



OWNER'S MANUAL



TW125

5EK-28199-E1

Welcome to the Yamaha world of motorcycling!

As the owner of a TW125, you are benefiting from Yamaha's vast experience in and newest technology for the design and the manufacture of high-quality products, which have earned Yamaha a reputation for dependability.

Please take the time to read this manual thoroughly, so as to enjoy all your TW125's advantages. The owner's manual does not only instruct you in how to operate, inspect and maintain your motorcycle, but also in how to safeguard yourself and others from trouble and injury.

In addition, the many tips given in this manual will help to keep your motorcycle in the best possible condition. If you have any further questions, do not hesitate to contact your Yamaha dealer.

The Yamaha team wishes you many safe and pleasant rides. So, remember to put safety first!

IMPORTANT MANUAL INFORMATION

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



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



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

CAUTION:

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

NOTE:

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

NOTE:

- This manual should be considered a permanent part of this motorcycle and should remain with it even if the motorcycle is subsequently sold.
 - Yamaha continually seeks advancements in product design and quality. Therefore, while this manual contains the most current product information available at the time of printing, there may be minor discrepancies between your motorcycle and this manual. If there is any question concerning this manual, please consult your Yamaha dealer.
-

IMPORTANT MANUAL INFORMATION

EW000002

⚠ WARNING

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

EAU00008

TW125

OWNER'S MANUAL

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1st Edition, May 1999

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Printed in Japan.

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GIVE SAFETY THE RIGHT OF WAY

1

Motorcycles are fascinating vehicles, which can give you an unsurpassed feeling of power and freedom. However, they also impose certain limits, which you must accept; even the best motorcycle does not ignore the laws of physics.

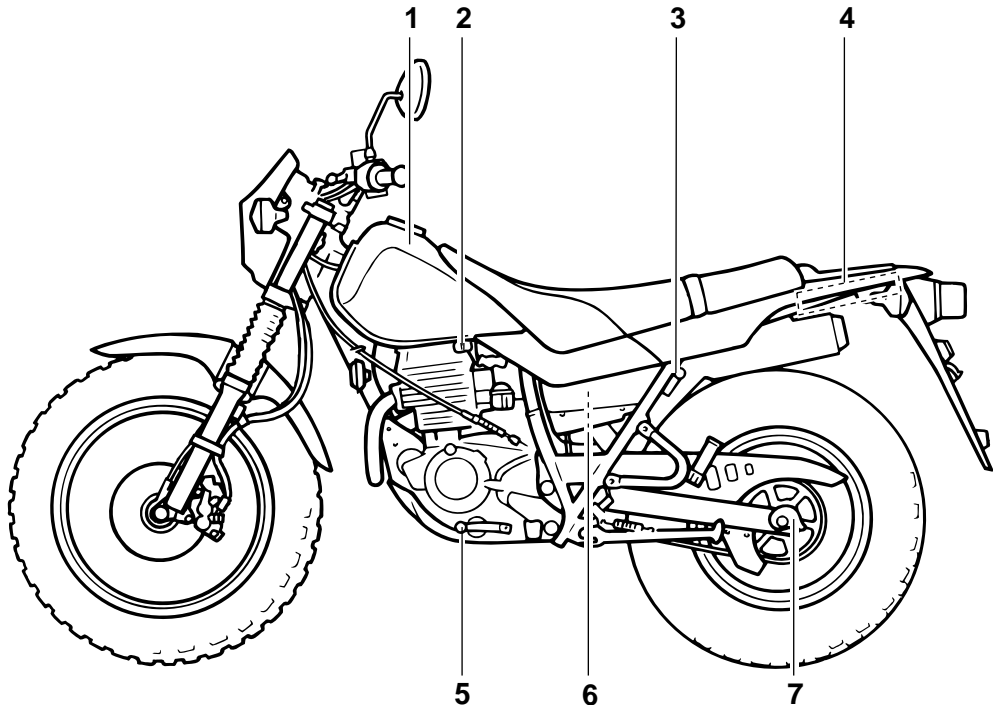
Regular care and maintenance are essential for preserving your motorcycle's value and operating condition. Moreover, what is true for the motorcycle is also true for the rider: good performance depends on being in good shape. Riding under the influence of medication, drugs and alcohol is, of course, out of the question. Motorcycle riders - more than car drivers - must always be at their mental and physical best. Under the influence of even small amounts of alcohol, there is a tendency to take dangerous risks.

Protective clothing is as essential for the motorcycle rider as seat belts are for car drivers and passengers. Always wear a complete motorcycle suit (whether made of leather or tear-resistant synthetic materials with protectors), sturdy boots, motorcycle gloves and a properly fitting helmet. Optimum protective wear, however, should not encourage carelessness. Though full-coverage helmets and suits, in particular, create an illusion of total safety and protection, motorcyclists will always be vulnerable. Riders who lack critical self-control run the risk of going too fast and are apt to take chances. This is even more dangerous in wet weather. The good motorcyclist rides safely, predictably and defensively - avoiding all dangers, including those caused by others.

Enjoy your ride!

DESCRIPTION

Left view



1. Fuel tank

(page 3-5)

2. Fuel cock

(page 3-7)

3. Helmet holder

(page 3-9)

4. Luggage straps

(page 3-10)

5. Shift pedal

(page 3-4)

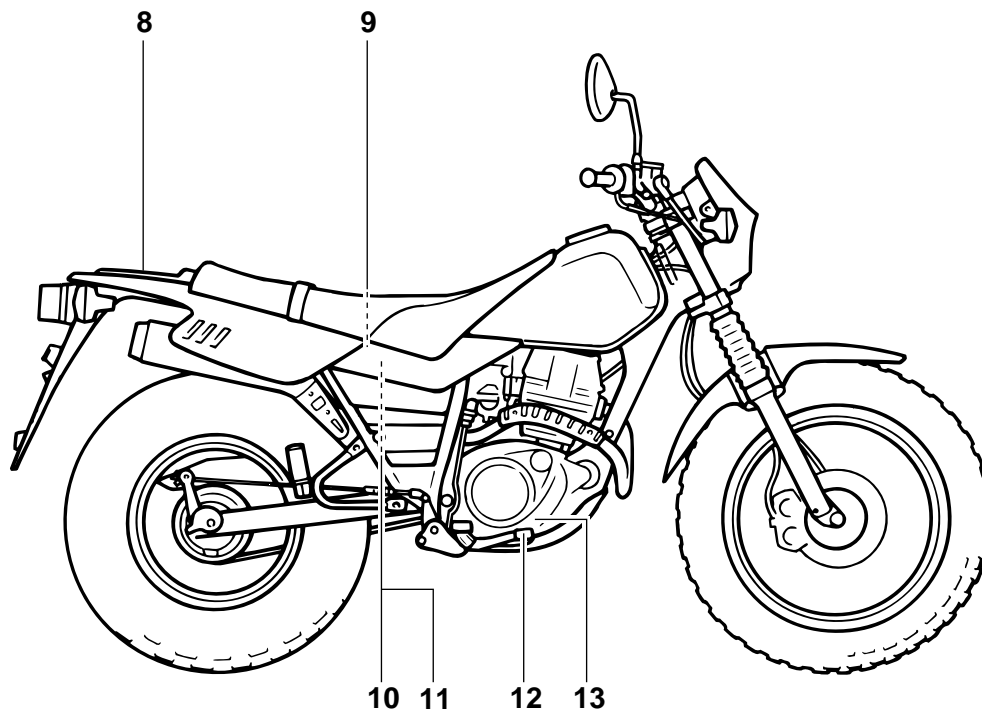
6. Air filter

(page 6-12)

7. Chain adjusting plates

(page 6-24)

Right view



- 8. Rear carrier
- 9. Battery
- 10. Fuse

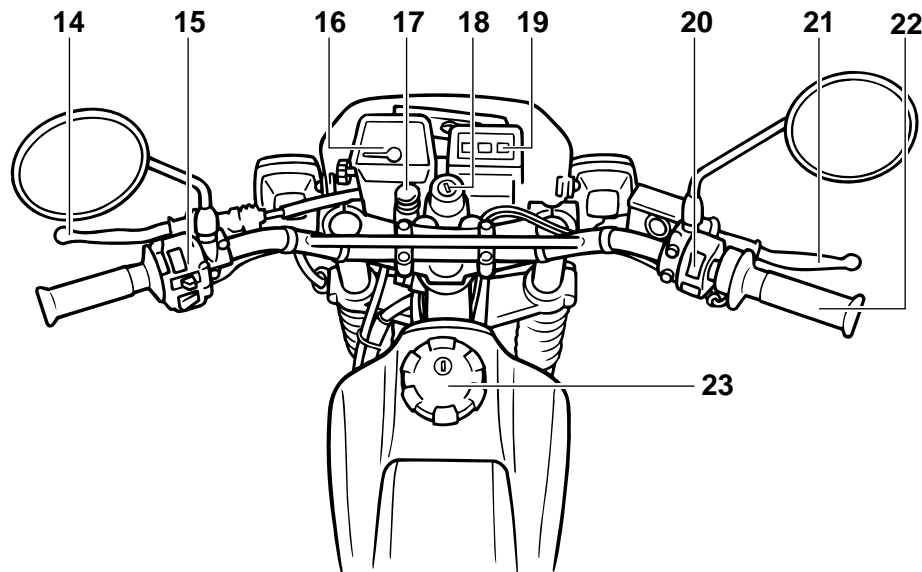
(page 3-10)
(page 6-30)
(page 6-31)

- 11. Tool kit
- 12. Rear brake pedal
- 13. Engine oil level check window

(page 6-1)
(page 3-5, 6-20)
(page 6-9)

DESCRIPTION

Controls/Instruments

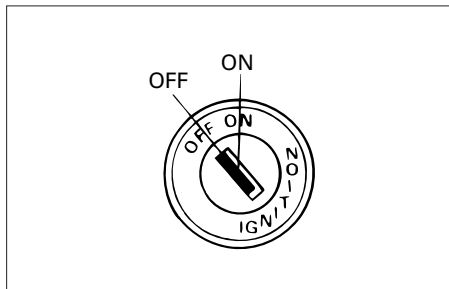


- 14. Clutch lever
- 15. Left handlebar switches
- 16. Speedometer
- 17. Starter (choke)
- 18. Main switch

(page 3-4, 6-19)
(page 3-2)
(page 3-2)
(page 3-8)
(page 3-1)

- 19. Indicator lights panel
- 20. Right handlebar switches
- 21. Front brake lever
- 22. Throttle grip
- 23. Fuel tank cap

(page 3-1)
(page 3-3)
(page 3-4, 6-19)
(page 6-15, 6-26)
(page 3-5)



EAU00028

Main switch

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

ON

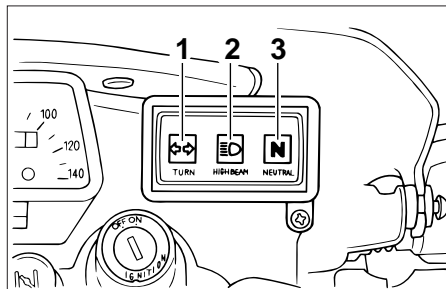
EAU00036

Electrical circuits are switched on. The engine can be started. The key cannot be removed in this position.

OFF

EAU00038

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



1. Turn indicator light “↔”
2. High beam indicator light “≡D”
3. Neutral indicator light “N”

EAU00056

Indicator lights

Turn indicator light “↔”

EAU00057

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

High beam indicator light “≡D”

EAU00063

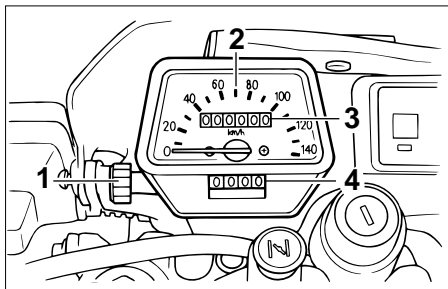
This indicator comes on when the headlight high beam is used.

Neutral indicator light “N”

EAU00061

This indicator comes on when the transmission is in neutral.

