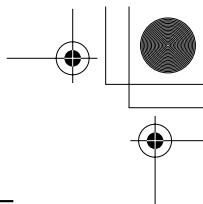
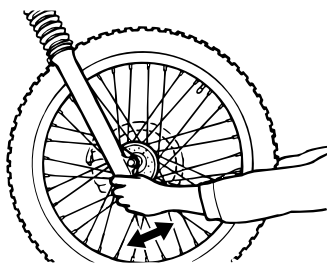
ce a stand under the engine to e the front wheel off the und.

EWA10750

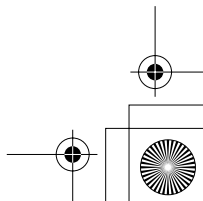
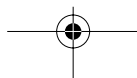
ARNING

y support the vehicle so that no danger of it falling over.

d the lower ends of the front legs and try to move them for- d and backward. If any free y can be felt, have a Yamaha ler check or repair the steering.



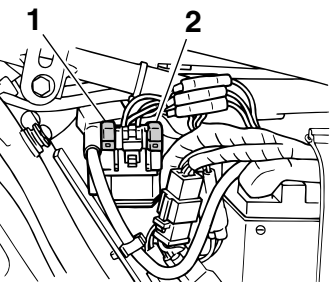
6-32



END MINOR REPAIR

Replacing the fuse

EAU23500



Specified fuse:
20.0 A

ECA10640

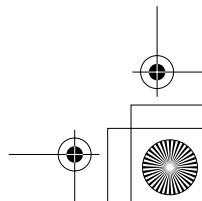
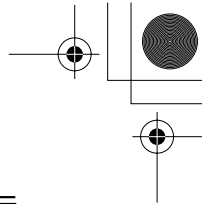
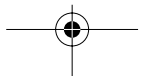
CAUTION:

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.

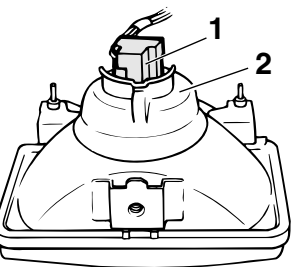
3. Turn the key to "ON" and turn on the electrical circuits to check if the devices operate.
4. If the fuse immediately blows again, have a Yamaha dealer check the electrical system.

fuse
The holder is located behind panel
(page 6-9.)
If the fuse is blown, replace it as fol-

Turn the key to "OFF" and turn off
the electrical circuits.
Remove the blown fuse, and then
install a new fuse of the specified
amperage.

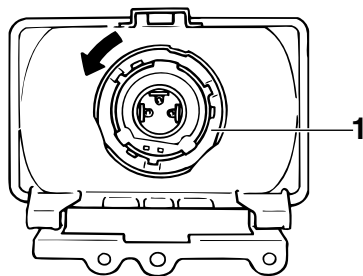


PERIODIC MAINTENANCE AND MINOR REPAIR



Light coupler
Light bulb cover

Remove the headlight bulb holder by turning it counterclockwise, and then remove the defective bulb.



1. Headlight bulb holder

EWA10790

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.

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

ECA10660

CAUTION:

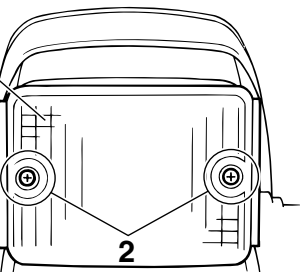
Do not touch the glass part of the headlight bulb to keep it free from oil, otherwise the transparency of the glass, the luminosity of the bulb, and the bulb life will be adversely af-

END MINOR REPAIR

EAU24131

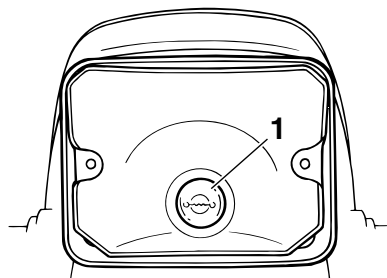
Changing the tail/brake light

Remove the tail/brake light lens by removing the screws.



tail/brake light lens

Remove the defective bulb by turning it in and turning it counter-clockwise.



