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You can read the recommendations in the user guide, the technical guide or the installation guide for YAMAHA MT-03. You'll find the answers to all your questions on the YAMAHA MT-03 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-03
User guide YAMAHA MT-03
Operating instructions YAMAHA MT-03
Instructions for use YAMAHA MT-03
Instruction manual YAMAHA MT-03



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Manual abstract:

Contents To change contact person and integrate type-designation. 1 Date 9 Jun. 2005 General manager of quality assurance div. @@@@Please take the time to read this manual thoroughly, so as to enjoy all advantages of your MT-03. 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 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. @@BECOME ALERT! YOUR SAFETY IS INVOLVED! @@@@G Yamaha continually seeks advancements in product design and quality. Therefore, while this manual contains the most current product information available at the time of printing, there may be minor discrepancies between your motorcycle and this manual.

If you have any questions concerning this manual, please consult your Yamaha dealer.. EWA10030 WARNING 0 PLEASE READ THIS MANUAL CAREFULLY AND COMPLETELY BEFORE OPERATING THIS MOTORCYCLE. * Product and specifications are subject to change without notice.

IMPORTANT MANUAL INFORMATION EAUB1011 MT-03 OWNER'S MANUAL ©2006 by Yamaha Motor Italia S.

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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 THE OWNER'S MANUAL. G OBTAIN QUALIFIED TRAINING IN SAFE AND PROPER RIDING TECHNIQUES. G OBTAIN PROFESSIONAL TECHNICAL SERVICE AS INDICATED BY THE OWNER'S MANUAL AND/OR WHEN MADE NECESSARY BY MECHANICAL CONDITIONS.

Safe riding G Always make pre-operation checks. Careful checks may help prevent an accident. 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. 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 due to EXCESSIVE SPEED or undercornering (insufficient lean angle for the speed). 1-1 SAFETY INFORMATION ·

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. · 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.



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Never ride under the influence of alcohol or other drugs. G This motorcycle is designed for on-road use only. It is not suitable for off-road use. 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 Never touch the engine or exhaust system during or after operation. They become very hot and can cause burns. Always wear protective clothing that covers your legs, ankles, and feet. A passenger should also observe the above precautions.

1 2 3 4 5 6 7 8 9 10 Modifications Modifications made to this motorcycle not approved by Yamaha, or the removal of original equipment, may render the motorcycle unsafe for use and may cause severe personal injury. Modifications may also make your motorcycle illegal to use. Loading and accessories Adding accessories or cargo to your motorcycle can adversely affect stability and handling if the weight distribution of the motorcycle is changed. To avoid the possibility of an accident, use extreme caution when adding cargo or accessories to your motorcycle. Use extra care when riding a motorcycle that has added cargo or accessories. G 1-2 SAFETY INFORMATION Here are some general guidelines to follow if loading cargo or adding accessories to your motorcycle: 1 2 3 4 5 6 7 8 r, gasoline may leak out of the fuel tank. If you should swallow any gasoline, inhale a lot of gasoline vapor, or allow gasoline to get into your eyes, see your doctor immediately. If any gasoline spills on your skin or clothing, immediately wash the affected area with soap and water and change your clothes. 1 2 3 4 5 6 7 8 9 10 1-4 DESCRIPTION EAU10410 Left view 1 2 3 4 5 6 7 8 9 10 1. 2.

3. 4. 5. Main fuse (page 6-31) Battery (page 6-29) Idle adjusting screw (page 6-14) Air filter element (page 6-13) Owner's tool kit (page 6-1) 2-1 6. 7. 8. 9. Seat lock (page 3-14) Shift pedal (page 3-10) Engine oil drain bolt (crankcase) (page 6-9) Engine oil drain bolt (oil tank) (page 6-9) DESCRIPTION EAU10420 Right view 1 2 3 4 5 6 7 8 9 10 10. 11. 12.

13. 14. Grab bar Fuse box (page 6-32) Rear brake fluid reservoir (page 6-21) Front brake fluid reservoir (page 6-21) Coolant reservoir (page 6-12) 2-2 15. 16. 17. 18. 1U11003 F (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. The steering must be locked before the key can be turned to "F".

ECA11020 Indicator and warning lights 1 2 3 4 1. Immobilizer system indicator light " " 2. Neutral indicator light "N" 3. Turn signal indicator light "y" 4. High beam indicator light "I" 5. Engine trouble warning light "U" 6. Coolant temperature warning light "u" 7. Fuel level warning light "K" EAU26873 1.

Push 2. Turn CAUTION: Do not use the parking position for an extended length of time, otherwise the battery may discharge.

Push the key in, and then turn it to "OFF" while still pushing it. EWA10060 5 6 7 8 9 10 WARNING 0 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. Make sure that the vehicle is stopped before turning the key to "OFF" or "LOCK". Immobilizer system indicator light " " The electrical circuit of the indicator light can be checked by turning the key to "ON". If the indicator light does not come on for a few seconds, then go off, have a Yamaha dealer check the electrical circuit.

3-3 INSTRUMENT AND CONTROL FUNCTIONS 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 self-diagnosis device for the immobilizer system. (See page 3-7 for an explanation of the self-diagnosis device.) EAU11060 EWA10060 EAU11440 WARNING 0 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.

Make sure that the vehicle is stopped before turning the key to "OFF" or "LOCK". EAU11530 1 2 3 4 5 6 7 8 9 10 Neutral indicator light "N" This indicator light comes on when the transmission is in the neutral position. EAU11020 Turn signal indicator light "y" This indicator light flashes when the turn signal switch is pushed to the left or right. EAU11080 High beam indicator light "I" This indicator light comes on when the high beam of the headlight is switched on. Engine trouble warning light "U" This warning light comes on or flashes when an electrical circuit monitoring the engine is defective. When 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". If the warning light does not come on for a few seconds, then go off, have a Yamaha dealer check the electrical circuit. Coolant temperature warning light "u" This warning light comes on when the engine overheats.

