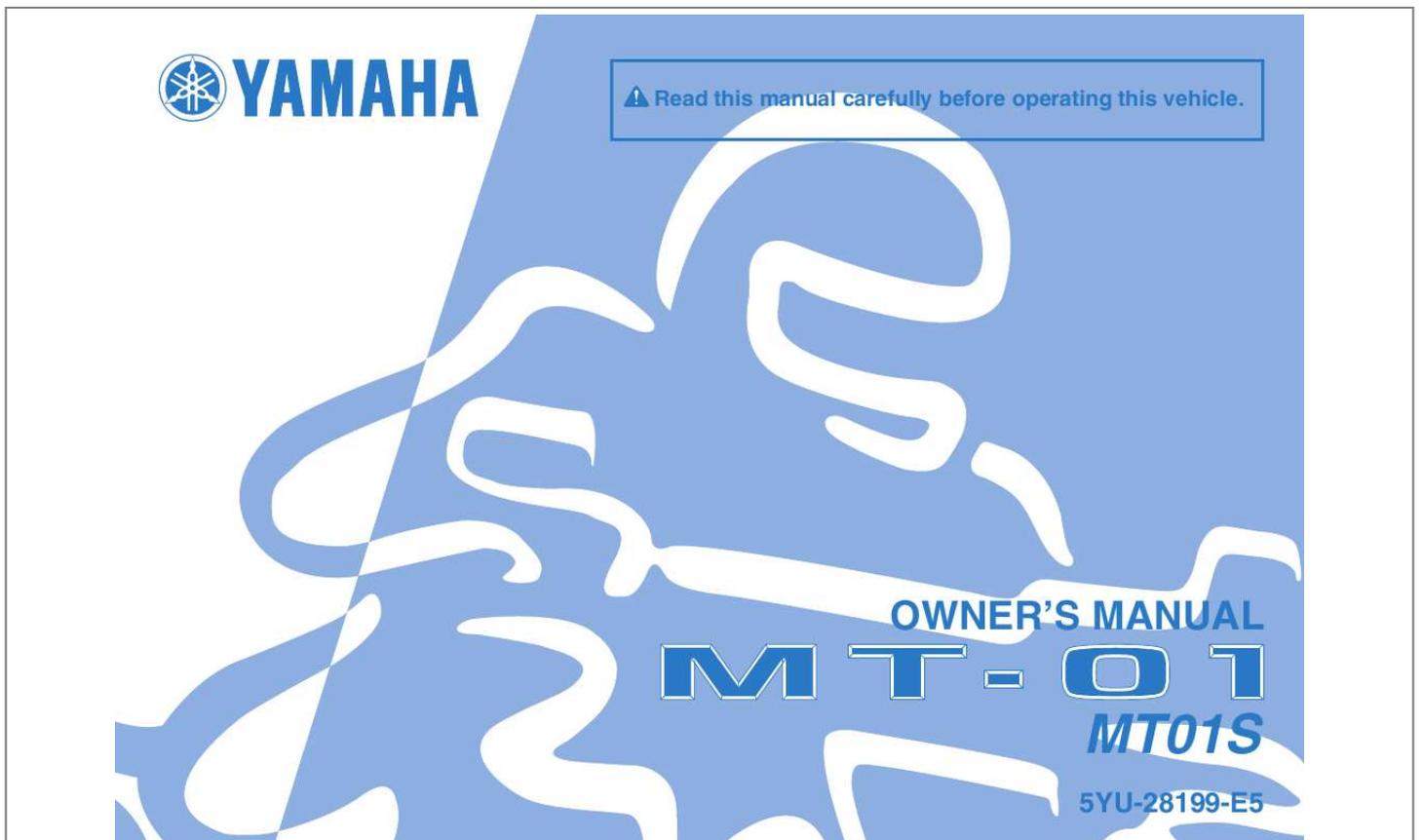




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You can read the recommendations in the user guide, the technical guide or the installation guide for YAMAHA MT-01. You'll find the answers to all your questions on the YAMAHA MT-01 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual YAMAHA MT-01
User guide YAMAHA MT-01
Operating instructions YAMAHA MT-01
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Manual abstract:

Contents To change contact person and integrate type-designation. @ @2005 27 Feb. 2006 1 Mar. 2007 General manager of quality assurance div.
INTRODUCTION EAU10102 Welcome to the Yamaha world of motorcycling! As the owner of the MT01S, you are benefiting from Yamaha's vast experience and newest technology regarding the design and 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 advantages of your MT01S. 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. @ @ @ @ The Yamaha team wishes you many safe and pleasant rides. So, remember to put safety first! Yamaha continually seeks advancements in product design and quality. @ @ @ @ It is used to alert you to potential personal injury hazards.

Obey all safety messages that follow this symbol to avoid possible injury or death. **WARNING** A **WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious injury. A **NOTICE** indicates special precautions that must be taken to avoid damage to the vehicle or other property. A **TIP** provides key information to make procedures easier or clearer. **NOTICE TIP IMPORTANT MANUAL INFORMATION EAU10200 MT01S OWNER'S**

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.....9-1 SAFETY INFORMATION EAU10283 1 Be a Responsible Owner As the vehicle's owner, you are responsible for the safe and proper operation of your motorcycle. Motorcycles are single-track vehicles. Their safe use and operation are dependent upon the use of proper riding techniques as well as the expertise of the operator.

Every operator should know the following requirements before riding this motorcycle. He or she should: G Obtain thorough instructions from a competent source on all aspects of motorcycle operation. G Observe the warnings and maintenance requirements in this Owner's Manual. G Obtain qualified training in safe and proper riding techniques. G Obtain professional technical service as indicated in this Owner's Manual and/or when made necessary by mechanical conditions. Safe Riding Perform the pre-operation checks each time you use the vehicle to make sure it is in safe operating condition. Failure to inspect or maintain the vehicle properly increases the possibility of an accident or equipment damage. See page 4-1 for a list of pre-operation checks. G This motorcycle is designed to carry the operator and a passenger. G The failure of motorists to detect and recognize motorcycles in traffic is the predominating cause of automobile/motorcycle accidents.

Many accidents have been caused by an automobile driver who did not see the motorcycle. Making yourself conspicuous appears to be very effective in reducing the chance of this type of accident. Therefore: · Wear a brightly colored jacket. · Use extra caution when you are approaching and passing through intersections, since intersections are the most likely places for motorcycle accidents to occur. 1-1 G G · 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 SAFETY INFORMATION due to excessive speed or undercornering (insufficient lean angle for the speed). · Always obey the speed limit and never travel faster than warranted by road and traffic conditions. · Always signal before turning or changing lanes. Make sure that other motorists can see you. The posture of the operator and passenger is important for proper control. · The operator should keep both hands

on the handlebar and both feet on the operator footrests during operation to maintain control of the motorcycle.



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· The passenger should always hold onto the operator, the seat strap or grab bar, if equipped, with both hands and keep both feet on the passenger footrests.