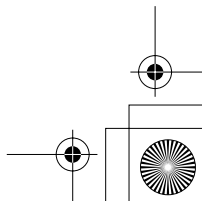
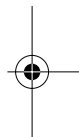
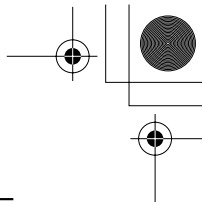
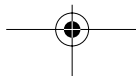
1. Tail/brake light bulb

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.

ECA10680

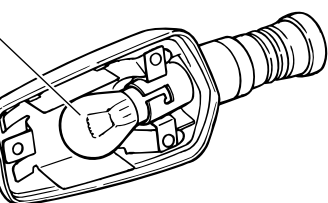
CAUTION:

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



PERIODIC MAINTENANCE AND MINOR REPAIR

EAU24350



signal light bulb

Insert a new bulb into the socket, push it in, and then turn it clockwise until it stops.

Install the lens by installing the new.

ECA11190

CAUTION:

Do not overtighten the screw, otherwise the lens may break.

Supporting the motorcycle

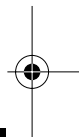
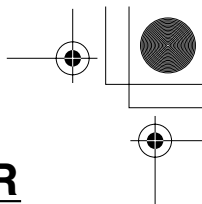
Since this model is not equipped with a centerstand, follow these precautions when removing the front and rear wheel or performing other maintenance requiring the motorcycle to stand upright. Check that the motorcycle is in a stable and level position before starting any maintenance. A strong wooden 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.

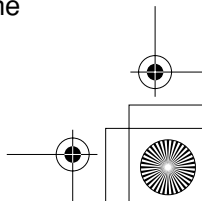
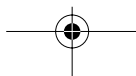
To service the rear wheel

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



6

6-37



END MINOR REPAIR

Wheel

EAU24360

Remove the front wheel

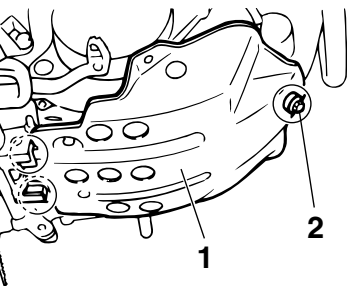
EAU24690

EWA10820

WARNING

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

Remove the engine guard by removing the bolt.

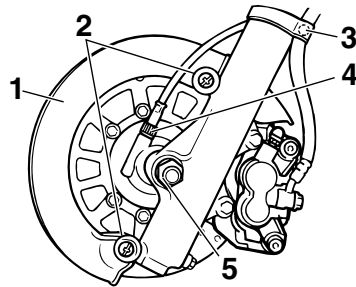


Engine guard

Remove the brake disc cover by removing the screws.

6-38

3. Remove the speedometer cable holder by removing the screw.
4. Disconnect the speedometer cable from the front wheel.
5. Remove the axle nut.



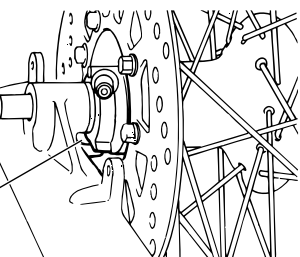
1. Brake disc cover
2. Screw
3. Speedometer cable holder
4. Speedometer cable
5. Axle nut
6. Lift the front wheel off the ground according to the procedure on page 6-37.
7. Pull the wheel axle out, and then remove the wheel.

ECA11070

CAUTION: Do not apply the brake after the

PERIODIC MAINTENANCE AND MINOR REPAIR

on the fork leg.



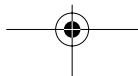
her
 ert the wheel axle, and then in-
 ll the axle nut.
 ver the front wheel so that it is
 the ground.
 hten the axle nut to the speci-
 d torque.

Tightening torque:
 e nut:
 35 Nm (8.5 m·kgf, 62 ft·lbf)

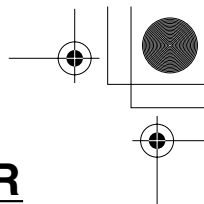
nnect the speedometer cable,
 d then install the speedometer
 ole holder by installing the
 ew.

tall the brake disc cover by in-

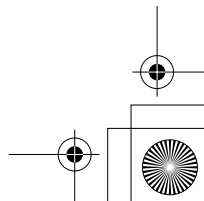
6-39



stalling the screws.
 8. Install the engine guard by install-
 ing the bolt.