When this occurs, stop the engine immediately and allow the engine to cool. The electrical circuit of the warning light can be checked by turning the key to "ON". If the warning light does not come on for a few seconds, then go off, have a Yamaha dealer check the electrical circuit. ECA10020 CAUTION: Do not operate the engine if it is overheated. EAU11361 Fuel level warning light "K" This warning light comes on when the fuel level drops below approximately 4.25 L (1.12 US gal) (0.93 Imp.gal). When this occurs, refuel as soon as possible.

3-4 INSTRUMENT AND CONTROL FUNCTIONS The electrical circuit of the warning light can be checked by turning the key to "ON". If the warning light does not come on for a few seconds, and then go off, have a Yamaha dealer check the electrical circuit. NOTE: This model is also equipped with a self-diagnosis device for the fuel level detection circuit.



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If the fuel level detection circuit is defective, the following cycle will be repeated until the malfunction is corrected: The fuel level warning light will flash eight times, and then go off for 3.0 seconds.

If this occurs, have a Yamaha dealer check the vehicle. EAUB1392 Multi-function meter unit 1. Speedometer 2. Tachometer 3. Clock 4. Odometer/Tripmeters/Fuel reserve tripmeter 5. "SELECT" button 6. "RESET" button EWA12421 WARNING 0 Be sure to stop the vehicle before making any setting changes to the multi-function meter unit. The multi-function meter unit is equipped with the following: G a speedometer (which shows the riding speed) 3-5 a tachometer (which shows engine speed) G an odometer (which shows the total distance traveled) G two tripmeters (which show the distance traveled since they were last set to zero) G a fuel reserve tripmeter (which shows the distance traveled since the fuel level warning light came on) G a clock G a self-diagnosis device G an indicator lights brightness control mode To switch the speedometer and odometer/tripmeter displays between kilometers and miles, push the "SELECT" and "RESET" buttons together and turn the key to "ON". When the digits start flashing on the display, push the "SELECT" button to choose kilometers or miles. NOTE: Be sure to turn the key to "ON" before using the "SELECT" and "RESET" buttons. G 1 2 3 4 5 6 7 8 9 10 INSTRUMENT AND CONTROL FUNCTIONS Tachometer Odometer, tripmeter modes between the various tripmeter, odometer modes in the following order: F-TRIP 6 ODO 6 TRIP 1 6 TRIP 2 6 F-TRIP To reset a tripmeter, select it by pushing the "SELECT" button, and then push the "RESET" button for at least four seconds. 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). 1 2 3 4 5 6 7 8 9 10 1. Tachometer 2.

Red zone 1. "SELECT" button 2. "RESET" button The electric tachometer allows the rider to monitor the engine speed and keep it within the ideal power range. ECA10031 CAUTION: Do not operate the engine in the tachometer red zone. Red zone: 7,500 r/min and above. 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 6 TRIP 1 6 TRIP 2 6 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, push the "SELECT" button to switch the display 3-6 INSTRUMENT AND CONTROL FUNCTIONS Clock mode Self-diagnosis devices If this occurs, have a Yamaha dealer check the vehicle. However, if the indicator light slowly flashes five times, and then quickly flashes two times repeatedly, this error could be caused by signal interference. If this occurs, try the following. 1.

Use the code re-registering key to start the engine. 1. Clock 2. "SELECT" button 3. "RESET" button 1.

Engine trouble warning light "U" 2. Immobilizer system indicator light " " 1 2 3 4 Turn the key to "ON". To set the clock 1. Push the "SELECT" button for at least two seconds. 2.

When the hour digits start flashing, push the "RESET" button to set the hours. 3. Push the "SELECT" button, and the minute digits will start flashing. 4. Push the "RESET" button to set the minutes. 5. Push the "SELECT" button, and then release it to start the clock. This model is equipped with a self-diagnosis device for various electrical circuits. If any of those circuits are defective, the engine trouble warning light will start flashing. If this occurs, have a Yamaha dealer check the vehicle.

This model is also equipped with a self-diagnosis device for the immobilizer system. Turn the key to "ON". If any of the immobilizer system circuits are defective, the immobilizer system indicator light will flash, and it will indicate an error code. NOTE: 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. 5 6 7 8 9 10 3-7 INSTRUMENT AND CONTROL FUNCTIONS If the immobilizer system indicator light flashes any error codes, have a Yamaha dealer check the vehicle. 1 CAUTION: 2 3 4 5 6 7 8 9 10 If the display indicates an error code, the vehicle should be checked as soon as possible in order to avoid engine damage.

ECA11590 Indicator lights brightness control mode G Indicator lights brightness: This function allows you to adjust the brightness of the indicator lights to suit the outside lighting conditions. To adjust the brightness of the indicator lights 1. Turn the key to "ON". 2. Push the "SELECT" button to select ODO meter mode, and then push the "RESET" button for at least five seconds.

3. Release the "RESET" button, and then select the desired lighting brightness level by pushing the "RESET" button. EAU12331 Anti-theft alarm (optional) This motorcycle can be equipped with an optional anti-theft alarm by a Yamaha dealer. Contact a Yamaha dealer for more information. 3-8 INSTRUMENT AND CONTROL FUNCTIONS EAU12343 Right EAU12460 Handlebar switches Left Turn signal switch "y" To signal a right-hand turn, push this switch to "".