INSTRUMENT AND CONTROL FUNCTIONS



1. Reset knob
2. Speedometer
3. Odometer
4. Trip odometer

Speedometer

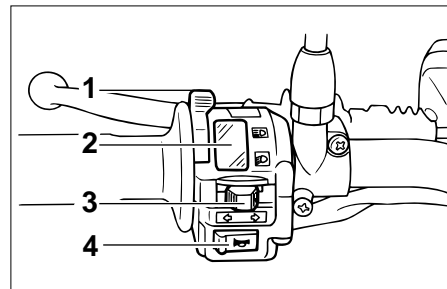
The speedometer shows riding speed. This speedometer is equipped with an odometer and trip odometer. The trip odometer can be reset to "0" with the reset knob. Use the trip odometer to estimate how far you can ride on a tank of fuel. This information will enable you to plan fuel stops in the future.

EAU01087

NOTE:

(for German model equipped with speed limiter only)

This motorcycle is equipped with a speed limiter which prevents it from exceeding a top speed of 80 km/h.



1. Lights switch
2. Dimmer switch
3. Turn signal switch
4. Horn switch "H"

Handlebar switches

EAU00118

Dimmer switch

EAU00121

Turn the switch to "H" for the high beam and to "L" for the low beam.

Turn signal switch

EAU00127

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

Horn switch "🔊"

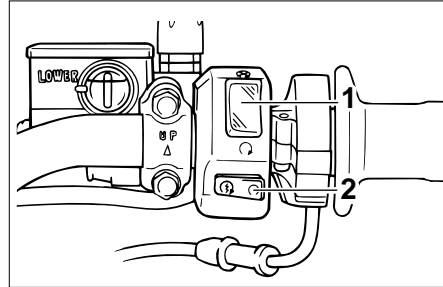
EAU00129

Press the switch to sound the horn.

Lights switch

EAU00134

Turning the light switch to "☞☛", turns on the auxiliary light, meter lights and taillight. Turning the light switch to "☀" turns the headlight on also.



1. Engine stop switch
2. Start switch "🌀"

EAU00138

Engine stop switch

The engine stop switch is a safety device for use in an emergency such as when the motorcycle overturns or if trouble occurs in the throttle system. Turn the switch to "🛑" to start the engine.

In case of emergency, turn the switch to "🛑" to stop the engine.

Start switch "🌀"

EAU00143

The starter motor cranks the engine when pushing the start switch.

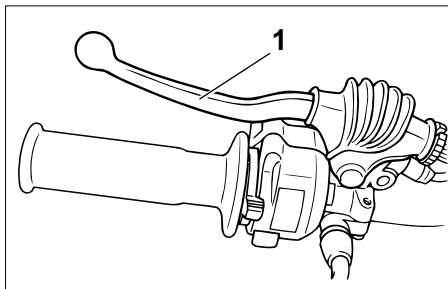
EC000005

CAUTION:

See starting instructions prior to starting the engine.

INSTRUMENT AND CONTROL FUNCTIONS

3

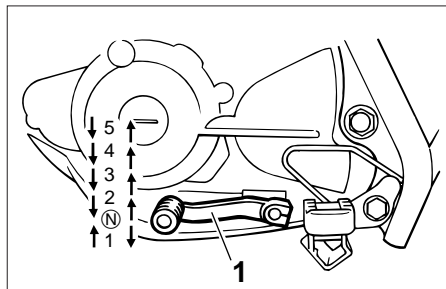


1. Clutch lever

EAU00152

Clutch lever

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



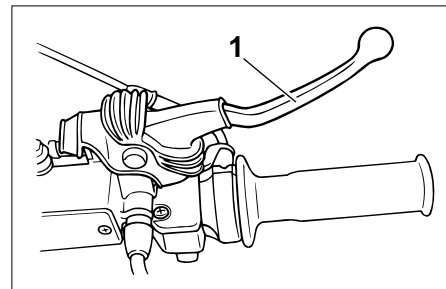
1. Shift pedal
N. Neutral

EAU00157

Shift pedal

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

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

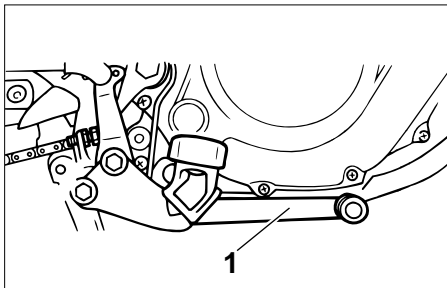


1. Front brake lever

EAU00158

Front brake lever

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

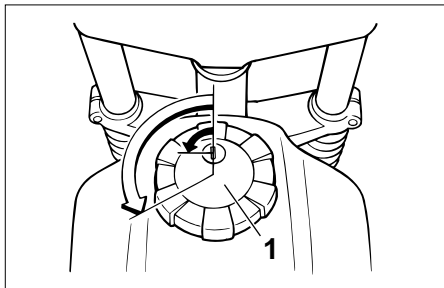


1. Rear brake pedal

EAU00162

Rear brake pedal

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



1. Fuel tank cap

EAU01498

Fuel tank cap

To open

Insert the key and turn it 1/4 turn counterclockwise. Open the cap by turning it counterclockwise.

To close

Turn the cap clockwise with the key inserted. To remove the key, turn it clockwise to the original position.

NOTE:

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

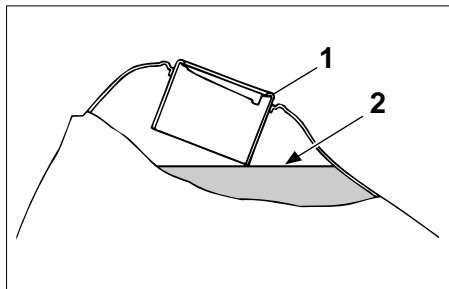
EW000023

WARNING

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

INSTRUMENT AND CONTROL FUNCTIONS

3



1. Filler tube
2. Fuel level

EAU001183

Fuel

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

EW000130

⚠ WARNING

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

EAU00185

CAUTION:

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

EAU00191

Recommended fuel:

Regular unleaded gasoline with a research octane number of 91 or higher.

Fuel tank capacity:

Total:

7.0 L

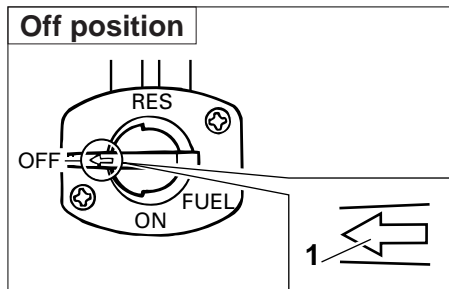
Reserve:

1.0 L

NOTE:

If knocking or pinging occurs, use a different brand of gasoline or higher octane grade.

INSTRUMENT AND CONTROL FUNCTIONS



1. Arrow mark positioned over "OFF"

EAU01121

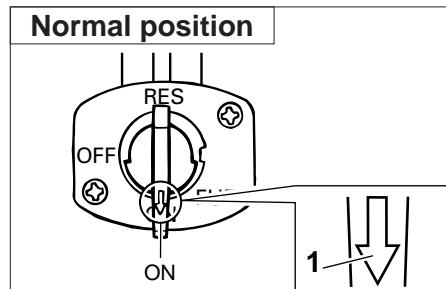
Fuel cock

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

The fuel cock has three positions:

OFF

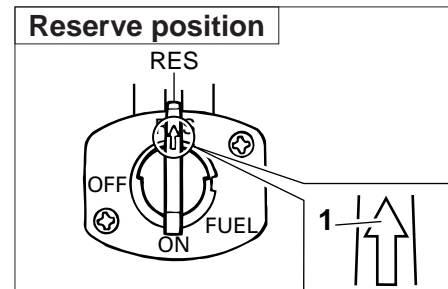
With the lever in this position, fuel will not flow. Always return the lever to this position when the engine is not running.



1. Arrow mark positioned over "ON"

ON

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

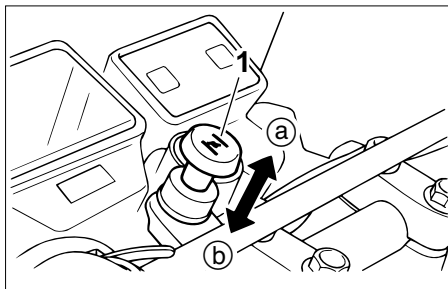


1. Arrow mark positioned over "RES"

RES

This 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 fuel cock back to "ON" after refueling!

INSTRUMENT AND CONTROL FUNCTIONS



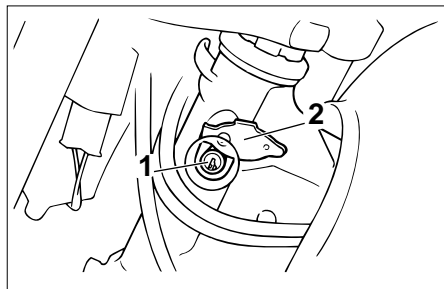
1. Starter (choke) “N”

EAU02976

Starter (choke) “N”

Starting a cold engine requires a richer air-fuel mixture. A separate starter circuit supplies this mixture. Move in direction ① to turn on the starter (choke).

Move in direction ② to turn off the starter (choke).



1. Steering lock
2. Cover

EAU02934

Steering lock

To lock the steering

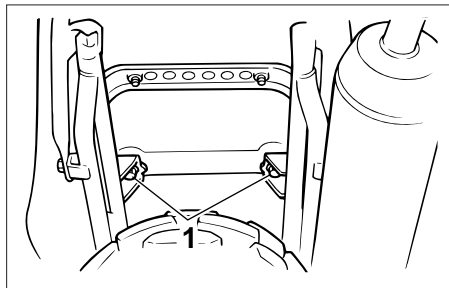
Turn the handlebars all the way to the right and open the steering lock cover.

Insert the key and turn it 1/8 turn counterclockwise. Then, push the key in while turning the handlebars slightly to the left and turn the key 1/8 turn clockwise.

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

To unlock the steering

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

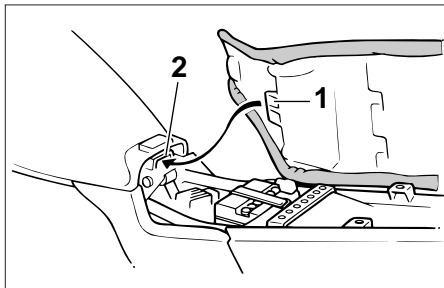


1. Bolt (×2)

EAU01092

Seat

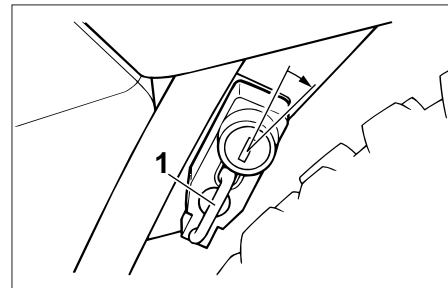
To remove the seat, remove the bolts.



1. Projection
2. Seat holder

To install the seat, insert the projection on the front of the seat into the holder and push down on the seat, then tighten the bolts.

NOTE: _____
Make sure that the seat is securely fitted.



1. Helmet holder

EAU00260

Helmet holder

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

EW000030

⚠ WARNING

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

INSTRUMENT AND CONTROL FUNCTIONS

Rear shock absorber

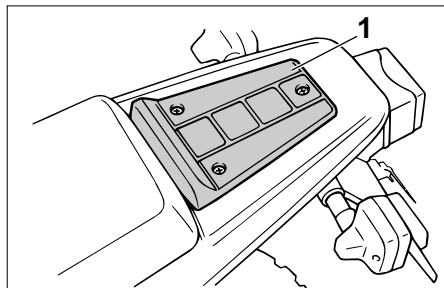
EAU01343

EAU00315

⚠ WARNING

This shock absorber contains highly pressurized nitrogen gas. Read and understand the following information before handling the shock absorber. The manufacturer cannot be held responsible for property damage or personal injury that may result from improper handling.

- Do not tamper with or attempt to open the cylinder assembly.
- Do not subject the shock absorber to an open flame or other high heat source. This may cause the unit to explode due to excessive gas pressure.
- Do not deform or damage the cylinder in any way. Cylinder damage will result in poor damping performance.
- Take your shock absorber to a Yamaha dealer for any service.



