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You can read the recommendations in the user guide, the technical guide or the installation guide for YAMAHA X-MAX 125. You'll find the answers to all your questions on the YAMAHA X-MAX 125 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual YAMAHA X-MAX 125
User guide YAMAHA X-MAX 125
Operating instructions YAMAHA X-MAX 125
Instructions for use YAMAHA X-MAX 125
Instruction manual YAMAHA X-MAX 125



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Manual abstract:

If you have any further questions, do not hesitate to contact your Yamaha dealer. The Yamaha team wishes you many safe and pleasant rides. So, remember to put safety first! **IMPORTANT MANUAL INFORMATION EAU34110** Particularly important information is distinguished in this manual by the following notations: **t** The Safety Alert Symbol means **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!** Failure to follow **WARNING** instructions could result in severe injury or death to the scooter operator, a bystander, or a person inspecting or repairing the scooter. @@@@ If you have any questions concerning this manual, please consult your Yamaha dealer. EWA12410 s **WARNING PLEASE READ THIS MANUAL CAREFULLY AND COMPLETELY BEFORE OPERATING THIS SCOOTER. IMPORTANT MANUAL INFORMATION EAUS1171 YP125R OWNER'S MANUAL ©2006 by YAMAHA MOTOR ESPAÑA S.A. 1st edition, October 2006 All rights reserved. Any reprinting or unauthorized use without the written permission of YAMAHA MOTOR ESPAÑA S.A.**

is expressly prohibited. Printed in Spain. **TABLE OF CONTENTS SAFETY INFORMATION ...**

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Always wear protective clothing that covers your legs, ankles, and feet. Passengers should also observe the above precautions. Modifications made to this scooter not approved by Yamaha, or the removal of original equipment, may render the scooter unsafe for use and may cause severe personal injury.

Modifications may also make your scooter illegal to use. Loading and accessories Adding accessories or cargo to your scooter can adversely affect stability and handling if the weight distribution of the scooter is changed. To avoid the possibility of an accident, use extreme caution when adding cargo or accessories to your scooter. Use extra care when riding a scooter that has added cargo or accessories. Here are some general guidelines to follow if loading cargo or adding accessories to your scooter: 1 1-2 t SAFETY INFORMATION Accessories Genuine Yamaha accessories have been specifically designed for use on this scooter. Since Yamaha cannot test all other accessories that may be available, you must personally be responsible for the proper selection, installation and use of non-Yamaha accessories. Use extreme caution when selecting and installing any accessories. Keep the following guidelines in mind, as well as those provided under "Loading" when mounting accessories. G Never install accessories or carry cargo that would impair the performance of your scooter. Carefully inspect the accessory before using it to make sure that it does not in any way reduce ground clearance or cornering clearance, limit suspension travel, steering travel or control operation, or obscure lights or reflectors.

· Accessories fitted to the handlebar or the front fork area can create instability due to improper weight distribution or 1-3 1 Loading The total weight of the operator, passenger, accessories and cargo must not exceed the maximum load limit of 189 Kg - 416.75 lb. When loading within this weight limit, keep the following in mind: G Cargo and accessory weight should be kept as low and close to the scooter as possible. Make sure to distribute the weight as evenly as possible on both sides of the scooter to minimize imbalance or instability. G Shifting weights can create a sudden imbalance. Make sure that accessories and cargo are securely attached to the scooter before riding. Check accessory mounts and cargo restraints frequently. G Never attach any large or heavy items to the handlebar, front fork, or front fender. Such items can create unstable hN EAU10430 Controls and instruments 2 2 3 4 5 1 6 9 1. 2.

3. 4. 5. Rear brake lever (page 3-9) Left handlebar switches (page 3-8) Speedometer (page 3-4) Multi-function display (page 3-5) Right handlebar switch (page 3-8) 6. 7.

8. 9. 8 7 Front brake lever (page 3-9) Throttle grip (page 5-2) Main switch/Steering lock (page 3-2) Front storage compartement (page 3-12) 2-3 INSTRUMENT AND CONTROL FUNCTIONS EAU10972 Immobilizer system 1. Master key 2. Keys an immobilizer system indicator light (See page 3-3.) The key with the red bow is used to register codes in light "c" Immobilizer system indicator light Right turning signal light "d" Engine trouble warning light " Coolant temperature gauge " " Fuel level warning light " " This warning light comes on when the fuel level drops below approximately 2 L (0.44 US gal) (1.76 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". If the warning light does not come on for a few seconds, then go off, have a Yamaha dealer check the electrical circuit. EAU11480 EAU11030 Turn signal indicator lights "c" and "d" The corresponding indicator light flashes when the turn signal switch is pushed to the left or right. Engine trouble warning light " " This warning light comes on when an electrical circuit monitoring the engine is defective. When this occurs, have a Yamaha dealer check the self-diagnosis system.