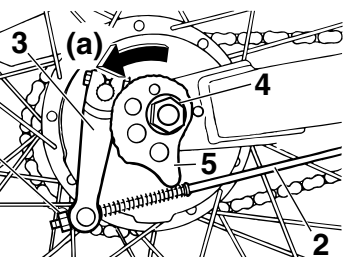


6



END MINOR REPAIR

brake rod from the brake cam-
ft lever.



pedal free play adjusting nut
rod
camshaft lever
ut
adjusting plate

sen the axle nut.

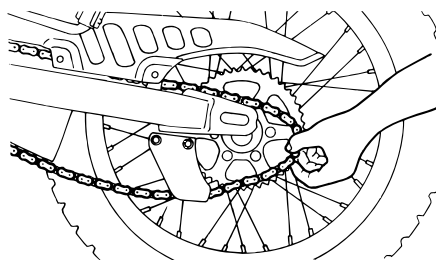
n the drive chain adjusting
e on each side of the swingarm
r in direction (a).

the rear wheel off the ground
ording to the procedure on
e 6-37.

move the axle nut.

h the wheel forward, and then
ove the drive chain from the
r sprocket.

6-40



NOTE:

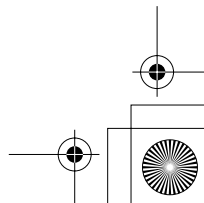
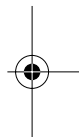
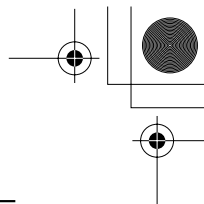
The drive chain does not need to be
disassembled in order to remove and
install the wheel.

8. Pull the wheel axle out, and then
remove the wheel.

To install the rear wheel

1. Insert the wheel axle from the
left-hand side.

EAU25791



PERIODIC MAINTENANCE AND MINOR REPAIR

Tightening torque:

Lock nut:
35 Nm (8.5 m·kgf, 62 ft·lbf)

Install the brake rod onto the brake
crankshaft lever, and then install the
brake pedal free play adjusting nut
onto the brake rod.

Adjust the brake pedal free play.
(See page 6-23.)

EWA10660

WARNING

Adjusting the brake pedal free
play checks the operation of the
brake light.

Install the engine guard by install-
ing the bolt.

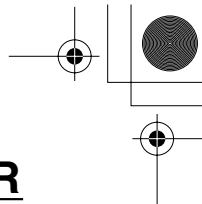
Troubleshooting

Although Yamaha motorcycles receive
a thorough inspection before shipment
from the factory, trouble may occur dur-
ing 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 your-
self. 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.

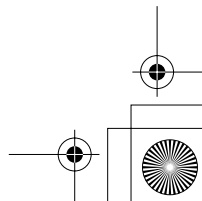
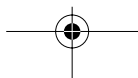
Use only genuine Yamaha replace-
ment parts. Imitation parts may look like
Yamaha parts, but they are often inferi-
or, have a shorter service life and can
lead to expensive repair bills.

EAU25850



6

6-41

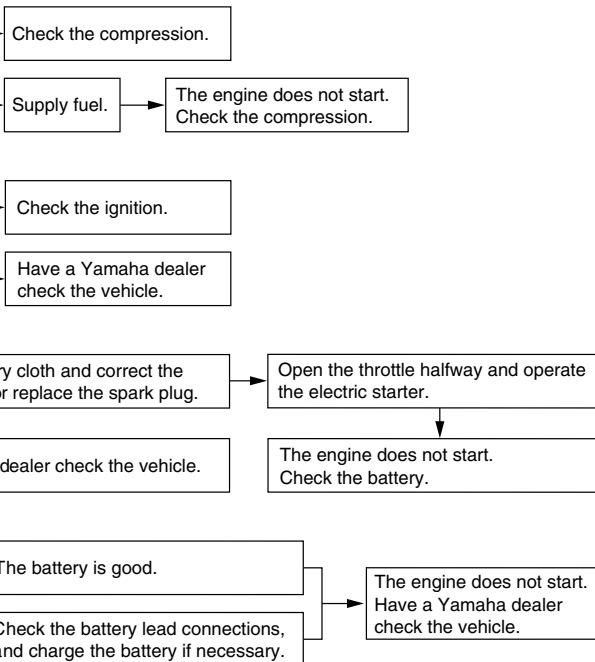


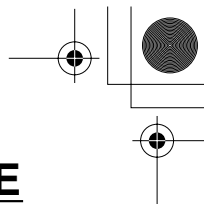
END MINOR REPAIR

EAU25901

EWA10840

le checking or working on the fuel system.





