




OWNER'S MANUAL

XT

XT225S
XT225SC

LIT-11626-17-31

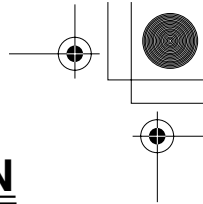
5RK-28199-12

 **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



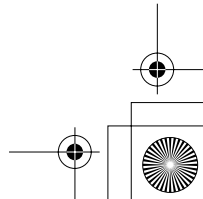
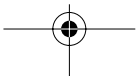
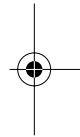
INTRODUCTION

EAU10080

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

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

motorcycle fully comply with the emissions standards for clean air applicable in your area. Yamaha motorcycles are designed to meet the latest emissions standards without reducing the performance or economy of operation of the motorcycle. It is important that you and your Yamaha dealer pay close attention to the operating instructions contained within this manual.



FORMATION

n this manual by the following notations:

means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

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

special precautions that must be taken to avoid damage to the motorcycle.

ation to make procedures easier or clearer.

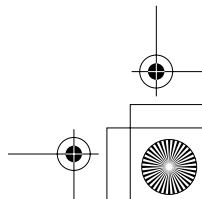
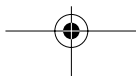
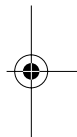
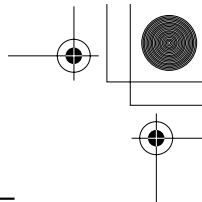
nt part of this motorcycle and should remain with it even if the motorcycle

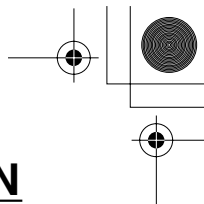
product design and quality. Therefore, while this manual contains the most
e of printing, there may be minor discrepancies between your motorcycle
ncerning this manual, please consult your Yamaha dealer.

**AND YOUR MOTORCYCLE: RIDING TIPS” BOOKLET CAREFULLY
S MOTORCYCLE. DO NOT ATTEMPT TO OPERATE THIS MOTORCYCLE
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

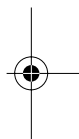




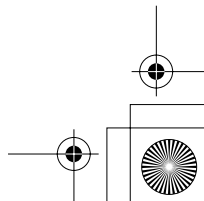
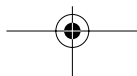
IMPORTANT MANUAL INFORMATION

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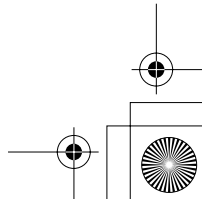
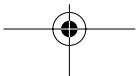
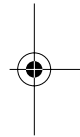
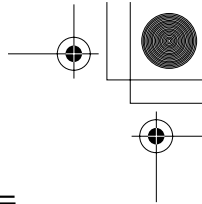
AFFIX DEALER
LABEL HERE



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OWNER'S MANUAL**
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P/N LIT-11626-17-31



OPERATION CHECKS	4-1	Cleaning the spark arrester	6-16
Operation check list	4-2	Adjusting the carburetor	6-17
OPERATION AND IMPORTANT		Adjusting the throttle cable free	
POINTS	5-1	play	6-17
Starting and warming up a cold		Adjusting the valve	
engine	5-1	clearance	6-18
Starting a warm engine	5-2	Tires	6-18
Starting	5-2	Spoke wheels	6-20
Engine break-in	5-4	Accessories and replacement	
Starting	5-4	parts	6-21
PERIODIC MAINTENANCE AND		Adjusting the clutch lever free	
REPAIR	6-1	play	6-21
PERIODIC MAINTENANCE	6-1	Adjusting the brake lever free	
Owner's tool kit	6-1	play	6-22
Periodic maintenance chart for the		Adjusting the brake pedal	
transmission control system	6-3	position and free play	6-23
General maintenance and		Adjusting the rear brake light	
lubrication chart	6-5	switch	6-24
Removing and installing the		Checking the front brake pads	
engine and panels	6-9	and rear brake shoes	6-25
Replacing the spark plug	6-10	Checking the brake fluid	
Oil (for California only) ...	6-11	level	6-25
Changing the oil and oil filter		Changing the brake fluid	6-26
Oil	6-12	Drive chain slack	6-27
Changing the air filter		Lubricating the drive chain	6-28
Oil	6-15	Checking and lubricating the	
		cables	6-29



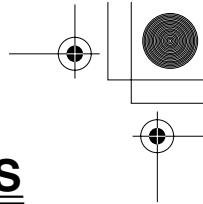
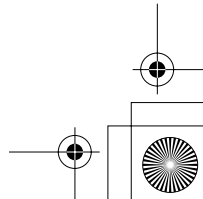
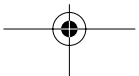
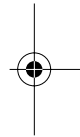


TABLE OF CONTENTS

RCYCLE CARE AND	
GE	7-1
.....	7-1
ge	7-3
FICATIONS	8-1
UMER INFORMATION	9-1
fication numbers	9-1
rting safety defects	9-3
ycle noise regulation	9-4
enance record	9-5
AHA MOTOR	
RPORATION, U.S.A.	
EET AND ENDURO	
TORCYCLE LIMITED	
RRANTY	9-7
AHA EXTENDED	
VICE (Y.E.S.)	9-9



RY BY MECHANICAL CONDI-
NS.

ing

ays make pre-operation
cks. Careful checks may help
vent an accident.

s motorcycle is designed to car-
ne operator and a passenger.

failure of motorists to detect
recognize motorcycles in traf-
s the predominating cause of
omobile/motorcycle accidents.

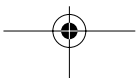
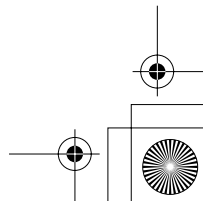
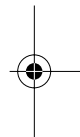
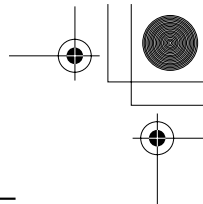
ny accidents have been caused
an automobile driver who did
see the motorcycle. Making
rself conspicuous appears to
very effective in reducing the
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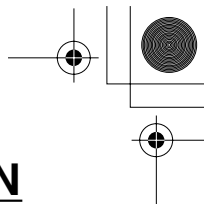
efore:

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 injury. 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. Do not ride with your unprotected eyes. This could contribute to an impairment of vision that could delay seeing a hazard.

The use of a jacket, heavy boots, knee pads, 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, arms, 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.

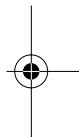
Loading and accessories

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:

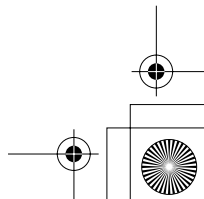
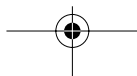
Loading

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.

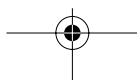
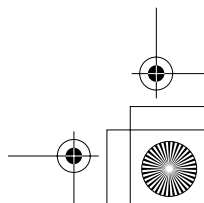
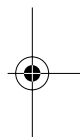
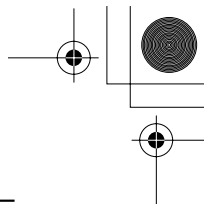
Keep the following guidelines in mind, as those provided under "Load-Carrying Capacity" and "Mounting Accessories".

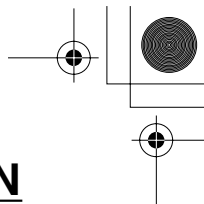
Never install accessories or carry loads that would impair the performance of your motorcycle. Carefully inspect the accessory before installing it to make sure that it does not in any way reduce ground clearance or cornering clearance, restrict suspension travel, steering control or control operation,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

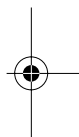
Do not park the motorcycle near a flammable source (e.g., a kerosene heater, or near an open flame), otherwise it could catch fire.

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 "OFF" (for vacuum type)/"OFF" (for manual type). If the motorcycle should lean over, gasoline may leak out of the carburetor or fuel tank.

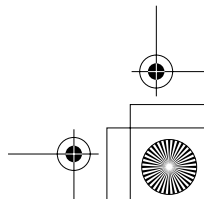
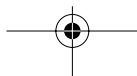
You should swallow any gasoline, inhale a lot of gasoline vapor, allow gasoline to get into your

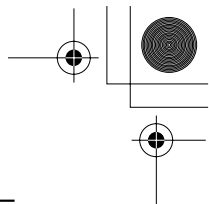
eyes, see your doctor immediately. If any gasoline spills on your skin or clothing, immediately wash the affected area with soap and water and change your clothes.

1



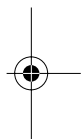
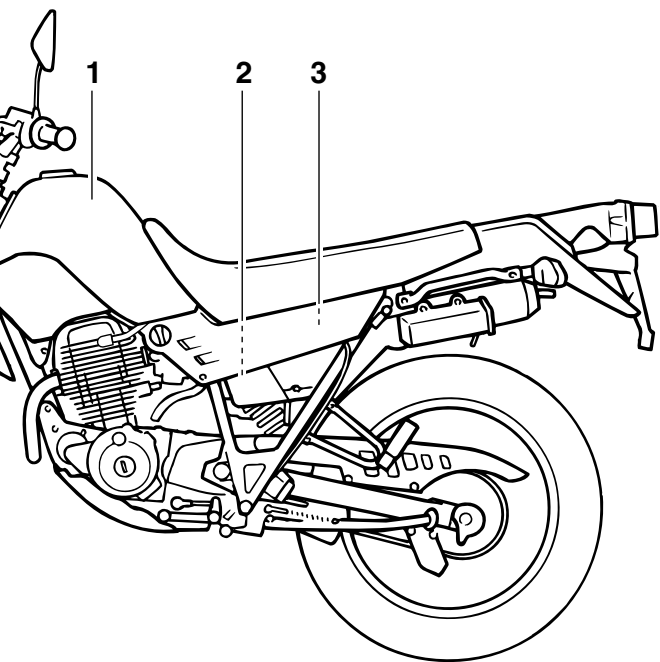
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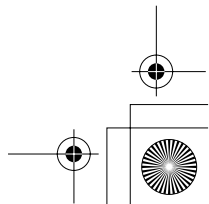
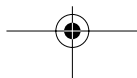


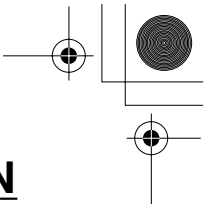
EAU10381

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.