The electrical circuit of the warning light can be checked by turning the 3-3 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. When the key is turned to "OFF", 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. 3 INSTRUMENT AND CONTROL FUNCTIONS EAU11590 EAU12110 EAU12171 Speedometer 1 Fuel gauge 1 2 Coolant temperature gauge 1 jc 3 jc d y d x x 2 1. Speedometer 1. Fuel gauge 2. Fuel level warning light "x" 1. Red zone 2. Temperature gauge The speedometer shows the riding speed.

The fuel gauge indicates the amount of fuel in the fuel tank. The needle moves towards "E" (Empty) as the fuel level decreases. When the needle reaches "E", approximately 2.0L (0.44 USgal) (1.

76Impgal) of fuel remain in the fuel tank. If this occurs, refuel as soon as possible. NOTE: Do not allow the fuel tank to empty itself completely. With the key in the "ON" position, the coolant temperature gauge indicates the temperature of the coolant. The coolant temperature varies with changes in the weather and engine load.

If the needle reaches or enters the red zone, stop the vehicle and let the engine cool. (See page 6-29.) ECA10020 CAUTION: Do not operate the engine if it is overheated. 3-4 INSTRUMENT AND CONTROL FUNCTIONS EAUM2050 Multi-function display jc d G G an ambient temperature display an oil change indicator (which comes on when the engine oil should be changed) x 1 2 3 1. "MODE" button 2. Multi-function display 3. "SET" button NOTE: G For the UK, the distance traveled is displayed in miles and the temperature reading is displayed in °F. G For other countries, the distance traveled is displayed in kilometers and the temperature reading is displayed in °C. Odometer and tripmeter modes Pushing the "MODE" button switches the display between the odometer mode "Total" and the tripmeter modes "Trip" in the following order: Total Trip 1 Trip 2 Trip/fuel Total 3 The multi-function display is equipped with the following: G an odometer (which shows the total distance traveled) G two tripmeters (which show the distance traveled since they were last set to zero, the time passed since the tripmeters were set to zero, and the average speed traveled during this time) G a fuel reserve tripmeter (which shows the distance traveled since the fuel level warning light came on) G a clock 1. Distance 2.

Time 3. Average speed 1. 2. 3. 4. Total Trip 1 Trip 2 Trip/Fuel NOTE: G The Trip/fuel odometer is only activated if the fuel level warning light comes on.



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G The Trip 2 odometer is automatically reset after turning the key to "OFF" and two hours have passed. 3-5 INSTRUMENT AND CONTROL FUNCTIONS Pushing the "SET" button when in the tripmeter mode switches the display between the different tripmeter functions in the following order: Trip 1 or Trip 2 Time 1 or 2 Average speed 1 or 2 Trip 1 or Trip 2 3 To reset a tripmeter, select it by pushing the "MODE" button, and then push the "SET" 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). Clock mode To set the clock: 1.

When the display is in the "Total" mode, push the "SET" button for at least two seconds. If the fuel level warning light comes on (See page 3-3.), the display will automatically change to the fuel reserve tripmeter mode "Trip/fuel" and start counting the distance traveled from that point. In that case, pushing the "MODE" button switches the display between the various tripmeter and odometer modes in the following order: Trip/Fuel Trip 1 Trip 2 Total Trip/fuel 3.

Push the "MODE" button, and the minute digits will start flashing.

4. Push the "SET" button to set the minutes. 5. Push the "MODE" button and then release it to start the clock. The display will return to the "Total" mode. 2. When the hour digits start flashing, push the "SET" button to set the hours. 3-6 INSTRUMENT AND CONTROL FUNCTIONS Ambient temperature display Oil change indicator "OIL" The engine oil should be changed when this indicator comes on. The indicator stays on until it is reset. After changing the engine oil, reset the indicator as follows. 1. While holding the "MODE" and "SET" buttons pushed, turn the key to "ON". 2. Continue holding the "MODE" and "SET" buttons pushed for two to five seconds. 3.

Release the buttons and the oil change indicator will go off. NOTE: G The oil change indicator will come on at the initial 1000 km (600 mi) and every 6000 km (3600 mi) thereafter. G If the engine oil is changed before the oil change indicator comes on (i.e. before the periodic oil change interval has been reached), the indicator must be reset after the oil change for the next periodic oil change to be indicated at the correct time. After resetting, the indicator will come on for two seconds. If the indicator does not come on, repeat the procedure. 3-7 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 1.

Frost warning indicator 2. Negative symbol 3. Ambient temperature This display shows the ambient temperature from -30°C (-22°F) to 50°C (122°F). The frost warning indicator "*" automatically comes on if the temperature is lower than 3°C (37.4°F).

1. Service indicator INSTRUMENT AND CONTROL FUNCTIONS EAU12343 Handlebar switches EAUS1300 Press this switch to flash the headlight. EAUS1020 EAUM1131 Start switch "g" Pass switch "PASSING" 3 1 2 3 4 Dimmer switch "j/k" Set this switch to "j" for the high beam and to "k" for the low beam. With the headlight on low beam, press this switch downwards to flash the headlight. EAU12460 12 1.