MOTORCYCLE CARE AND STORAGE

ish, but never apply such prod-
s onto seals, gaskets, sprock-
, the drive chain and wheel
es. Always rinse the dirt and de-
raser off with water.

ng

ECA10770

ON:

oid using strong acidic wheel
aners, especially on spoked
eels. If such products are
ed on hard-to-remove dirt, do
t leave the cleaner on the af-
ted area any longer than in-
ucted. Also, thoroughly rinse
e area off with water, immedi-
ly dry it, and then apply a cor-
sion protection spray.

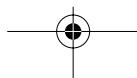
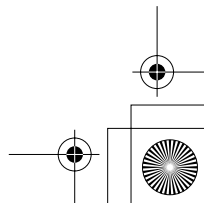
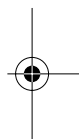
proper cleaning can damage
ndshields, cowlings, panels
d other plastic parts. Use only
soft, clean cloth or sponge
h mild detergent and water to
an plastic.

not use any harsh chemical
products on plastic parts. Be
re to avoid using cloths or

sponges which have been in
contact with strong or abrasive
cleaning products, solvent or
thinner, fuel (gasoline), rust re-
movers or inhibitors, brake flu-
id, antifreeze or electrolyte.

- Do not use high-pressure wash-
ers or steam-jet cleaners since
they cause water seepage and
deterioration in the following ar-
eas: 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 com-
pounds for plastic may leave
scratches on the windshield.
Test the product on a small hid-
den part of the windshield to
make sure that it does not leave

7



TORAGE

and a mild detergent, after the engine has cooled down.

ECA10790

CAUTION: Use warm water since it in-
creases the corrosive action of the

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

Cleaning

Clean the motorcycle with a chamois or an absorbing cloth.

Immediately dry the drive chain and lubricate it to prevent it from rusting.

Use a chrome polish to shine chrome, aluminum and stainless-steel parts, including the exhaust system. (Even the thermally induced discoloring of stainless-steel exhaust systems can be removed through polishing.)

To prevent corrosion, it is recommended to apply a corrosion pro-

tection 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.

EWA10930

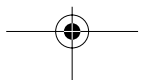
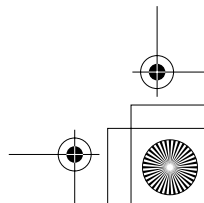
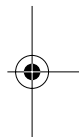
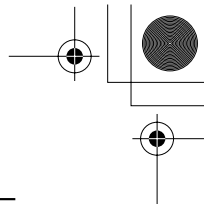
WARNING

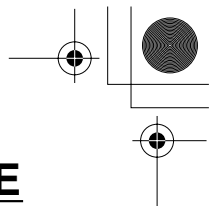
- **Make sure that there is no oil or wax on the brakes or tires. If necessary, clean the brake discs and brake linings with a regular brake disc cleaner or acetone, and wash the tires with warm water and a mild detergent.**
- **Before operating the motorcycle test its braking performance and cornering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

ECA10800

CAUTION:

- **Apply spray oil and wax spar-**





MOTORCYCLE CARE AND STORAGE

EAU26150

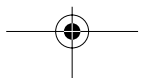
ge
term
Store your motorcycle in a cool, dry place and, if necessary, protect it from dust with a porous cover.

ECA10810

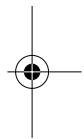
ON: _____
Storing the motorcycle in a poorly ventilated room or covering it with a tarp, while it is still outdoors, will allow water and humidity to seep in and cause rust. To prevent corrosion, avoid damp cellars, stables (because of the presence of ammonia) and areas where strong chemicals are stored.

term
When storing your motorcycle for several months:
Follow all the instructions in the "Care" section of this chapter.
For motorcycles equipped with a fuel cock that has an "OFF" position: Turn the fuel cock lever to "OFF".