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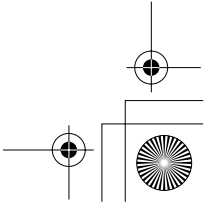
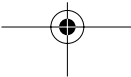
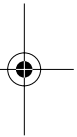


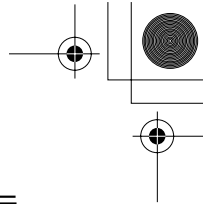
4

TIRE INFORMATION

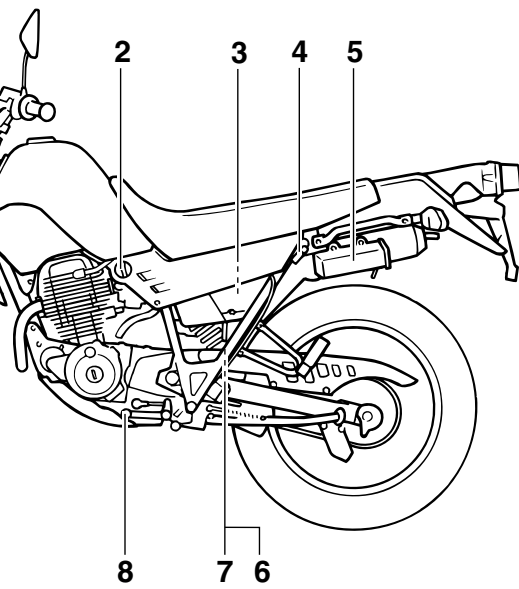
Cold tire normal pressure should be set as follows.
● Up to 90kg (198 lbs) load
FRONT : 125 kPa, {1.25 kgf/cm²}, 18 psi
REAR : 150 kPa, {1.50 kgf/cm²}, 22 psi
● 90kg (198 lbs) ~ maximum load
FRONT : 150 kPa, {1.50 kgf/cm²}, 22 psi
REAR : 175 kPa, {1.75 kgf/cm²}, 25 psi

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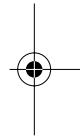




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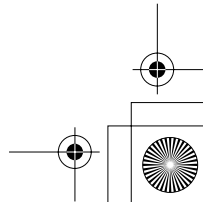
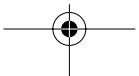


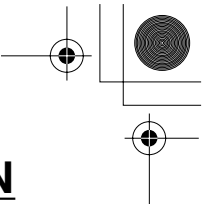
8. Shift pedal (page 3-4)



age 3-9)
ng dial

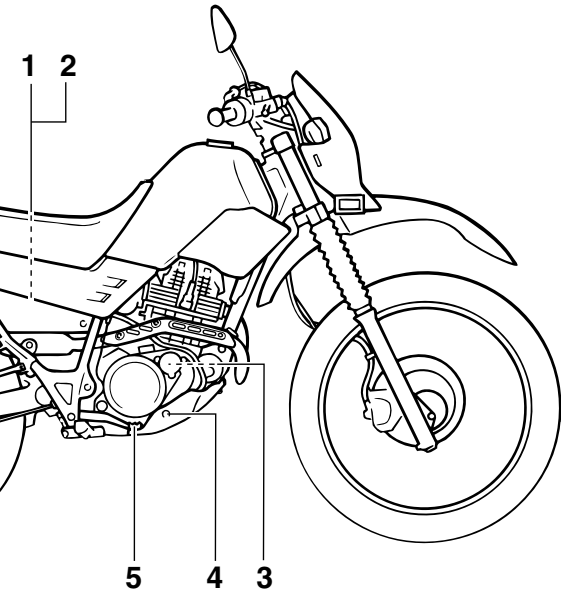
2-1



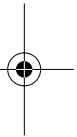


DESCRIPTION

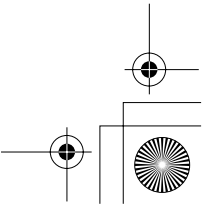
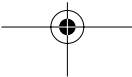
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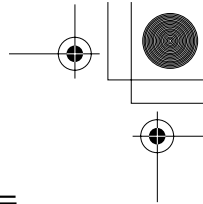


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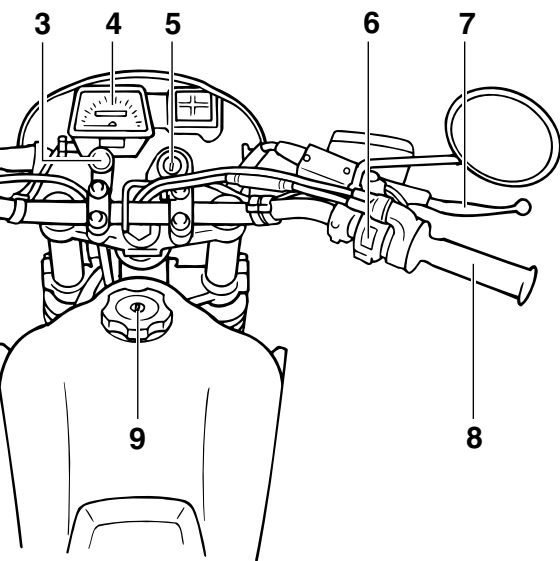


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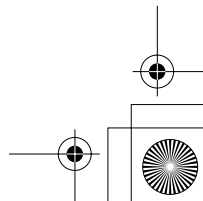
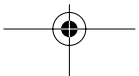


EAU10430



9. Fuel tank cap (page 3-5)

2-3



INSTRUMENT AND CONTROL FUNCTIONS

EAU10710

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

the steering

To unlock the steering

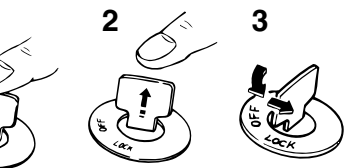
Insert the key and turn it to "OFF".

EWA10070



WARNING

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



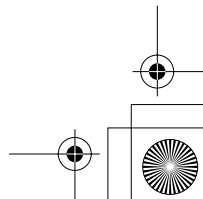
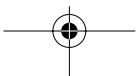
se.

the 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



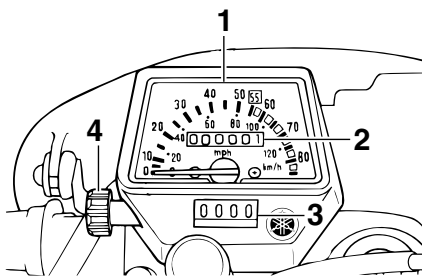
L FUNCTIONS

EAU11080

am indicator light “”
icator light comes on when the
m of the headlight is switched

Speedometer unit

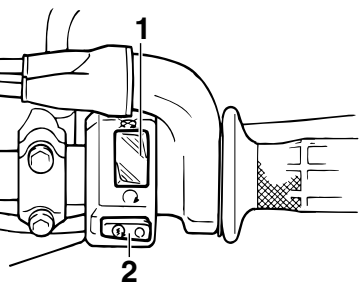
EAU11630



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 “⦿”

EAU12400

Headlight switch “≡○/⊙”
Set this switch to “≡○” for the high beam and to “⊙” for the low beam.

EAU12460

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

3-3

Horn switch “⦿”

Press this switch to sound the horn.

EAU12500

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.

EAU12660

EAU12710

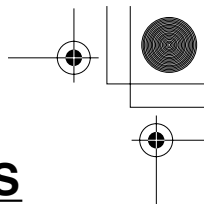
Start switch “⦿”

Push this switch to crank the engine with the starter.

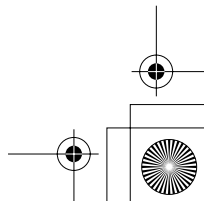
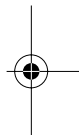
ECA10050

CAUTION:

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



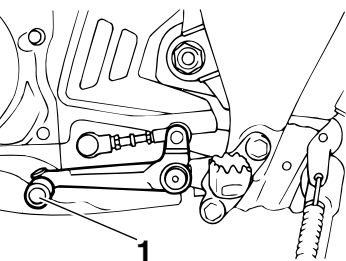
3



FUNCTIONS

Clutch pedal

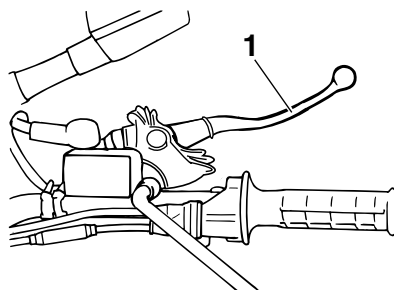
EAU12870



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

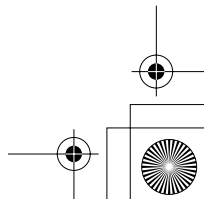
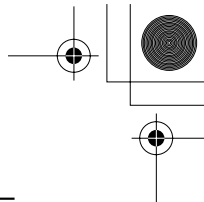
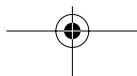
EAU12890



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.

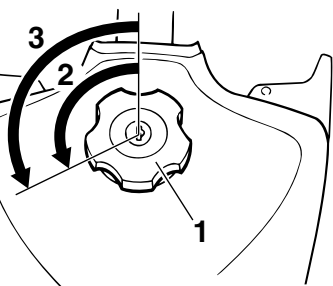
3-4



INSTRUMENT AND CONTROL FUNCTIONS

EAU32280

ank cap



ank cap
k.

Remove the fuel tank cap

Insert the key into the lock and turn 1/3 turn counter-clockwise.

Turn the fuel tank cap 1/3 turn counter-clockwise 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.

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.

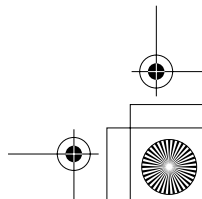
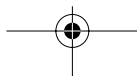
EWA10120

⚠ WARNING

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

3

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)
11.94 Imp.gal)
Fuel reserve amount:
4.0 L (0.53 US gal)
2.44 Imp.gal)

ECA11400

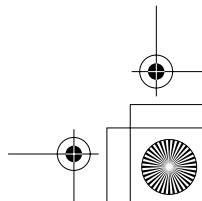
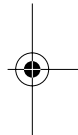
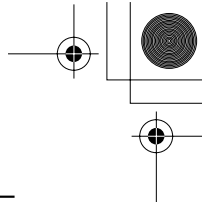
CAUTION: Do not use unleaded gasoline. The use of unleaded gasoline will cause severe damage to internal engine parts, including the valves and piston rings, and damage to the exhaust system.

This 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

gasoline of a different brand or premium unleaded fuel. Use of unleaded fuel will extend 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



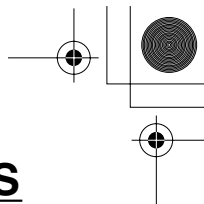
mark pointing to "ON"

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

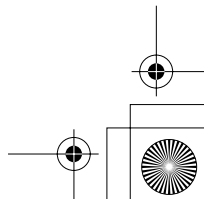
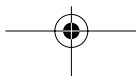
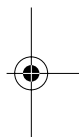


mark pointing to "RES"

The 'RES' position 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



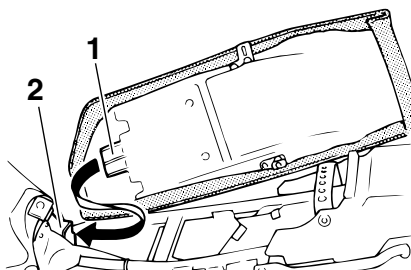
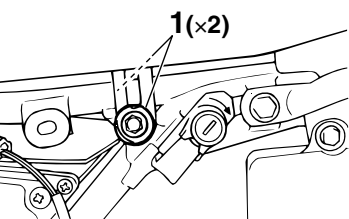
L FUNCTIONS

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

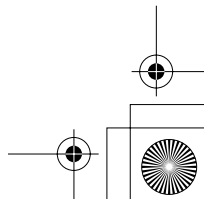
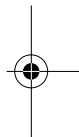
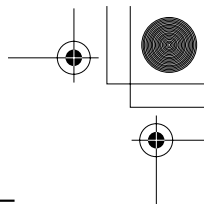
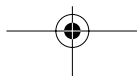
2. Place the seat in the original position, and then tighten the bolts.
3. Install the panels.