Start switch "g" 2. Hazard switch " " 1. 2. 3. 4. Dimmer switch "j/k" Pass switch "PASS" Turn signal switch "c/d" Horn switch "a" Turn signal switch "c/d" To signal a right-hand turn, push this switch to "d". To signal a left-hand turn, push this switch to "c". 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. EAU12500 Push this switch while applying the front or rear brake to crank the engine with the starter.

ECA10050 CAUTION: See page 5-1 for starting instructions prior to starting the engine. EAUM1990 Horn switch "a" Press this switch to sound the horn. 12

1. Start switch "g" 2. Hazard switch " " 3-8 Hazard switch " ", "h" With the key in the "f" position, set this switch to " " to turn on the hazard lighting (simultaneous flashing of all turn signal lights). To turn off the hazard lighting, set this switch to "h" and, then turn the key to "e". INSTRUMENT AND CONTROL FUNCTIONS NOTE: Even if the key is turned from "f" to "e" with the hazard lighting on, the hazard lighting will continue to flash regardless of the hazard switch position. To cancel the hazard lighting, the key must be turned to "f" and the hazard switch must be set to the "h" position. The hazard lighting is used in case of an emergency or to warn other drivers when your scooter is stopped where it might be a traffic hazard. ECA10060 EAU12900

EAU12950 Front brake lever 1 Rear brake lever 1 3 1.

Front brake lever 1. Rear brake lever CAUTION: Do not use the hazard light for an extended length of time, otherwise the battery may discharge. The front brake lever is located on the right handlebar grip. To apply the front brake, pull this lever toward the handlebar grip. The rear brake lever is located on the left handlebar grip.

To apply the rear brake, pull this lever toward the handlebar grip. 3-9 INSTRUMENT AND CONTROL FUNCTIONS EAU13161 EWA11120 Fuel tank cap To open the fuel tank cap 1. Open the lid by sliding the lever forward, and then pull the lever up. 3 G s WARNING Be sure that the fuel tank cap is properly installed and locked before riding the scooter. EAU13230 G Fuel Make sure that there is sufficient fuel in the tank.

G Never attempt to refuel the scooter while smoking or near an open flame. Take special care not to spill gasoline over the engine or muffler when refueling immediately after operation. Before starting the engine, quickly wipe off any gasoline spilled on the engine or muffler. ECA10070 2. Insert the key into the lock and turn it clockwise. The lock will be released and the fuel tank cap can be removed. To install the fuel tank cap 1. Align the match marks, insert the fuel tank cap into the tank opening, and then push down on the cap. 2. Turn the key counterclockwise to the original position, and then remove it.

3. Close the lid. CAUTION: Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts.

EAU33500 1. Fuel tank 2. Fuel level EWA10990 s WARNING Since gasoline is flammable, the following precautions must be observed. G Stop the engine before refueling. 3-10 Recommended fuel: REGULAR UNLEADED GASOLINE ONLY Fuel tank capacity: 12,5 L (2,75 US gal) (11 Imp.



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gal) Fuel reserve amount (when the fuel level warning symbol comes on): 2 L (0,44 US gal) (1,76 Imp.gal) INSTRUMENT AND CONTROL FUNCTIONS ECA11400 EAU13431 EAU13931 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. 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 or premium unleaded fuel. Use of unleaded fuel will extend spark plug life and reduce maintenance costs. Catalytic converter This model is equipped with a catalytic converter in the exhaust system.

EWA10860 Seat To open the seat 1. Place the scooter on the centerstand. 2. Insert the key into the main switch, and then turn it counterclockwise. NOTE: Do not push inward when turning the key.

3. Fold the seat up. s WARNING The exhaust system is hot after operation. Make sure that the exhaust system has cooled down before doing any maintenance work. ECA10700 3 CAUTION: 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 unreparable damage to the catalytic converter. G Never park the vehicle near possible fire hazards such as grass or other materials that easily burn. G Do not allow the engine to idle too long. To close the seat 1.

Fold the seat down, and then push it down to lock it in place. 2. Remove the key from the main switch if the scooter will be left unattended. 3-11 INSTRUMENT AND CONTROL FUNCTIONS NOTE: Make sure that the seat is properly secured before riding. EAU14540 1 EAU14451 Storage compartment Front storage compartment 1 3 1.Storage compartment 1 To close the storage compartment Push the storage compartment lid into the original position, and then remove the key. EWA10960 1.Storage compartment The storage compartment is located under the seat. (See page 3-11.) EWA10961 1.

Lock To open the storage compartment Insert the key into the lock, turn it clockwise, and then pull on it to open the storage compartment lid. s WARNING G Do not exceed the load limit of 1 kg (2.205 lb) for the storage compartment. G Do not exceed the maximum load of 189 kg (416.75 lb) for the vehicle.

s WARNING G Do not exceed the load limit of 5 kg (11.02 lb) for the storage compartment. G Do not exceed the maximum load of 189 kg (416.75 lb) for the vehicle. When storing the owner's manual or other documents in the storage compartment, be sure to wrap them in a plastic bag so that they will not get wet.