Never carry a passenger unless he or she can firmly place both feet on the passenger footrests. Never ride under the influence of alcohol or other drugs. G This motorcycle is designed for onroad use only. It is not suitable for off-road use. G A passenger should also observe the above precautions. 1 G G Protective apparel The majority of fatalities from motorcycle accidents are the result of head injuries. The use of a safety helmet is the single most critical factor in the prevention or reduction of head injuries. G Always wear an approved helmet. G Wear a face shield or goggles. Wind in your unprotected eyes could contribute to an impairment of vision that could delay seeing a hazard.

G The use of a jacket, heavy boots, trousers, gloves, etc., is effective in preventing or reducing abrasions or lacerations. G Never wear loose-fitting clothes, otherwise they could catch on the control levers, footrests, or wheels and cause injury or an accident. G Always wear protective clothing that covers your legs, ankles, and feet. The engine or exhaust system become very hot during or after operation and can cause burns.

1-2 Avoid Carbon Monoxide Poisoning All engine exhaust contains carbon monoxide, a deadly gas. Breathing carbon monoxide can cause headaches, dizziness, drowsiness, nausea, confusion, and eventually death. Carbon Monoxide is a colorless, odorless, tasteless gas which may be present even if you do not see or smell any engine exhaust. Deadly levels of carbon monoxide can collect rapidly and you can quickly be overcome and unable to save yourself. Also, deadly levels of carbon monoxide can linger for hours or days in enclosed or poorly ventilated areas.

If you experience any symptoms of carbon monoxide poisoning, leave the area immediately, get fresh air, and SEEK MEDICAL TREATMENT. G Do not run engine indoors. Even if you try to ventilate engine exh 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 motorcycle's electrical system, an electric failure could result, which could cause a dangerous loss of lights or engine power.

G 1 Aftermarket Tires and Rims The tires and rim immobilizer system keys away from the main switch as they may cause signal interference. EAU10471 EAU36870 Main switch/steering lock ON All electrical circuits are supplied with power, the meter lighting, taillight, license plate light and auxiliary lights come on, and the engine can be started. The key cannot be removed. TIP The headlight comes on automatically when the engine is started and stays on until the key is turned to "OFF", even if the engine stalls. EAU36882 3 The main switch/steering lock controls the ignition and lighting systems, and is used to lock the steering. TIP Be sure to use the standard key (black bow) for regular use of the vehicle. To minimize the risk of losing the code reregistering key (red bow), keep it in a safe place and only use it for code reregistering. OFF All electrical systems are off. The key can be removed. EWA10061 WARNING Never turn the key to "OFF" or "LOCK" while the vehicle is moving.

Otherwise the electrical systems will be switched off, which may result in loss of control or an accident. TIP This motorcycle is equipped with a fan for the muffler covers, which is located under the seat. After the main switch is 3-2 INSTRUMENT AND CONTROL FUNCTIONS turned to "OFF", if the temperature of the sensor for the muffler covers exceeds 55 °C (131 °F), the fan will stay on for a maximum of five minutes, and then switch off automatically. EAU10681 2. Push the key in from the "OFF" position, and then turn it to "LOCK" while still pushing it.

3. Remove the key. To unlock the steering The steering must be locked before the key can be turned to " ". ECA11020 NOTICE Do not use the parking position for an extended length of time, otherwise the battery may discharge. 3 LOCK The steering is locked, and all electrical systems are off. The key can be removed. To lock the steering 1. Push. 2. Turn. Push the key in, and then turn it to "OFF" while still pushing it. EAU10941 1. Push. 2. Turn.

1. Turn the handlebars all the way to the left. (Parking) The steering is locked, and the taillight, license plate light and auxiliary lights are on. The hazard lights and turn signal lights can be turned on, but all other electrical systems are off. The key can be removed. 3-3 INSTRUMENT AND CONTROL FUNCTIONS EAU11004 EAU11080 Indicator and warning lights High beam indicator light " " This indicator light comes on when the high beam of the headlight is switched on. EAU11365 then go off for 3.0 seconds. If this occurs, have a Yamaha dealer check the vehicle. EAU11534 3 1. 2. 3. 4. 5. 6.

7. Engine trouble warning light " " Left turn signal indicator light " " Neutral indicator light " " Immobilizer system indicator light Fuel level warning light " " Right turn signal indicator light " " High beam indicator light " " EAU11030 Turn signal indicator lights " " and " " The corresponding indicator light flashes when the turn signal switch is pushed to the left or right. EAU11060 Fuel level warning light " " This warning light comes on when the fuel level drops below approximately 3.0 L (0.79 US gal, 0.

66 Imp.gal). When this occurs, refuel as soon as possible. The electrical circuit of the warning light can be checked by turning the key to "ON". The warning light should come on for a few seconds, and then go off. If the warning light does not come on initially when the key is turned to "ON", or if the warning light remains on, have a Yamaha dealer check the electrical circuit. TIP This model is also equipped with a selfdiagnosis device for the fuel level detection circuit. If a problem is detected in the fuel level detection circuit, the following cycle will be repeated until the malfunction is corrected: The fuel level warning light will flash eight times, and 3-4 Engine trouble warning light " " This warning light comes on or flashes if a problem is detected in the electrical circuit monitoring the engine.



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If this occurs, have a Yamaha dealer check the self-diagnosis system. (See page 3-7 for an explanation of the self-diagnosis device.)

) The electrical circuit of the warning light can be checked by turning the key to "ON". The warning light should come on for a few seconds, and then go off. If the warning light does not come on initially when the key is turned to "ON", or if the warning light remains on, have a Yamaha dealer check the electrical circuit. EAU38623 Neutral indicator light " " This indicator light comes on when the transmission is in the neutral position. Immobilizer system indicator light The electrical circuit of the indicator light can be checked by turning the key to "ON". The indicator light should come on for a few seconds, and then go off. INSTRUMENT AND CONTROL FUNCTIONS If the indicator light does not come on initially when the key is turned to "ON", or if the indicator light remains on, have a Yamaha dealer check the electrical circuit. When the key is turned to "OFF" and 30 seconds have passed, the indicator light will start flashing indicating the immobilizer system is enabled. After 24 hours have passed, the indicator light will stop flashing, however the immobilizer system is still enabled. This model is also equipped with a selfdiagnosis device for the immobilizer system.

(See page 3-7 for an explanation of the self-diagnosis device.) EAU36858 Multi-function display G G G G G 1. 2. 3. 4.