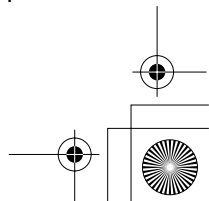
7-3



3. Drain the carburetor float chamber by loosening the drain bolt; this will prevent fuel deposits from building up. Pour the drained fuel into the fuel tank.
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 cylinder, piston rings, etc. from corrosion.
 - a. Remove the spark plug cap and spark plug.
 - b. Pour a teaspoonful of engine oil into the spark plug bore.
 - c. Install the spark plug cap onto the spark plug, and then place the spark plug on the cylinder head so that the electrodes are grounded. (This will limit sparking during the next step.)
 - d. Turn the engine over several times with the starter. (This will coat the cylinder wall with oil.)
 - e. Remove the spark plug cap



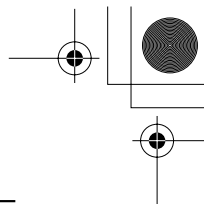
7



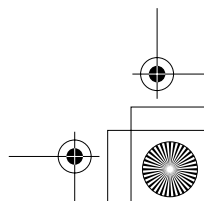
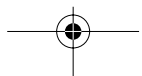
STORAGE

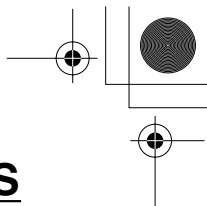
...ce and charge it once a month.
...not store the battery in an ex-
...sively cold or warm place
...s than 0 °C (30 °F) or more
...n 30 °C (90 °F)]. For more in-
...nation on storing the battery,
...page 6-33.

...ny necessary repairs before
...he motorcycle.



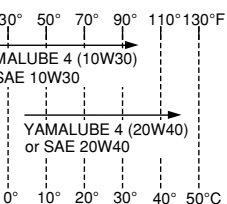
7-4





SPECIFICATIONS

oil:
MALUBE 4, SAE10W30 or SAE20W40



Recommended engine oil grade:
service SE, SF, SG type or higher

oil quantity:
Oil filter element removal:
Oil L (1.06 US qt) (0.88 Imp.qt)
Oil filter element removal:
Oil L (1.16 US qt) (0.97 Imp.qt)

Oil:
Oil element:
Oil element

Recommended fuel:
Leaded gasoline only
Tank capacity:
Oil L (2.32 US gal) (1.94 Imp.gal)
Reserve amount:
Oil L (0.53 US gal) (0.44 Imp.gal)

Motor:
Manufacturer:
UNI

Type x quantity:
BST34 x 1

Spark plug(s):

Manufacturer/model:
NGK/DR8EA
Manufacturer/model:
DENSO/X24ESR-U
Spark plug gap:
0.6–0.7 mm (0.024–0.028 in)

Clutch:

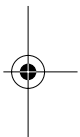
Clutch type:
Wet, multiple-disc

Transmission:

Primary reduction system:
Spur gear
Primary reduction ratio:
73/22 (3.318)
Secondary reduction system:
Chain drive
Secondary reduction ratio:
45/15 (3.000)
Transmission type:
Constant mesh 6-speed
Operation:
Left foot operation

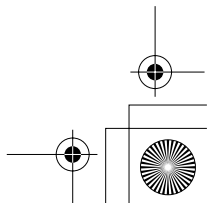
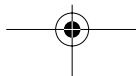
Gear ratio:

1st:
34/11 (3.090)
2nd:
30/15 (2.000)
3rd:
30/21 (1.428)



8

8-1



g:
um load:
kg (403 lb)
l weight of rider, passenger, cargo
accessories)
pressure (measured on cold

g condition:
0 kg (0–198 lb)

kPa (18 psi) (1.25 kgf/cm²)

kPa (22 psi) (1.50 kgf/cm²)

g condition:
83 kg (198–403 lb)

kPa (22 psi) (1.50 kgf/cm²)

kPa (25 psi) (1.75 kgf/cm²)

heel:

type:
ke wheel
e:
.60

heel:

type:
ke wheel
e:
.15

ake:

le disc brake

8-2

Operation:
Right hand operation
Recommended fluid:
DOT 4

Rear brake:

Type:
Drum brake
Operation:
Right foot operation

Front suspension:

Type:
Telescopic fork
Spring/shock absorber type:
Coil spring/oil damper
Wheel travel:
225.0 mm (8.86 in)

Rear suspension:

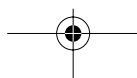
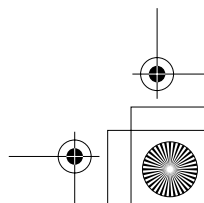
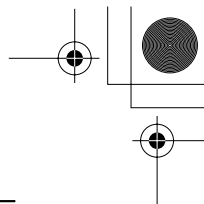
Type:
Swingarm (link suspension)
Spring/shock absorber type:
Coil spring/gas-oil damper
Wheel travel:
190.0 mm (7.48 in)

Electrical system:

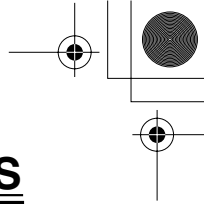
Ignition system:
C.D.I.
Charging system:
A.C. magneto

Battery:

Model:
GT6B-3
Voltage, capacity:
12 V, 6.0 Ah

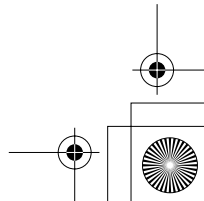
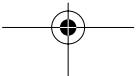


SPECIFICATIONS



8

8-3

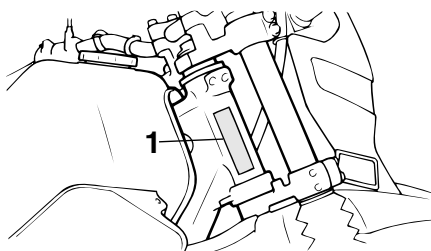
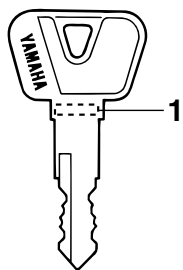


Identification number

EAU26390

Vehicle identification number

EAU26400



Identification number

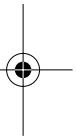
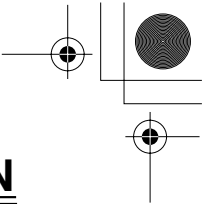
The key identification number is stamped into the key. Record this number in the space provided and use it for reference when ordering a new key.

1. Vehicle identification number

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

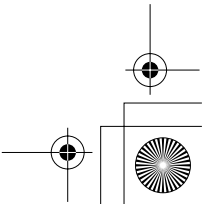
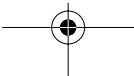
NOTE: _____
The vehicle identification number is used to identify your motorcycle and may be used to register your motorcycle with the licensing authority in your area.

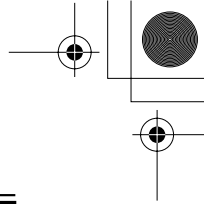
CONSUMER INFORMATION



9

9-2



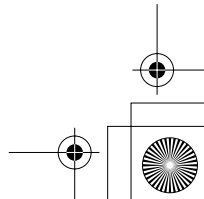
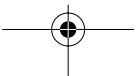


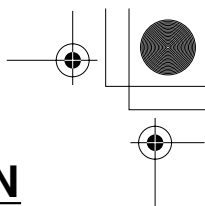
EAU26550

could cause a crash or could cause injury or death, you should immediately
nistration (NHTSA) in addition to notifying Yamaha Motor Corporation,
y open an investigation, and if it finds that a safety defect exists in a group
paign. However, NHTSA cannot become involved in individual problems
oration, U.S.A.
afety Hotline toll-free at 1-800-424-9393 (or 366-0123 in Washington, D.C.
sportation, Washington, D.C. 20590. You can also obtain other information



9-3





CONSUMER INFORMATION

EAU26560

PROHIBITED:

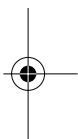
...ing thereof: (1) The removal or rendering inoperative by any person other
...ement of any device or element of design incorporated into any new ve-
...le or delivery to the ultimate purchaser or while it is in use or (2) the use of
... has been removed or rendered inoperative by any person.
...STITUTE TAMPERING ARE THE ACTS LISTED BELOW".
...ystems; i.e., modification, removal, etc.