1. Rear carrier

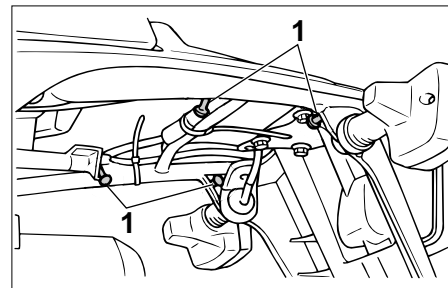
Rear carrier

EAU00320

EW000032

⚠ WARNING

Do not exceed the load limit of 3 kg.



1. Luggage strap (×4)

EAU01493

Luggage strap holders

There are four luggage strap holders below the rear carrier.

Sidestand

EAU00330

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

EW000044

⚠ WARNING

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

INSTRUMENT AND CONTROL FUNCTIONS

Sidestand/clutch switch operation check

EAU00331

Check the operation of the side-stand switch and clutch switch against the information below.

TURN THE MAIN SWITCH TO "ON" AND THE ENGINE STOP SWITCH TO "O".

TRANSMISSION IS IN GEAR AND SIDESTAND IS UP.

PULL IN CLUTCH LEVER AND PUSH THE START SWITCH.

ENGINE WILL START.

CLUTCH SWITCH IS OK.

SIDESTAND IS DOWN.

ENGINE WILL STALL.

SIDESTAND SWITCH IS OK.

⚠ WARNING

EW000045

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

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

PRE-OPERATION CHECK LIST

EAU00340

ITEM	CHECKS	PAGE
Front brake	<ul style="list-style-type: none"> • Check operation, free play, fluid level and vehicle for fluid leakage. • Fill with DOT 4 (or DOT 3) brake fluid if necessary. 	3-4, 6-19 ~ 6-20, 6-22 ~ 6-23
Rear brake	<ul style="list-style-type: none"> • Check operation, condition and free play. • Adjust if necessary. 	3-5, 6-20 ~ 6-22
Clutch	<ul style="list-style-type: none"> • Check operation, condition and free play. • Adjust if necessary. 	3-4, 6-19
Throttle grip and housing	<ul style="list-style-type: none"> • Check for smooth operation. • Lubricate if necessary. 	6-15, 6-26
Engine oil	<ul style="list-style-type: none"> • Check oil level. • Fill with oil if necessary. 	6-9 ~ 6-12
Drive chain	<ul style="list-style-type: none"> • Check chain slack and condition. • Adjust if necessary. 	6-24 ~ 6-25
Wheels and tires	<ul style="list-style-type: none"> • Check tire pressure, wear, damage and spoke tightness. • Tighten spokes if necessary. 	6-16 ~ 6-18
Brake and shift pedal shafts	<ul style="list-style-type: none"> • Check for smooth operation. • Lubricate if necessary. 	6-27
Brake and clutch lever pivots	<ul style="list-style-type: none"> • Check for smooth operation. • Lubricate if necessary. 	6-27
Sidestand pivot	<ul style="list-style-type: none"> • Check for smooth operation. • Lubricate if necessary. 	6-27
Chassis fasteners	<ul style="list-style-type: none"> • Make sure that all nuts, bolts and screws are properly tightened. • Tighten if necessary. 	—

PRE-OPERATION CHECKS

ITEM	CHECKS	PAGE
Fuel tank	<ul style="list-style-type: none">• Check fuel level.• Fill with fuel if necessary.	3-5 ~ 3-7
Lights, signals and switches	<ul style="list-style-type: none">• Check for proper operation.	6-32 ~ 6-34
Battery	<ul style="list-style-type: none">• Check fluid level.• Fill with distilled water if necessary.	6-30 ~ 6-31

NOTE: _____

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

⚠ WARNING

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

⚠ WARNING

EAU00373

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

Starting the engine

EAU03011

NOTE:

This motorcycle is equipped with an ignition circuit cut-off system. The engine can be started only under one of the following conditions:

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

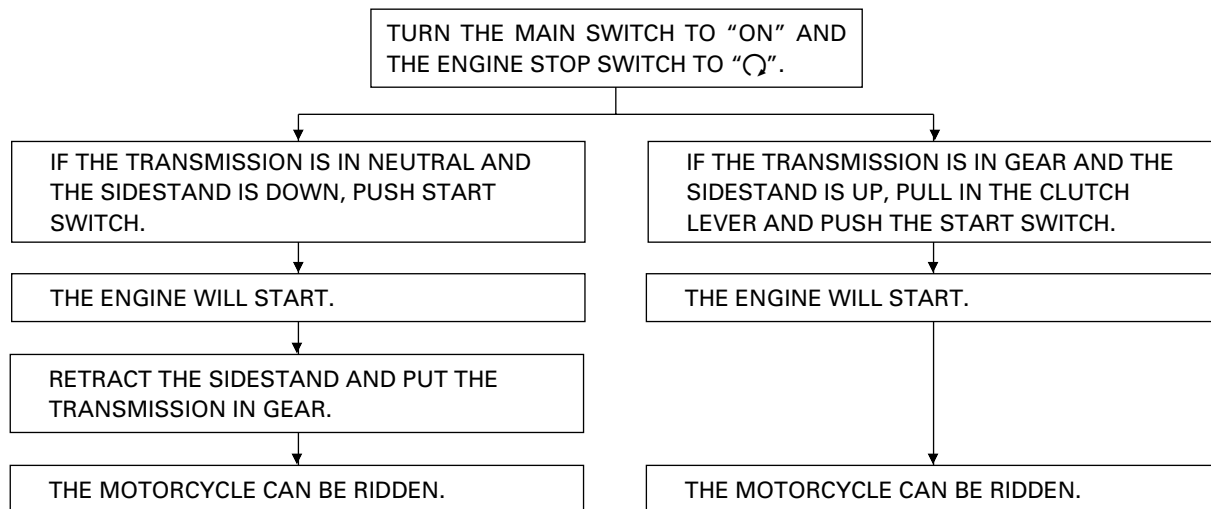
The motorcycle must not be ridden when the sidestand is down.

⚠ WARNING

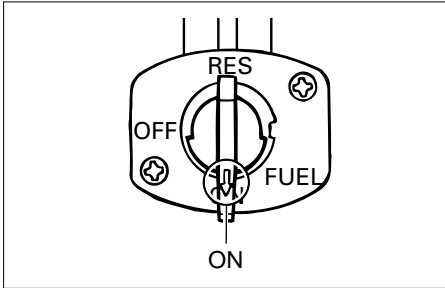
EW000054

Before going through the following steps, check the function of the sidestand switch and clutch switch. (Refer to page 3-12.)

OPERATION AND IMPORTANT RIDING POINTS



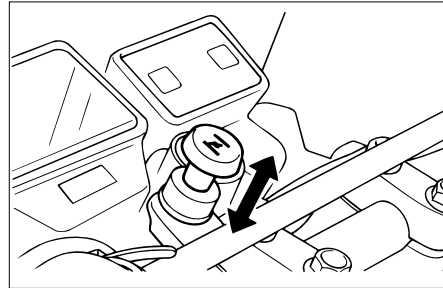
OPERATION AND IMPORTANT RIDING POINTS



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

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

4. Turn on the starter (choke) and completely close the throttle grip.



5. Start the engine by pushing the start switch.

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

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

NOTE: _____
For maximum engine life, never accelerate hard with a cold engine!

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

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

OPERATION AND IMPORTANT RIDING POINTS

Starting a warm engine

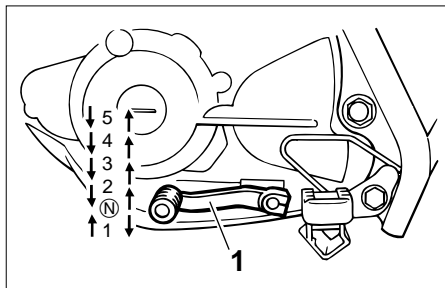
The starter (choke) is not required when the engine is warm.

EAU01258

EC000046

CAUTION:

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



1. Shift pedal
N. Neutral

EAU00423

Shifting

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

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

EC000048

CAUTION:

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

Tips for reducing fuel consumption

EAU00424

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

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

Engine break-in

EAU01128

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

0 ~ 1,000 km

EAU01500

Avoid operation above 1/3 throttle.

1,000 ~ 1,600 km

Avoid cruising speeds in excess of 1/2 throttle.

EC000057

CAUTION:

After 1,000 km of operation, be sure to replace the engine oil and clean the oil filter element and oil strainer.

1,600 km and beyond

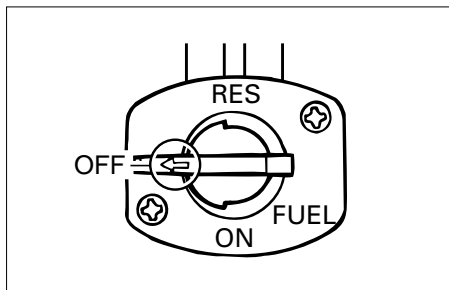
Proceed with normal riding.

EC000049

CAUTION:

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

OPERATION AND IMPORTANT RIDING POINTS



EAU00457

Parking

5

When parking the motorcycle, stop the engine and remove the ignition key. Turn the fuel cock to “OFF” whenever stopping the engine.

EW000058

⚠WARNING

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

PERIODIC MAINTENANCE AND MINOR REPAIR

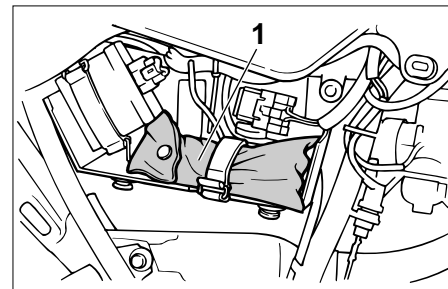
EAU00464

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

EW000060

⚠ WARNING

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



1. Tool kit

EAU01175

Tool kit

The tool kit is located behind panel B. (See page 6-7 for panel removal and installation procedures.) The tools provided in the owner's tool kit are to assist you in the performance of periodic maintenance. However, some other tools such as a torque wrench are also necessary to perform the maintenance correctly.

The service information included in this manual is intended to provide you, the owner, with the necessary information for completing some of your own preventive maintenance and minor repairs.

PERIODIC MAINTENANCE AND MINOR REPAIR

NOTE: _____

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

EW000063

⚠ WARNING _____

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

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU00473

PERIODIC MAINTENANCE AND LUBRICATION

No.	ITEM	CHECKS AND MAINTENANCE JOBS	INITIAL 1,000 km	Every 6,000 km or 6 months (Whichever comes first)	Every 12,000 km or 12 months (Whichever comes first)
1 *	Fuel line	<ul style="list-style-type: none"> • Check fuel hoses for cracks or damage. • Replace if necessary. 		✓	✓
2	Spark plug	<ul style="list-style-type: none"> • Check condition. • Clean, regap or replace if necessary. 	✓	✓	✓
3 *	Valves	<ul style="list-style-type: none"> • Check valve clearance. • Adjust if necessary. 	✓	✓	✓
4	Air filter	<ul style="list-style-type: none"> • Clean or replace if necessary. 		✓	✓
5 *	Battery	<ul style="list-style-type: none"> • Check electrolyte level and specific gravity. • Correct or recharge if necessary. • Make sure that the breather hose is properly routed. 		✓	✓
6	Clutch	<ul style="list-style-type: none"> • Check operation. • Adjust or replace cable. 	✓	✓	✓
7 *	Front brake	<ul style="list-style-type: none"> • Check operation, fluid level and vehicle for fluid leakage. (See NOTE on page 6-5.) • Correct accordingly. • Replace brake pads if necessary. 	✓	✓	✓
8 *	Rear brake	<ul style="list-style-type: none"> • Check operation. • Adjust brake pedal freeplay and replace brake shoes if necessary. 	✓	✓	✓
9 *	Wheels	<ul style="list-style-type: none"> • Check balance, runout, spoke tightness and for damage. • Tighten spokes and rebalance, replace if necessary. 		✓	✓
10 *	Tires	<ul style="list-style-type: none"> • Check tread depth and for damage. • Replace if necessary. • Check air pressure. • Correct if necessary. 		✓	✓