5. 6. Clock "RESET" button Tachometer "SELECT" button Speedometer Odometer/tripmeter/fuel reserve tripmeter EWA12312 G a tachometer an odometer two tripmeters (which show the distance traveled since they were last set to zero) a fuel reserve tripmeter (which shows the distance traveled since the fuel level warning light came on) a clock a self-diagnosis device a brightness control mode Be sure to turn the key to "ON" before using the "SELECT" and "RESET" buttons except for setting the brightness control mode. For the U.K.

only: To switch the speedometer and odometer/tripmeter displays between kilometers and miles, press the "SELECT" button for at least two seconds. 3 TIP G

WARNING Be sure to stop the vehicle before making any setting changes to the multi-function display. Changing settings while riding can distract the operator and increase the risk of an accident. The multi-function display is equipped with the following: G a speedometer 3-5 G INSTRUMENT AND

CONTROL FUNCTIONS Tachometer Clock mode Odometer and tripmeter modes 3 1. Tachometer 2. Tachometer red zone 1. Clock 1.

Odometer/tripmeter/fuel reserve tripmeter The electric tachometer allows the rider to monitor the engine speed and keep it within the ideal power range. When the key is turned to "ON", the tachometer needle will sweep once across the r/min range and then return to zero r/min in order to test the electrical circuit. ECA10031 NOTICE Do not operate the engine in the tachometer red zone.

Red zone: 5500 r/min and above The tachometer needle flashes when it reaches and exceeds the red zone. To set the clock 1. Turn the key to "ON". 2. Push the "SELECT" button and "RESET" button together for at least two seconds. 3. When the hour digits start flashing, push the "RESET" button to set the hours. 4. Push the "SELECT" button, and the minute digits will start flashing. 5.

Push the "RESET" button to set the minutes. 6. Push the "SELECT" button and then release it to start the clock. Pushing the "SELECT" button switches the display between the odometer mode "ODO" and the tripmeter modes "TRIP 1" and "TRIP 2" in the following order: ODO TRIP 1 TRIP 2 ODO If the fuel level warning light comes on (see page 3-4), the odometer display will automatically change to the fuel reserve tripmeter mode "F-TRIP" and start counting the distance traveled from that point. In that case, pushing the "SELECT" button switches the display between the various tripmeter and odometer modes in the following order: F-TRIP TRIP 1 TRIP 2 ODO F-TRIP 3-6 INSTRUMENT AND CONTROL FUNCTIONS To reset a tripmeter, select it by pushing the "SELECT" button, and then push the "RESET" button for at least one second.

If you do not reset the fuel reserve tripmeter manually, it will reset itself automatically and the display will return to the prior mode after refueling and traveling 5 km (3 mi). Self-diagnosis device The self-diagnosis device also detects problems in the immobilizer system circuits. If a problem is detected in the immobilizer system circuits, the immobilizer system indicator light will flash and the display will indicate an error code. TIP If the display indicates error code 52, this could be caused by transponder interference. If this error code appears, try the following.

1. Use the code re-registering key to start the engine. TIP Make sure there are no other immobilizer keys close to the main switch, and do not keep more than one immobilizer key on the same key ring! Immobilizer system keys may cause signal interference, which may prevent the engine from starting. 2. If the engine starts, turn it off and try starting the engine with the standard keys. 3. If one or both of the standard keys do not start the engine, take the vehicle, the code re-registering key and both standard keys to a Yamaha dealer and have the standard keys re-registered. If the display indicates any error codes, note the code number, and then have a Yamaha dealer check the vehicle. ECA11590 3 NOTICE If the display indicates an error code, the vehicle should be checked as soon as possible in order to avoid engine damage. 1.

Error code display This model is equipped with a self-diagnosis device for various electrical circuits. If a problem is detected in any of those circuits, the engine trouble warning light will come on or flash and the odometer/tripmeter display will indicate an error code. 3-7 INSTRUMENT AND CONTROL FUNCTIONS Brightness control mode Item number "1" is displayed. 3 1. Tachometer panel 2. LCD 3. Tachometer needle 1. Tachometer panel 2. Item number 3. Brightness level 1.

LCD 2. Item number 3. Brightness level The brightness can be adjusted for the following: G the tachometer panel (item number "1") G the LCD (item number "2") G the tachometer needle (item number "3") Select the brightness control mode as follows. 1. Turn the key to "OFF".

2. Push and hold the "SELECT" button. 3. Turn the key to "ON", and then release the "SELECT" button after five seconds. 4.

Adjust the tachometer panel brightness level by pushing the "RESET" button. 5. Push the "SELECT" button to select the LCD. Item number "2" is displayed. Adjust the LCD brightness level by pushing the "RESET" button.



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6. Push the "SELECT" button to select the tachometer needle. Item number "3" is displayed. Adjust the tachometer needle brightness level by pushing the "RESET" button. 3-8 INSTRUMENT AND CONTROL FUNCTIONS EAU12331 EAU12348 Anti-theft alarm (optional) This model can be equipped with an optional anti-theft alarm by a Yamaha dealer.

Contact a Yamaha dealer for more information. Handlebar switches Left 3 1. Tachometer needle 2. Item number 3. Brightness level 7. Push the "SELECT" button and the multi-function display will return to the odometer or tripmeter mode. 1. 2. 3. 4.

5. Pass switch " " Dimmer switch " / " Turn signal switch " / " Horn switch " " Hazard switch " " 3-9 INSTRUMENT AND CONTROL FUNCTIONS Right position. To cancel the turn signal lights, push the switch in after it has returned to the center position. EAU12500 EAU12733 Horn switch " " Press this switch to sound the horn. 3 1.

Engine stop switch " 2. Start switch " " / " EAU12660 EAU12350 Pass switch " " Press this switch to flash the headlight. EAU12400 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. EAU12711 Hazard switch " " With the key in the "ON" or " " position, use this switch to turn on the hazard lights (simultaneous flashing of all turn signal lights).

The hazard lights are used in case of an emergency or to warn other drivers when your vehicle is stopped where it might be a traffic hazard. ECA10061 NOTICE Do not use the hazard lights for an extended length of time with the engine not running, otherwise the battery may discharge. Dimmer switch " / " Set this switch to " " for the high beam and to " " for the low beam. EAU12460 Start switch " " Push this switch to crank the engine with the starter. See page 5-1 for starting instructions prior to starting the engine. EAU41700 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 The engine trouble warning light will come on when the key is turned to "ON" and the start switch is pushed, but this does not indicate a malfunction. 3-10 INSTRUMENT AND CONTROL FUNCTIONS EAU12830 Clutch lever Make sure that the appropriate setting on the adjusting dial is aligned with the arrow mark on the clutch lever. The clutch lever is equipped with a clutch switch, which is part of the ignition circuit cut-off system.

(See page 3-23.) EAU12870 Shift pedal 3 1. 2. 3. 4. Clutch lever Arrow mark Clutch lever position adjusting dial Distance between clutch lever and handlebar grip 1. Shift pedal The clutch lever is located at the left handlebar grip. To disengage the clutch, pull the lever toward the handlebar grip. To engage the clutch, release the lever. The lever should be pulled rapidly and released slowly for smooth clutch operation.