To signal a left-hand turn, push this switch to "Y". When released, the switch returns to the center position. To cancel the turn signal lights, push the switch in after it has returned to the center position. EAU12660 1 2 3 4 5 6 7 8 9 10 1. Engine stop switch "I/B" 2. Start switch "J" 1. Pass switch "I" 2. Dimmer switch "2 / 1" 3. Horn switch "o" 4. Turn signal switch "y" 5.

Hazard switch "r" EAU12350 Pass switch "I" Press this switch to flash the headlight. EAU12400 Engine stop switch "I/B" Set this switch to "I" before starting the engine. Set this switch to "B" to stop the engine in case of an emergency, such as when the motorcycle overturns or when the throttle cable is stuck. EAU12710 Dimmer switch "2 / 1" Set this switch to "1" for the high beam and to "2" for the low beam. EAU12500 Start switch "J" Push this switch to crank the engine with the starter.



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ECA10050 Horn switch "o" Press this switch to sound the horn. CAUTION: See page 5-1 for starting instructions prior to starting the engine. , 3-9 INSTRUMENT AND CONTROL FUNCTIONS EAU12733 EAU12820 EAU12870 1 2 3 4 Hazard switch "r" With the key in the "ON" or F 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 Clutch lever Shift pedal CAUTION: 1. Clutch lever 1. Shift pedal 5 6 7 8 9 10 Do not use the hazard lights for an extended length of time with the engine not running, otherwise the battery may discharge. The clutch lever is located at the left handlebar grip. To disengage the clutch, pull the lever toward the handlebar grip. To engage the clutch, release the lever.

The lever should be pulled rapidly and released slowly for smooth clutch operation. The clutch lever is equipped with a clutch switch, which is part of the ignition circuit cut-off system. (See page 3-19). 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. 3-10 INSTRUMENT AND CONTROL FUNCTIONS EAU26822 EAU12941 EAU13070 Brake lever Brake pedal Fuel tank cap 1 2 3 4 1.

Brake lever 2. Position adjusting dial 3. Arrow mark 4. Distance 1. Brake pedal 1. Lock cover 2. Open 5 6 7 8 9 10 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 position adjusting dial. To adjust the distance between the brake lever and the handlebar grip, turn the adjusting dial while holding the lever pushed away from the handlebar grip.

Make sure that the appropriate setting on the adjusting dial is aligned with the "" mark on the brake lever. The brake pedal is on the right side of the motorcycle. To apply the rear brake, press down on the brake pedal. 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. 3-11 INSTRUMENT AND CONTROL FUNCTIONS 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. NOTE: 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. EWA11090 EAU13210 ECA10070 Fuel CAUTION: Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts. EAU13390 1 2 3 4 5 6 7 8 9 10 Recommended fuel: PREMIUM UNLEADED GASOLINE ONLY 1. Fuel tank filler tube 2. Fuel level Fuel tank capacity: 15. 0 L (3.96 US gal) (3.29 Imp.gal) Fuel reserve amount (when the fuel level warning light comes on): 4.25 L (1. 12 US gal) (0.93 Imp.gal) WARNING 0 Make sure that the fuel tank cap is properly closed before riding. Make sure that there is sufficient fuel in the tank. Fill the fuel tank to the bottom of the filler tube as shown. EWA10880 WARNING 0 Do not overfill the fuel tank, otherwise it may overflow when the fuel warms up and expands. Avoid spilling fuel on the hot engine. 3-12 INSTRUMENT AND CONTROL FUNCTIONS ECA11400 EAUB1300 EAU13431 CAUTION: 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. Fuel tank breather/overflow hose Catalytic converter This model is equipped with a catalytic converter in the exhaust system.

EWA10860 1 2 3 4 5 6 7 8 9 10 WARNING 0 The exhaust system is hot after operation. Make sure that the exhaust system has cooled down before doing any maintenance work. Your Yamaha engine has been designed to use premium unleaded gasoline with a research octane number of 95 or higher. If knocking (or pinging) occurs, use a gasoline of a different brand. Use of unleaded fuel will extend spark plug life and reduce maintenance costs. 1. Fuel tank breather/overflow hose 2. Clamp 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 inside of the clamp. 3-13 INSTRUMENT AND CONTROL FUNCTIONS ECA10700 EAUB1311 CAUTION: 1 2 3 4 5 6 7 8 9 10 G G Seats Passenger seat To install the passenger seat The following precautions must be observed to prevent a fire hazard or other damages. G Use only unleaded gasoline. The use of leaded gasoline will cause unrepairable damage to the catalytic converter. Never park the vehicle near possible fire hazards such as grass or other materials that easily burn.

Do not allow the engine to idle too long. 1. Projection 2. Seat holder 1. Open To remove the passenger seat 1. Insert the key into the seat lock, and then turn it counterclockwise. 2. Pull the passenger seat off. 1. Insert the projection on the front of the passenger seat into the seat holder as shown, and then push the back of the seat down to lock it in place. 2. Remove the key. 3-14 INSTRUMENT AND CONTROL FUNCTIONS Rider seat To install the rider seat 1 2 3 1. Yamaha U-LOCK (optional) 2. Fastening strap 3.

Owner's tool kit 4 1. Rider seat mounting bolts 1. Projection 2. Seat holder The passenger seat is designed to fasten a genuine Yamaha U-LOCK to the bottom of the seat. (Other locks may not fit.) When fastening a ULOCK to the seat, securely fasten it with the straps. When the U-LOCK is not fastened to the seat, be sure to secure the straps to prevent losing them. To remove the rider seat 1. Remove the passenger seat. 2. Remove the bolts, and then pull the rider seat off. 5 1. Insert the projection on the front of the rider seat into the seat holder as shown, place the seat in the original position, and then tighten the bolts. 2. Install the passenger seat.