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.

3-8



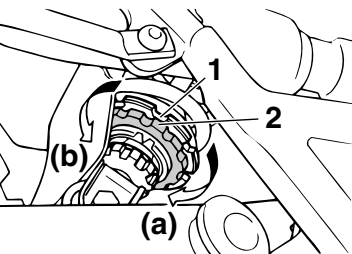
INSTRUMENT AND CONTROL FUNCTIONS

Adjusting the shock absorber assembly

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

NOTE: Do not attempt to turn an adjusting nut beyond the maximum or minimum settings.

Adjusting the spring preload

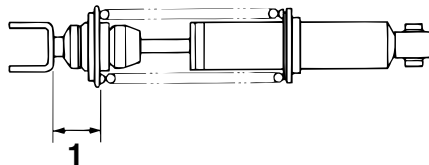


Turn the spring preload adjusting nut

clockwise to increase the spring preload and

counter-clockwise to decrease the spring preload.

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).



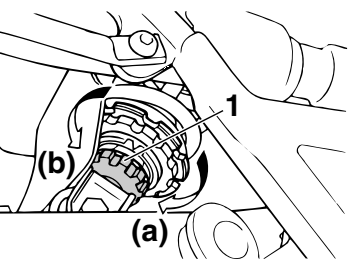
1. Distance A

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

EWA10220

INSTRUMENT AND CONTROL FUNCTIONS

EAU15300

Stand

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

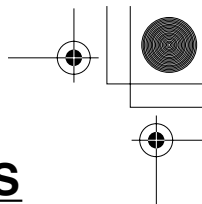
The built-in sidestand switch is part of the ignition circuit cut-off system, which cuts the ignition in certain situations. (For further information, see the section on the ignition circuit cut-off system.)

EWA10240

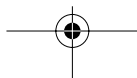
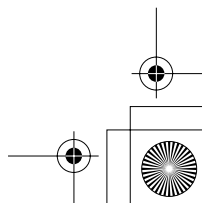
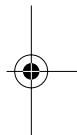
WARNING

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

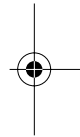
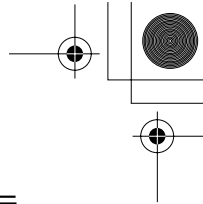
this system regularly as described below and have a Yamaha dealer repair it if it does not function properly.



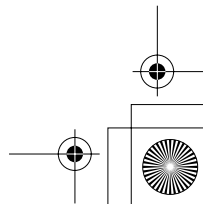
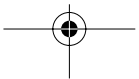
3



L FUNCTIONS



3-12



INSTRUMENT AND CONTROL FUNCTIONS

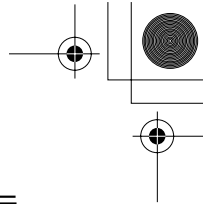
NOTE: _____
This check is most reliable if performed with
a warmed-up engine.

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

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.

3



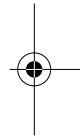
EAU15591

bility. 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.

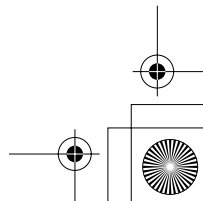
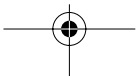
the vehicle is used. Such an inspection can be accomplished in a very short time and is well worth the time involved.

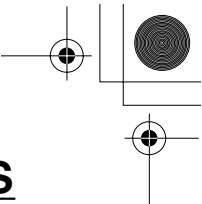
EWA11150

Before working properly, have it inspected and repaired before operating



4-1



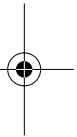


PRE-OPERATION CHECKS

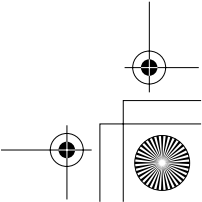
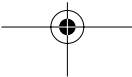
EAU15601

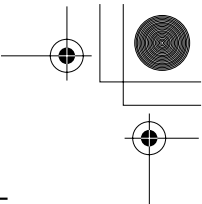
CHECKS	PAGE
uel tank.	3-6
leakage.	
ngine.	6-12
commended oil to specified level.	
leakage.	
ve Yamaha dealer bleed hydraulic system.	6-25
y.	
or wear.	
y.	
eservoir.	
commended brake fluid to specified level.	
tem for leakage.	
ay.	6-25
ecessary.	6-21
y.	
ration is smooth.	6-17, 6-29
ay.	
amaha dealer adjust cable free play and lubricate cable	
ration is smooth.	6-29
ry.	

4

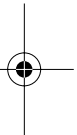


4-2

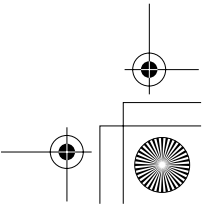
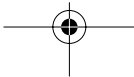




CHECKS	PAGE
n. y.	6-27, 6-28
and tread depth.	6-18, 6-20
ation is smooth. ing points if necessary.	6-29
ation is smooth. ing points if necessary.	6-30
ation is smooth. ecessary.	6-30
ts, bolts and screws are properly tightened.	—
	—
gnition circuit cut-off system. , have Yamaha dealer check vehicle.	3-11



4-3



OPERATION AND IMPORTANT RIDING POINTS

Starting and warming up the engine

For the ignition circuit cut-off 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.

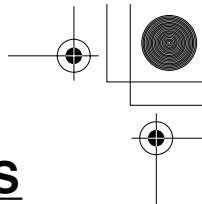
NOTE:

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.

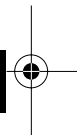
6. After starting the engine, move the starter (choke) back halfway.

CAUTION:

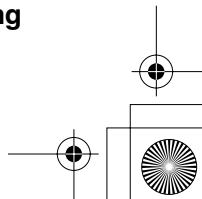
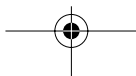
For maximum engine life, always warm the engine up before starting



5



5-1



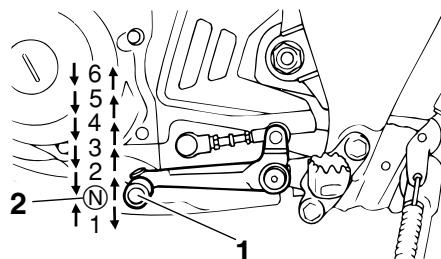
SHIFT RIDING POINTS

EAU16640

Starting a warm engine

Use the same procedure as for starting a cold engine with the exception that the choke (choke) is not required if the 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

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

Accelerate

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

Shift the transmission into first gear when the motorcycle reaches 12 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.

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)

5

IT RIDING POINTS

ECA12710

ON: _____
er 1,000 km (600 mi) of oper-
on, the engine oil must be
nged, the oil filter element
the oil strainer cleaned.
ny engine trouble should oc-
during the engine break-in
od, immediately have a
naha dealer check the vehi-

EAU17170

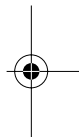
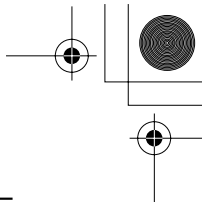
Parking

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

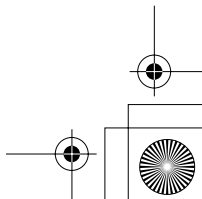
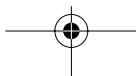
EWA10310

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.



5-4



PERIODIC MAINTENANCE AND MINOR REPAIR

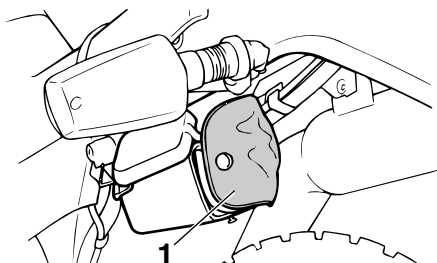
PERIODIC MAINTENANCE

PERIODIC MAINTENANCE
YOUR MOTORCYCLE IS IMPOR-
TANT TO ENJOY LONG,
DURABLE SERVICE. ESPE-
CIALLY IMPORTANT ARE THE MAIN-
TEENANCE SERVICES RELATED TO
ENGINE CONTROL. THESE
SERVICES NOT ONLY FUNCTION
TO ENSURE CLEANER AIR, BUT
ARE ALSO VITAL TO PROPER EN-
GINE OPERATION AND MAXIMUM
PERFORMANCE. IN THE FOLLOW-
ING PERIODIC MAINTENANCE
SERVICES, THE SERVICES RELATED
TO ENGINE CONTROL ARE
DETAILED SEPARATELY. THESE
SERVICES REQUIRE SPECIALIZED
KNOWLEDGE, AND EQUIP-
MENT. YAMAHA DEALERS ARE
TRAINED AND EQUIPPED TO PER-
FORM THESE PARTICULAR SER-

EAU17300

Owner's tool kit

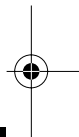
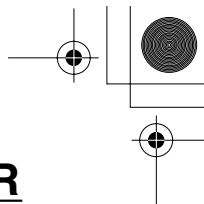
EAU17310



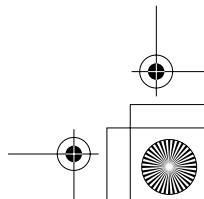
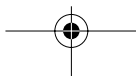
1. Owner's tool kit

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.

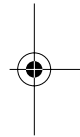
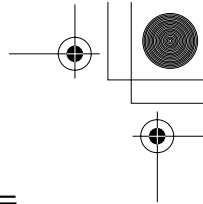
NOTE: _____
If you do not have the tools or experience required for a particular job, have



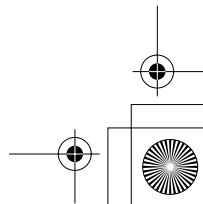
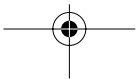
6



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 here- 000		√	Replace.	√	Replace.	√
		√	√	√	√	√
clear- ld. r	√	√	√	√	√	√
		√		√		√
e idle		√	√	√	√	√
ces-		√	√	√	√	√

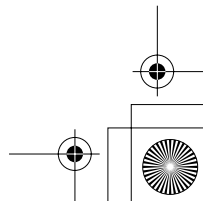
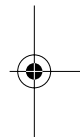
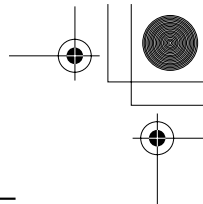
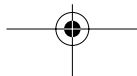
6-3

6

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
r			√		√	

ills, have a Yamaha dealer perform the service.