When washing the vehicle, be careful not to let any water enter the storage compartment. 3-12 INSTRUMENT AND CONTROL FUNCTIONS EAU14880

Adjusting the shock absorber assemblies Each shock absorber assembly is equipped with a spring preload adjusting ring. ECA10100 CAUTION: Never attempt to turn an adjusting mechanism beyond the maximum or minimum settings. EWA10210 To increase the spring preload and thereby harden the suspension, turn the adjusting ring on each shock absorber assembly in direction (a). To decrease the spring preload and thereby soften the suspension, turn the adjusting ring on each shock absorber assembly in direction (b). NOTE: Align the appropriate notch in the adjusting ring with the position indicator on the shock absorber. EAU15301 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. 3 s WARNING Always adjust both shock absorber assemblies equally, otherwise poor handling and loss of stability may result. Adjust the spring preload as follows.

1 Spring preload setting: Minimum (soft): 1 Standard: 1 Maximum (hard): 4 1. Sidestand switch 2. Sidestand 2 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 cutoff system.) 1.

Adjusting ring 2. Position indicator 3-13 INSTRUMENT AND CONTROL FUNCTIONS EWA10240 3 s 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 below and have a Yamaha dealer repair it if it does not function properly. 3-14 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. Keep the front or rear brake applied. 5. Push the start switch. Does the engine start? NOTE: This check is most reliable if performed with a warmed-up engine.

NO YES The sidestand switch may be defective. The scooter should not be ridden until checked by a Yamaha dealer. 3 With the engine still off: 6. Move the sidestand up. 7. Keep the front or rear brake applied. 8. Push the start switch. Does the engine start? YES With the engine still running: 9. Move the sidestand down.

Does the engine stall? NO The brake switch may be defective. The scooter should not be ridden until checked by a Yamaha dealer. YES NO The sidestand switch may be defective. The scooter should not be ridden until checked by a Yamaha dealer. The system is OK. The scooter can be ridden. 3-15 PRE-OPERATION CHECKS EAU15591 4 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 s WARNING 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 ITEM Fuel

. CHECKS Check fuel level in fuel tank. Refuel if necessary.

Check fuel line for leakage.



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· Clean and regap. · Replace. · Check valve clearance. · Adjust. · Replace. · Replace. · Check operation, fluid level and vehicle for fluid leakage. · Replace brake pads. · Check operation, fluid level and vehicle for fluid leakage. · Replace brake pads.

6 Every 20000 Km Every 20000 Km Whenever worn to the limit Whenever worn to the limit 12 18 24 ANNUAL CHECK 6 3 * Valves 4 Air filter element 5 * V-Belt 6 * Front brake 7 * Rear brake 6-3 PERIODIC MAINTENANCE AND MINOR REPAIR ODOMETER READING (x 1000 Km) NO. ITEM CHECK OR MAINTENANCE JOB 1 8 * Brake hoses 9 * Wheels 10 * Tires 11 * Wheel bearings 12 * Steering bearings 13 * Chassis fasteners 14 Sidestand, centerstand · 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 play and steering for roughness. · Lubricate with lithium-soap-based grease.

@@ · Check operation. · Lubricate. · Check operation. · Check operation and for oil leakage. · Check operation and shock absorbers for oil leakage. · Check engine idle speed. · Change. @@ · Check coolant level and vehicle for coolant leakage. · Change. @@@@ · Change.

· Clean. · Replace. · Check operation. @@ · Check operation and free play. · Adjust the throttle cable free play if necessary. · Lubricate the throttle grip housing and cable. · Check operation. @@@@Open the storage compartment. @@@@Screws x 6 2. Remove the screw, and then take the panel off.

To install the panel 1. Place the panel in the original position, and then install the screw. 2. @@@@To remove the spark plug 1. Open the seat. (See page 3-11.) 2. @@@@Do not attempt to diagnose such problems yourself. Instead, have a Yamaha dealer check the motorcycle. 2. @@@@Remove the spark plug cap. 6 2 1 1. Storage compartment 2. Screws 4. @@@@However, the spark plug should be tightened to the specified torque as soon as possible. 4. Install the spark plug cap. 5. Install the storage compartment by installing the bolts. 6.

Close the seat. EAUM1550 Engine oil The engine oil level should be checked before each ride. In addition, the oil must be changed at the intervals specified in the periodic maintenance and lubrication chart and when the service indicator light comes on. To check the engine oil level 1. Place the scooter on the centerstand. NOTE: Make sure that the scooter is positioned straight up when checking the oil level. A slight tilt to the side can result in a false reading. 2. Start the engine, warm it up for several minutes, and then turn it off. 1 ZAUM0037 1.

Spark plug gap 6 1. Measure the spark plug gap with a wire thickness gauge and, if necessary, adjust the gap to specification. Spark plug gap: 0.8 - 0.9 mm (0.031 - 0.035 in) 2. Clean the surface of the spark plug gasket and its mating surface, and then wipe off any grime from the spark plug threads. 3. Install the spark plug with the spark plug wrench, and then tighten it to the specified torque.