NOTE: Make sure that the seats are properly secured before riding. 6 7 8 9 10 3-15 INSTRUMENT AND CONTROL FUNCTIONS EAUB1330 Adjusting the shock absorber assembly 1 2 3 4 5 6 7 8 9 10 1. Spring preload adjusting nut 2. Locknut (a) Increasing the spring preload (b) Decreasing the spring preload A. Distance (spring preload) This shock absorber assembly is equipped with a spring preload adjusting nut.

ECA10100 Adjust the spring preload as follows. 1. Loosen the locknut. 2. To increase the spring preload and thereby harden the suspension, turn the adjusting nut in direction (a).



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To decrease the spring preload and thereby soften the suspension, turn the adjusting nut in direction (b). NOTE: G Use the special wrench included in the owner's tool kit to make the adjustment. 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. With each complete turn of the adjusting nut, distance A changes by 1.

5 mm (0.059 in). G When measuring distance A, the rear wheel must be raised off the ground. (See page 6-36). WARNING 0 Never attempt to turn an adjusting mechanism beyond the maximum or minimum settings. 3-16 INSTRUMENT AND CONTROL FUNCTIONS Spring preload: Minimum (soft): Distance A = 174.5 mm (6.87 in) Standard: Distance A = 170 mm (6.69 in) Maximum (hard): Distance A = 165.5 mm (6.49 in) Spring preload SOFT Distance A 174.5 mm (6.87 in) 1 2 3 170 mm (6.69 in) 4 5 165.5 mm (6.

49 in) 6 7 8 9 10 For light operators and primarily use without passenger STANDARD HARD For use with heavy operator and passenger and accessories (trunk, bags, etc.) 3-17 INSTRUMENT AND CONTROL FUNCTIONS 3. Tighten the locknut to the specified torque. 1 2 3 CAUTION: 4 5 6 7 8 9 10 Always tighten the locknut against the adjusting nut, and then tighten the locknut to the specified torque. Tightening torque: Locknut: 45 Nm (4.

5 m·kgf, 32.5 ft·lbf) EWA10220 EAU15301 WARNING 0 This shock absorber contains highly pressurized nitrogen gas. For proper handling, 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. G Do not tamper with or attempt to open the gas cylinder. G Do not subject the shock absorber to an open flame or other high heat sources, otherwise it may explode due to excessive gas pressure. G Do not deform or damage the gas cylinder in any way, as this will result in poor damping performance. G Always have a Yamaha dealer service the shock absorber. Sidestand ECA11240 1. Sidestand The sidestand is located on the left side of the frame.

Raise the sidestand or lower it with your foot while holding the motorcycle upright. NOTE: The built-in sidestand switch is part of the ignition circuit cut-off system, which cuts the ignition in certain situations. (See further down for an explanation of the ignition circuit cut-off system.) 3-18 INSTRUMENT AND CONTROL FUNCTIONS EWA10240 EAU15311 EWA10250 WARNING 0 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 below and have a Yamaha dealer repair it if it does not function properly. Ignition circuit cut-off system The ignition circuit cut-off system (comprising the sidestand switch, clutch switch and neutral switch) has the following functions. 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. WARNING 0 If a malfunction is noted, have a Yamaha dealer check the system before riding. 1 2 3 4 5 6 7 8 9 10 3-19 INSTRUMENT AND CONTROL FUNCTIONS With the engine turned off: 1. Move the sidestand down. 2.

Make sure that the engine stop switch is turned on. 3. Turn the key on. 4. Shift the transmission into the neutral position.

5. Push the start switch. Does the engine start? YES NO NOTE: This check is most reliable if performed with a warmed-up engine. 1 2 3 4 5 6 7 8 9 10 The neutral switch may be defective. The motorcycle should not be ridden until checked by a Yamaha dealer. With the engine still running: 6. Move the sidestand up. 7. Keep the clutch lever pulled. 8.

Shift the transmission into gear. 9. Move the sidestand down. Does the engine stall? YES NO The sidestand switch may be defective. The motorcycle should not be ridden until checked by a Yamaha dealer. After the engine has stalled: 10. Move the sidestand up. 11. Keep the clutch lever pulled. 12.

Push the start switch. Does the engine start? YES NO The clutch switch may be defective. The motorcycle should not be ridden until checked by a Yamaha dealer. The system is OK. The motorcycle can be ridden.

3-20 PRE-OPERATION CHECKS EAU15591 The condition of a vehicle is the owner's responsibility. Vital components can start to deteriorate quickly and unexpectedly, even if the vehicle remains unused (for example, as a result of exposure to the elements). Any damage, fluid leakage or loss of tire air pressure could have serious consequences. Therefore, it is very important, in addition to a thorough visual inspection, to check the following points before each ride.

NOTE: Pre-operation checks should be made each time the vehicle 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. EWA11150 1 2 3 4 5 6 7 8 9 10 WARNING 0 If any item in the Pre-operation check list is not working properly, have it inspected and repaired before operating the vehicle. 4-1 PRE-OPERATION CHECKS EAU15603 Pre-operation check list 1 2 3 4 Coolant Fuel ITEM · 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 coolant level in reservoir. · If necessary, add recommended coolant to specified level.

· Check cooling 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. 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.

CHECKS PAGE 3-12 Engine oil 6-8 6-12 5 6 Front brake 3-11, 6-20, 6-21, 6-26 7 8 9 Rear brake 3-11, 6-20, 6-21, 6-26 10 4-2 PRE-OPERATION CHECKS ITEM Check operation.



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Lubricate cable if necessary. Check lever free play. Adjust if necessary. CHECKS PAGE Clutch 3-10, 6-19, 6-26 1 2 Throttle grip · 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. Check chain slack. Adjust if necessary. Check chain condition. Lubricate if necessary. Check for damage. Check tire condition and tread depth.