PERIODIC MAINTENANCE AND MINOR REPAIR

No.	ITEM	CHECKS AND MAINTENANCE JOBS	INITIAL 1,000 km	Every 6,000 km or 6 months (Whichever comes first)	Every 12,000 km or 12 months (Whichever comes first)
11	* Wheel bearings	<ul style="list-style-type: none"> • Check bearing for looseness or damage. • Replace if necessary. 		√	√
12	* Swingarm	<ul style="list-style-type: none"> • Check swingarm pivoting point for play. • Correct if necessary. • Lubricate with lithium soap base grease. 		√	√
13	Drive chain	<ul style="list-style-type: none"> • Check chain slack. • Adjust if necessary. Make sure that the rear wheel is properly aligned. • Clean and lubricate. 	Every 500 km and after washing the motorcycle or riding in the rain		
14	* Steering bearings	<ul style="list-style-type: none"> • Check bearing play and steering for roughness. • Correct accordingly. • Lubricate with lithium soap base grease every 24,000 km or 24 months (whichever comes first). 		√	√
15	* Chassis fasteners	<ul style="list-style-type: none"> • Make sure that all nuts, bolts and screws are properly tightened. • Tighten if necessary. 		√	√
16	Sidestand	<ul style="list-style-type: none"> • Check operation. • Lubricate and repair if necessary. 		√	√
17	* Sidestand switch	<ul style="list-style-type: none"> • Check operation. • Replace if necessary. 	√	√	√
18	* Front fork	<ul style="list-style-type: none"> • Check operation and for oil leakage. • Correct accordingly. 		√	√
19	* Rear shock absorber assembly	<ul style="list-style-type: none"> • Check operation and shock absorber for oil leakage. • Replace shock absorber assembly if necessary. 		√	√
20	Rear shock absorber assembly pivoting points	<ul style="list-style-type: none"> • Check operation. • Lubricate with lithium soap base grease every 24,000 km or 24 months (whichever comes first). 		√	√

PERIODIC MAINTENANCE AND MINOR REPAIR

No.	ITEM	CHECKS AND MAINTENANCE JOBS	INITIAL 1,000 km	Every 6,000 km or 6 months (Whichever comes first)	Every 12,000 km or 12 months (Whichever comes first)
21	* Carburetor	<ul style="list-style-type: none"> • Check engine idling speed and starter operation. • Adjust if necessary. 	√	√	√
22	Engine oil	<ul style="list-style-type: none"> • Check oil level and vehicle for oil leakage. • Correct if necessary. • Change. (Warm engine before draining.) 	√	√	√
23	Engine oil filter element	<ul style="list-style-type: none"> • Clean or replace if necessary. 	√		√
24	* Engine oil strainer	<ul style="list-style-type: none"> • Clean or replace if necessary. 	√		√

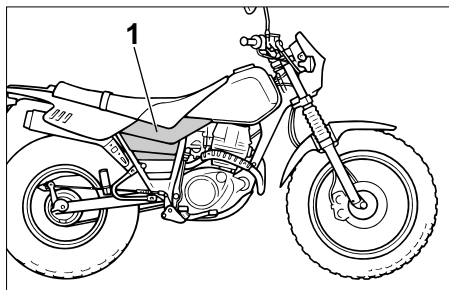
*: Since these items require special tools, data and technical skills, they should be serviced by a Yamaha dealer.

EAU02970

NOTE:

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

PERIODIC MAINTENANCE AND MINOR REPAIR



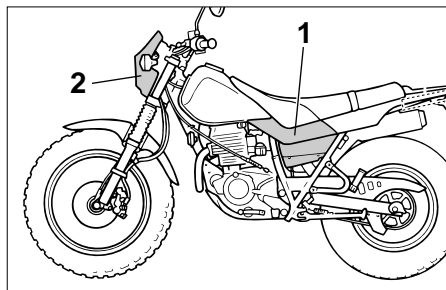
1. Panel B

EAU01139

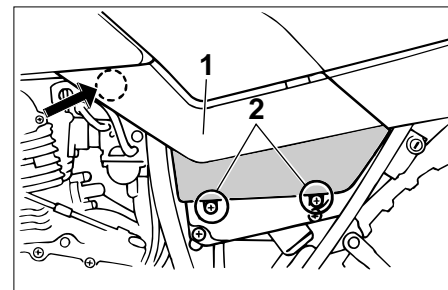
Cowling and panel removal and installation

The cowlings and panels illustrated need to be removed to perform some of the maintenance described in this chapter.

Refer to this section each time a cawling or panel has to be removed or reinstalled.



1. Panel A
2. Cowling C



1. Panel A
2. Screw (x2)

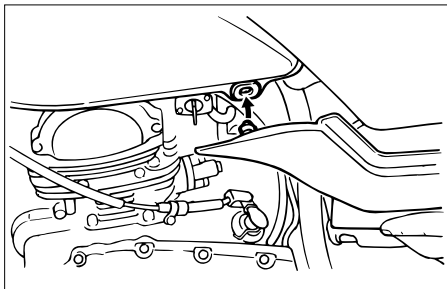
EAU01492

Panel A

To remove

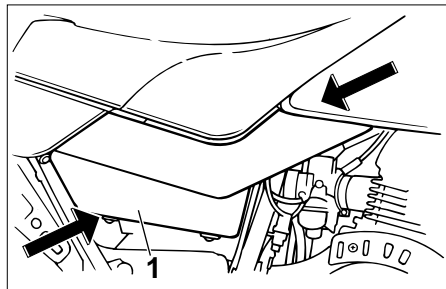
Remove the screws and pull outward on the area shown.

PERIODIC MAINTENANCE AND MINOR REPAIR



To install

Place the panel in the original position and install the screws.



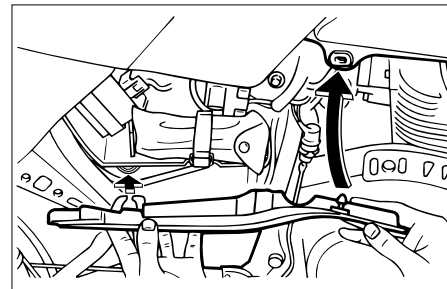
1. Panel B

EAU00494

Panel B

To remove

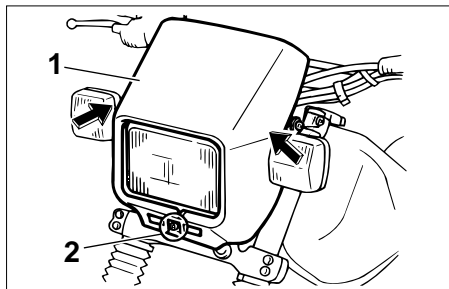
Pull outward on the areas shown.



To install

Place the panel in its original position.

PERIODIC MAINTENANCE AND MINOR REPAIR



1. Cowling C
2. Screw

EAU01145

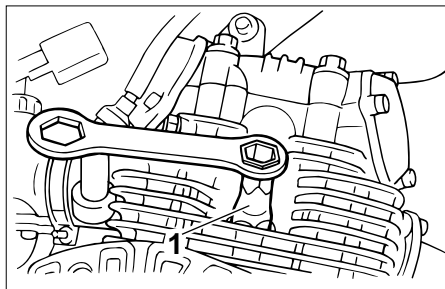
Cowling C

To remove

Remove the cowling screw and pull outward on the areas shown.

To install

Place in the original position and install the screw.



1. Spark plug wrench

EAU01833

Spark plug

Removal

1. Remove the spark plug cap.
2. Use the spark plug wrench in the tool kit to remove the spark plug as shown.

Inspection

The spark plug is an important engine component and is easy to inspect. The condition of the spark plug can indicate the condition of the engine.

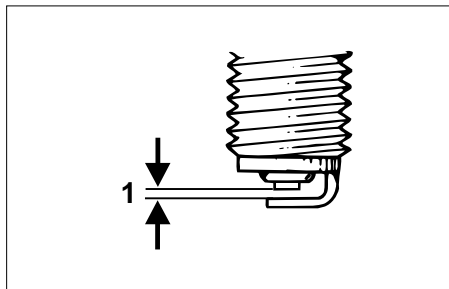
The ideal color on the white insulator around the center electrode is a medium-to-light tan color for a motorcycle that is being ridden normally.

Do not attempt to diagnose such problems yourself. Instead, take the motorcycle to a Yamaha dealer. You should periodically remove and inspect the spark plug because heat and deposits will cause any spark plug to slowly break down and erode. If electrode erosion becomes excessive, or if carbon and other deposits are excessive, you should replace the spark plug with the specified plug.

Specified spark plug:
DR8EA (NGK)

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU00517*



1. Spark plug gap

Installation

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

Spark plug gap:
0.6 ~ 0.7 mm

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

Tightening torque:
Spark plug:
17.5 Nm (1.75 m·kg)

NOTE:

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

4. Install the spark plug cap.

Engine oil

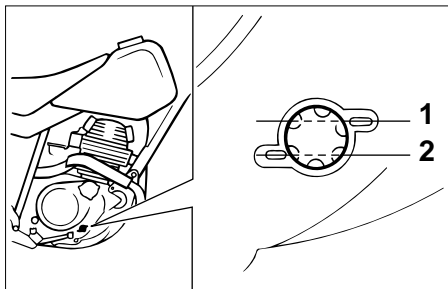
Oil level measurement

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

NOTE:

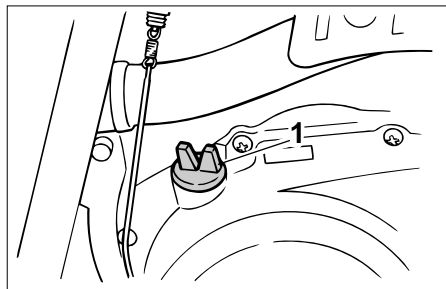
Be sure the motorcycle is positioned straight up when checking the oil level. A slight tilt toward the side can result in false readings.

PERIODIC MAINTENANCE AND MINOR REPAIR



1. Maximum level mark
2. Minimum level mark

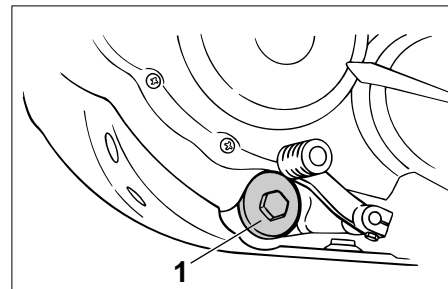
2. With the engine stopped, check the oil level through the level window located at the lower part of the right side crankcase cover.



1. Engine oil filler cap

Engine oil replacement

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



1. Engine oil drain bolt

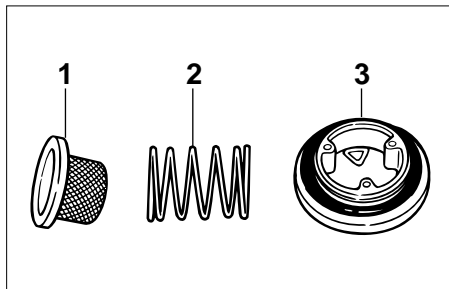
3. Remove the drain bolts.

NOTE:

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

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

PERIODIC MAINTENANCE AND MINOR REPAIR

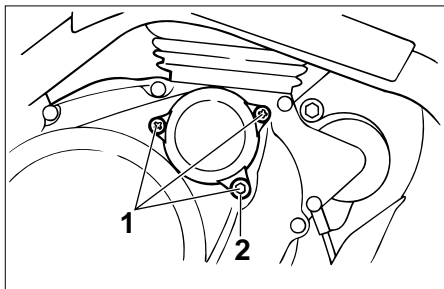


1. Strainer
2. Compression spring
3. O-ring

EC000070

CAUTION:

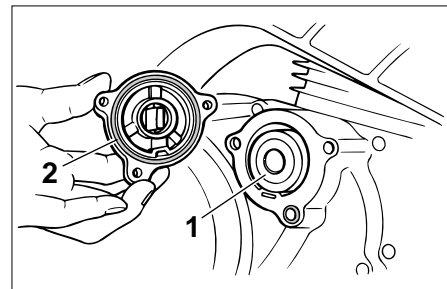
When removing the oil drain bolt, the O-ring, compression spring, and oil strainer will fall out. Take care not to lose these parts.



1. Bolts (×3)
2. Engine oil drain bolt

NOTE:

The oil filter cover is secured by two screws and a drain bolt. Remove the drain bolt to drain the filter cavity.



1. Oil filter element
2. O-ring
4. Remove the filter cover screws and the oil filter cover.
5. Remove the oil filter element and O-ring.
6. Clean the oil filter and strainer with solvent. Replace if necessary.
7. Check the O-rings. If damaged, replace.
8. Install the filter cover, screws and drain bolts. Tighten the drain bolts to the specified tightening torques.