Tightening torque: Spark plug: 12.5 Nm (1.25m·kgf, 9.05 ft·lbf) 6-8 PERIODIC MAINTENANCE AND MINOR REPAIR hole, and then tighten the oil filler cap. To change the engine oil 1. Start the engine, warm it up for several minutes, and then turn it off. 2. Place an oil pan under the engine to collect the used oil. 2 1 1 1. Engine oil filler cap 2.

Maximum level mark 3. Minimum level mark 1. Engine oil drain bolt 2. Washer 3. Wait a few minutes until the oil settles, remove the oil filler cap, wipe the dipstick clean, insert it back into the oil filler hole (without screwing it in), and then remove it again to check the oil level. NOTE: The engine oil should be between the minimum and maximum level marks. 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. Insert the dipstick into the oil filler 5.

Install the washer and the engine oil drain bolt, and then tighten the drain bolt to the specified torque. 1 1. Engine oil drain bolt 6 Tightening torque: Engine oil drain bolt: 20 Nm (2.0 m·kgf, 14.5 ft·lbf) 3.

Remove the engine oil filler cap and the engine oil drain bolt to drain the oil from the crankcase. 4. Check the washer for damage and replace it if necessary. NOTE: Make sure that the washer is properly seated. 6.

Add the specified amount of the recommended engine oil, and then install and tighten the oil filler cap. 6-9 PERIODIC MAINTENANCE AND MINOR REPAIR EAU20060 Recommended engine oil: See page 8-1. Oil change quantity: 1.4 L (1.48 US qt) (1.23 Imp.qt) ECA11670 Final transmission oil The final transmission case must be checked for oil leakage before each ride. If any leakage is found, have a Yamaha dealer check and repair the scooter. @@1. @@2.

Place the scooter on the centerstand. 3. @@@@G Be sure no foreign material enters the crankcase. 6 7. @@@@8. Reset the service indicator. (See page 3-7.) 1 1. Final transmission oil filler cap 4. @@Final transmission oil drain bolt 5.

@@@@@@Place the vehicle on a level surface and hold it in an upright position. NOTE: G The coolant level must be checked on a cold engine since the level varies with engine temperature. G Make sure that the vehicle is positioned straight up when checking the coolant level. A slight tilt to the side can result in a false reading. 1.

Maximum level mark 2. Minimum level mark 2. Check the coolant level through the check window. NOTE: The coolant should be between the minimum and maximum level marks. 6 s WARNING G Make sure that no foreign material enters the final transmission case.

G Make sure that no oil gets on the tire or wheel. 7. Check the final transmission case for oil leakage. If oil is leaking, check for the cause. 1 1. Coolant reservoir cap 6-11 PERIODIC MAINTENANCE AND MINOR REPAIR 3. If the coolant is at or below the minimum level mark, remove the right floorboard mat by pulling it up. 4. Open the reservoir cap, and then add coolant to the maximum level mark. Coolant reservoir capacity: 0.

26 L (0.28 US qt) (0.23 Imp.qt) ECA10470 ness of the coolant will be reduced. EWA10380 EAUM1320 Air filter and V-belt case air filter elements The air filter and the V-belt case air filter elements should be cleaned at the intervals specified in the periodic maintenance and lubrication chart. Clean both filter elements more frequently if you are riding in unusually wet or dusty areas. Replace the air filter element 1. Place the scooter on the centerstand. 2. Remove the air filter case cover by removing the screws.

s WARNING Never attempt to remove the radiator cap when the engine is hot. 5. Close the reservoir cap. 6. Place the floorboard mat in the original position and push it downward to secure it.



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EAU33030 6 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. G If water has been used instead of coolant, replace it with coolant as soon as possible, otherwise the engine may not be sufficiently cooled and the cooling system will not be protected against frost and corrosion. G If water has been added to the coolant, have a Yamaha dealer check the antifreeze content of the coolant as soon as possible, otherwise the effective- Changing the coolant EWA10380 s WARNING Never attempt to remove the radiator cap when the engine is hot. The coolant must be changed at the intervals specified in the periodic maintenance and lubrication chart.

Have a Yamaha dealer change the coolant. 1 2 1. Air filter case cover 2. Screw 6-12 PERIODIC MAINTENANCE AND MINOR REPAIR 3. Pull the air filter element out. Cleaning the V-belt case air filter element 1. Remove the V-belt case air filter cover by removing the screws. 4. Lightly tap the air filter element to remove most of the dust and dirt, and then blow the remaining dirt out with compressed air. 5.

Check the air filter element for damage and replace it if necessary. 6. Insert the air filter element into the air filter case. 7. Install the air filter case cover by installing the screws. 6 2. Remove the air filter element, and then blow out the dirt with compressed air as shown. 6-13 3. Check the air filter element for damage and replace it if necessary. 4.