Check air pressure. Correct if necessary. 6-15, 6-25 3 6-25 Control cables 4 5 6 Drive chain 6-23, 6-24 Wheels and tires 6-16, 6-19 7 8 9 10 Brake pedal Brake and clutch levers Sidestand Chassis fasteners · Make sure that operation is smooth. · Lubricate pedal pivoting point 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. 6-26 6-26 6-27 4-3 PRE-OPERATION CHECKS ITEM Instruments, lights, signals and switches Sidestand switch · Check operation.

· Correct if necessary. · Check operation of ignition circuit cut-off system. · If system is defective, have Yamaha dealer check vehicle. CHECKS PAGE 3-3, 3-9 3-20 1 2 3 4 5 6 7 8 9 10 4-4 OPERATION AND IMPORTANT RIDING POINTS EAU15950 EAUB1340 ECAB0040 EWA10270 Starting the engine In order for the ignition circuit cut-off system to enable starting, one of the following conditions must be met: G The transmission is in the neutral position. G The transmission is in gear with the clutch lever pulled and the sidestand up.

EWA10290 CAUTION: The following warning lights and indicator lights should come on for a few seconds, then go off. G Neutral indicator light G Turn signal indicator light G High beam indicator light G Engine trouble warning light G Coolant temperature warning light G Fuel level warning light G Immobilizer system indicator light If a warning or indicator light does not go off, see page 3-3 for the corresponding warning and indicator light circuit check. 2. Shift the transmission into the neutral position. 1 2 3 4 5 6 7 8 9 10 WARNING 0 G G G Become thoroughly familiar with all operating controls and their functions before riding.

Consult a Yamaha dealer regarding any control or function that you do not thoroughly understand. Never start the engine or operate it in a closed area for any length of time. Exhaust fumes are poisonous, and inhaling them can cause loss of consciousness and death within a short time. Always make sure that there is adequate ventilation. Before starting out, make sure that the sidestand is up. If the sidestand is not raised completely, it could contact the ground and distract the operator, resulting in a possible loss of control. WARNING 0 G G Before starting the engine, check the function of the ignition circuit cut-off system according to the procedure described on page 3-20. Never ride with the sidestand down. 1. Turn the key to "ON" and make sure that the engine stop switch is set to "I".

5-1 OPERATION AND IMPORTANT RIDING POINTS NOTE: When the transmission is in the neutral position, the neutral indicator light should be on, otherwise have a Yamaha dealer check the electrical circuit. 3. Start the engine by pushing the start switch. NOTE: If the engine fails to start, release the start switch, wait a few seconds, and then try again. Each starting attempt should be as short as possible to preserve the battery. Do not crank the engine more than 10 seconds on any one attempt. ECA11040 EAU16671 CAUTION: For maximum engine life, never accelerate hard when the engine is cold! NOTE: The engine is warm when it quickly responds to the throttle. Shifting 1 2 3 4 5 6 7 8 9 10 1. Shift pedal N.Neutral position Shifting gears lets you control the amount of engine power available for starting off, accelerating, climbing hills, etc.

The gear positions are shown in the illustration. NOTE: To shift the transmission into the neutral position, press the shift pedal down repeatedly until it reaches the end of its travel, and then slightly raise it. 5-2 OPERATION AND IMPORTANT RIDING POINTS ECA10260 EAU16810 EAU16841 CAUTION: G G Even with the transmission in the neutral position, do not coast for long periods of time with the engine off, and do not tow the motorcycle for long distances. The transmission is properly lubricated only when the engine is running. Inadequate lubrication may damage the transmission.

Always use the clutch while changing gears to avoid damaging the engine, transmission, and drive train, which are not designed to withstand the shock of forced shifting. Tips for reducing fuel consumption Fuel consumption depends largely on your riding style. Consider the following tips to reduce fuel consumption: G Shift up swiftly, and avoid high engine speeds during acceleration. G Do not rev the engine while shifting down, and avoid high engine speeds with no load on the engine. G Turn the engine off instead of letting it idle for an extended length of time (e.

g., in traffic jams, at traffic lights or at railroad crossings). Engine break-in There is never a more important period in the life of your engine than the period between 0 and 1600 km (1000 mi). For this reason, you should read the following material carefully. Since the engine is brand new, do not put an excessive load on it for the first 1600 km (1000 mi). The various parts in the engine wear and polish themselves to the correct operating clearances. During this period, prolonged full-throttle operation or any condition that might result in engine overheating must be avoided. 1 2 3 4 5 6 7 8 9 10 5-3 OPERATION AND IMPORTANT RIDING POINTS EAU17100 ECA10310 EAU17212 1 2 3 0-1000 km (0-600 mi) Avoid prolonged operation above 4500 r/min. 1000-1600 km (600-1000 mi) Avoid prolonged operation above 6000 r/min. ECA11150 CAUTION: G G Parking When parking, stop the engine, and then remove the key from the main switch.

EWA10310 CAUTION: 4 5 6 7 8 9 10 After 1000 km (600 mi) of operation, the engine oil must be changed, and the oil filter element replaced. 1600 km (1000 mi) and beyond The vehicle can now be operated normally. Keep the engine speed out of the tachometer red zone. If any engine trouble should occur during the engine break-in period, immediately have a Yamaha dealer check the vehicle. WARNING 0 G G Since the engine and exhaust system can become very hot, park in a place where pedestrians or children are not likely to touch them. Do not park on a slope or on soft ground, otherwise the vehicle may overturn. ECA10380 CAUTION: Never park in an area where there are fire hazards such as grass or other flammable materials.