NOTE:

Make sure the O-ring is seated properly.

PERIODIC MAINTENANCE AND MINOR REPAIR

EC000071

CAUTION:

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

Tightening torque:

Drain bolt:

43 Nm (4.3 m·kg)

Filter cover screw:

7.0 Nm (0.7 m·kg)

Drain bolt (filter cover):

10 Nm (1.0 m·kg)

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

Recommended oil:

See page 8-1.

Total amount:

1.3 L

Periodic oil change:

1.0 L

With oil filter replacement:

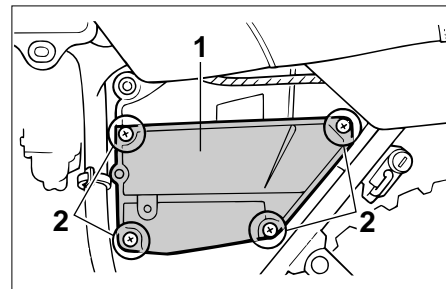
1.1 L

EC000066

CAUTION:

- Do not put in any chemical additives. Engine oil also lubricates the clutch and additives could cause clutch slippage.
- Be sure no foreign material enters the crankcase.

10. Start the engine and warm up for a few minutes. While warming up, check for oil leakage. If oil leakage is found, stop the engine immediately and check for the cause.



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

EAU01501*

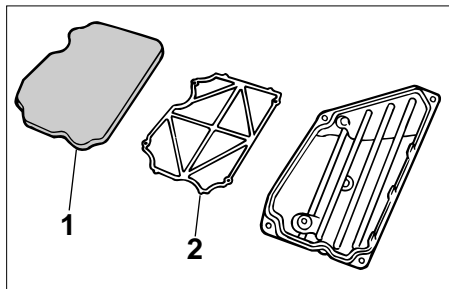
Air filter

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

Air filter element cleaning

1. Remove panel A. (See page 6-6 for removal and installation procedures.)
2. Remove the air filter case fitting screws and the filter case cover.

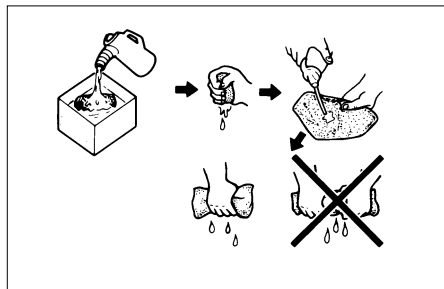
PERIODIC MAINTENANCE AND MINOR REPAIR



1. Air filter element
2. Air filter element frame

3. Remove the air filter from the case.
4. Remove the air filter element from its frame and clean it with solvent. After cleaning, remove the remaining solvent by squeezing the element.
5. Apply recommended oil to the entire surface of the element and squeeze out the excess oil. The element should be wet but not dripping.

Recommended oil:
Engine oil

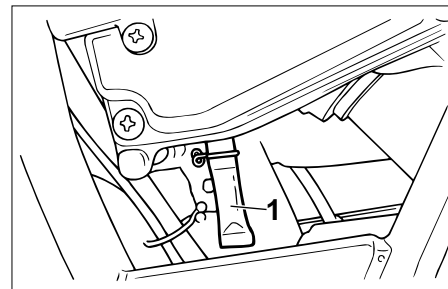


6. Install the air filter frame onto the air filter and install the assembly in the case.
7. Install the air filter case cover and panel.

EC000082

CAUTION:

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



1. Hose

Air filter case drain hose cleaning

Frequently check the hose at the bottom of the air filter case. If dirt or water is visible, remove and clean the hose, then reinstall it.

PERIODIC MAINTENANCE AND MINOR REPAIR

Carburetor adjustment

EAU00629

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

CAUTION:

EC000094

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

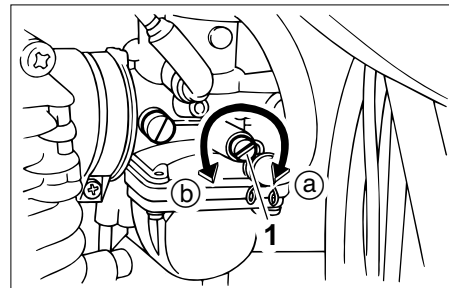
Idle speed adjustment

EAU01168

NOTE:

A diagnostic tachometer must be used for this procedure.

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

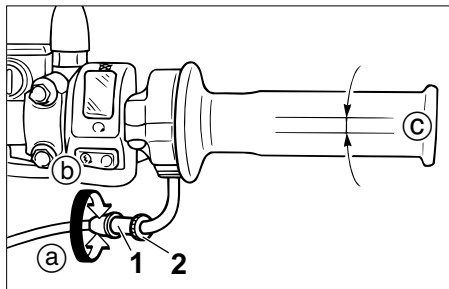


1. Throttle stop screw
2. Set the idle to the specified engine speed by adjusting the throttle stop screw. Turn the screw in direction ① to increase engine speed and in direction ② to decrease engine speed.

Standard idle speed:
1,300 ~ 1,500 r/min

NOTE:

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



- 1. Adjusting nut
- 2. Locknut
- c. Free play

EAU00634

Throttle cable free play adjustment

NOTE: _____

Before checking the throttle cable free play, the engine idling speed should be adjusted.

Adjust the throttle cable by turning the adjusting nut so that specified free play at the throttle grip is obtained.

Free play:
3 ~ 5 mm

1. Loosen the locknut.
2. Turn the adjusting nut in direction (a) to increase free play and in direction (b) to decrease free play.
3. Tighten the locknut.

EAU00637

Valve clearance adjustment

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

PERIODIC MAINTENANCE AND MINOR REPAIR

Tires

EAU00652

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

Tire air pressure

Always check and adjust the tire pressure before operating the motorcycle.

EW000082

⚠ WARNING

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

Maximum load*	180 kg	
Cold tire pressure	Front	Rear
Up to 80 kg	150 kPa (1.50 kg/cm ² , 1.50 bar)	150 kPa (1.50 kg/cm ² , 1.50 bar)
80 kg load - Maximum load*	150 kPa (1.50 kg/cm ² , 1.50 bar)	175 kPa (1.75 kg/cm ² , 1.75 bar)
Off-road riding	125 kPa (1.25 kg/cm ² , 1.25 bar)	125 kPa (1.25 kg/cm ² , 1.25 bar)

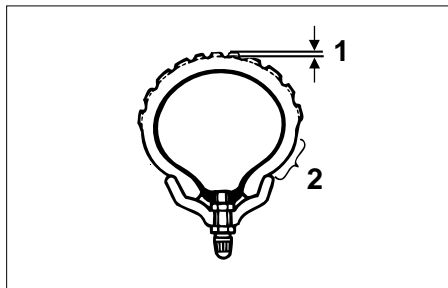
* Load is the total weight of cargo, rider, passenger and accessories.

EW000083

⚠ WARNING

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

PERIODIC MAINTENANCE AND MINOR REPAIR



1. Tread depth
2. Side wall

Tire inspection

Always check the tires before operating the motorcycle. If center tread depth reaches the limit as shown, if the tire has a nail or glass fragments in it, or if the side wall is cracked, contact a Yamaha dealer immediately and have the tire replaced.

⚠ WARNING

After extensive tests, the tires mentioned below have been approved by Yamaha Motor Co., Ltd. for this model. No guarantee for handling characteristics can be given if tire combinations other than what is approved are used on this motorcycle. The front and rear tires should be of the same manufacture and design.

EW000078

FRONT

Manufacture	Size	Type
BRIDGESTONE	130/80-18 66P	TW31

REAR

Manufacture	Size	Type
BRIDGESTONE	180/80-14M/C 78P	TW34

Minimum tire tread depth (front and rear)	1.6 mm
---	--------

NOTE:

These limits may be different by regulation from country to country. If so, conform to the limits specified by the regulations of your own country.

PERIODIC MAINTENANCE AND MINOR REPAIR

⚠ WARNING

EAU00681

- **Operating the motorcycle with excessively worn tires decrease riding stability and can lead to loss of control. Have excessively worn tires replaced by a Yamaha dealer immediately. Brakes, tires, and related wheel parts replacement should be left to a Yamaha Service Technician.**
 - **Patching a punctured tube is not recommended. If it is absolutely necessary to do so, use great care and replace the tube as soon as possible with a good quality replacement.**
-

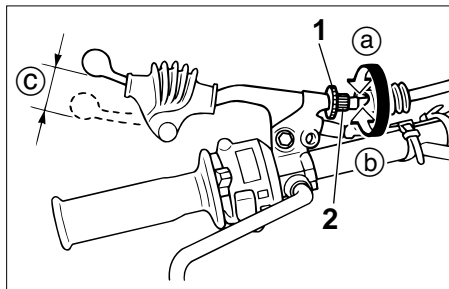
EAU00685

Wheels

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

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

- Ride at moderate speeds after changing a tire since the tire surface must first be broken in for it to develop its optimal characteristics.



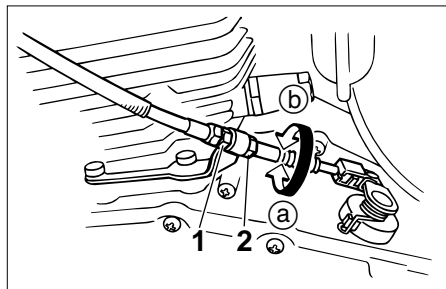
1. Locknut
2. Adjusting bolt
- c. Free play

Clutch lever free play adjustment

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

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

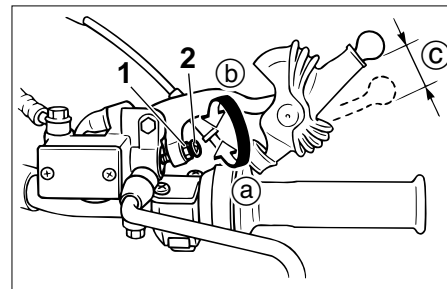
EAU00694



1. Locknut
2. Adjusting nut

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

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



1. Locknut
2. Adjusting bolt
- c. Free play

Front brake lever free play adjustment

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

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

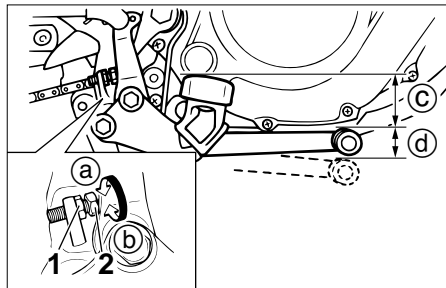
EAU00696

PERIODIC MAINTENANCE AND MINOR REPAIR

⚠ WARNING

EW000099

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



1. Locknut
2. Adjusting bolt
- c. Pedal height
- d. Free play

EAU00707

Rear brake pedal height and free play adjustment

EW000104

⚠ WARNING

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

Pedal height

The brake pedal should be positioned so that its top end is approximately 15 mm below the top of the footrest.

1. Loosen the locknut.

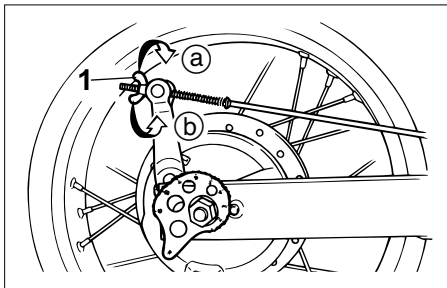
2. Turn the adjusting bolt in direction **a** to raise pedal height or in direction **b** to lower pedal height.
3. Tighten the locknut.

EW000105

⚠ WARNING

After adjusting the pedal height adjust brake pedal free play.

PERIODIC MAINTENANCE AND MINOR REPAIR



1. Adjusting nut

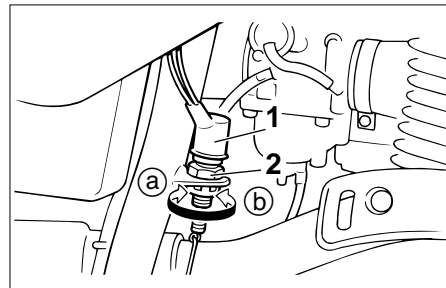
Free play

The rear brake pedal free play should be adjusted to 20 ~ 30 mm at the brake pedal end. Turn the adjusting nut on the brake rod in direction ① to increase free play or in direction ② to decrease free play.