Exhaust system

- Muffler
- Exhaust pipe
- Silencer

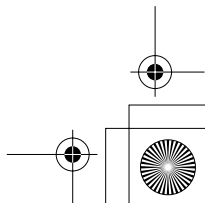
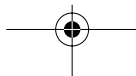
Intake system

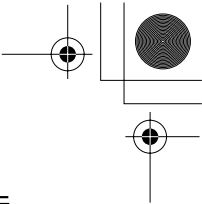
- Air cleaner case
- Air cleaner element
- Intake duct



9

9-4

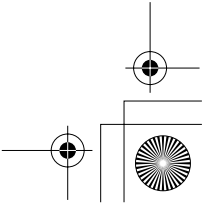
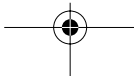


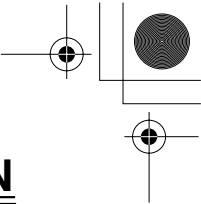


EAU26611

chased and installed on your motorcycle will be required to document that with the emissions warranty. The chart below is printed only as a reminder of proof of maintenance work.

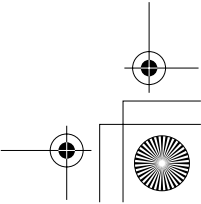
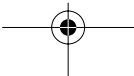
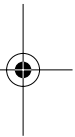
Mileage	Servicing dealer name and address	Remarks

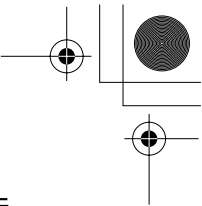




CONSUMER INFORMATION

Mileage	Servicing dealer name and address	Remarks





EAU26661

U.S.A. STREET AND ENDURO MOTORCYCLE LIMITED

OWNER'S RESPONSIBILITY under this warranty shall be to:

- operate and maintain the motorcycle as specified in the appropriate Owner's Manual, and
- give notice to an authorized Yamaha motorcycle dealer of any and all apparent defects within ten days after discovery, and make the machine available at that time for inspection and repairs at the dealer's place of business.

WARRANTY TRANSFER: To transfer the warranty to the original purchaser to any subsequent purchaser it is imperative that the machine be inspected and registered for warranty by an authorized Yamaha motorcycle dealer. In order for this warranty to remain valid, this inspection and registration must take place within ten (10) days after transfer. An inspection and registration fee will be charged for this service.

WARRANTY CONTROL SYSTEM WARRANTY

Yamaha Motor Corporation, U.S.A. also warrants to the original purchaser and each subsequent purchaser of a Yamaha motorcycle covered by this warranty a displacement of 50cc or greater, that the vehicle is designed, built, and equipped so as to conform to the requirements of sale with all U.S. emissions standards in effect at the time of manufacture and that it is free from defects in materials and workmanship which would cause it not to meet these standards within the time periods listed immediately below. Failure other than resulting from defects in material or workmanship which arise solely as a result of owner abuse or lack of proper maintenance are not covered by this warranty.

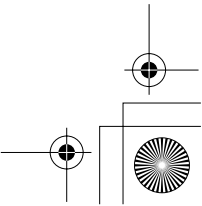
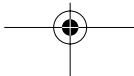
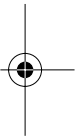
ENGINE DISPLACEMENT	PERIOD
50cc to 169cc	12,000 km (7,465 miles) or five years, whichever occurs first
170cc to 279cc	18,000 km (11,185 miles) or five years, whichever occurs first
280cc or over	30,000 km (18,641 miles) or five years, whichever occurs first

YAMAHA MOTOR CORPORATION, U.S.A. MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS AND TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY YAMAHA MOTOR CORPORATION, U.S.A. AND EXCLUDED FROM THIS WARRANTY.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. ALSO EXCLUDED FROM THIS WARRANTY ARE ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING LOSS OF USE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

YAMAHA MOTOR CORPORATION, U.S.A.
P.O. Box 6555
Cypress, California 90630





CONSUMER INFORMATION

CUSTOMER SERVICE

If your machine requires warranty service, you must take it to any authorized Yamaha Motorcycle dealer within the continental United States. Be sure to bring your warranty registration card or other valid proof of the original date of purchase. If a question or problem arises regarding warranty, first contact the owner of the dealership. Since all warranty matters are handled at the dealer level, this person is in the best position to help you. If you are still not satisfied and require additional assistance, please write:

YAMAHA MOTOR CORPORATION U.S.A.
CUSTOMER RELATIONS DEPARTMENT
P.O. Box 6555
Cypress, California 90630

When contacting Yamaha Motor Corporation, U.S.A. don't forget to include any important information such as names, addresses, model, V.I.N. (frame number), dates, and receipts.