The clutch lever is equipped with a clutch lever position adjusting dial. To adjust the distance between the clutch lever and the handlebar grip, turn the adjusting dial while holding the lever pushed away from the handlebar grip. 3-11 The shift pedal is located on the left side of the engine and is used in combination with the clutch lever when shifting the gears of the 5-speed constant-mesh transmission equipped on this motorcycle. INSTRUMENT AND CONTROL FUNCTIONS EAU33851 Brake lever be sure to set it by aligning a groove on the adjusting knob with the " " mark on the brake lever. EAU12941 Brake pedal 3 1.

Brake lever 2. Brake lever position adjusting knob 3. Distance between brake lever and handlebar grip 4. " " mark 1. Brake pedal The brake pedal is on the right side of the motorcycle.

To apply the rear brake, press down on the brake pedal. The brake lever is located at the right handlebar grip. To apply the front brake, pull the lever toward the handlebar grip. The brake lever is equipped with a brake lever position adjusting knob. To adjust the distance between the brake lever and the handlebar grip, turn the adjusting knob while holding the lever pushed away from the handlebar grip. When the desired position is obtained, 3-12 INSTRUMENT AND CONTROL FUNCTIONS EAU13074 EAU13221 Fuel tank cap TIP The fuel tank cap cannot be closed unless the key is in the lock. In addition, the key cannot be removed if the cap is not properly closed and locked. EWA11091 Fuel Make sure there is sufficient gasoline in the tank. EWA10881 WARNING Gasoline and gasoline vapors are extremely flammable. To avoid fires and explosions and to reduce the risk of injury when refueling, follow these instructions.

1. Before refueling, turn off the engine and be sure that no one is sitting on the vehicle. Never refuel while smoking, or while in the vicinity of sparks, open flames, or other sources of ignition such as the pilot lights of water heaters and clothes dryers. 2. Do not overfill the fuel tank. When refueling, be sure to insert the pump nozzle into the fuel tank filler hole. Stop filling when the fuel reaches the bottom of the filler tube. Because fuel expands when it heats up, heat from the engine or the sun can cause fuel to spill out of the fuel tank. WARNING Make sure that the fuel tank cap is properly closed after filling fuel. Leaking fuel is a fire hazard.

1. Fuel tank cap lock cover 2. Unlock. 3 To open the fuel tank cap Open the fuel tank cap lock cover, insert the key into the lock, and then turn it 1/4 turn clockwise. The lock will be released and the fuel tank cap can be opened.

To close the fuel tank cap 1. Push the fuel tank cap into position with the key inserted in the lock. 2. Turn the key counterclockwise to the original position, remove it, and then close the lock cover. 3-13 INSTRUMENT AND CONTROL FUNCTIONS ately.

If gasoline spills on your skin, wash with soap and water. If gasoline spills on your clothing, change your clothes. EAU33501 or premium unleaded fuel. Use of unleaded fuel will extend spark plug life and reduce maintenance costs. 3 1. Fuel tank filler tube 2. Fuel level 3. Wipe up any spilled fuel immediately.

NOTICE: Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts. [ECA10071] 4.

Be sure to securely close the fuel tank cap. EWA15151 Recommended fuel: REGULAR UNLEADED GASOLINE ONLY Fuel tank capacity: 15.0 L (3.96 US gal, 3.30 Imp.gal) Fuel reserve amount (when the fuel level warning light comes on): 3.0 L (0.79 US gal, 0.66 Imp.gal) ECA11400 NOTICE Use only unleaded gasoline.

The use of leaded gasoline will cause severe damage to internal engine parts, such as the valves and piston rings, as well as to the exhaust system.



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Your Yamaha engine has been designed to use regular unleaded gasoline with a research octane number of 91 or higher. If knocking (or pinging) occurs, use a gasoline of a different brand 3-14 **WARNING** Gasoline is poisonous and can cause injury or death. Handle gasoline with care. Never siphon gasoline by mouth.

If you should swallow some gasoline or inhale a lot of gasoline vapor, or get some gasoline in your eyes, see your doctor immediately. **INSTRUMENT AND CONTROL FUNCTIONS** EAU34072 EAU13445 ECA10701 Fuel tank breather/overflow hose Catalytic converters This vehicle is equipped with catalytic converters in the exhaust system. EWA10862 **NOTICE** Use only unleaded gasoline. The use of leaded gasoline will cause unrepairable damage to the catalytic converter. 3 **WARNING** The exhaust system is hot after operation. To prevent a fire hazard or burns: G Do not park the vehicle near possible fire hazards such as grass or other materials that easily burn.

G Park the vehicle in a place where pedestrians or children are not likely to touch the hot exhaust system. G Make sure that the exhaust system has cooled down before doing any maintenance work. G Do not allow the engine to idle more than a few minutes. Long idling can cause a build-up of heat. 1. Fuel tank breather/overflow hose 2. Cowling Before operating the motorcycle: G Check the fuel tank breather/overflow hose connection. G Check the fuel tank breather/overflow hose for cracks or damage, and replace it if damaged. G Make sure that the end of the fuel tank breather/overflow hose is not blocked, and clean it if necessary. G Make sure that the end of the fuel tank breather/overflow hose is positioned outside of the cowling.

3-15 **INSTRUMENT AND CONTROL FUNCTIONS** EAU36692 EAU48091 Seat To remove the seat 1. Insert the key into the seat lock, and then turn it clockwise. Adjusting the front fork EWA10180 **WARNING** Always adjust both fork legs equally, otherwise poor handling and loss of stability may result. This front fork is equipped with spring preload adjusting bolts, rebound damping force adjusting bolts and compression damping force adjusting bolts. ECA10101 3 1. Seat holder 2. Projection 2. Push the center of the seat down to lock it in place. 3. Remove the key.

1. Seat lock 2. Unlock. **NOTICE** To avoid damaging the mechanism, do not attempt to turn beyond the maximum or minimum settings. Spring preload To make any adjustment of the spring preload, the adjuster has to be set to the standard setting first.

To set the standard setting, start by turning the adjusting bolt on each fork leg in direction (a) until it stops, then check the alignment mark position. a. If the alignment mark on the adjusting bolt is positioned past the alignment mark on the front fork 2. Pull the seat off. To install the seat 1.

Insert the projections into the seat holders as shown. **TIP** Make sure that the seat is properly secured before riding. 3-16 **INSTRUMENT AND CONTROL FUNCTIONS** cap as shown in illustration "A", turn the adjusting bolt in direction (b) until the alignment marks match. (b) 1 É 2 (b) È 2 (b) 2 (a) 1 (a) 1. Spring preload adjusting bolt 2. Alignment marks 1. Spring preload adjusting bolt 2. Alignment marks (a) 3 1 1. Spring preload adjusting bolt 2. Alignment marks To set the standard setting, turn the adjusting bolt 7 complete turns in direction (b), making sure the alignment marks match.

b. If the alignment mark on the adjusting bolt is positioned before the alignment mark on the front fork cap as shown in illustration "B", turn the adjusting bolt in direction (b) until the alignment marks match. To set the standard setting, turn the adjusting bolt 6 complete turns in direction (b), making sure the alignment marks match. (b) 1 2 (a) 1. Spring preload adjusting bolt 2. Alignment marks 3-17 **INSTRUMENT AND CONTROL FUNCTIONS** To increase the spring preload and thereby hardening it, turn the adjusting bolt in direction (a) from the standard setting, making sure to turn the bolt complete turns so that the alignment marks match. To decrease the spring preload and thereby softening it, turn the adjusting bolt in direction (b) from the standard setting, making sure to turn the bolt complete turns so that the alignment marks match. Spring preload setting: Minimum (soft): 7 complete turns in direction (b) from the standard setting Standard: See explanations above. Maximum (hard): 6 complete turns in direction (a) from the standard setting Rebound damping force Compression damping force (b) (a) (a) 1 1. Rebound damping force adjusting bolt 3 (b) 1 1.