EW000106

⚠ WARNING

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



1. Brake light switch
2. Adjusting nut

EAU00713

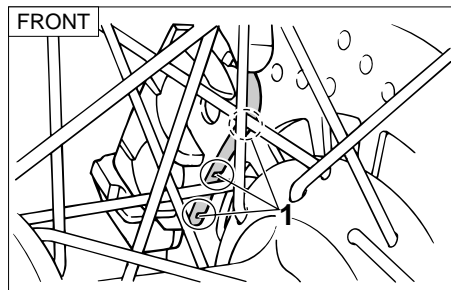
Brake light switch adjustment

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

Turn the adjusting nut in direction ① to make the brake light come on earlier.

Turn the adjusting nut in direction ② to make the brake light come on later.

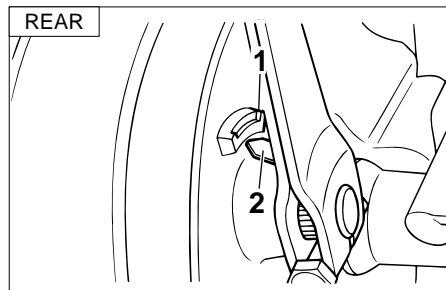
PERIODIC MAINTENANCE AND MINOR REPAIR



1. Indicator grooves

EAU00720

Checking the front brake pads and rear brake shoes



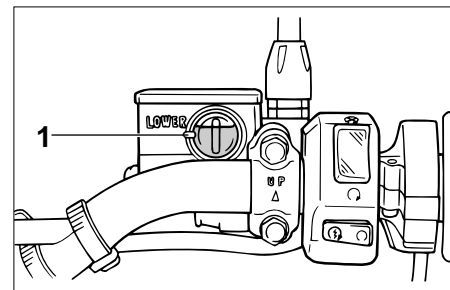
1. Wear limit line
2. Wear indicator

EAU00727

Rear brake

Apply the brake and inspect the wear indicator.

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



1. Minimum level mark

EAU00732

Inspecting the brake fluid level

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

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

Observe these precautions:

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

PERIODIC MAINTENANCE AND MINOR REPAIR

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

Recommended brake fluid:
DOT 4

NOTE: _____

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

- Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor brake performance.
- Be careful that water does not enter the master cylinder when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock.

- Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fluid immediately.
- Have a Yamaha dealer check the cause if the brake fluid level goes down.

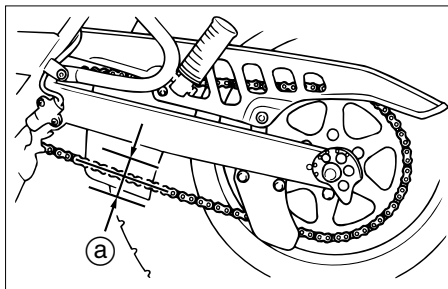
Brake fluid replacement

EAU00742

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

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

PERIODIC MAINTENANCE AND MINOR REPAIR



a. Chain slack

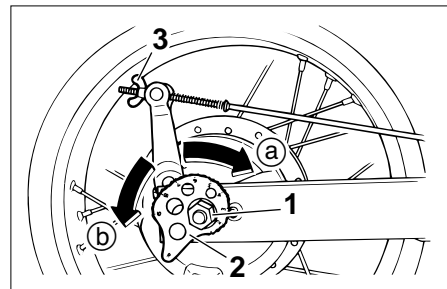
EAU00744

Drive chain slack check

NOTE:

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

To check the chain slack the motorcycle must be held straight up with both wheels on the ground and without rider. Check the slack at the position shown in the illustration. Normal slack is approximately 35 ~ 60 mm. If the slack exceeds 60 mm, adjust.



1. Wheel axle nut
2. Chain adjusting plate
3. Rear brake adjusting nut

EAU01533

Drive chain slack adjustment

1. Loosen the rear brake adjusting nut.
2. Loosen the wheel axle nut.
3. To tighten the chain, turn the chain adjusting plates in direction ①. To loosen the chain, turn the chain adjusting plates in direction ② and push the wheel forward. Turn each chain adjusting plate to exactly the same position to maintain correct axle alignment.

PERIODIC MAINTENANCE AND MINOR REPAIR

EC000096

CAUTION:

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

4. Tighten the wheel axle nut to the specified torque.

Tightening torque:
Wheel axle nut:
90 Nm (9.0 m·kg)

5. Adjust the brake pedal free play.

EW000103

⚠ WARNING

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

EAU01106*

Drive chain lubrication

The chain consists of many parts which work with each other. If the chain is not maintained properly, it will wear out quickly. Therefore, the chain must be serviced regularly. This service is especially necessary when riding in dusty areas.

The drive chain should be lubricated every 500 km. First, remove all dirt and mud from the chain with a brush or cloth. Then, spray any of the many brands of spray-type chain lubricant between both rows of side plates and on all center rollers.

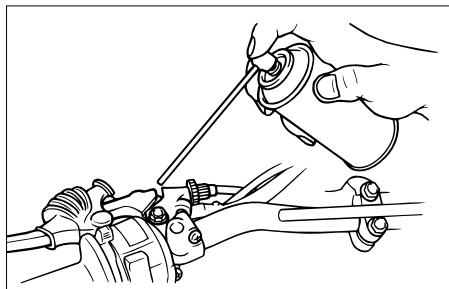
To clean the chain thoroughly, remove it from the motorcycle, dip it in solvent, and clean out as much dirt as possible. Then, take the chain out of the solvent to dry it, and immediately lubricate it to prevent it from rusting.

EC000097

CAUTION:

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

PERIODIC MAINTENANCE AND MINOR REPAIR



EAU02962

Cable inspection and lubrication

EW000112

⚠ WARNING

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

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

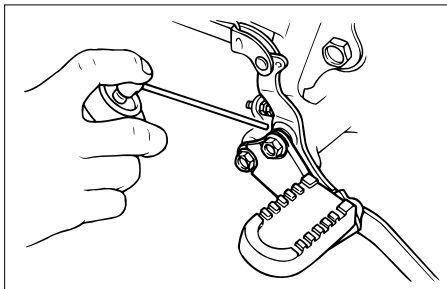
Recommended lubricant:
Engine oil

EAU00773

Throttle cable and grip lubrication

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

PERIODIC MAINTENANCE AND MINOR REPAIR

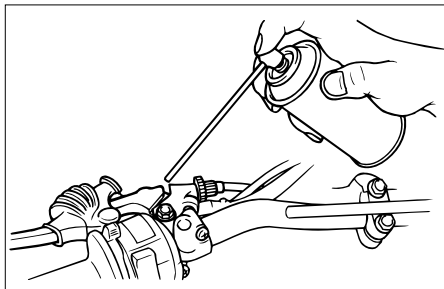


EAU02984

Brake and shift pedal lubrication

Lubricate the pivoting parts.

Recommended lubricant:
Engine oil

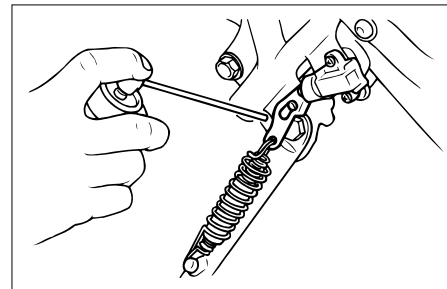


EAU02985

Brake and clutch lever lubrication

Lubricate the pivoting parts.

Recommended lubricant:
Engine oil



EAU02986

Sidestand lubrication

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

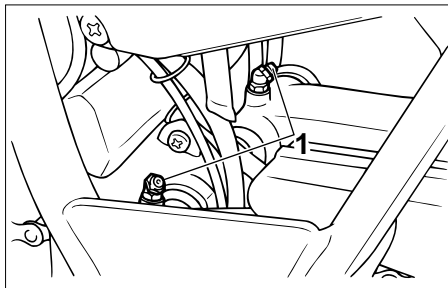
Recommended lubricant:
Engine oil

EW000113

⚠ WARNING

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

PERIODIC MAINTENANCE AND MINOR REPAIR



1. Grease nipple (x2)

EAU00791

Rear suspension lubrication

Lubricate the pivoting parts.

Recommended lubricant:
Lithium soap base grease

Front fork inspection Visual check

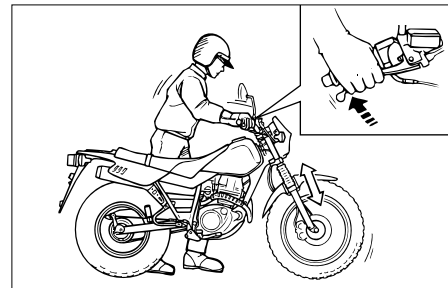
EAU02939

EW000115

⚠ WARNING

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

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



Operation check

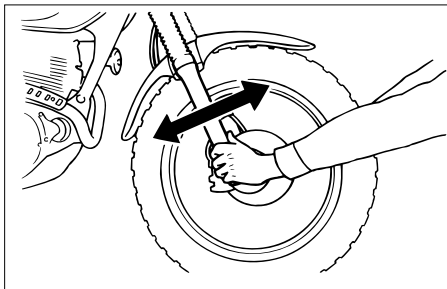
1. Place the motorcycle on a level place.
2. Hold the motorcycle in an upright position and apply the front brake.
3. Push down hard on the handlebars several times and check if the fork rebounds smoothly.

EC000098

CAUTION:

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

PERIODIC MAINTENANCE AND MINOR REPAIR



EAU00794

Steering inspection

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

EW000115

⚠ WARNING

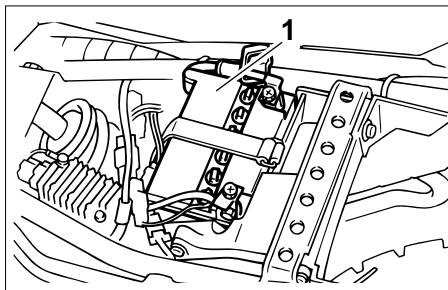
Securely support the motorcycle so there is no danger of it falling over.

EAU01144

Wheel bearings

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

PERIODIC MAINTENANCE AND MINOR REPAIR



1. Battery

EAU01071

Battery

Check the level of the battery electrolyte and make sure that the terminals are tight.

Fill with distilled water if the electrolyte level is low.

EC000099

CAUTION:

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

⚠ WARNING

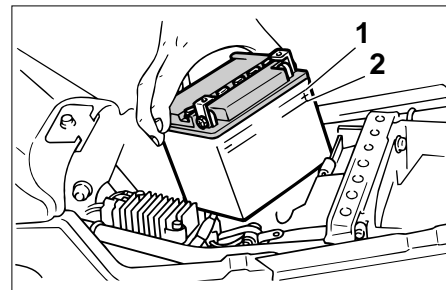
EW000116

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

ANTIDOTE:

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

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



1. Maximum level mark
2. Minimum level mark

Replenishing the battery fluid

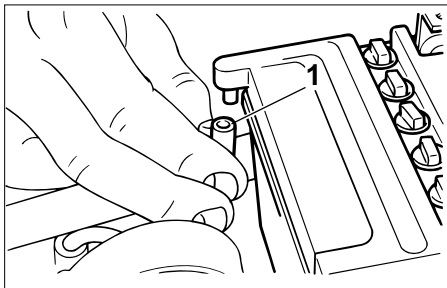
A poorly maintained battery will corrode and discharge quickly. The battery fluid should be checked at least once a month. The level should be between the minimum level and maximum level marks. Use only distilled water if refilling is necessary.

EC000100

CAUTION:

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

PERIODIC MAINTENANCE AND MINOR REPAIR



1. Battery breather hose

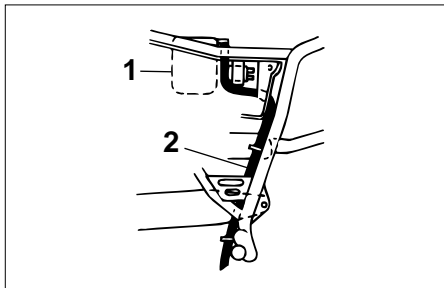
EW000117

⚠ WARNING

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

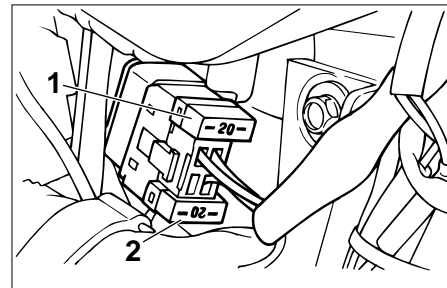
Battery storage

- When the motorcycle will not be used for a month or longer, remove the battery, fully charge it and store it in a cool, dry place. Completely recharge the battery before reinstallation.