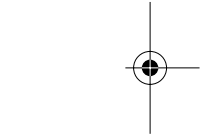
CHANGE OF ADDRESS

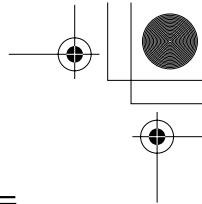
The federal government requires each manufacturer of a motor vehicle to maintain a complete, up-to-date list of all first purchasers against the possibility of a safety-related defect and recall. This list is compiled from the purchase registrations sent to Yamaha Motor Corporation, U.S.A. by the selling dealer at the time of your purchase.

If you should move after you have purchased your new motorcycle, please advise us of your new address by sending a postcard listing your motorcycle model name, V.I.N. (frame number), dealer number (or dealer's name) as it is shown on your warranty card, your name and new mailing address. Mail to:

YAMAHA MOTOR CORPORATION, U.S.A.
P.O. Box 6555
Cypress, California 90630
Attention: Warranty Department

This will ensure that Yamaha Motor Corporation, U.S.A. has an up-to-date registration record in accordance with federal law.





EAU26750

warranty
(Y.E.S.).
Yamaha Motor
action. You
for extra

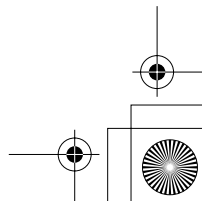
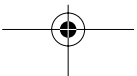
s right for
on certain
period.

the same
– and it
its. There
limited to
her plans.
t like the
r Yamaha
d factory-

d repairs.
rs aren't
expenses

- In addition, Travel and Recreation Interruption Protection (TRIP) is included at no extra cost. TRIP gives you up to \$150 reimbursement per occurrence for any reasonable expenses you incur because your Yamaha needs covered service: replacement vehicle rental, emergency towing, phone calls, even food and lodging when you are away from home. This superb coverage goes into effect when you purchase Y.E.S., so it applies to any warranty repairs as well as covered repairs during your entire Y.E.S. plan period.
- Y.E.S. coverage is honored at any authorized Yamaha dealer nationwide.
- Y.E.S. coverage is transferable to a new owner if you sell or trade-in. That can make your Yamaha much more valuable!

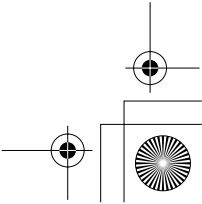
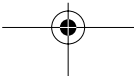
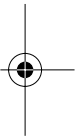
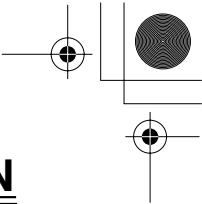
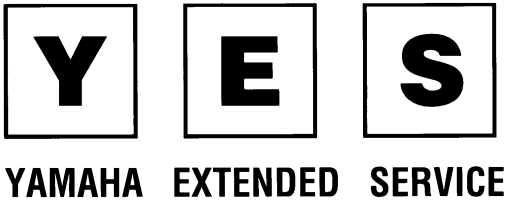
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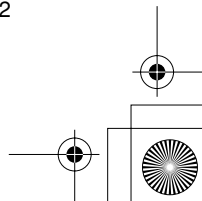
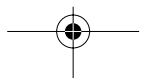
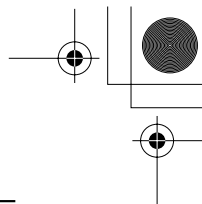
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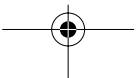
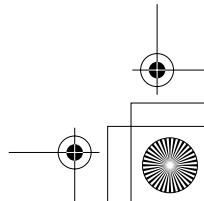
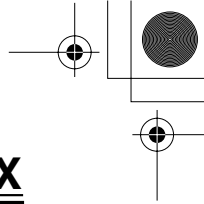


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