



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for YAMAHA X-CITY 125. You'll find the answers to all your questions on the YAMAHA X-CITY 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-CITY 125  
User guide YAMAHA X-CITY 125  
Operating instructions YAMAHA X-CITY 125  
Instructions for use YAMAHA X-CITY 125  
Instruction manual YAMAHA X-CITY 125



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**Manual abstract:**

Contents To change contact person and integrate type-designation. @2005 27 Feb. 2006 1 Mar. 2007 General manager of quality assurance div. INTRODUCTION EAU10113 Welcome to the Yamaha world of motorcycling! As the owner of the VP125, you are benefiting from Yamaha's vast experience and newest technology regarding the design and manufacture of high-quality products, which have earned Yamaha a reputation for dependability. Please take the time to read this manual thoroughly, so as to enjoy all advantages of your VP125. The Owner's Manual does not only instruct you in how to operate, inspect and maintain your scooter, but also in how to safeguard yourself and others from trouble and injury. @@@The Yamaha team wishes you many safe and pleasant rides. So, remember to put safety first! Yamaha continually seeks advancements in product design and quality. @@@@It is used to alert you to potential personal injury hazards.

Obey all safety messages that follow this symbol to avoid possible injury or death. WARNING A WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury. A NOTICE indicates special precautions that must be taken to avoid damage to the vehicle or other property. A TIP provides key information to make procedures easier or clearer. NOTICE TIP IMPORTANT MANUAL INFORMATION EAUM1010 VP125 OWNER'S MANUAL ©2008 by MBK INDUSTRIE 1st edition, July 2008 All rights reserved Any reprinting or unauthorized use without the written permission of MBK INDUSTRIE is expressly prohibited.

Printed in France. TABLE OF CONTENTS SAFETY INFORMATION ....

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.9-1 SAFETY INFORMATION EAU10263 1 Be a Responsible Owner As the vehicle's owner, you are responsible for the safe and proper operation of your scooter. Scooters are single-track vehicles. Their safe use and operation are dependent upon the use of proper riding techniques as well as the expertise of the operator. Every operator should know the following requirements before riding this scooter. He or she should: G Obtain thorough instructions from a competent source on all aspects of scooter operation. G Observe the warnings and maintenance requirements in this Owner's Manual. G Obtain qualified training in safe and proper riding techniques. G Obtain professional technical service as indicated in this Owner's Manual and/or when made necessary by mechanical conditions. Safe Riding Perform the pre-operation checks each time you use the vehicle to make sure it is in safe operating condition.

Failure to inspect or maintain the vehicle properly increases the possibility of an accident or equipment damage. See page 4-1 for a list of pre-operation checks. G This scooter is designed to carry the operator and a passenger. G The failure of motorists to detect and recognize scooters in traffic is the predominating cause of automobile/scooter accidents. Many accidents have been caused by an automobile driver who did not see the scooter. 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 scooter accidents to occur. I-1 G G · Ride where other motorists can see you. Avoid riding in another motorist's blind spot.

Many accidents involve inexperienced operators. In fact, many operators who have been involved in accidents do not even have a current driver's license. · Make sure that you are qualified and that you only lend your scooter 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 scooter where there is no traffic until you have become thoroughly familiar with the scooter and all of its controls. Many accidents have been caused by error of the scooter 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). · 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 scooter. · 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.



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Never carry a passenger unless he or she can firmly place both feet on the passenger footrests. Never ride under the influence of alcohol or other drugs. G This scooter is designed for onroad use only. It is not suitable for off-road use. G A passenger should also observe the above precautions. 1 G G Protective apparel The majority of fatalities from scooter 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, substantial shoes, 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 or wheels and cause injury or an accident. G Always wear protective clothing that covers your legs, ankles, and feet. The engine or exhaust system become very hot during or after operation and can cause burns. 1-2 Avoid Carbon Monoxide Poisoning All engine exhaust contains carbon monoxide, a deadly gas.

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

If you experience any symptoms of carbon monoxide poisoning, leave the area immediately, get fresh air, and SEEK MEDICAL TREATMENT.

G Do not run engine indoors. Even if you try to ventilate engine exhaust with fans or open windows and doors, carbon monoxide can rapidly reach dangerous levels. SAFETY INFORMATION G 1 G Do not run engine in poorly ventilated or partially enclosed areas such as barns, garages, or carports. Do not run engine outpassed by large vehicles. · Certain accessories can displace the operator from his or her normal riding position.