1. Battery
2. Battery breather hose

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



1. Spare fuse
2. Main fuse

EAU01307

Fuse replacement

The fuse is located behind panel B. (See page 6-7 for panel removal and installation procedures.)

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

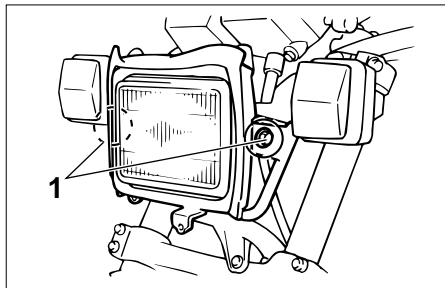
PERIODIC MAINTENANCE AND MINOR REPAIR

CAUTION:

EC000103

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

Specified fuse: 20A



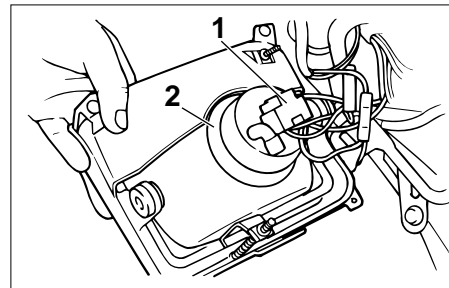
1. Bolt (x2)

EAU01158

Headlight bulb replacement

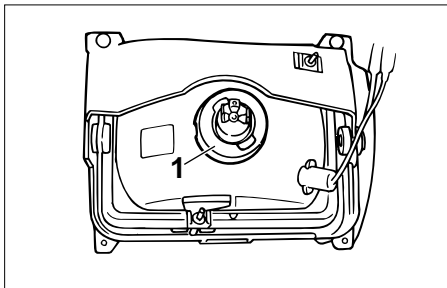
If the headlight bulb burns out, replace the bulb as follows:

1. Remove cowling C. (See page 6-8 for removal and installation procedures.)
2. Remove the headlight unit by removing the bolts.



1. Connector
2. Bulb holder cover
3. Remove the headlight connector and the bulb holder cover.

PERIODIC MAINTENANCE AND MINOR REPAIR



1. Bulb holder

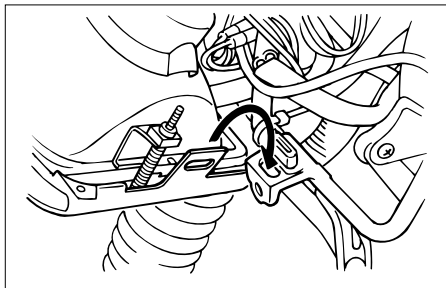
4. Turn the bulb holder counter-clockwise to remove it and then remove the defective bulb.

EW000119

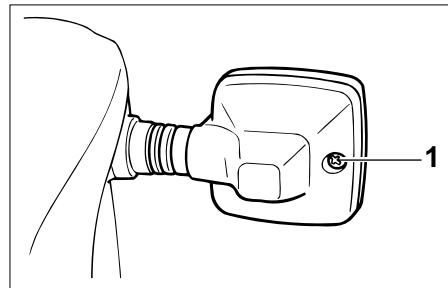
⚠ WARNING

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

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



6. Install the bulb holder cover, connector and headlight unit.
7. Install the cowl.
8. If the headlight beam adjustment is necessary, ask a Yamaha dealer to make that adjustment.



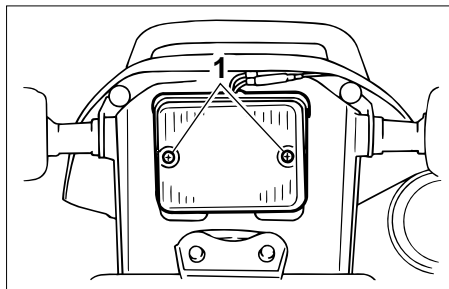
1. Screw

Turn signal and taillight bulb replacement

EAU00855

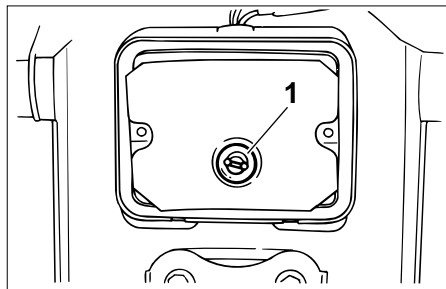
1. Remove the screws and the lens.

PERIODIC MAINTENANCE AND MINOR REPAIR



1. Screw (×2)

2. Push the bulb inward and turn it counterclockwise.



1. Bulb

3. Place a new bulb in the socket. Push the bulb inward and turn it clockwise until it engages into the socket.

4. Install the lens and the screws.

EC000108

CAUTION:

Do not over-tighten the screws as the lens may break.

EAU01579

Supporting the motorcycle

Since the Yamaha TW125 has no centerstand, follow these precautions when removing the front and rear wheel or performing other maintenance requiring the motorcycle to stand upright. Check that the motorcycle is in a stable and level position before starting any maintenance. A strong wooden box can be placed under the engine for added stability.

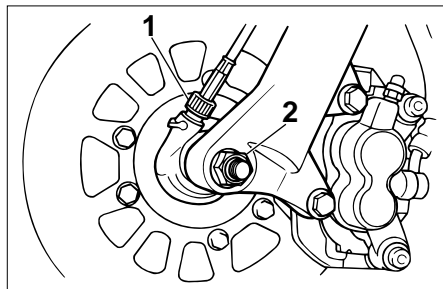
Front wheel service

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

PERIODIC MAINTENANCE AND MINOR REPAIR

Rear wheel service

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



1. Speedometer cable
2. Wheel axle nut

EAU01494

Front wheel removal

EW000122

⚠ WARNING

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

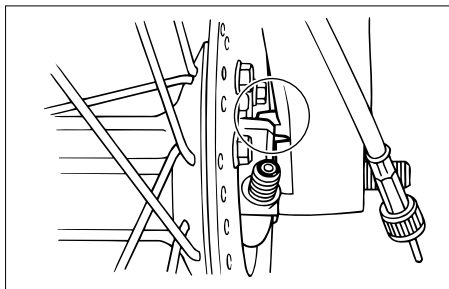
1. Remove the speedometer cable from the front wheel side.

2. Loosen the wheel axle nut.
3. Elevate the front wheel by placing a suitable stand under the engine.
4. Remove the wheel axle nut, the wheel axle and the front wheel. Make sure the motorcycle is properly supported.

NOTE:

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

PERIODIC MAINTENANCE AND MINOR REPAIR



EAU01495

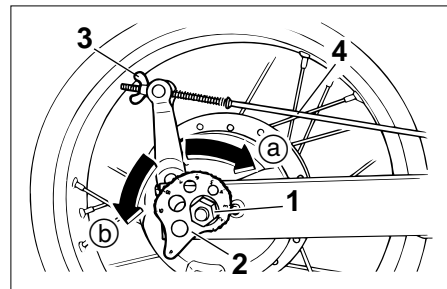
Front wheel installation

1. Install the speedometer gear unit housing into the wheel hub. Make sure the projections are meshed into the slots.
2. Lift up the wheel between the front fork legs. Make sure that there is enough gap between the brake pads before inserting the brake disc and that the slot in the speedometer gear unit housing fits over the stopper on the front fork outer tube.

3. Install the wheel axle and axle nut. Then, let the motorcycle down.
4. Tighten the axle nut to the specified torque.

Tightening torque:
Axle nut:
90 Nm (9.0 m·kg)

5. Install the speedometer cable.



1. Wheel axle nut
2. Chain adjusting plate
3. Brake adjusting nut
4. Brake rod

EAU01496

Rear wheel removal

EW000122

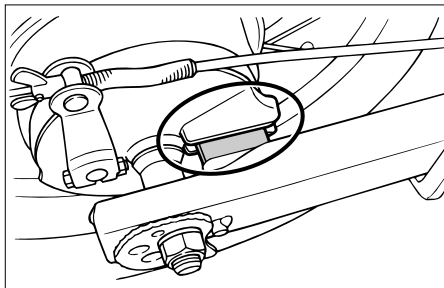
⚠ WARNING

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

1. Loosen the wheel axle nut.
2. Remove the brake adjusting nut and brake rod from the brake cam lever.

PERIODIC MAINTENANCE AND MINOR REPAIR

3. Turn the chain adjusting plates on each side fully in direction ⑥.
4. Elevate the rear wheel.
5. Remove the axle nut.
6. Pull out the rear axle.
7. Push the wheel forward and remove the drive chain.
8. Remove the wheel assembly.



4. Tighten the axle nut to the specified torque.

Tightening torque:

Axle nut:

90 Nm (9.0 m·kg)

5. Insert the brake rod into the brake cam lever and install the brake pedal free play adjusting nut.
6. Adjust the rear brake pedal free play. (See page 6-20.)

EW000103

⚠ WARNING

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

Rear wheel installation

EAU01497

1. Install the wheel assembly and insert the axle from the left-hand side. Be sure that the chain adjusting plates are installed with the punched side outward and the slot in the brake shoe plate fits over the stopper on the swingarm.
2. Install and adjust the drive chain. (See page 6-24 for details about adjusting the drive chain slack.)
3. Install the axle nut and let the motorcycle down.

PERIODIC MAINTENANCE AND MINOR REPAIR

EAU01008

Troubleshooting

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

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

If your motorcycle requires any repair, bring it to a Yamaha dealer.

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

PERIODIC MAINTENANCE AND MINOR REPAIR

Troubleshooting chart

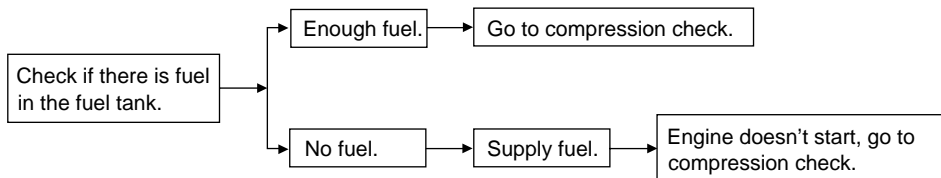
EAU03009

EW000125

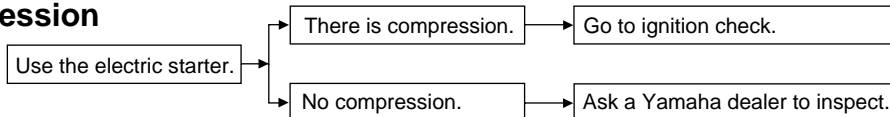
⚠WARNING

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

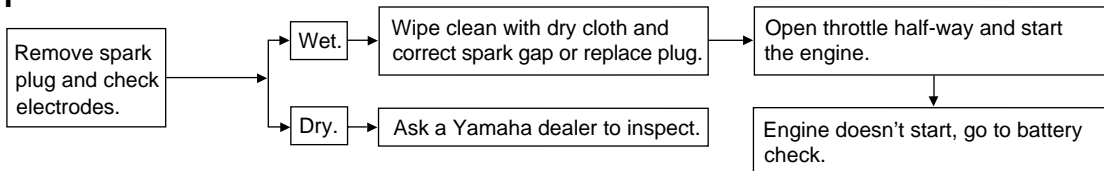
1. Fuel



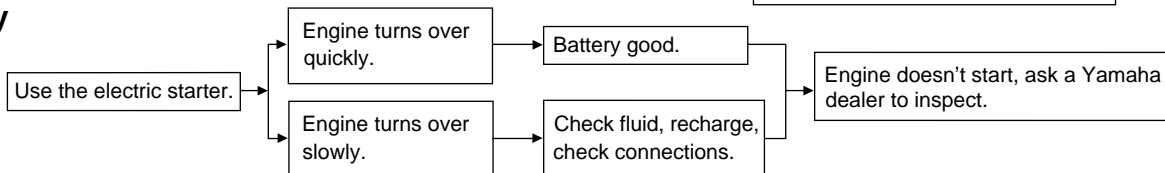
2. Compression



3. Ignition



4. Battery



MOTORCYCLE CARE AND STORAGE

Care

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

Before cleaning

1. Cover up the muffler outlet with a plastic bag.
2. Make sure that all caps and covers as well as all electrical couplers and connectors, including the spark plug cap, are tightly installed.
3. Remove extremely stubborn dirt, like oil burnt onto the crankcase, with a degreasing agent and a brush, but never apply such products onto seals, gaskets, sprockets, the drive chain and wheel axles. Always rinse the dirt and degreaser off with water.