Compression damping force adjusting bolt To increase the rebound damping force and thereby harden the rebound damping, turn the adjusting bolt on each fork leg in direction (a). To decrease the rebound damping force and thereby soften the rebound damping, turn the adjusting bolt on each fork leg in direction (b). Rebound damping setting: Minimum (soft): 17 click(s) in direction (b)* Standard: 10 click(s) in direction (b)* Maximum (hard): 1 click(s) in direction (b)* * With the adjusting bolt fully turned in direction (a) 3-18 To increase the compression damping force and thereby harden the compression damping, turn the adjusting bolt on each fork leg in direction (a). To decrease the compression damping force and thereby soften the compression damping, turn the adjusting bolt on each fork leg in direction (b). Compression damping setting: Minimum (soft): 20 click(s) in direction (b)* Standard: 10 click(s) in direction (b)* Maximum (hard): 1 click(s) in direction (b)* * With the adjusting bolt fully turned in direction (a) **TIP** Due to small differences in production, the positions of the alignment marks on the front fork caps may not exactly match the illustrations.

INSTRUMENT AND CONTROL FUNCTIONS EAU48080 **TIP** Although the total number of clicks of a 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 each damping force adjusting mechanism and to modify the specifications as necessary. Adjusting the shock absorber assembly This shock absorber assembly is equipped with a spring preload adjusting nut, a rebound damping force adjusting knob and a compression damping force adjusting screw. ECA10101 **NOTICE** To avoid damaging the mechanism, do not attempt to turn beyond the maximum or minimum settings. Spring preload Adjust the spring preload as follows.

1. Loosen the locknut. 1 2 1. Spring preload adjusting nut 2. Locknut 3-19 2. To increase the spring preload and thereby harden the suspension, turn the adjusting nut in direction (a). To decrease the spring preload and thereby soften the suspension, turn the adjusting nut in direction (b). G Use the special wrench, which was handed out separately at the purchase of the vehicle, to make the adjustment.



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G Attach the extension bar, which is included in the owner's tool kit, to the special wrench. G The spring preload setting is determined by measuring distance A, shown in the illustration.

The longer distance A is, the lower the spring preload; the shorter distance A is, the higher the spring preload. 3 INSTRUMENT AND CONTROL FUNCTIONS (a) 1 (b) 3 Spring preload: Minimum (soft): Distance A = 165 mm (6.50 in) Standard: Distance A = 160 mm (6.30 in) Maximum (hard): Distance A = 152 mm (5.98 in) (b) 1 2 1. Special wrench 2. Extension bar 3. Tighten the locknut to the specified torque. NOTICE: Always tighten the locknut against the adjusting nut, and then tighten the locknut to the specified torque. [ECA10121] (a) 1.

Rebound damping force adjusting knob Tightening torque: Locknut: 25 Nm (2.5 m-kgf, 18 ft-lbf) 1 1. Distance A Rebound damping force To increase the rebound damping force and thereby harden the rebound damping, turn the adjusting knob in direction (a). To decrease the rebound damping force and thereby soften the rebound damping, turn the adjusting knob in direction (b). Rebound damping setting: Minimum (soft): 23 click(s) in direction (b)* Standard: 18 click(s) in direction (b)* Maximum (hard): 13 click(s) in direction (b)* * With the adjusting knob fully turned in direction (a) Compression damping force To increase the compression damping force and thereby harden the compression damping, turn the adjusting screw in direction (a). To decrease the compression damping force and thereby soften the compression damping, turn the adjusting screw in direction (b). 3-20 INSTRUMENT AND CONTROL FUNCTIONS EWA10221 EAU36700 WARNING Luggage strap holders (a) (b) 1 1. Compression damping force adjusting screw Compression damping setting: Minimum (soft): 18 click(s) in direction (b)* Standard: 13 click(s) in direction (b)* Maximum (hard): 8 click(s) in direction (b)* * With the adjusting screw fully turned in direction (a) TIP To obtain a precise adjustment, it is advisable to check the actual total number of clicks or turns of each damping force adjusting mechanism. This adjustment range may not exactly match the specifications listed due to small differences in production. This shock absorber assembly contains highly pressurized nitrogen gas.

Read and understand the following information before handling the shock absorber assembly. G Do not tamper with or attempt to open the cylinder assembly. G Do not subject the shock absorber assembly to an open flame or other high heat source. This may cause the unit to explode due to excessive gas pressure. G Do not deform or damage the cylinder in any way. Cylinder damage will result in poor damping performance. G Do not dispose of a damaged or worn-out shock absorber assembly yourself. Take the shock absorber assembly to a Yamaha dealer for any service. 3 1. Hook 2.

Luggage strap holder There are four luggage strap holders on the bottom of the seat. To use the strap holders, remove the seat, unhook the straps from the hooks, and then install the seat with the straps hanging out from under the seat. (See page 3-16.) 3-21 INSTRUMENT AND CONTROL FUNCTIONS EAU15281 EAU15301 EXUP system This model is equipped with Yamaha's EXUP (EXhaust Ultimate Power valve) system. This system boosts engine power by means of a valve that regulates the diameter of the exhaust pipe. The EXUP system valve is constantly adjusted in accordance with the engine speed by a computer-controlled servomotor. ECA10191 Sidestand The sidestand is located on the left side of the frame. Raise the sidestand or lower it with your foot while holding the vehicle upright. TIP The built-in sidestand switch is part of the ignition circuit cut-off system, which cuts the ignition in certain situations. (See further down for an explanation of the ignition circuit cut-off system.)

) EWA10240 below and have a Yamaha dealer repair it if it does not function properly. 3 NOTICE G G The EXUP system has been set and extensively tested at the Yamaha factory. Changing these settings without sufficient technical knowledge may result in poor performance of or damage to the engine. If the EXUP system cannot be heard when the main switch is turned on, have a Yamaha dealer check it. WARNING The vehicle must not be ridden with the sidestand down, or if the sidestand cannot be properly moved up (or does not stay up), otherwise the sidestand could contact the ground and distract the operator, resulting in a possible loss of control.