This improper position limits the freedom of movement of the operator and may limit control ability, therefore, such accessories are not recommended. Use caution when adding electrical accessories. If electrical accessories exceed the capacity of the scooter's electrical system, an electric failure could result, which could cause a dangerous loss of lights or engine power. G 1 Aftermarket Tires and Rims The tires and rims that came with your scooter were designed to match the performance capabilities and to provide the best combination of handling, braking, and comfort. Other tires, rims, sizes, and combinations may not be appropriate. Refer to page 6-15 for tire specifications and more information on replacing your tires. 1-4 SAFETY INFORMATION EAU10372 Furthurly in water. Do not expose any key to excessively high temperatures. Do not place any key close to magnets (this includes, but not limited to, products such as speakers, etc.).

Do not place items that transmit electrical signals close to any key. Do not place heavy items on any key. Do not grind any key or alter its shape. Do not disassemble the plastic part of any key. Do not put two keys of any immobilizer system on the same key ring. Keep the standard keys as well as keys of other immobilizer systems away from this vehicle's code re-registering key. 3-1 INSTRUMENT AND CONTROL FUNCTIONS G Keep other immobilizer system keys away from the main switch as they may cause signal interference. EAU10471 EAU34121 Main switch/steering lock OFF OP EN O H PUS ON All electrical circuits are supplied with power; the meter lighting, taillight, license plate light and auxiliary lights come on, and the engine can be started. The key cannot be removed. TIP The headlights come on automatically when the engine is started and stay on until the key is turned to "OFF" or the sidestand is moved down.

EAU10661 N CK O IG ZAUM0696 T NI The main switch/steering lock controls the ignition and lighting systems, and is used to lock the steering. TIP Be sure to use the standard key (black bow) for regular use of the vehicle. To minimize the risk of losing the code reregistering key (red bow), keep it in a safe place and only use it for code reregistering. O I 3 N L 3-2 OFF All electrical systems are off. The key can be removed.

EWA10061 WARNING Never turn the key to "OFF" or "LOCK" while the vehicle is moving. Otherwise the electrical systems will be switched off, which may result in loss of control or an accident. INSTRUMENT AND CONTROL FUNCTIONS EAU10681 EAU11003 EAU11482 LOCK The steering is locked, and all electrical systems are off. The key can be removed. To lock the steering 1.

Turn the handlebars all the way to the left. 2. Push the key in from the "OFF" position, and then turn it to "LOCK" while still pushing it. 3. Remove the key. To unlock the steering Push the key in, and then turn it to "OFF" while still pushing it. Indicator and warning lights 12 3 45 3 ZAUM0697 1. 2. 3. 4.

5. High beam indicator light " " Left turn signal indicator light " " Immobilizer system indicator light Right turn signal indicator light " " Engine trouble warning light " " EAU11030 Engine trouble warning light " " This warning light comes on if a problem is detected in the electrical circuit monitoring the engine. If this occurs, have a Yamaha dealer check the selfdiagnosis system. 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. EAU38911 Turn signal indicator lights " " and " " The corresponding indicator light flashes when the turn signal switch is pushed to the left or right. EAU11080 High beam indicator light " " This indicator light comes on when the high beam of the headlight is switched on. 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" 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. INSTRUMENT AND CONTROL FUNCTIONS TIP This model is also equipped with a selfdiagnosis device for the immobilizer system. If the immobilizer system is not working correctly, the indicator light will start flashing a pattern when the key is turned to "ON".



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When this occurs, have a Yamaha dealer check the self-diagnosis system. 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. TIP Make sure there are no other immobilizer keys close to the main switch, and do not keep more than one immobilizer key on the same key ring! Immobilizer system keys may cause signal interference, which may prevent the engine from starting. 2.

If the engine starts, turn it off, and try starting the engine with the standard keys. 3-4 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. EAU11591 Speedometer 1 3 ZAUM0636 1. Speedometer UK ONLY 1 50 40 mph 60 30 70 20 80 10 90 0 100 ZAUM0637 1. Speedometer The speedometer shows the riding speed. INSTRUMENT AND CONTROL FUNCTIONS EAU1471 EAU12172 EAU2252 Fuel gauge Coolant temperature gauge Multi-function display 1 1 2 ZAUM0638 ZAUM0639 ZAUM0640 3 1 2 3 1. Fuel gauge 2. Fuel level warning light 1. Red zone 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 remaining fuel in the tank reaches approximately 2.7 L (0.72 US gal, 0.60 Imp.gal), the fuel level warning light will come on and the multi-function display will automatically change to the "Trip/fuel" mode. (See page 3-6.) If this occurs, refuel as soon as possible. TIP 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 6-30.) ECA10021 1. "MODE" button 2.