Cleaning

After normal use

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

ECA00010

CAUTION: _____

- **Avoid using strong acidic wheel cleaners, especially on spoked wheels. If you do use such products for hard-to-remove dirt, do not leave it on any longer than instructed, then thoroughly rinse it off with water, immediately dry the area and apply a corrosion protection spray.**

MOTORCYCLE CARE AND STORAGE

- Improper cleaning can damage windshields, cowlings, panels and other plastic parts. Use only a soft, clean cloth or sponge with mild detergent and water to clean plastic.
 - Do not use any harsh chemical products on plastic parts. Be sure to avoid using cloths or sponges which have been in contact with strong or abrasive cleaning products, solvent or thinner, fuel (gasoline), rust removers or inhibitors, brake fluid, antifreeze or electrolyte.
 - Do not use high-pressure washers or steam-jet cleaners since they cause water seepage and deterioration in the following areas: seals (of wheel bearings, swingarm bearings, forks and brakes), electric components (couplers, connectors, instruments, switches and lights), breather hoses and vents.
 - For motorcycles equipped with a windshield: Do not use strong cleaners or hard sponges as they will cause dulling or scratching. Some cleaning compounds for plastic may leave scratches on the windshield. Test the product on a small hidden part of the windshield to make sure they do not leave any marks. If the windshield is scratched, use a quality plastic polishing compound after washing.
-

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

Since sea salt or salt sprayed on the roads in the winter are extremely corrosive in combination with water, carry out the following steps after each ride in the rain, near the sea or on salt-sprayed roads. (Salt sprayed in the winter may remain on the roads well into spring.)

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

ECA00012

CAUTION: _____

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

2. Be sure to apply a corrosion protection spray on all (even chrome- and nickel-plated) metal surfaces to prevent corrosion.

MOTORCYCLE CARE AND STORAGE

After cleaning

1. Dry the motorcycle with a chamois or an absorbing cloth.
2. Immediately dry the drive chain and lubricate it to prevent it from rusting.
3. Use a chrome polish to shine chrome, aluminum and stainless-steel parts, including the exhaust system. (Even the thermally induced discoloring of stainless-steel exhaust systems can be removed through polishing.)
4. To prevent corrosion, it is recommended to apply a corrosion protection spray on all (even chrome- and nickel-plated) metal surfaces.
5. Use spray oil as a universal cleaner to remove any remaining dirt.
6. Touch up minor paint damage caused by stones, etc.
7. Wax all painted surfaces.

8. Let the motorcycle dry completely before storing it or covering it.

EWA00001

⚠ WARNING

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

ECA00013

CAUTION:

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

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

Storage

Short-term

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

ECA00014

CAUTION:

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

Long-term

Before storing your motorcycle for several months:

1. Follow all the instructions in the “Care” section of this chapter.
2. Drain the carburetor float chamber by loosening the drain bolt; this will prevent fuel deposits from building up. Pour the drained fuel into the fuel tank.
3. Only for motorcycles equipped with a fuel cock which has an “OFF” position: Turn the fuel cock to “OFF”.
4. Fill up the fuel tank and add fuel stabilizer (if available) to prevent the fuel tank from rusting and the fuel from deteriorating.
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 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 from the spark plug, install the spark plug and then the spark plug cap.

EWA00003

⚠ WARNING

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

6. Lubricate all control cables and the pivoting points of all levers and pedals as well as of the sidestand/centerstand.

MOTORCYCLE CARE AND STORAGE

7. Check and, if necessary, correct the tire air pressure, then raise the motorcycle so that both of its wheels are off the ground. Alternatively, turn the wheels a little every month in order to prevent the tires from becoming degraded in one spot.
8. Cover up the muffler outlet with a plastic bag to prevent moisture from entering.
9. Remove the battery and fully charge it. Store it in a cool, dry place and recharge it once a month. Do not store the battery in an excessively cold or warm place (less than 0°C or more than 30°C). For more information, see “Battery storage” in the chapter “PERIODIC MAINTENANCE AND MINOR REPAIRS”.

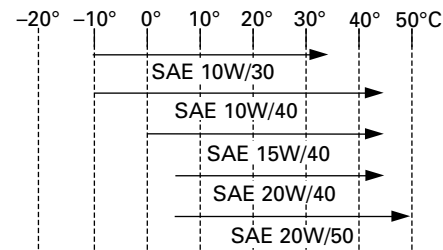
NOTE: _____
Make any necessary repairs before storing the motorcycle.

Specifications

Model	TW125
Dimensions	
Overall length	2,140 mm
Overall width	810 mm
Overall height	1,120 mm
Seat height	805 mm
Wheelbase	1,330 mm
Ground clearance	260 mm
Minimum turning radius	2,100 mm
Basic weight (with oil and full fuel tank)	125 kg
Engine	
Engine type	Air-cooled 4-stroke, SOHC
Cylinder arrangement	Forward inclined single cylinder
Displacement	124 cm ³
Bore × Stroke	57.0 × 48.8 mm
Compression ratio	10:1
Starting system	Electric starter
Lubrication system	Wet sump

Engine oil

Type



Recommended engine oil classification

API Service SE, SF, SG type or higher

CAUTION:

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

Capacity

Periodic oil change	1.0 L
With oil filter replacement	1.1 L
Total amount	1.3 L

Air filter

Wet type element

SPECIFICATIONS

Fuel

Type	Regular unleaded gasoline
Fuel tank capacity	7.0 L
Reserve amount	1.0 L

Carburetor

Type/quantity	Y24P/1
Manufacturer	TEIKEI

Spark plug

Manufacturer / Type	NGK / DR8EA
Spark plug gap	0.6 ~ 0.7 mm

Clutch type

Wet, multiple-disc

Transmission

Primary reduction system	Spur gear
Primary reduction ratio	74/20 (3.700)
Secondary reduction system	Chain drive
Secondary reduction ratio	50/14 (3.571)
Transmission type	Constant mesh 5-speed
Operation	Left foot operation

Gear ratio	1st	2.250
	2nd	1.476
	3rd	1.125
	4th	0.926
	5th	0.793

Chassis

Frame type	Diamond
Frame type	Pressed and steel tube frame
Caster angle	26°
Trail	95 mm

Tires

Type	With tube	
Front		
	Size	130/80-18 66P
	Manufacturer/ model	BRIDGESTONE / TW31
Rear		
	Size	180/80-14M/C 78P
	Manufacturer/ model	BRIDGESTONE / TW34
Maximum load*	180 kg	
Air pressure (cold tire) up to 80 kg load*		

Front	150 kPa (1.50 kg/cm ² , 1.50 bar)
Rear	150 kPa (1.50 kg/cm ² , 1.50 bar)
80 kg load ~ Maximum load*	
Front	150 kPa (1.50 kg/cm ² , 1.50 bar)
Rear	175 kPa (1.75 kg/cm ² , 1.75 bar)
Off-road riding	
Front	125 kPa (1.25 kg/cm ² , 1.25 bar)
Rear	125 kPa (1.25 kg/cm ² , 1.25 bar)

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

Wheels

Front	
Type	Spoke wheel
Size	2.50 × 18
Rear	
Type	Spoke wheel
Size	14M/C × MT4.50

Brakes

Front	
Type	Single disc brake
Operation	Right hand operation
Fluid	DOT 3 or DOT 4

Rear	
Type	Drum brake
Operation	Right foot operation
Suspension	
Front	
Type	Telescopic fork
Rear	
Type	Swingarm (Monocross suspension)
Shock absorber	
Front	Coil spring/oil damper
Rear	Coil-gas spring/oil damper
Wheel travel	
Front	160 mm
Rear	150 mm
Electrical	
Ignition system	C.D.I.
Charging system	
Type	C.D.I. magneto
Standard output	12 V, 11 A @ 5,000 rpm
Battery	
Type	GM7CZ-3D
Voltage, capacity	12 V, 7 AH

SPECIFICATIONS

Headlight bulb type	Incandescence
Bulb voltage, wattage × quantity	
Headlight	12 V, 45 W/40 W × 1
Stop/tail light	12 V, 21 W/5 W × 1
Front flasher light	12 V, 21 W × 2
Rear flasher light	12 V, 21 W × 2
Marker light	12 V, 4 W × 1
Meter light	12 V, 3.4 W × 1
Neutral indicator light	12 V, 3.4 W × 1
High beam indicator light	12 V, 3.4 W × 1
Turn indicator light	12 V, 3.4 W × 1
Fuse	
Main	20 A

EAU01064

HOW TO USE THE CONVERSION TABLE

All specification data in this manual are listed in SI and METRIC UNITS.

Use this table to convert METRIC unit data to IMPERIAL unit data.

Ex.

METRIC		MULTIPLIER		IMPERIAL
** mm	×	0.03937	=	** in
2 mm	×	0.03937	=	0.08 in

CONVERSION TABLE

METRIC TO IMPERIAL			
	Metric unit	Multiplier	Imperial unit
Torque	m • kg	7.233	ft • lb
	m • kg	86.794	in • lb
	cm • kg	0.0723	ft • lb
	cm • kg	0.8679	in • lb
Weight	kg	2.205	lb
	g	0.03527	oz
Speed	km/hr	0.6214	mph
Distance	km	0.6214	mi
	m	3.281	ft
	m	1.094	yd
	cm	0.3937	in
	mm	0.03937	in
Volume/ Capacity	cc (cm³)	0.03527	oz (IMP liq.)
	cc (cm³)	0.06102	cu • in
	lt (liter)	0.8799	qt (IMP liq.)
	lt (liter)	0.2199	gal (IMP liq.)
Misc.	kg/mm	55.997	lb/in
	kg/cm²	14.2234	psi (lb/in²)
	Centigrade(°C)	9/5 + 32	Fahrenheit(°F)

CONSUMER INFORMATION

Identification number records

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

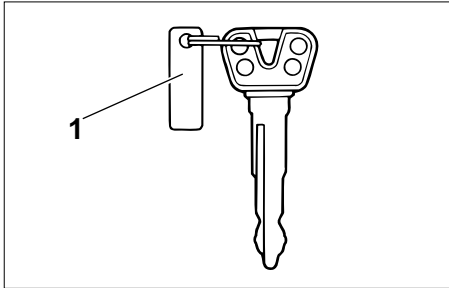
1. KEY IDENTIFICATION NUMBER:

2. VEHICLE IDENTIFICATION NUMBER:

3. MODEL LABEL INFORMATION:

☐ ☐

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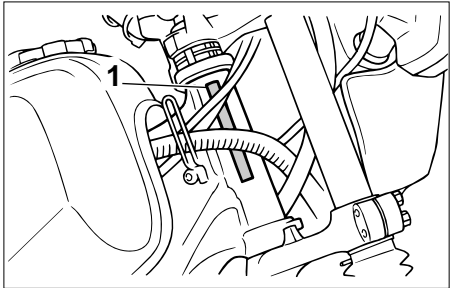


1. Key identification number

EAU01041

Key identification number

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



1. Vehicle identification number

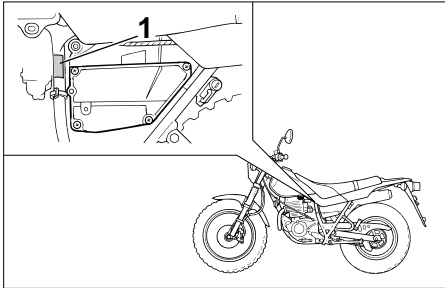
EAU01043

Vehicle identification number

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

NOTE:

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



1. Model label

EAU01049

Model label

The model label is affixed to the location shown in the figure. Record the information on this label in the space provided. This information will be needed to order spare parts from your Yamaha dealer.



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