ODIC MAINTENANCE AND MINOR REPAIR

EAU32161

chart

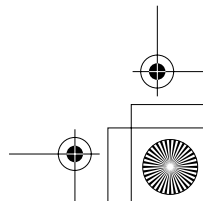
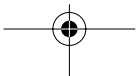
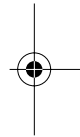
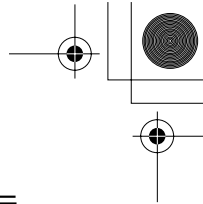
	INITIAL	ODOMETER READINGS				
	600 mi (1000 km) or 1 month	4000 mi (6000 km) or 6 months	7000 mi (11000 km) or 12 months	10000 mi (16000 km) or 18 months	13000 mi (21000 km) or 24 months	16000 mi (26000 km) or 30 months
		✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓
level, ee	✓	✓	✓	✓	✓	✓
eces-						
e brake	✓	✓	✓	✓	✓	✓
age.		✓	✓	✓	✓	✓
	Every 4 years					
ntness		✓	✓	✓	✓	✓
sary. or		✓	✓	✓	✓	✓

6-5

6

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
th		✓	✓	✓	✓	✓
nent	Every 300 mi (500 km) and after washing the motorcycle or riding in the rain					
n with ricant						
for						
th- every 4	✓	✓	✓	Repack.	✓	✓
and		✓	✓	✓	✓	✓
d (se)		✓	✓	✓	✓	✓
d (se)		✓	✓	✓	✓	✓



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
and ase)		✓	✓	✓	✓	✓
place if	✓	✓	✓	✓	✓	✓
oil		✓	✓	✓	✓	✓
oil		✓	✓	✓	✓	✓
d		✓	✓	✓	✓	
efore	✓	✓	✓	✓	✓	✓
	✓		✓		✓	
	✓		✓		✓	
d cable 30 thor-	✓	✓	✓	✓	✓	✓

6-7

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
e play. ree		✓	✓	✓	✓	✓

ills, have a Yamaha dealer perform the service.

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

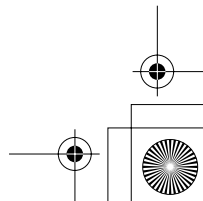
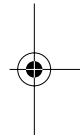
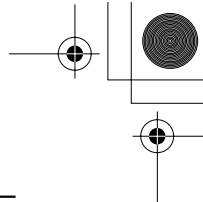
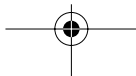
EAU17620

u are riding in unusually wet or dusty areas.

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

he master cylinder and caliper cylinder every two years.

or if cracked or damaged.

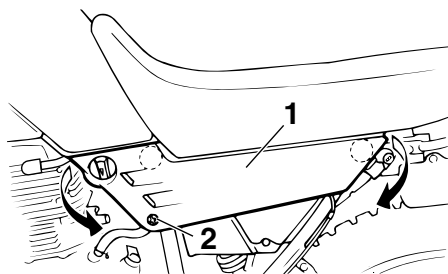
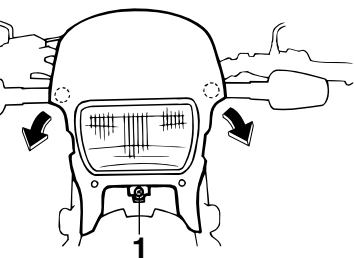


PERIODIC MAINTENANCE AND MINOR REPAIR

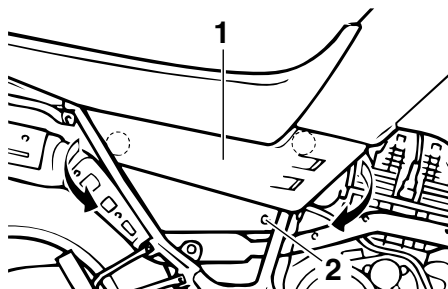
Maintenance jobs described in this section should be performed regularly. Refer to this section each time a panel or a panel needs to be removed or installed.

EAU18810

Fig A
To remove the cowling
Remove the screw, and then pull the cowling off as shown.



- 1. Panel A
- 2. Screw



- 1. Panel B
- 2. Screw

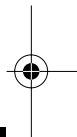
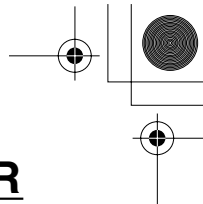
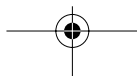
To install the cowling
Place the cowling in the original position, and then install the screw.

EAU19291

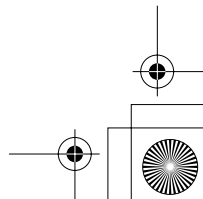
A and B
To remove one of the panels
Remove the screw, and then pull the panel off as shown.

To install the panel
Place the panel in the original position, and then install the screw.

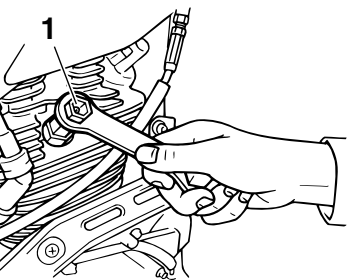
6-9



6



ND MINOR REPAIR



plug wrench

ck the spark plug

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

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 qualified dealer check the vehicle.

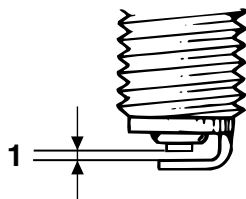
Check the spark plug for electrode erosion and excessive carbon or oil deposits, and replace it if

necessary.

Specified spark plug:
NGK/DR8EA
DENSO/X24ESR-U

To install the spark plug

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



1. Spark plug gap

Spark plug gap:
0.6–0.7 mm (0.024–0.028 in)

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

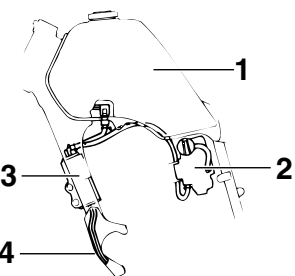
PERIODIC MAINTENANCE AND MINOR REPAIR

Canister (for California only)

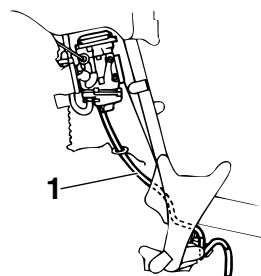
EAU19671

into the atmosphere.

- Check each hose connection.
- Check each hose and canister for cracks or damage. Replace if damaged.
- Make sure the vent hose is not blocked. Clean it if necessary.



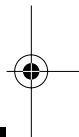
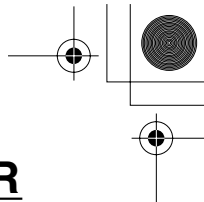
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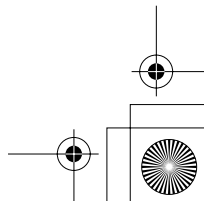
ow pipe

odel is equipped with a canister
ent the discharging of fuel vapor

6-11



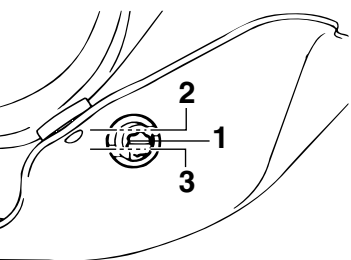
6



END MINOR REPAIR

the guard.

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



Oil level check window
Maximum level mark
Minimum level mark

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

Change the engine oil (with or without oil filter element cleaning)

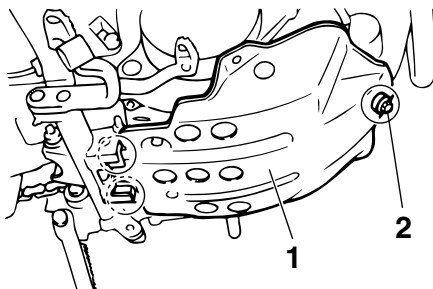
Start the engine, warm it up for several minutes, and then turn it

Place an oil pan under the engine

6-12

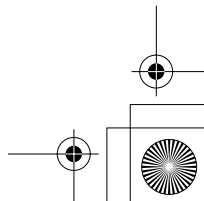
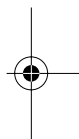
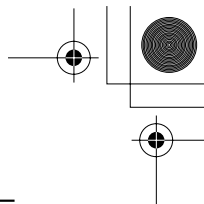
to collect the used oil.

3. Remove the engine guard by removing the bolt.



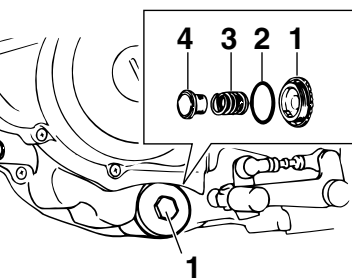
1. Engine guard
2. Bolt

4. Remove the engine oil filler cap and drain bolt along with the O-ring, compression spring, and engine oil strainer, to drain the oil from the crankcase.



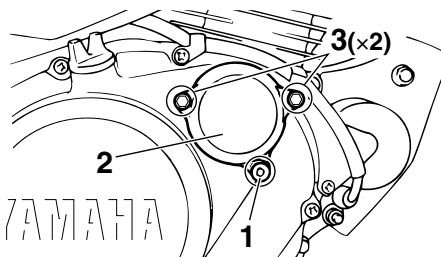
PERIODIC MAINTENANCE AND MINOR REPAIR

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



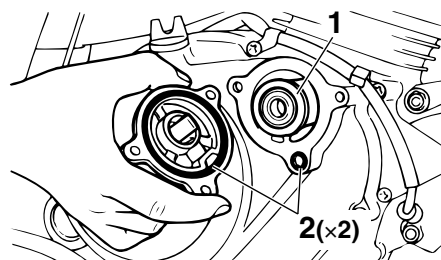
Remove the oil drain bolt.

Remove the oil filter element cover by removing the bolts.



1. Oil filter element drain bolt
2. Oil filter element cover
3. Bolt

8. Remove the oil filter element and O-rings.



1. Oil filter element
2. O-ring

9. Check the O-rings for damage and

END MINOR REPAIR

ECA10420

NOTE: When installing the engine oil drain bolt, do not forget to install the compression spring, and oil filler cap in position.

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

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

Recommended oil:
See page 8-1.
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

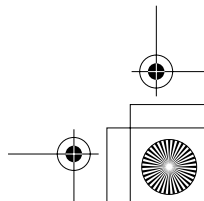
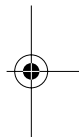
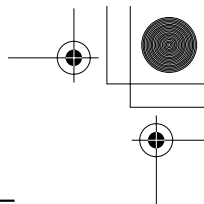
NOTE: To prevent clutch slip-

6-14

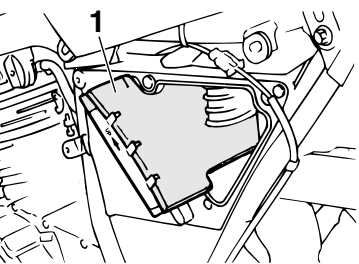
page (since the engine oil also lubricates the clutch), do not mix any chemical additives. Do not use oils with a diesel specification of “CD” or oils of a higher quality than specified. In addition, do not use oils labeled “ENERGY CONSERVING II” or higher.

- Make sure that no foreign material enters the crankcase.

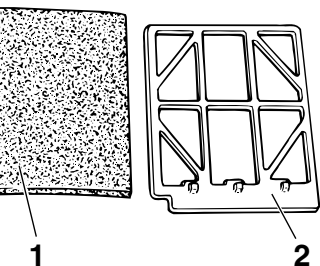
14. Start the engine, and then let it idle for several minutes while checking it for oil leakage. If oil is leaking, immediately turn the engine off and check for the cause.
15. Turn the engine off, and then check the oil level and correct it if necessary.
16. Install the engine guard by installing the bolt.