Install the air filter element with the colored side facing outward. 5. Install the V-belt case air filter cover by installing the screws. PERIODIC MAINTENANCE AND MINOR REPAIR ECA10530 EAUS1290 CAUTION: G Make sure that each filter element is properly seated in its case. G The engine should never be operated without the filter elements installed, otherwise the piston(s) and/or cylinder(s) may become excessively worn.

Adjusting the throttle cable free play 2. Loosen the locknut. (a) (b) 1. Throttle cable free play 6 The throttle cable free play should measure 4 ~ 6 mm (0.16 ~ 0.24) at the throttle grip. Periodically check the throttle cable free play and, if necessary, adjust it as follows. NOTE: The engine idling speed must be correctly adjusted before checking and adjusting the throttle cable free play. 1. Remove cowling A (See page 6-6). 6-14 3. To increase the throttle cable free play, turn the adjusting nut in direction (a). To decrease the throttle cable free play, turn the adjusting nut in direction (b). 4. Tighten the locknut.

5. Install the cowling. PERIODIC MAINTENANCE AND MINOR REPAIR EAU21401 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. EAU21870 The tire air pressure should be checked and, if necessary, adjusted before each ride. EWA10500 Tires To maximize the performance, durability, and safe operation of your motorcycle, note the following points regarding the specified tires. Tire air pressure s WARNING 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.

Tire air pressure (measured on cold tires): Up to 90 kg (198 lb): Front: 190 kPa (27 psi) (1.9 kgf/cm²) Rear: 220 kPa (31 psi) (2.2 kgf/cm²) 90 kg (198 lb) to maximum load: Front: 210 kPa (30 psi) (2.1 kgf/cm²) Rear: 250 kPa (36 psi) (2.5 kgf/cm²) Maximum load*: 189 kg (417 lb) *Total weight of rider, passenger, cargo and accessories 6 EWA10450 s WARNING Because loading has an enormous impact on the handling, braking, performance and safety characteristics of your vehicle, you should keep the following precautions in mind.

6-15 PERIODIC MAINTENANCE AND MINOR REPAIR G G G G G NEVER OVERLOAD THE VEHICLE! Operation of an overloaded vehicle may result in tire damage, loss of control, or severe injury. Make sure that the total weight of rider, cargo, and accessories does not exceed the specified maximum load for the vehicle. Do not carry along loosely packed items, which can shift during a ride. Securely pack the heaviest items close to the center of the vehicle and distribute the weight evenly on both sides. Adjust the suspension and tire air pressure with regard to the load.

Check the tire condition and air pressure before each ride. Tire inspection Tire information This motorcycle is equipped with tubeless tires. Front tire: Size: 120/70-15 M/C 56P 56S Manufacturer/model: Michelin / GoldStandard Pirelli / GTS23 Rear tire: Size: 140/70-15 M/C 56P 56S Manufacturer/model: Michelin / GoldStandard Pirelli / GTS24 EWA10470 1. 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) NOTE: The tire tread depth limits may differ from country to country. Always comply with the local regulations. s WARNING 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. G 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. 6-16 PERIODIC MAINTENANCE AND MINOR REPAIR EAU21960 EAU33451 EAU22390 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.

Front and rear brake lever free play Front 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. EAU22400 Front brake pads Rear 6 1 1. Lining thickness There should be no free play at the brake lever ends. If there is free play, have a Yamaha dealer inspect the brake system.



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6-17 Check each front brake pad for damage and measure the lining thickness.

If a brake pad is damaged or if the lining thickness is less than 0.5 mm (0.02 in), have a Yamaha dealer replace the brake pads as a set. PERIODIC MAINTENANCE AND MINOR REPAIR EAU22520 EAU22580 Rear brake pads The rear brake is provided with a check plug, which, if it is removed, allows you to check the brake pad wear without disassembling the brake. To check the brake pad wear, check the position of the wear indicator while applying the brake.

If a brake pad has worn to the point that the wear indicator almost touches the brake disc, have a Yamaha dealer replace the brake pads as a set. 6 Checking the brake fluid level 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 G When checking the fluid level, make sure that the top of the brake fluid reservoir is level. 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 G 6-18 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 PERIODIC MAINTENANCE AND MINOR REPAIR 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. EAUM1360 EAU23111 Changing the brake fluid Have a Yamaha dealer change the brake fluid at the intervals specified in the periodic maintenance and lubrication chart. In addition, have the brake hose replaced every four years or whenever it is damaged or leaking. Checking and lubricating the throttle grip and cable The operation of the throttle grip should be checked before each ride. In addition, the cable should be lubricated at the intervals specified in the periodic maintenance chart. G G 6-19 PERIODIC MAINTENANCE AND MINOR REPAIR EAU23170 EAU23211 EAU23271 Lubricating the front and rear brake levers Checking and lubricating the centerstand and sidestand Checking the front fork The condition and operation of the front fork must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart.