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5-4 PERIODIC MAINTENANCE AND MINOR REPAIR EAU17240 EAUB1400 Safety is an obligation of the owner. Periodic inspection, adjustment and lubrication will keep your vehicle in the safest and most efficient condition possible. The most important points of inspection, adjustment, and lubrication are explained on the following pages.

The intervals given in the periodic maintenance and lubrication chart should be simply considered as a general guide under normal riding conditions. However, **DEPENDING ON THE WEATHER, TERRAIN, GEOGRAPHICAL LOCATION, AND INDIVIDUAL USE, THE MAINTENANCE INTERVALS MAY NEED TO BE SHORTENED.** EWA10320 Owner's tool kit NOTE: If you do not have the tools or experience required for a particular job, have a Yamaha dealer perform it for you. EWA10350 1 2 3 4 5 6 7 8 9 10 WARNING 0 Modifications not approved by Yamaha may cause loss of performance and render the vehicle unsafe for use. Consult a Yamaha dealer before attempting any changes.

1. Owner's tool kit 2. Fastening strap WARNING 0 If you are not familiar with motorcycle maintenance work, have a Yamaha dealer do it for you. The owner's tool kit is located on the bottom of the passenger seat (See page 3-14) and it held in place with an O-ring. 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. 6-1 PERIODIC MAINTENANCE AND MINOR REPAIR EAU17705 Periodic maintenance and lubrication chart 1 2 3 4 5 6 7 8 9 10 6 NOTE: G The annual checks must be performed every year, except if a kilometer-based maintenance is performed instead. G From 50000 km, repeat the maintenance intervals starting from 10000 km. G Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills. NO. 1 2 ITEM Fuel line Spark plug CHECK OR MAINTENANCE JOB · Check fuel hoses for cracks or damage. · Check condition. · Clean and regap. · Replace. ODOMETER READING (x 1,000 km) 1 10 20 30 40 ANNUAL CHECK 3 4 5 Valves Air filter element Clutch · Check valve clearance.

· Adjust. · Replace. · Check operation. · Adjust. · Check operation, fluid level and vehicle for fluid leakage. · Replace brake pads. Front brake Whenever worn to the limit 7 Rear brake · Check operation, fluid level and vehicle for fluid leakage. · Replace brake pads. 6-2 Whenever worn to the limit PERIODIC MAINTENANCE AND MINOR REPAIR NO. 8 9 10 ITEM Brake hoses Wheels Tires CHECK OR MAINTENANCE JOB · 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. ODOMETER READING (x 1,000 km) 1 10 20 30 40 ANNUAL CHECK Every 4 years 1 2 3 4 5 6 11 Wheel bearings Swingarm 12 · Lubricate with lithium-soap-based grease. · Check chain slack, alignment and condition.

· Adjust and lubricate chain with a special O-ring chain lubricant thoroughly. @@@@ · Check operation. · Lubricate. @@@@ · Check operation and shock absorber for oil leakage. · Check operation. · Lubricate with lithium-soap-based grease. · Adjust engine idling speed. · Change. · Check oil level and vehicle for oil leakage. · Replace.

· Check coolant level and vehicle for coolant leakage. @@ · Lubricate. · Check operation and free play. · Adjust the throttle cable free play if necessary. @@@@ · Check fuel hoses for cracks or damage. · Check the screw clamp for looseness. · Check operation. · Adjust headlight beam. @@@@ @@@@ Refer to this section each time a panel needs to be removed and installed. Panels A and B Checking the spark plug The spark plug is an important engine component, which is easy to check.

Since heat and deposits will cause any spark plug to slowly erode, the spark plug should be removed and checked in accordance with the periodic maintenance and lubrication chart. @@ To remove the spark plug 1. Panel mounting bolts A. Right panel B. Left panel To remove a panel 1. Remove the bolts. 2. @@ To install a panel 1. @@ 2. Install the bolts.

1. Spark plug cap 2. Spark plug wrench 1. @@@@ To check the spark plug 1. @@@@ Do not attempt to diagnose such problems yourself. Instead, have a Yamaha dealer check the vehicle. 2. @@@@ @@@@ 3. @@@@ 4. Install the spark plug cap.

1. @@@@ @@@@ A slight tilt to the side can result in a false reading. 2. @@ 3. @@ Engine oil filler cap 2. Maximum level mark 3. @@@@ @@@@ 4. If the engine oil is below the minimum level mark, add sufficient oil of the recommended type to raise it to the correct level. 5. Install the oil filler cap.

To change the engine oil (with or without oil filter element replacement) 1. Start the engine, warm it up for several minutes, and then turn it off. 2. Place the motorcycle on its side stand, then place an oil pan under the oil tank and another under the engine to collect the used oil. 3.

Remove the engine oil filler cap and the drain bolt to drain the oil from the crankcase. 4. Remove the drain bolt to drain the oil from the oil tank. 1 2 3 1. Engine oil crankcase drain bolt 2.

Engine oil tank drain bolt 4 5 6 7 8 9 10 5. Remove the oil filter element drain bolt to drain the oil from the oil filter element. 6-9 PERIODIC MAINTENANCE AND MINOR REPAIR Tightening torques: Engine oil drain bolt (crankcase): 30 Nm (3.0 m·kgf, 22 ft·lbf) Engine oil drain bolt (oil tank): 30 Nm (3.0 m·kgf, 22 ft·lbf) 1 2 3 4 5 6 7 8 9 10 1. Engine oil filter element drain bolt 2. Oil filter element cover bolts 1. Engine oil filter element 2. O-rings 10. Add the specified amount of the recommended engine oil, and then install and tighten the oil filler cap.