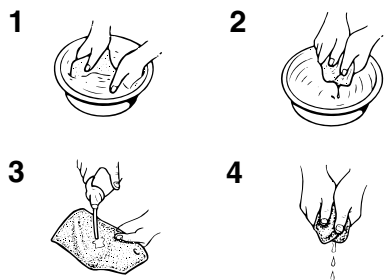
PERIODIC MAINTENANCE AND MINOR REPAIR



Remove the sponge material from the air filter element frame.



Wash the sponge material with cleaning solvent, and then squeeze the solvent out.



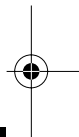
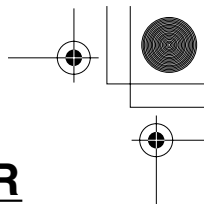
6. Apply oil of the recommended type to the entire surface of the sponge material, and then squeeze the excess oil out.

NOTE: The sponge material should be wet but not dripping.

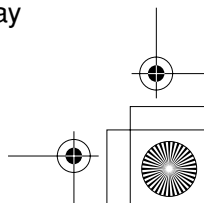
Recommended oil:
Yamaha foam air filter oil or
other quality air filter oil

7. Install the sponge material onto the air filter element frame, and then insert the air filter element into the air filter case.

NOTE: Install the air filter element with the gray



6



END MINOR REPAIR

EAU21232

Cleaning the spark arrester

The spark arrester should be cleaned at the intervals specified in the Periodic Maintenance and Lubrication chart.

EWA10980

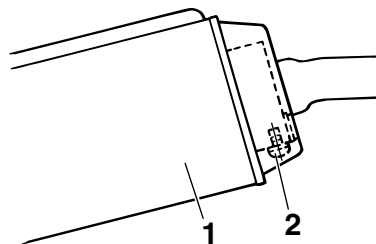
WARNING

Always let the exhaust system cool prior to touching exhaust components.

Do not start the engine when cleaning the exhaust system.

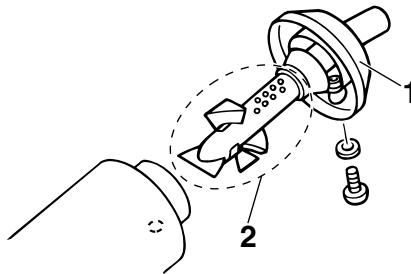
Be sure to select a well-ventilated area free of combustible materials to clean the spark arrester.

To remove the tailpipe by removing the screw, and then pulling it out of the muffler.



- 1. Muffler
- 2. Screw

- 2. Tap the tailpipe lightly, and then use a wire brush to remove any carbon deposits from the spark arrester portion of the tailpipe.



- 1. Tailpipe
- 2. Spark arrester

PERIODIC MAINTENANCE AND MINOR REPAIR

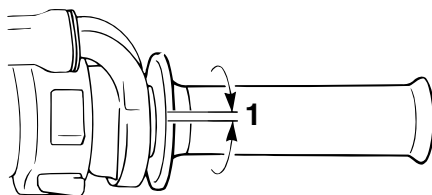
EAU21250

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 dealers who have the necessary professional knowledge and experience.

EAU21380

Adjusting the throttle cable free play



1. Throttle cable free play

The throttle cable free play should measure 3.0–5.0 mm (0.12–0.20 in) at the throttle grip. Periodically check the throttle cable free play and, if necessary, have a Yamaha dealer adjust it.

6

ND MINOR REPAIR

EAU21630

for this model.

imize the performance, durabil-
safe operation of your motorcy-
the following points regarding
ified tires.

pressure

air pressure should be checked
ecessary, adjusted before each

EWA10500

ARNING

e tire air pressure must be
checked and adjusted on cold
s (i.e., when the temperature
he tires equals the ambient
perature).

e tire air pressure must be ad-
ed in accordance with the
ng speed and with the total
ght of rider, passenger, car-
and accessories approved

Tire air pressure (measured on cold tires):

0.0–90.0 kg (0–198 lb) :

Front:

125 kPa (18 psi) (1.25 kgf/cm²)

Rear:

150 kPa (22 psi) (1.50 kgf/cm²)

90.0–183.0 kg (198–404 lb) :

Front:

150 kPa (22 psi) (1.50 kgf/cm²)

Rear:

175 kPa (25 psi) (1.75 kgf/cm²)

Maximum load*:

183.0 kg (404 lb)

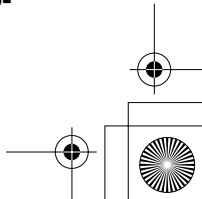
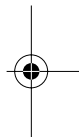
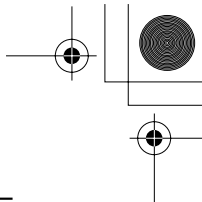
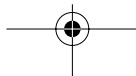
* Total weight of rider, passenger,
cargo and accessories

EWA11020

! WARNING

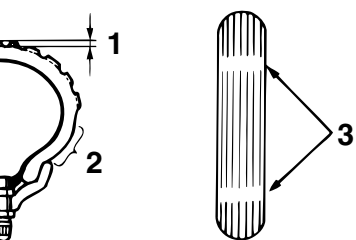
Because loading has an enormous impact on the handling, braking, performance and safety characteristics of your motorcycle, you should keep the following precautions in mind.

- NEVER OVERLOAD THE MO-



PERIODIC MAINTENANCE AND MINOR REPAIR

Tire inspection



Tread depth
Sidewall
Rear indicator

Tires must be checked before each ride. If the tire shows crosswise lines (indicating low tread depth), if the tire has a flat, or if the tire has glass fragments in it, or if the tire is cracked, have a Yamaha dealer replace the tire immediately.

Minimum tire tread depth (front and rear):
1.6 mm (0.06 in)

Tread depth limits may differ by country to country. Always comply

with the local regulations.

Tire information

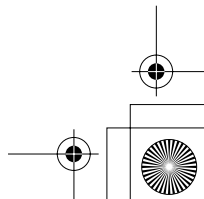
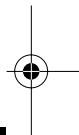
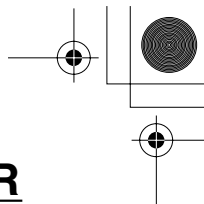
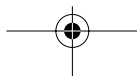
This motorcycle is equipped with tube tires.

EWA10460

WARNING

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

6



END MINOR REPAIR

and experience.

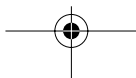
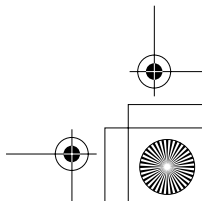
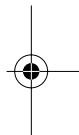
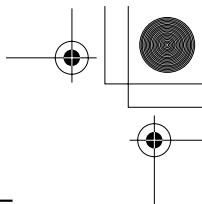
is not recommended to patch a punctured tube. If unavoidable, however, patch the tube carefully and replace it as soon as possible with a high-quality product.

EAU21940

Spoke wheels

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

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

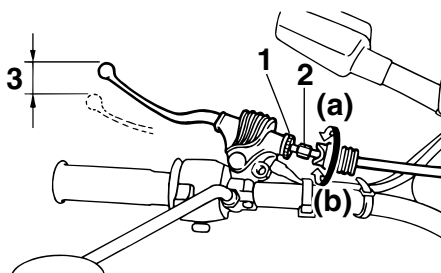


PERIODIC MAINTENANCE AND MINOR REPAIR

of items which have not
approved by Yamaha.

EAU22040

Adjusting the clutch lever free play



1. Locknut (clutch lever)
2. Adjusting bolt
3. Clutch lever free play

The clutch lever free play should measure 10.0–15.0 mm (0.39–0.59 in) as shown. Periodically check the clutch lever free play and, if necessary, adjust it as follows.

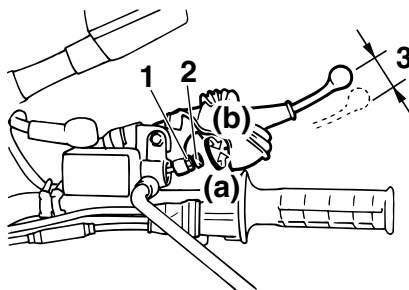
1. Loosen the locknut at the clutch lever.
2. To increase the clutch lever free play, turn the adjusting bolt in direction (a). To decrease the clutch lever free play, turn the adjusting bolt in direction (b).

ND MINOR REPAIR

Loosen the locknut at the clutch lever and the crankcase.

EAU22091

Adjusting the brake lever free play



1. Locknut
2. Adjusting bolt
3. Brake lever free play

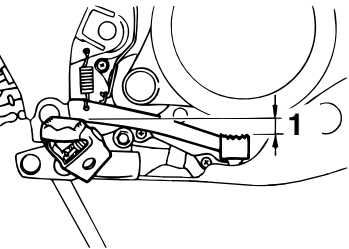
The brake lever free play should measure 2.0–5.0 mm (0.08–0.20 in) as shown. Periodically check the brake lever free play and, if necessary, adjust it as follows.

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

PERIODIC MAINTENANCE AND MINOR REPAIR

Adjusting the brake pedal position and free play

EAU22191



pedal position

WARNING

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

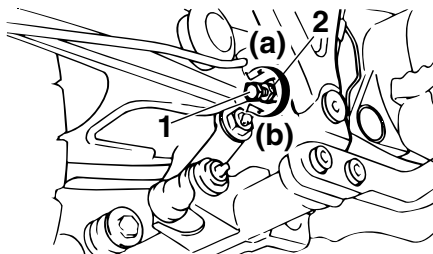
EWA10670

Brake pedal position

The top of the brake pedal should be positioned approximately 10.0 mm (3/8") below the top of the footrest. Regularly check the brake pedal position, and, if necessary, adjust it as follows.

Loosen the locknut at the brake pedal.

2. To raise the brake pedal, turn the adjusting bolt in direction (a). To lower the brake pedal, turn the adjusting bolt in direction (b).

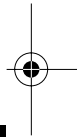
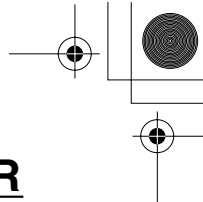


1. Adjusting bolt
2. Locknut
3. Tighten the locknut.

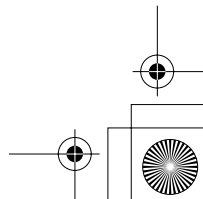
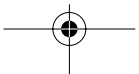
EWA11230

WARNING

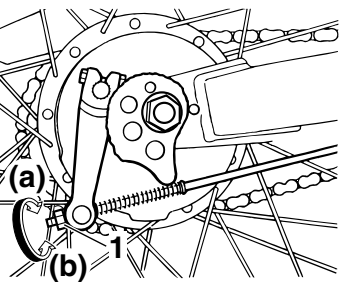
After adjusting the brake pedal position, the brake pedal free play must be adjusted.