Yamaha's ignition circuit cut-off system has been designed to assist the operator in fulfilling the responsibility of raising the sidestand before starting off. Therefore, check this system regularly as described 3-22 INSTRUMENT AND CONTROL FUNCTIONS EAU44892 Ignition circuit cut-off system The ignition circuit cut-off system (comprising the sidestand switch, clutch switch and neutral switch) has the following functions. G It prevents starting when the transmission is in gear and the sidestand is up, but the clutch lever is not pulled. G It prevents starting when the transmission is in gear and the clutch lever is pulled, but the sidestand is still down. G It cuts the running engine when the transmission is in gear and the sidestand is moved down.

Periodically check the operation of the ignition circuit cut-off system according to the following procedure. 3 3-23 INSTRUMENT AND CONTROL FUNCTIONS With the engine turned off: 1. Move the sidestand down. 2. Make sure that the engine stop switch is set to " 3. Turn the key on. 4. Shift the transmission into the neutral position. 5. Push the start switch.

Does the engine start? WARNING ". If a malfunction is noted, have a Yamaha dealer check the system before riding. 3 YES With the engine still running: 6. Move the sidestand up. 7. Keep the clutch lever pulled. 8. Shift the transmission into gear. 9. Move the sidestand down.

Does the engine stall? NO The neutral switch may not be working correctly. The motorcycle should not be ridden until checked by a Yamaha dealer. YES After the engine has stalled: 10. Move the sidestand up. 11.

Keep the clutch lever pulled. 12. Push the start switch. Does the engine start? NO The sidestand switch may not be working correctly. The motorcycle should not be ridden until checked by a Yamaha dealer.

YES NO The clutch switch may not be working correctly. The motorcycle should not be ridden until checked by a Yamaha dealer. The system is OK. The motorcycle can be ridden. 3-24 FOR YOUR SAFETY PRE-OPERATION CHECKS EAU15596 Inspect your vehicle each time you use it to make sure the vehicle is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in the Owner's Manual. EWA11151 WARNING Failure to inspect or maintain the vehicle properly increases the possibility of an accident or equipment damage.



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Do not operate the vehicle if you find any problem. If a problem cannot be corrected by the procedures provided in this manual, have the vehicle inspected by a Yamaha dealer. Before using this vehicle, check the following points: ITEM Fuel · Check fuel level in fuel tank.

· Refuel if necessary. · Check fuel line for leakage. · Check oil level in oil tank. · If necessary, add recommended oil to specified level. · Check vehicle for oil leakage. Check operation. If soft or spongy, have Yamaha dealer bleed hydraulic system. Check brake pads for wear. Replace if necessary. Check fluid level in reservoir.

If necessary, add recommended brake fluid to specified level. Check hydraulic system for leakage. Check operation. If soft or spongy, have Yamaha dealer bleed hydraulic system. Check brake pads for wear.

Replace if necessary. Check fluid level in reservoir. If necessary, add recommended brake fluid to specified level. Check hydraulic system for leakage. 4-1 CHECKS PAGE 3-13 4 Engine oil 6-9 Front brake 6-17, 6-18 Rear brake 6-17, 6-18 FOR YOUR SAFETY PRE-OPERATION CHECKS ITEM Clutch CHECKS · Check operation.

· If soft or spongy, have Yamaha dealer bleed hydraulic system. · Check hydraulic system for leakage. · Make sure that operation is smooth. · Check cable free play. · If necessary, have Yamaha dealer adjust cable free play and lubricate cable and grip housing. · Make sure that operation is smooth. · Lubricate if necessary. @@Adjust if necessary. Check chain condition. Lubricate if necessary.

Check for damage. Check tire condition and tread depth. Check air pressure. Correct if necessary. @@ · Lubricate pedal pivoting points if necessary. · Make sure that operation is smooth. · Lubricate lever pivoting points if necessary. · Make sure that operation is smooth. · Lubricate pivot if necessary. @@ · Tighten if necessary.

· Check operation. · Correct if necessary. · Check operation of ignition circuit cut-off system. @@@@G an engine auto-stop system. The engine stops automatically if left idling for 30 minutes.

@@@@@See page 3-23 for more information. 1. Turn the key to "ON" and make sure that the engine stop switch is set to " ". The following warning lights and indicator light should come on for a few seconds, then go off. G Fuel level warning light G Engine trouble warning light G Immobilizer system indicator light ECA11831 5 NOTICE If a warning or indicator light does not go off, see page 3-4 for the corresponding warning and indicator light circuit check.

5-1 OPERATION AND IMPORTANT RIDING POINTS 2. Shift the transmission into the neutral position. (See page 5-2.) The neutral indicator light should come on. If not, ask a Yamaha dealer to check the electrical circuit. 3. Start the engine by pushing the start switch. NOTICE: For maximum engine life, never accelerate hard when the engine is cold! @@@@Shift pedal 2. @@The gear positions are shown in the illustration. @@@@Inadequate lubrication may damage the transmission.

@@@@@For this reason, you should read the following material carefully. @@@@@@Safety is an obligation of the vehicle owner/operator. @@@@G A running engine has moving parts that can catch on body parts or clothing and electrical parts that can cause shocks or fires. G Running the engine while servicing can lead to eye injury, burns, fire, or carbon monoxide poisoning possibly leading to death. See page 1-1 for more information about carbon monoxide. 1. Owner's tool kit WARNING Failure to properly maintain the vehicle or performing maintenance activities incorrectly may increase your risk of injury or death during service or while using the vehicle. If you are not familiar with vehicle service, have a Yamaha dealer perform service. 6-1 The owner's tool kit is located on the bottom of the seat. (See page 3-16.

) 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. TIP If you do not have the tools or experience required for a particular job, have a Yamaha dealer perform it for you. 6 PERIODIC MAINTENANCE AND ADJUSTMENT EAU46861 TIP G G G The annual checks must be performed every year, except if a kilometer-based maintenance, or for the UK, a mileage-based maintenance, is performed instead. From 50000 km (30000 mi), repeat the maintenance intervals starting from 10000 km (6000 mi).

Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills. EAU46910 Periodic maintenance chart for the emission control system ODOMETER READING NO. ITEM CHECK OR MAINTENANCE JOB 1000 km (600 mi) 10000 km (6000 mi) 20000 km (12000 mi) 30000 km (18000 mi) 40000 km (24000 mi) ANNUAL CHECK 6 1 * Fuel line · Check fuel hoses for cracks or damage. · Check condition. · Clean and regap.

· Replace. 2 * Spark plugs 3 * Valves 4* 5* Fuel injection system Muffler and exhaust pipe · Check valve clearance. · Adjust. · Adjust synchronization. · Check the screw clamp(s) for looseness. 6-2 PERIODIC MAINTENANCE AND ADJUSTMENT EAU1770C General maintenance and lubrication chart ODOMETER READING NO. ITEM CHECK OR MAINTENANCE JOB 1000 km (600 mi) 10000 km (6000 mi) 20000 km (12000 mi) 30000 km (18000 mi) 40000 km (24000 mi) ANNUAL CHECK 1 * Air filter element 2 * Clutch · Replace. · Check operation, fluid level and vehicle for fluid leakage. · Check operation, fluid level and vehicle for fluid leakage. · Replace brake pads.