NOTE: Skip steps 6-8 if the oil filter element is not being replaced. 6. Remove the oil filter element cover by removing the bolts. 7. Remove and replace the oil filter element and O-rings. 8. Install the oil filter element cover by installing the bolts and the oil filter element drain bolt, then tightening them to the specified torques. Tightening torques: Oil filter element cover bolt: 10 Nm (1.0 m·kgf, 7.2 ft·lbf) Oil filter element drain bolt: 10 Nm (1.

0 m·kgf, 7.2 ft·lbf) NOTE: Make sure that the O-rings are properly seated. 9. Install the oil drain bolts, and then tighten them to the specified torques.



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6-10 PERIODIC MAINTENANCE AND MINOR REPAIR ECAB0030 ECA11620 CAUTION: The engine oil tank must be filled in 2 steps.

First, fill the engine oil tank with 2.0 L (2.11 US qt) (1.75 Imp.qt) of the recommended engine oil.

Then, start the engine, race it 5 or 6 times, turn it off, and then add the remainder of the engine oil. CAUTION: 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. G Make sure that no foreign material enters the crankcase. 11. 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. 12.

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

1 2 3 4 5 6 7 8 9 10 Recommended engine oil: See page 8-1. Oil quantity: Without oil filter element replacement: 3.0 L (3.17 US qt) (2.64 Imp.qt) With oil filter element replacement: 3.1 L (3.28 US qt) (2.72 Imp.qt) 6-11 PERIODIC MAINTENANCE AND MINOR REPAIR EAU20070 Coolant 1 2 3 4 5 6 7 8 9 10

The coolant level should be checked before each ride.

In addition, the coolant must be changed at the intervals specified in the periodic maintenance and lubrication chart. EAU20090 NOTE: The coolant should be between the minimum and maximum level marks. ECA10470 CAUTION: G If coolant is not available, use distilled water or soft tap water instead. Do not use hard water or salt water since it is harmful to the engine. @@@@A slight tilt to the side can result in a false reading.

2. Check the coolant level in the coolant reservoir. 1. Coolant reservoir 2. Maximum level mark 3.

Minimum level mark 4. Reservoir cap 3. @@@@Air filter case 2. @@@@Remove the air filter case cover by removing the screws. 2. Pull the air filter element out. 3. Insert a new air filter element into the air filter case as shown. @@@@Have a Yamaha dealer change the coolant. 6-13 PERIODIC MAINTENANCE AND MINOR REPAIR To clean the air filter check hoses EAU34300 Adjusting the engine idling speed 1 2 3 4 5 6 7 8 9 10 1.

Air filter element ECA10480 1. Air filter check hose (case cover) CAUTION: G Make sure that the air filter element is properly seated in the air filter case. G The engine should never be operated without the air filter element installed, otherwise the piston(s) and/or cylinder(s) may become excessively worn. 4. Install the air filter case cover by installing the screws. 1. Check the hoses shown for accumulated dirt, water or oil. 2. If dirt, water or oil is visible, remove the hose, clean it, and then install it in its original position. 1.

Idle adjusting screw The engine idling speed must be checked and, if necessary, adjusted as follows at the intervals specified in the periodic maintenance and lubrication chart. The engine should be warm before making this adjustment. NOTE: The engine is warm when it quickly responds to the throttle. 6-14 PERIODIC MAINTENANCE AND MINOR REPAIR Check the engine idling speed and, if necessary, adjust it to specification by turning the idle adjusting screw. To increase the engine idling speed, turn the screw in direction (a).

To decrease the engine idling speed, turn the screw in direction (b). Engine idling speed: 1300-1500 r/min 1400-1600 r/min (EU3 version) EAU21381 EAU21401 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 2 3 4 5 NOTE: If the specified idling speed cannot be obtained as described above, have a Yamaha dealer make the adjustment. 1.

Throttle cable free play 6 The throttle cable free play should measure 3.0-5.0 mm (0.12-0.20 in) at the throttle grip. Periodically check the throttle cable free play and, if necessary, have a Yamaha dealer adjust it. 7 8 9 10 6-15 PERIODIC MAINTENANCE AND MINOR REPAIR EAU21660 EWA11020 Tires 1 2 3 4 5 G 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. EWA10500 WARNING 0 The tire air pressure must be checked and adjusted on cold tires (i.e.

, when the temperature of the tires equals the ambient temperature). The tire air pressure must be adjusted in accordance with the riding speed and with the total weight of rider, passenger, cargo, and accessories approved for this model. 6 7 8 9 10 G Tire air pressure (measured on cold tires): Up to 90 kg (198 lb): Front: 210 kPa (30 psi) (2.1 kgf/cm²) Rear: 230 kPa (33 psi) (2.3 kgf/cm²) 90 kg (198 lb) to maximum load: Front: 230 kPa (33 psi) (2.3 kgf/cm²) Rear: 250 kPa (36 psi) (2.5 kgf/cm²) High-speed riding: Front: 210 kPa (30 psi) (2.1 kgf/cm²) Rear: 230 kPa (33 psi) (2.3 kgf/cm²) Maximum load*: 186 kg (410 lb) * Total weight of rider, passenger, cargo and accessories WARNING 0 Because loading has an enormous impact on the handling, braking, performance and safety characteristics of your motorcycle, you should keep the following precautions in mind. G NEVER OVERLOAD THE MOTORCYCLE! Operation of an overloaded motorcycle may result in tire damage, loss of control, or severe injury.

Make sure that the total weight of rider, passenger, cargo, and accessories does not exceed the specified maximum load for the vehicle. G Do not carry along loosely packed items, which can shift during a ride. G Securely pack the heaviest items close to the center of the motorcycle and distribute the weight evenly on both sides. 6-16 PERIODIC MAINTENANCE AND MINOR REPAIR G G Adjust the suspension and tire air pressure with regard to the load. Check the tire condition and air pressure before each ride.