6



END MINOR REPAIR



pedal free play adjusting nut

EWA10680

WARNING

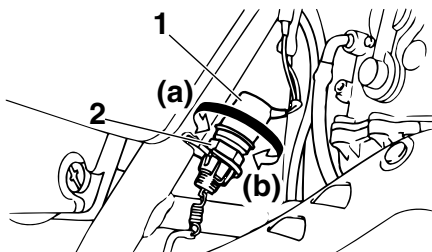
After adjusting the drive chain or removing and installing the rear wheel, always check the brake pedal free play.

If proper adjustment cannot be obtained as described, have a Yamaha dealer make this adjustment.

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

Adjusting the rear brake light switch

EAU22270



1. Rear brake light switch
2. Adjusting nut

The rear brake light switch, which is activated by the brake pedal, is properly adjusted when the brake light comes on just before braking takes effect. If necessary, adjust the brake light switch as follows.

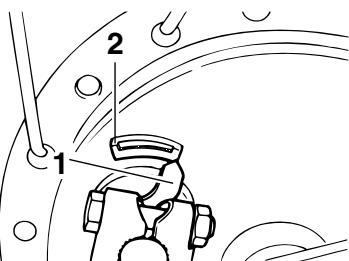
Turn the adjusting nut while holding the rear brake light switch in place. To make the brake light come on earlier, turn the adjusting nut in direction (a). To make the brake light come on later, turn the adjusting nut in direction (b).

PERIODIC MAINTENANCE AND MINOR REPAIR

have a Yamaha dealer replace
brake pads as a set.

EAU22540

Brake shoes

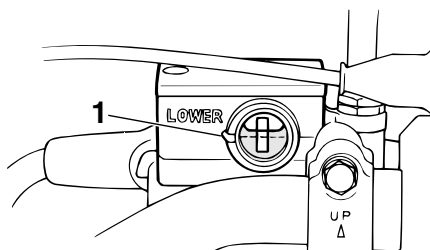


Wear
indicator
limit line

Each front brake is provided with a wear
indicator, which allows you to check the
brake shoe wear without having to dis-
assemble the brake. To check the
brake shoe wear, check the position of
the wear indicator while applying the
brake. If a brake shoe has worn to the
point that the wear indicator reaches
the wear limit line, have a Yamaha
dealer replace the brake shoes as a

Checking the brake fluid level Front brake

EAU32341



1. Minimum level mark

Insufficient brake fluid may allow air to
enter the brake system, possibly caus-
ing it to become ineffective.

Before riding, check that the brake fluid
level is above the minimum level mark and
replenish if necessary. A low brake fluid
level may indicate worn brake pads
and/or brake system leakage. If the
brake fluid level is low, be sure to check
the brake pads for wear and the brake
system for leakage.

Observe these precautions:

- When checking the fluid level,
make sure that the top of the mas-

END MINOR REPAIR

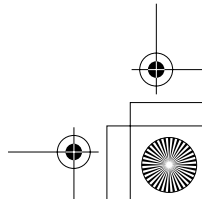
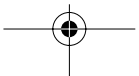
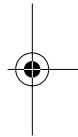
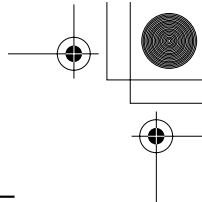
ke fluid level goes down suddenly, have a Yamaha dealer check the cause.

Changing the brake fluid

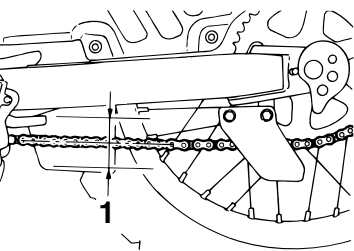
Have a Yamaha dealer change the brake fluid at the intervals specified in the NOTE after the periodic maintenance and lubrication chart. In addition, have the oil seals of the brake master cylinder and caliper as well as the brake hose replaced at the intervals listed below or whenever they are damaged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

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

EAU22720



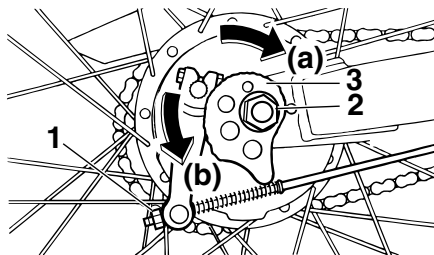
PERIODIC MAINTENANCE AND MINOR REPAIR



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

EAU22830

Adjust the drive chain slack
Loosen the brake pedal free play
adjusting nut.



1. Brake pedal free play adjusting nut
2. Axle nut
3. Drive chain slack adjusting plate

2. Loosen the axle nut.
3. To tighten the drive chain, turn the adjusting plate on each side of the swingarm in direction (a). To loosen the drive chain, turn the adjusting plate on each side of the swingarm in direction (b), and then push the rear wheel forward.

NOTE: _____
Make sure that both adjusting plates
are in the same position for proper

END MINOR REPAIR

lubricating the drive chain

EAU23020

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

lubricant.

ECA11110

CAUTION:

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

NOTE:

ECA10580

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

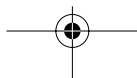
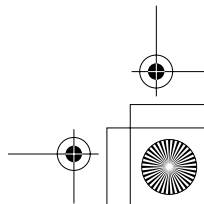
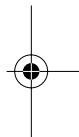
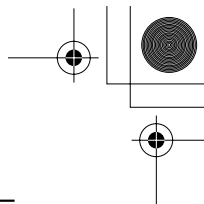
Clean the drive chain with kerosene and a small soft brush.

ECA11120

NOTE:

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

Leave the drive chain dry. Thoroughly lubricate the drive chain with a special O-ring chain



PERIODIC MAINTENANCE AND MINOR REPAIR

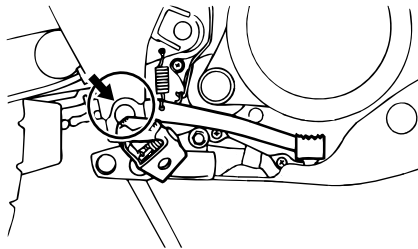
Checking and lubricating the throttle grip and cable

EAU23110

The operation of the throttle grip should be checked before each ride. In addition, the cable should be lubricated or replaced at the intervals specified in the maintenance chart.

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 lubricated if necessary.

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

6

END MINOR REPAIR

ing and lubricating the and

eration of the sidestand should
ked before each ride, and the
d pivot and metal-to-metal
surfaces should be lubricated if
ry.

ARNING

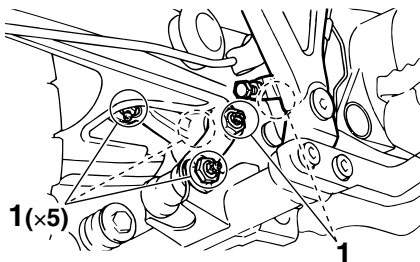
idestand does not move up
wn smoothly, have a Yamaha
check or repair it.

commended lubricant:
ithium-soap-based grease
(all-purpose grease)

EAU23200

EWA10730

Lubricating the rear suspension

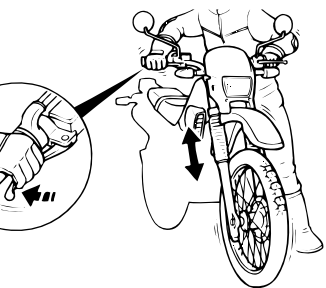


1. Grease nipple

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

Recommended lubricant:
Lithium-soap-based grease

PERIODIC MAINTENANCE AND MINOR REPAIR



ECA10590

NOTE: If damage is found or the front wheel does not operate smoothly, have a Yamaha dealer check or repair the steering.

Checking the steering

EAU23280

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

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

EWA10750

WARNING

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

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

6

END MINOR REPAIR

EAU23290

ing the wheel bearings

t and rear wheel bearings must
ked at the intervals specified in
odic maintenance and lubrica-
rt. If there is play in the wheel
if the wheel does not turn
y, have a Yamaha dealer check
el bearings.

Battery

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

EAU23370

CAUTION:

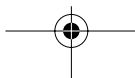
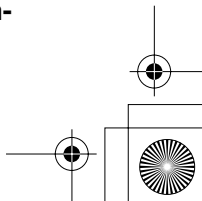
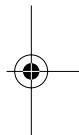
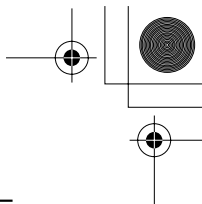
**Never attempt to remove the battery
cell seals, as this would permanent-
ly damage the battery.**

ECA10620

WARNING

EWA10760

- **Electrolyte is poisonous and dangerous since it contains sulfuric acid, which causes severe burns. Avoid any contact with skin, eyes or clothing and always shield your eyes when working near batteries. In case of contact, administer the following FIRST AID.**
 - **EXTERNAL:** Flush with plenty of water.
 - **INTERNAL:** Drink large quantities of water or milk and im-



PERIODIC MAINTENANCE AND MINOR REPAIR

If the battery will be stored for more than two months, check it at least once a month and fully charge it if necessary.

Always charge the battery before installation.

After installation, make sure that the battery leads are properly connected to the battery terminals.

ECA10630

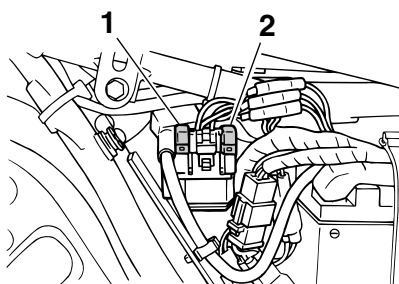
NOTE:

Always keep the battery charged. Storing a discharged battery can cause permanent battery damage.

To charge a sealed-type (MF) battery, a special (constant-voltage) battery charger is required. Using a conventional battery charger will damage the battery. If you do not have access to a sealed-type (MF) battery charger, have a Yamaha dealer charge your battery.

Replacing the fuse

EAU23500



1. Fuse
2. Spare fuse

The fuse holder is located behind panel B. (See page 6-9.)

If the fuse is blown, replace it as follows.

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

6

END MINOR REPAIR

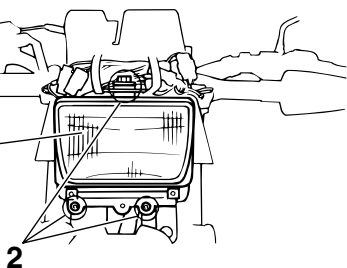
EAU23811

Replacing the headlight bulb

The model is equipped with a quartz halogen headlight. If the headlight bulb is defective, replace it as follows.

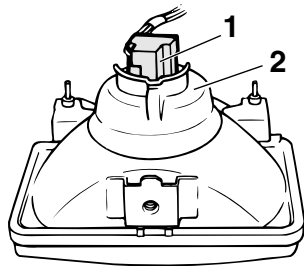
1. Remove the headlight cowling A. (See Section 6-9.)

2. Remove the headlight unit by removing the bolts.



Headlight unit

3. Connect the headlight coupler, then remove the headlight bulb cover.

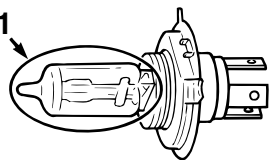


- 1. Headlight coupler
- 2. Headlight bulb cover

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

PERIODIC MAINTENANCE AND MINOR REPAIR

Thoroughly clean off any dirt fingerprints on the headlight using a cloth moistened with alcohol thinner.