To check the condition EWA10750 s WARNING Securely support the motorcycle so that there is no danger of it falling over. The pivoting points of the front and rear brake levers must be lubricated at the intervals specified in the periodic maintenance and lubrication chart. Recommended lubricant: Lithium-soap-based grease (allpurpose grease) 6 The operation of the centerstand and sidestand should be checked before each ride, and the pivots and metal-to-metal contact surfaces should be lubricated if necessary. EWA10740 Check the inner tubes for scratches, damage and excessive oil leakage. To check the operation s WARNING If the centerstand or sidestand does not move up and down smoothly, have a Yamaha dealer check or repair it.

Recommended lubricant: Lithium-soap-based grease (allpurpose grease) 1. Place the motorcycle on a level surface and hold it in an upright position. 6-20 PERIODIC MAINTENANCE AND MINOR REPAIR 2. While applying the front brake, push down hard on the handlebars several times to check if the front fork compresses and rebounds smoothly. ECA10590 EAU23280 Checking the steering Worn or loose steering bearings may cause danger.

Therefore, the operation of the steering must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart. 1. Place a stand under the engine to raise the front wheel off the ground. EWA10750 play can be felt, have a Yamaha dealer check or repair the steering. CAUTION: If any damage is found or the front fork does not operate smoothly, have a Yamaha dealer check or repair it. s WARNING Securely support the motorcycle so that there is no danger of it falling over. 6 2. Hold the lower ends of the front fork legs and try to move them forward and backward. If any free 6-21 PERIODIC MAINTENANCE AND MINOR REPAIR EAU23290 EWA10760 Checking the wheel bearings The front and rear wheel bearings must be checked at the intervals specified in the periodic maintenance and lubrication chart. If there is play in the wheel hub or if the wheel does not turn smoothly, have a Yamaha dealer check the wheel bearings.

EAU23380 Battery The battery is located behind panel A. (See page 6-6.) This model is equipped with a sealedtype (MF) battery, which does not require any maintenance. There is no need to check the electrolyte or to add distilled water. ECA10620 6 CAUTION: Never attempt to remove the battery cell seals, as this would permanently damage the battery. s WARNING G Electrolyte is poisonous and dangerous since it contains sulfuric acid, which causes severe burns.

Avoid any contact with skin, eyes or clothing and always shield your eyes when working near batteries. In case of contact, administer the following FIRST AID. · EXTERNAL: Flush with plenty of water. · INTERNAL: Drink large quantities of water or milk and immediately call a physician.

· EYES: Flush with water for 15 minutes and seek prompt medical attention. G Batteries produce explosive hydrogen gas. Therefore, keep sparks, flames, cigarettes, etc., away from the battery and provide sufficient ventilation when charging it in an enclosed space. G KEEP THIS AND ALL BATTERIES OUT OF THE REACH OF CHILDREN.

6-22 To charge the battery Have a Yamaha dealer charge the battery as soon as possible if it seems to have discharged. Keep in mind that the battery tends to discharge more quickly if the vehicle is equipped with optional electrical accessories. To store the battery 1. Battery 1. If the vehicle will not be used for more than one month, remove the battery, fully charge it, and then place it in a cool, dry place.

2. If the battery will be stored for more than two months, check it at least once a month and fully charge it if necessary. PERIODIC MAINTENANCE AND MINOR REPAIR 3. Fully charge the battery before installation. 4. After installation, make sure that the battery leads are properly connected to the battery terminals. ECA10630 EAU23610 Replacing the fuses CAUTION: G Always keep the battery charged. Storing a discharged battery can cause permanent battery damage.



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G To charge a sealed-type (MF) battery, a special (constantvoltage) battery charger is required. Using a conventional battery charger will damage the battery.

If you do not have access to a sealed-type (MF) battery charger, have a Yamaha dealer charge your battery. Specified fuses: Main fuse: 30 A Headlight fuse: 15 A Signaling system fuse: 15 A Ignition fuse: 5A Clock fuse (backup): 5A Radiator fan fuse: 10 A ECA10640 The main fuse and the fuse box, which contains the fuses for the individual circuits, are located behind cowling B. (See page 6-6.) If a fuse is blown, replace it as follows. 1. Turn the key to "OFF" and turn off the electrical circuit in question. 2. Remove the blown fuse, and then install a new fuse of the specified amperage. CAUTION: Do not use a fuse of a higher amperage rating than recommended to avoid causing extensive damage to the electrical system and possibly a fire. 3.

Turn the key to "ON" and turn on the electrical circuit in question to check if the device operates. 4. If the fuse immediately blows again, have a Yamaha dealer check the electrical system. 6 6-23 PERIODIC MAINTENANCE AND MINOR REPAIR EAU23910 Replacing a headlight bulb This model is equipped with quartz bulb headlights. If a headlight bulb burns out, replace it as follows.

1. Remove cowling B. (See page 6-6.) 1 1. Headlight bulb cover 1 ECA10660 6 1.

Headlight coupler NOTE: The removal procedure depends on the type of bulb holder installed on your vehicle. EWA10790 2. Disconnect the headlight coupler, and then remove the headlight bulb cover. 3. Remove the headlight bulb holder according to the following illustration, and then remove the defective bulb. s WARNING Headlight bulbs get very hot. Therefore, keep flammable products away from a lit headlight bulb, and do not touch the bulb until it has cooled down. 4. Place a new bulb into position, and then secure it with the bulb holder. CAUTION: Do not touch the glass part of the headlight bulb to keep it free from oil, otherwise the transparency of the glass, the luminosity of the bulb, and the bulb life will be adversely affected.