Tire inspection NOTE: The tire tread depth limits may differ from country to country. Always comply with the local regulations. EWA10470 1 2 3 4 5 6 7 8 WARNING 0 G 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) 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.



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9 10 6-17 PERIODIC MAINTENANCE AND MINOR REPAIR Tire information G EWA10900 WARNING 0 The front and rear tires should be of the same make and design, otherwise the handling characteristics of the motorcycle cannot be guaranteed. After extensive tests, only the tires listed below have been approved for this model by Yamaha Motor Italia S.P.A.

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 ride. 1 2 3 4 5 6 7 8 9 10 1. Tire air valve 2. Valve core 3. Valve cap G G This motorcycle is equipped with cast wheels and tubeless tires with valves. G Front tire: Size: 120/70-ZR17 M/C (58W) 120/70-R17 M/C (58H) Manufacturer/model: DUNLOP D270F PIRELLI SCORPION SYNC Tire air valve: TR412 Valve core: #9000A (standard) Rear tire: Size: 160/60-ZR17 M/C (69W) 160/60-R17 M/C (69H) Manufacturer/model: DUNLOP D270 PIRELLI SCORPION SYNC Tire air valve: TR412 Valve core: #9000A (standard) 6-18 PERIODIC MAINTENANCE AND MINOR REPAIR EWA10600 EAU21960 EAU22041 WARNING 0 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-speed riding to ride conservatively for approximately 100 km (60 mi) after installing a new tire. G The tires must be warmed up before a high-speed run. G Always adjust the tire air pressure according to the operating conditions. Cast wheels To maximize the performance, durability, and safe operation of your motorcycle, 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. Adjusting the clutch lever free play 1 2 3 4 5 1. Locknut 2. Adjusting bolt 3. Clutch lever free play 6 7 8 9 10 The clutch lever free play should measure 10.0-15.0 mm (0.39-0.59 in) as shown.

Periodically check the clutch lever free play and, if necessary, adjust it as follows. 1. Loosen the locknut at the clutch lever. 2. To increase the clutch lever free play, turn the adjusting bolt in direction (a). To decrease the clutch lever free play, turn the adjusting bolt in direction (b). 6-19 PERIODIC MAINTENANCE AND MINOR REPAIR NOTE: If the specified clutch lever free play could be obtained as described above, tighten the locknut and skip the rest of the procedure, otherwise proceed as follows. 3. Fully turn the adjusting bolt at the clutch lever in direction (a) to loosen the clutch cable. 4.

Loosen the locknut at the crankcase. EAU22390 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. 1 2 3 4 5 6 7 8 9 10 1. Locknut 2. Clutch lever free play adjusting nut (crankcase) 5. To increase the clutch lever free play, turn the adjusting nut in direction (a). To decrease the clutch lever free play, turn the adjusting nut in direction (b). 6. Tighten the locknut at the clutch lever and the crankcase. 6-20 PERIODIC MAINTENANCE AND MINOR REPAIR EAU22420 EAU22500 EAU22580 Front brake pads Rear brake pads Checking the brake fluid level Front brake 1 2 3 4 1.

Front brake pad wear indicator groove 1. Rear brake pad lining thickness 5 Each front brake pad is provided with a wear indicator groove, which allows you to check the brake pad wear without having to disassemble the brake. To check the brake pad wear, check the wear indicator groove. If a brake pad has worn to the point that the wear indicator groove has almost disappeared, have a Yamaha dealer replace the brake pads as a set. Check each rear brake pad for damage and measure the lining thickness. If a brake pad is damaged or if the lining thickness is less than 1.0 mm (0.04 in), have a Yamaha dealer replace the brake pads as a set. 1. Minimum level mark 6 7 8 9 10 Rear brake 1.

Minimum level mark 6-21 PERIODIC MAINTENANCE AND MINOR REPAIR Insufficient brake fluid may allow air to enter the brake system, possibly causing it to become ineffective. Before riding, check that the brake fluid is above the minimum level mark and replenish if necessary. A low brake fluid level may indicate worn brake pads and/or brake system leakage. If the brake fluid level is low, be sure to check the brake pads for wear and the brake system for leakage. Observe these precautions: G When checking the fluid level, make sure that the top of the brake fluid reservoir is level. G Use only the recommended quality brake fluid, otherwise the rubber seals may deteriorate, causing leakage and poor braking performance. Recommended brake fluid: DOT 4 G 1 2 3 4 5 6 7 8 9 10 G G G Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor braking performance. Be careful that water does not enter the brake fluid reservoir when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock.

Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fluid immediately. As the brake pads wear, it is normal for the brake fluid level to gradually go down. However, if the brake fluid level goes down suddenly, have a Yamaha dealer check the cause. EAU22730 Changing the brake fluid Have a Yamaha dealer change the brake fluid at the intervals specified in the NOTE after the periodic maintenance and lubrication chart.

In addition, have the oil seals of the master cylinders and calipers as well as the brake hoses replaced at the intervals listed below or whenever they are damaged or leaking. G Oil seals: Replace every two years. G Brake hoses: Replace every four years. 6-22 PERIODIC MAINTENANCE AND MINOR REPAIR EAU22760 Drive chain slack The drive chain slack should be checked before each ride and adjusted if necessary. EAU22771 To check the drive chain slack 2.

Shift the transmission into the neutral position. 3. Move the rear wheel by pushing the motorcycle to locate the tightest portion of the drive chain, and then measure the drive chain slack as shown. Drive chain slack: 40.0-50.0 mm (1.57-1.97 in) EAU34311 To adjust the drive chain slack 1.



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