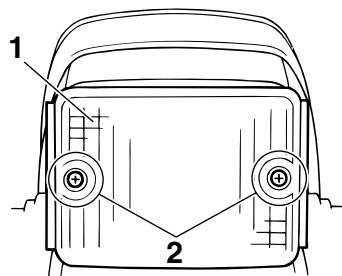


Do not touch the glass part of the bulb. Remove the bulb cover, and then disconnect the coupler. Install the headlight unit by installing the bolts. Install the cowl. Have a Yamaha dealer adjust the headlight beam if necessary.

Replacing the tail/brake light bulb

EAU24131

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



1. Tail/brake light bulb lens
2. Screw

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

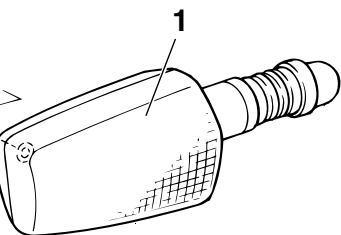
6

END MINOR REPAIR

Replacing a turn signal light

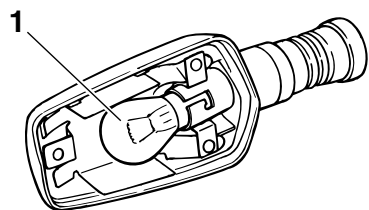
EAU24201

Remove the turn signal light lens by removing the screw.



Turn signal light lens

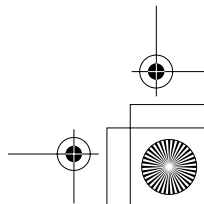
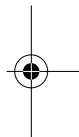
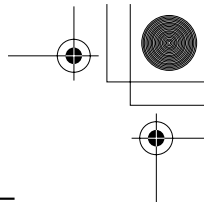
Remove the defective bulb by turning it in and turning it counter-clockwise.



1. Turn signal 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 screw.

ECA11190

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



ODIC MAINTENANCE AND MINOR REPAIR

front of the rear wheel or under
side of the swingarm.

Front wheel

To remove the front wheel

EAU24360

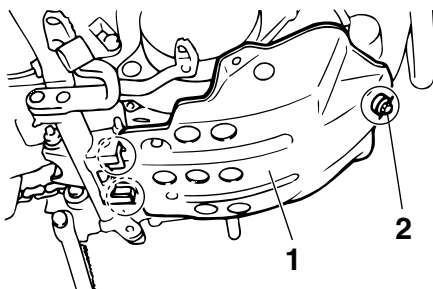
EAU24690

EWA10820

WARNING

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

1. Remove the engine guard by removing the bolt.



6

1. Engine guard
2. Bolt

2. Remove the brake disc cover by removing the screws.
3. Remove the speedometer cable

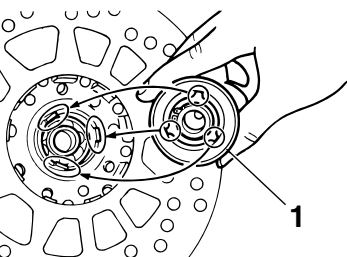
END MINOR REPAIR

the brake disc, otherwise the
brake pads will be forced shut.

EAU25011

Install the front wheel

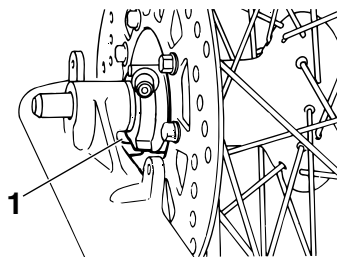
Install the speedometer gear unit
on the wheel hub so that the pro-
jections mesh with the slots.



Speedometer gear unit

Install the wheel up between the fork
legs.

Ensure that there is enough space
between the brake pads before insert-
ing the brake disc and that the slot in
the speedometer gear unit fits over the
projection on the fork leg.



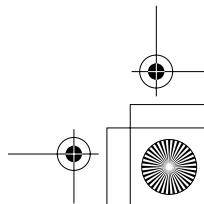
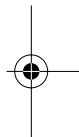
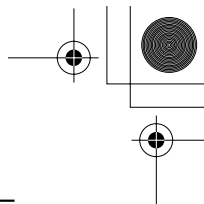
1. Retainer

3. Insert the wheel axle, and then in-
stall the axle nut.
4. Lower the front wheel so that it is
on the ground.
5. Tighten the axle nut to the speci-
fied torque.

Tightening torque:

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

6. Connect the speedometer cable,
and then install the speedometer
cable holder by installing the
screw.
7. Install the brake disc cover by in-
stalling the screws.



PERIODIC MAINTENANCE AND MINOR REPAIR

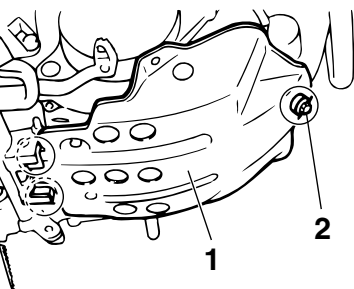
Rear wheel

Remove the rear wheel

WARNING

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

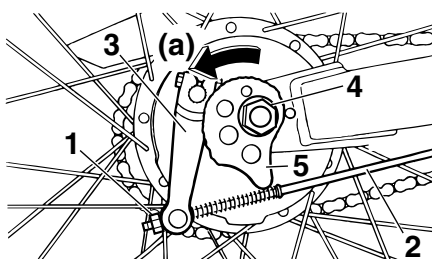
Remove the engine guard by removing the bolt.



Engine guard

Remove the brake pedal free play adjusting nut, and then disconnect the brake rod from the brake cam-

shaft lever.



1. Brake pedal free play adjusting nut
2. Brake rod
3. Brake camshaft lever
4. Axle nut
5. Chain adjusting plate

3. Loosen the axle nut.
4. Turn the drive chain adjusting plate on each side of the swingarm fully in direction (a).
5. Lift the rear wheel off the ground according to the procedure on page 6-37.
6. Remove the axle nut.
7. Push the wheel forward, and then remove the drive chain from the rear sprocket.

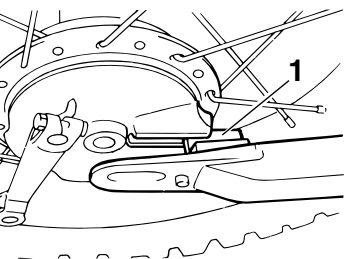
6

END MINOR REPAIR

EAU25791

Remove the rear wheel

Remove the wheel axle from the left hand side.



er

Ensure that the drive chain adjusters are installed with the adjuster sides facing to the outside of the slot in the brake shoe plate and the retainer on the swingarm.

Install the drive chain onto the rear sprocket, and then adjust the drive chain slack. (See page 6-27.)

Install the axle nut, and then lower the rear wheel so that it is on the ground.

4. Tighten the axle nut to the specified torque.

Tightening torque:

Axle nut:

85 Nm (8.5 m·kgf, 62 ft·lbf)

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

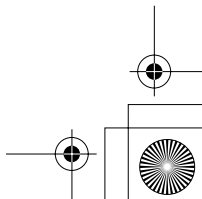
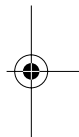
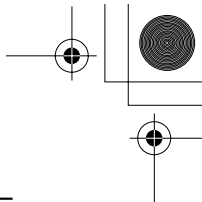
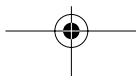
6. Adjust the brake pedal free play. (See page 6-23.)

EWA10660

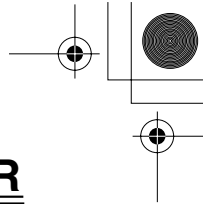
WARNING

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

7. Install the engine guard by installing the bolt.

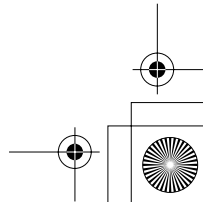
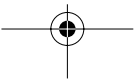


ODIC MAINTENANCE AND MINOR REPAIR



6

6-41

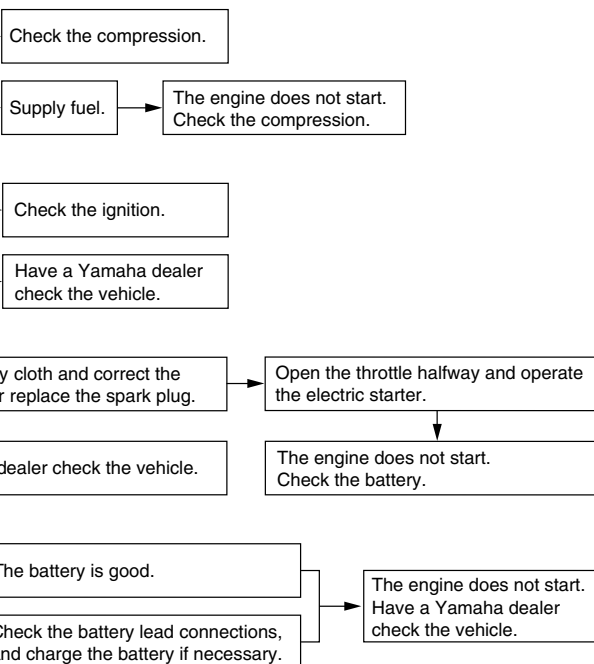


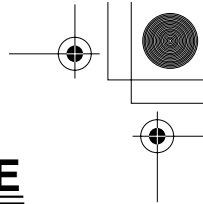
END MINOR REPAIR

EAU25901

EWA10840

le checking or working on the fuel system.





MOTORCYCLE CARE AND STORAGE

sh, but never apply such prod-
s onto seals, gaskets, sprock-
, the drive chain and wheel
es. Always rinse the dirt and de-
aser 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.

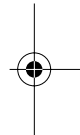
proper cleaning can damage
ndshields, cowlings, panels
d other plastic parts. Use only
soft, clean cloth or sponge
h mild detergent and water to
an plastic.

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

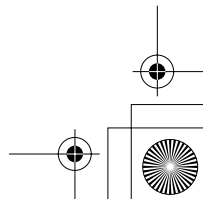
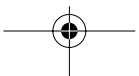
sponges which have been in
contact with strong or abrasive
cleaning products, solvent or
thinner, fuel (gasoline), rust re-
movers or inhibitors, brake flu-
id, antifreeze or electrolyte.

- 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



7-1



TORAGE

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

ECA10790

ON: _____
use warm water since it in-
the corrosive action of the

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

eaning

the motorcycle with a chamois or an absorbing cloth.

mediately 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

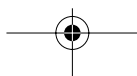
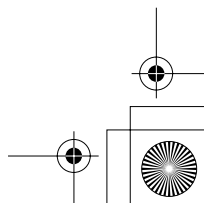
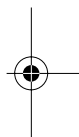
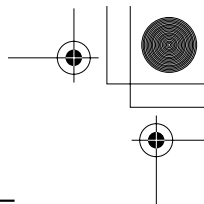
WARNING

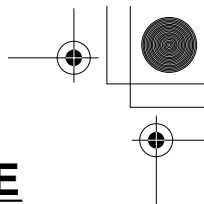
- **Make sure that there is no oil or wax on the brakes or tires. If necessary, clean the brake discs and brake linings with a regular brake disc cleaner or acetone, and wash the tires with warm water and a mild detergent.**
- **Before operating the motorcycle test its braking performance and cornering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

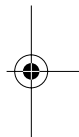
To prevent corrosion, avoid damp cellars, stables (because of the presence of ammonia) and areas where strong chemicals are stored.

term
When storing your motorcycle for several months:

Follow all the instructions in the "Care" section of this chapter.