Thoroughly clean off any dirt and fingerprints on the headlight bulb using a cloth moistened with alcohol or thinner. 5. Install the bulb cover, and then connect the coupler. 6. Install the cowling. 7. Have a Yamaha dealer adjust the headlight beam if necessary. 6-24 PERIODIC MAINTENANCE AND MINOR REPAIR EAU1260 Replacing a front turn signal light bulb ECA10670 CAUTION: It is advisable to have a Yamaha dealer perform this job. 1. Place the scooter on the centerstand.

2. Remove cowling A. (See page 6-6.) 3. Remove the socket (together with the bulb) by turning it counterclockwise.

5. Insert a new bulb into the socket, push it in, and then turn it clockwise until it stops. 6. Install the socket (together with the bulb) by turning it clockwise. 7. Install the cowling. EAU1250 Replacing the tail/brake light bulb or a rear turn signal light bulb Tail/brake light bulb 1. Remove the tail/brake light bulb lens by removing the screws. 2. Remove the defective bulb by pushing it in and turning it counterclockwise. 3. Insert a new bulb into the socket, push it in, and then turn it clockwise until it stops. 4. Install the lens by installing the screws. 4.

Remove the defective bulb by pushing it in and turning it counterclockwise. 6-25 6 PERIODIC MAINTENANCE AND MINOR REPAIR Rear turn signal light bulb 6. Install the tail/brake light bulb lens by installing the screw. ECA10680 EAU1150 Replacing the license plate light bulb 1. Remove the lens by removing the screw. CAUTION: Do not overtighten the screws, otherwise the lens may break. 6 1. Remove the tail/brake light lens by removing the screw. 2. Remove the turn signal light bulb lens by removing the screw.

3. Remove the defective bulb by pushing it in and turning it counterclockwise. 4. Insert a new bulb into the socket, push it in, and then turn it clockwise until it stops. 5.

Install the turn signal light bulb lens by installing the screw. 2. Remove the defective bulb by pulling it out. 3. Insert a new bulb into the socket.

4. Install the lens by installing the screw. 6-26 PERIODIC MAINTENANCE AND MINOR REPAIR ECA11190 EAU1260 EAU25880 CAUTION: Do not overtighten the screw, otherwise the lens may break. Replacing the auxiliary light bulb If the auxiliary light bulb burns out, replace it as follows. 1. Remove cowling B. (See page 6-6.). Troubleshooting Although Yamaha scooters receive a thorough inspection before shipment from the factory, trouble may occur during operation. Any problem in the fuel, compression, or ignition systems, for example, can cause poor starting and loss of power.

The following troubleshooting charts represent quick and easy procedures for checking these vital systems yourself. However, should your scooter require any repair, take it to a Yamaha dealer, whose skilled technicians have the necessary tools, experience, and know-how to service the scooter properly. Use only genuine Yamaha replacement parts. Imitation parts may look like Yamaha parts, but they are often inferior, have a shorter service life and can lead to expensive repair bills. 6 2. Remove the socket (together with the bulb) by pulling it out. 3. Remove the defective bulb by pulling it out. 4. Insert a new bulb into the socket.

5. Install the socket (together with the bulb) by pushing it in. 6. Install the cowling B. 6-27 PERIODIC MAINTENANCE AND MINOR REPAIR EAU25921 Troubleshooting charts Starting problems or poor engine performance EWA10840 s WARNING Keep away open flames and do not smoke while checking or working on the fuel system.

1. Fuel There is enough fuel. Check the fuel level in the fuel tank. There is no fuel. Supply fuel.

Check the compression. The engine does not start. Check the compression. 2. Compression There is compression. Check the ignition. Have a Yamaha dealer check the vehicle. 6 Operate the electric starter. There is no compression. 3.

Ignition Wet Remove the spark plug and check the electrodes. Dry Wipe off with a dry cloth and correct the spark plug gap, or replace the spark plug. Open the throttle halfway and operate the electric starter. Have a Yamaha dealer check the vehicle. The engine does not start. Check the battery. 4. Battery Operate the electric starter. The engine turns over quickly. The engine turns over slowly.

The battery is good. Check the battery lead connections, and charge the battery if necessary. The engine does not start. Have a Yamaha dealer check the vehicle. 6-28 PERIODIC MAINTENANCE AND MINOR REPAIR Engine overheating EWA10400 s WARNING G Do not remove the radiator cap when the engine and radiator are hot.

Scalding hot fluid and steam may be blown out under pressure, which could cause serious injury. Be sure to wait until the engine has cooled. G After removing the radiator cap retaining bolt, place a thick rag, like a towel, over the radiator cap, and then slowly rotate the cap counterclockwise to the detent to allow any residual pressure to escape.



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