3 * Front brake Whenever worn to the limit 4 * Rear brake · Check operation, fluid level and vehicle for fluid leakage. · Replace brake pads. Whenever worn to the limit 5 * Brake hoses 6 * Wheels · Check for cracks or damage. · Replace. · Check runout and for damage. · Check tread depth and for damage. · Replace if necessary. · Check air pressure. · Correct if necessary. · Check bearing for looseness or damage.

· Check operation and for excessive play. 6 Every 4 years 7 * Tires 8 * Wheel bearings 9 * Swingarm 6-3 PERIODIC MAINTENANCE AND ADJUSTMENT ODOMETER READING NO. ITEM CHECK OR MAINTENANCE JOB 1000 km (600 mi) 10000 km (6000 mi) 20000 km (12000 mi) 30000 km (18000 mi) 40000 km (24000 mi) ANNUAL CHECK 10 Drive chain · Check chain slack, alignment and condition.



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· Adjust and lubricate chain with a special O-ring chain lubricant thoroughly. · Check bearing play and steering for roughness.
· Lubricate with lithium-soap-based grease. @ @ · Lubricate with silicone grease. · Lubricate with lithium-soap-based grease. · Lubricate with silicone grease.
· Lubricate with lithium-soap-based grease.
· Check operation. · Lubricate. · Check operation. · Check operation and for oil leakage. @ @ @ @ · Check oil level and vehicle for oil leakage. · Replace. ·
Check operation. · Lubricate. · Check operation and free play. · Adjust the throttle cable free play if necessary.

· Lubricate the throttle grip housing and cable. · Check operation. @ @ @ @ @ @ @ @ Cowling 2. Bolt 1. Cowling 1. Cowling 2. Projection 3. @ @ @ @ Cowling
2. @ @ @ @ In addition, the condition of the spark plugs can reveal the condition of the engine. The porcelain insulator around the center electrode of each
spark plug should be a medium-to-light tan (the ideal color when the vehicle is ridden normally), and all spark plugs installed in the engine should have the
same color.

If any spark plug shows a distinctly different color, the engine could be operating improperly. Do not attempt to diagnose such problems yourself. Instead,
have a Yamaha dealer check the vehicle. If a spark plug shows signs of electrode erosion and excessive carbon or other deposits, it should be replaced.

Specified spark plug: NGK/DPR7EA-9 DENSO/X22EPR-U9 Tightening torque: Spark plug: 17.

5 Nm (1.75 m·kgf, 12.7 ft·lbf) Before installing a spark plug, the spark plug gap should be measured with a wire thickness gauge and, if necessary, adjusted to
specification. TIP If a torque wrench is not available when installing a spark plug, a good estimate of the correct torque is 1/4 1/2 turn past finger tight.

However, the spark plug should be tightened to the specified torque as soon as possible.

6 1. Spark plug gap Spark plug gap: 0.80.9 mm (0.0310.035 in) Clean the surface of the spark plug gasket and its mating surface, and then wipe off any grime
from the spark plug threads. 6-8 PERIODIC MAINTENANCE AND ADJUSTMENT EAU36809 Engine oil and oil filter cartridge The engine oil level should
be checked before each ride. In addition, the oil must be changed and the oil filter cartridge replaced at the intervals specified in the periodic maintenance
and lubrication chart. To check the engine oil level 1. Place the vehicle on a level surface and hold it in an upright position.

A slight tilt to the side can result in a false reading. 2. Start the engine, warm it up until the engine oil has reached a normal temperature of 60 °C (140 °F),
let it continue to idle for ten seconds, and then turn the engine off. TIP To achieve the proper engine oil temperature for an accurate oil level reading, the
engine must have first completely cooled down, and then warmed up again for several minutes to normal operating temperature. 3. Wait a few minutes until
the oil settles, remove the engine oil filler cap, wipe the engine oil dipstick clean, insert it back into the oil filler hole (without screwing it in), and then remove
it again to check the oil level. 1. Maximum level mark 2. Minimum level mark 3. Engine oil dipstick 1.

Engine oil filler cap 4. If the engine oil is at or below the minimum level mark, add sufficient oil of the recommended type to raise it to the correct level. TIP
When adding oil, be careful not to overfill the engine oil tank; the oil level rises faster starting from the half level portion on the dipstick. 5. Insert the dipstick
into the oil filler hole, and then tighten the oil filler cap.

6 TIP The engine oil should be between the minimum and maximum level marks. 6-9 PERIODIC MAINTENANCE AND ADJUSTMENT ECA10900 NOTICE
Make sure that the oil filler cap is securely tightened, otherwise oil may seep out when the engine is running. To change the engine oil (with or without oil
filter cartridge replacement) 1. Place the vehicle on a level surface. 2.

Remove the cowling. (See page 6-7.) 3. Start the engine, warm it up for several minutes, and then turn it off. 4. Place an oil pan under the oil tank to collect
the used oil. 5. Remove the engine oil filler cap and drain bolt to drain the oil from the oil tank. TIP Skip steps 812 if the oil filter cartridge is not being
replaced. 8.

Remove the rectifier/regulator by removing the bolts. 1. Engine oil drain bolt (oil tank) 6. Place an oil pan under the engine to collect the used oil. 7. Remove
the engine oil drain bolt to drain the oil from the crankcase. 1. Rectifier/regulator 2. Bolt 6 9. Remove the oil filter cartridge with an oil filter wrench.

1. Engine oil drain bolt (crankcase) 6-10 PERIODIC MAINTENANCE AND ADJUSTMENT 1. Oil filter cartridge 2. Oil filter wrench 1. O-ring 1.

Torque wrench TIP An oil filter wrench is available at a Yamaha dealer. 10. Apply a thin coat of clean engine oil to the O-ring of the new oil filter cartridge.
TIP Make sure that the O-ring is properly seated. 11.

Install the new oil filter cartridge with an oil filter wrench, and then tighten it to the specified torque with a torque wrench. Tightening torque: Oil filter
cartridge: 17 Nm (1.7 m·kgf, 12 ft·lbf) 12. Install the rectifier/regulator by installing the bolts, and then tighten them to the specified torque. Tightening
torque: Rectifier/regulator bolt: 7 Nm (0.7 m·kgf, 5.1 ft·lbf) 6 13. Install the engine oil drain bolts, and then tighten them to the specified torques. 6-11
PERIODIC MAINTENANCE AND ADJUSTMENT Tightening torques: Engine oil drain bolt (crankcase): 43 Nm (4.3 m·kgf, 31 ft·lbf) Engine oil drain bolt
(oil tank): 35 Nm (3.