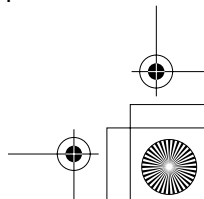
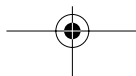
For motorcycles equipped with a fuel cock that has an "OFF" position: Turn the fuel cock lever to "OFF".

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

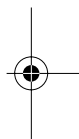
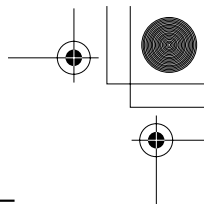
7-3



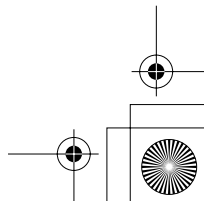
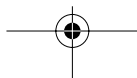
STORAGE

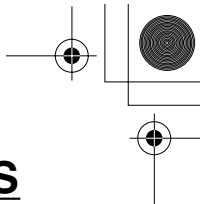
Use and charge it once a month.
Do not store the battery in an excessively cold or warm place (less than 0 °C [30 °F]) or more than 30 °C [90 °F]). For more information on storing the battery, see page 6-32.

Perform any necessary repairs before riding the motorcycle.



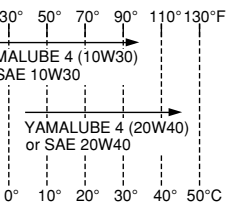
7-4





SPECIFICATIONS

oil:
MALUBE 4, SAE10W30 or SAE20W40



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

Oil filter element replacement:
Oil (1.06 US qt) (0.88 Imp.qt)
Oil filter element replacement:
Oil (1.16 US qt) (0.97 Imp.qt)

Filter:
Oil filter element:
Oil filter element

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

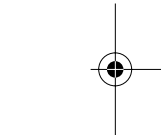
Motor:
Manufacturer:
UNI

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)

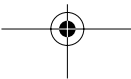
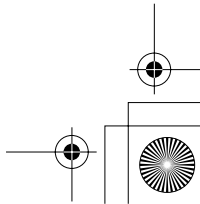
Clutch:
Clutch type:
Wet, multiple-disc

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



Weight:
Maximum load:
183.0 kg (404 lb)
Weight of rider, passenger, cargo
(Accessories)
Pressure (measured on cold

Weight condition:
183.0 kg (0–198 lb)

183.0 kg (18 psi) (1.25 kgf/cm²)

183.0 kg (22 psi) (1.50 kgf/cm²)

Weight condition:
183.0 kg (198–404 lb)

183.0 kg (22 psi) (1.50 kgf/cm²)

183.0 kg (25 psi) (1.75 kgf/cm²)

Wheel:

Type:
Spoke wheel
Size:
18.60

Wheel:

Type:
Spoke wheel
Size:
18.15

Front brake:

Type:
Single disc brake
Operation:
Right hand operation
Recommended fluid:
Dot 4

Rear brake:

Type:
Drum brake
Operation:
Right foot operation

Front suspension:

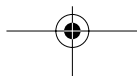
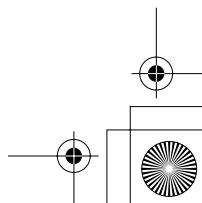
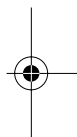
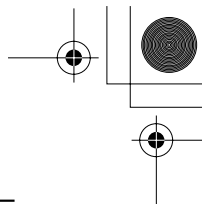
Type:
Telescopic fork
Spring/shock absorber type:
Coil spring/oil damper
Wheel travel:
225.0 mm (8.86 in)

Rear suspension:

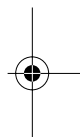
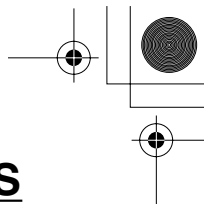
Type:
Swingarm (link suspension)
Spring/shock absorber type:
Coil spring/gas-oil damper
Wheel travel:
190.0 mm (7.48 in)

Electrical system:

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

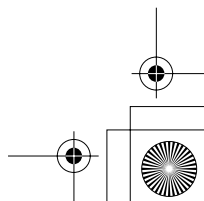
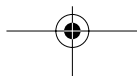


SPECIFICATIONS



8

8-3

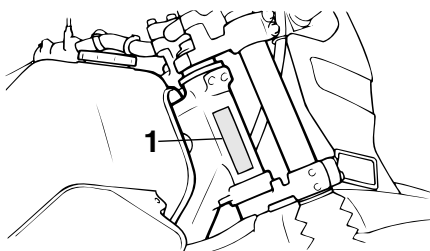
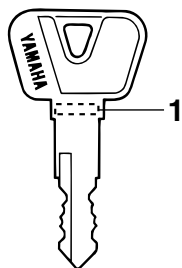


entification number

EAU26390

Vehicle identification number

EAU26400



entification number

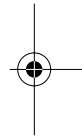
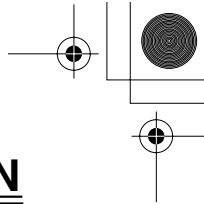
ny identification number is
l into the key. Record this num-
e space provided and use it for
e when ordering a new key.

1. Vehicle identification number

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

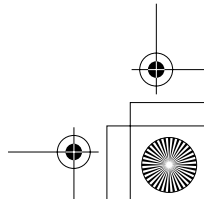
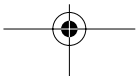
NOTE: _____
The vehicle identification number is used to identify your motorcycle and may be used to register your motorcycle with the licensing authority in your area.

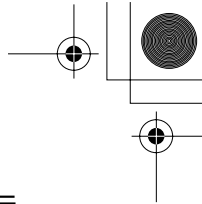
CONSUMER INFORMATION



9

9-2

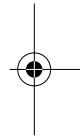




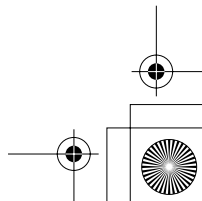
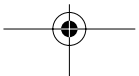
EAU26550

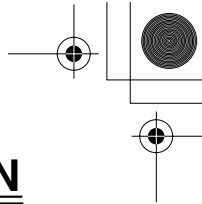
ould cause a crash or could cause injury or death, you should immediately
nistration (NHTSA) in addition to notifying Yamaha Motor Corporation,
y open an investigation, and if it finds that a safety defect exists in a group
paign. However, NHTSA cannot become involved in individual problems
oration, U.S.A.

safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in Washington, D.C.
portation, 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.
...TITUTE TAMPERING ARE THE ACTS LISTED BELOW".
...ystems; i.e., modification, removal, etc.

Exhaust system

- Muffler
- Exhaust pipe
- Silencer

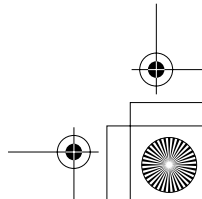
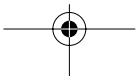
Air intake system

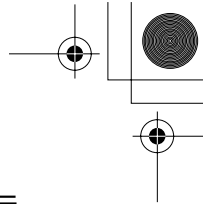
- Air cleaner case
- Air cleaner element
- Intake duct



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9-4

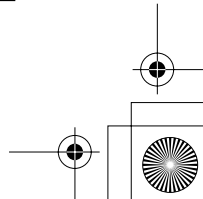
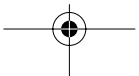
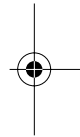


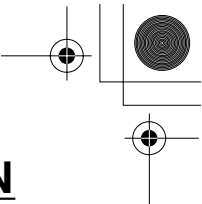


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chased and installed on your motorcycle will be required to document that with the emissions warranty. The chart below is printed only as a reminder of proof of maintenance work.

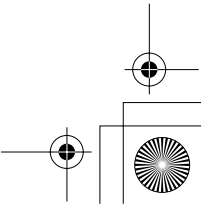
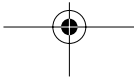
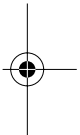
Mileage	Servicing dealer name and address	Remarks

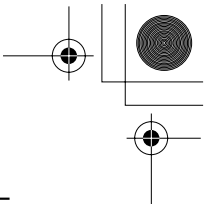




CONSUMER INFORMATION

Mileage	Servicing dealer name and address	Remarks





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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 a 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.

EMISSIONS 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 specified immediately below. Failure other than resulting from defects in material or workmanship shall arise solely as a result of owner abuse or lack of proper maintenance are not covered by this warranty.

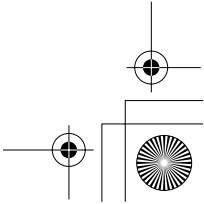
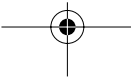
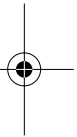
ENGINE DISPLACEMENT	PERIOD
50cc to 169cc	12,000 km (7,465 miles) or five years, whichever occurs first
170cc to 279cc	18,000 km (11,185 miles) or five years, whichever occurs first
280cc or over	30,000 km (18,641 miles) or five years, whichever occurs first

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.

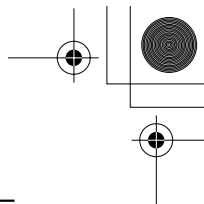
CHANGE OF ADDRESS

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.



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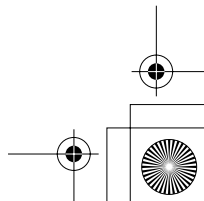
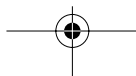
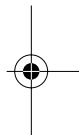
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- In addition, Travel and Recreation Interruption Protection (TRIP) is included at no extra cost. TRIP gives you up to \$150 reimbursement per occurrence for any reasonable expenses you incur because your Yamaha needs covered service: replacement vehicle 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!

This excellent Y.E.S. plan coverage is only available to Yamaha owners like you, and only while your Yamaha is still within the Yamaha Limited Warranty period. So visit your authorized Yamaha dealer to get all the facts. He can show you how easy it is to protect your investment with Yamaha Extended Service.



CONSUMER INFORMATION

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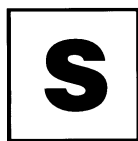
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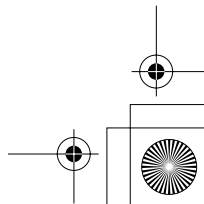
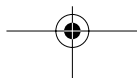
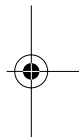
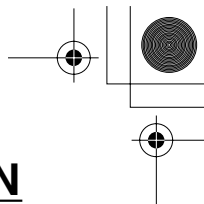
YAMAHA



EXTENDED



SERVICE




PROTECT YOUR INVESTMENT
Use Genuine YAMAHA Parts And Accessories.

See your Authorized YAMAHA Dealer for a Genuine YAMAHA Service Manual.



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