5 m·kgf, 25 ft·lbf) TIP Be sure to wipe off spilled oil on any parts after the engine and exhaust system have cooled down. ECA15080 20. Install the cowling. 6
14. Pour only 2.5 L (2.6 US qt, 2.2 Imp.qt) of the specified amount of recommended engine oil through the filler hole, insert the dipstick, and then tighten the
oil filler cap. 15.

Start the engine, rev it several times, and then turn it off. 16. Remove the engine oil filler cap, and then gradually fill the oil tank with the remaining oil
quantity while regularly checking the oil level on the dipstick. Recommended engine oil: See page 8-1. Oil quantity: Without oil filter cartridge replacement:
3.

70 L (3.91 US qt, 3.26 Imp.qt) With oil filter cartridge replacement: 4.10 L (4.

33 US qt, 3.61 Imp.qt) NOTICE G G In order to prevent clutch slippage (since the engine oil also lubricates the clutch), do not mix any chemical additives.
Do not use oils with a diesel specification of "CD" or oils of a higher quality than specified. In addition, do not use oils labeled "ENERGY CONSERVING II"
or higher. Make sure that no foreign material enters the oil tank. 17. Install the engine oil filler cap.



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18. 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. 19. Turn the engine off, and then check the oil level and correct it if necessary. 6-12 PERIODIC MAINTENANCE AND ADJUSTMENT EAU36762 EAU21382 EAU21401 Air filter element The air filter element must be replaced at the intervals specified in the periodic maintenance and lubrication chart. Have a Yamaha dealer replace the air filter element. Checking the throttle cable free play Valve clearance The valve clearance changes with use, resulting in improper air-fuel mixture and/or engine noise. To prevent this from occurring, the valve clearance must be adjusted by a Yamaha dealer at the intervals specified in the periodic maintenance and lubrication chart. 1. Throttle cable free play The throttle cable free play should measure 3.05.

0 mm (0.120.20 in) at the throttle grip. Periodically check the throttle cable free play and, if necessary, have a Yamaha dealer adjust it. 6 6-13 PERIODIC MAINTENANCE AND ADJUSTMENT EAU21772 Tires To maximize the performance, durability, and safe operation of your motorcycle, note the following points regarding the specified tires.

Tire air pressure The tire air pressure should be checked and, if necessary, adjusted before each ride. EWA10501 WARNING Operation of this vehicle with improper tire pressure may cause severe injury or death from loss of control. G The tire air pressure must be checked and adjusted on cold tires (i.e., when the temperature of the tires equals the ambient temperature).

G The tire air pressure must be adjusted in accordance with the riding speed and with the total weight of rider, passenger, cargo, and accessories approved for this model. 6 Tire air pressure (measured on cold tires): 090 kg (0198 lb): Front: 250 kPa (2.50 kgf/cm², 36 psi) Rear: 290 kPa (2.90 kgf/cm², 42 psi) 90-196 kg (198432 lb): Front: 250 kPa (2.50 kgf/cm², 36 psi) Rear: 290 kPa (2.90 kgf/cm², 42 psi) High-speed riding: Front: 250 kPa (2.50 kgf/cm², 36 psi) Rear: 290 kPa (2.90 kgf/cm², 42 psi) Maximum load*: 196 kg (432 lb) * Total weight of rider, passenger, cargo and accessories EWA10511 Tire inspection 1. Tire sidewall 2. Tire tread depth The tires must be checked before each ride.

If the center tread depth reaches the specified limit, if the tire has a nail or glass fragments in it, or if the sidewall is cracked, have a Yamaha dealer replace the tire immediately. Minimum tire tread depth (front and rear): 1.6 mm (0.06 in) WARNING Never overload your vehicle. Operation of an overloaded vehicle could cause an accident. TIP The tire tread depth limits may differ from country to country. Always comply with the local regulations. 6-14 PERIODIC MAINTENANCE AND ADJUSTMENT EWA10470 WARNING G This motorcycle is equipped with cast wheels and tubeless tires with valves. EWA10481 G Have a Yamaha dealer replace excessively worn tires. Besides being illegal, operating the vehicle with excessively worn tires decreases riding stability and can lead to loss of control.

The replacement of all wheel and brake related parts, including the tires, should be left to a Yamaha dealer, who has the necessary professional knowledge and experience. WARNING G G G Tire information The front and rear tires should be of the same make and design, otherwise the handling characteristics of the motorcycle may be different, which could lead to an accident. Always make sure that the valve caps are securely installed to prevent air pressure leakage.

Use only the tire valves and valve cores listed below to avoid tire deflation during a high-speed ride. Front tire: Size: 120/70 ZR17 M/C (58W)

Manufacturer/model: PIRELLI/DIABLO ROSSO Rear tire: Size: 190/50 ZR17 M/C (73W) Manufacturer/model: PIRELLI/DIABLO ROSSO FRONT and REAR: Tire air valve: TR412 Valve core: #9100 (original) EWA10600 WARNING This motorcycle is fitted with superhigh-speed tires.

Note the following points in order to make the most efficient use of these tires. G Use only the specified replacement tires. Other tires may run the danger of bursting at super high speeds. G Brand-new tires can have a relatively poor grip on certain road surfaces until they have been "broken in". Therefore, it is advisable before doing any high-

6 After extensive tests, only the tires listed below have been approved for this model by Yamaha Motor Co., Ltd. 1. Tire air valve 2. Tire air valve core 3. Tire air valve cap with seal 6-15 PERIODIC MAINTENANCE AND ADJUSTMENT speed riding to ride conservatively for approximately 100 km (60 mi) after installing a new tire. The tires must be warmed up before a high-speed run. Always adjust the tire air pressure according to the operating conditions. EAU21960 EAU42850 Cast wheels To maximize the performance, durability, and safe operation of your vehicle, note the following points regarding the specified wheels. G The wheel rims should be checked for cracks, bends or warpage 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. G 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.

G Ride at moderate speeds after changing a tire since the tire surface must first be "broken in" for it to develop its optimal characteristics. Clutch lever Since this model is equipped with a hydraulic clutch, adjusting the clutch lever free play is not needed. However, it is necessary to check the hydraulic system for leakage before each ride. If the clutch lever free play does become excessive, and shifting becomes rough or clutch slippage occurs, causing poor

acceleration, there may be air in the clutch system. If there is air in the hydraulic system, have a Yamaha dealer bleed the system before operating the motorcycle. G G 6-16 PERIODIC MAINTENANCE AND ADJUSTMENT EAU22272 EAU22390 Adjusting the rear brake light switch Checking the front and rear brake pads The front and rear brake pads must be checked for wear at the intervals specified in the periodic maintenance and lubrication chart.

EAU43062 wear indicator groove almost appears, have a Yamaha dealer replace the brake pads as a set. EAU46291 Rear brake pads Front brake pads 1. Rear brake light switch 2. Rear brake light switch adjusting nut 1 1 The rear brake light, which is activated by the brake pedal, should come on just before braking takes effect. If necessary, adjust the rear brake light switch as follows.

Turn the rear brake light switch 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).



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