Multi-function display 3. "SET" button EWA12312 WARNING Be sure to stop the vehicle before making any setting changes to the multi-function display. Changing settings while riding can distract the operator and increase the risk of an accident. The multi-function display is equipped with the following: G an odometer (which shows the total distance traveled) NOTICE Do not continue to operate the engine if it is overheating. 3-5 INSTRUMENT AND CONTROL FUNCTIONS G G G G 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) a fuel reserve tripmeter (which shows the distance traveled since the fuel level warning light came on) a clock an ambient temperature display an oil change indicator (which comes on when the engine oil should be changed) For the UK, the distance traveled is displayed in miles and the temperature reading is displayed in °F.

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 "Mode" Trip 1 or Trip 2 Time 1 or 2 Average speed 1 or 2 Trip 1 or Trip 2 1 "Set" 2 "Set" "Set" 3 3 "Mode" 1 4 2 3 ZAUM0392 "Mode" "Mode" ZAUM0391 1. Distance 2. Time 3. Average speed TIP G G 1. 2. 3. 4. Total Trip 1 Trip 2 Trip/Fuel TIP The Trip/fuel odometer is only activated if the fuel level warning light comes on. Pushing the "SET" button when in the tripmeter mode switches the display between the different tripmeter functions in the following order: 3-6 If the fuel level warning light comes on (See page 3-5.

), 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 INSTRUMENT AND CONTROL FUNCTIONS Ambient temperature display 1 2 3 3 ZAUM0393 ZAUM0394 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. 2. When the hour digits start flashing, push the "SET" button to set the hours. 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. ZAUM0396 1.

Frost warning indicator " 2. Minus item 3. Temperature " This display shows the ambient temperature from 30 °C (86 °F) to 50 °C (122 °F). The frost warning indicator " " automatically comes on if the temperature is lower than 3 °C (37 °F). ZAUM0395 3-7 INSTRUMENT AND CONTROL FUNCTIONS Oil change indicator "OIL" EAU12347 TIP G Handlebar switches The oil change indicator will come on at the initial 1000 km (600 mi), 5000 km (3000 mi) after the initial 1000 km (600 mi) and every 6000 km (3600 mi) thereafter.

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. Left 1 G 3 ZAUM0582 1. 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. 1. Dimmer " / /Pass " " switch 2. Turn signal switch " / " 3. Horn switch " " Right 1 ZAUM0642 1.



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Start switch " " 3-8 INSTRUMENT AND CONTROL FUNCTIONS EAUS1020 EAU12900 EAU12950 Dimmer switch " / " Set this switch to " " for the high beam and to " " for the low beam.

With the headlight on low beam, press this switch downwards to flash the headlight. 3 EAU12460 Front brake lever 1 Rear brake lever 1 Turn signal switch " / " To signal a right-hand turn, push this switch to " ". To signal a left-hand turn, push this switch to " ". When released, the switch returns to the center position. To cancel the turn signal lights, push the switch in after it has returned to the center position.

EAU12500 ZAUM0084 ZAUM0085 1. Front brake lever 1. Rear brake lever 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. Horn switch " " Press this switch to sound the horn. EAU12721 Start switch " " With the sidestand up, push this switch while applying the front or rear brake to crank the engine with the starter. See page 5-1 for starting instructions prior to starting the engine. 3-9 INSTRUMENT AND CONTROL FUNCTIONS EAUM2161 EWA11091 EAU13212 Fuel tank cap To open the fuel tank cap WARNING Make sure that the fuel tank cap is properly closed after filling fuel. Leaking fuel is a fire hazard. Fuel Make sure there is sufficient gasoline in the tank. EWA10881 1 2 WARNING Gasoline and gasoline vapors are extremely flammable. To avoid fires and explosions and to reduce the risk of injury when refueling, follow these instructions. 1.

Before refueling, turn off the engine and be sure that no one is sitting on the vehicle. Never refuel while smoking, or while in the vicinity of sparks, open flames, or other sources of ignition such as the pilot lights of water heaters and clothes dryers. 2. Do not overfill the fuel tank. Stop filling when the fuel reaches the bottom of the filler tube. Because fuel expands when it heats up, heat from the engine or the sun can cause fuel to spill out of the fuel tank. 3 ZAUM0643 1. Fuel tank cap 2. Fuel tank cap cover 1. Open the fuel tank cap cover by pushing in on the front end of it.

2. Insert the key in the lock and turn it clockwise. To close the fuel tank cap 1. Align the match marks, and then push the fuel tank cap into the original position. 2.

Turn the key counterclockwise and remove it. 3. Close the fuel tank cover. 3-10 INSTRUMENT AND CONTROL FUNCTIONS 1 2 ately. If gasoline spills on your skin, wash with soap and water.

If gasoline spills on your clothing, change your clothes. EAU13390 brand. Use of unleaded fuel will extend spark plug life and reduce maintenance costs. 3 ZAUM0020 1. Fuel tank filler tube 2. Fuel level 3. Wipe up any spilled fuel immediately. NOTICE: Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts. [ECA10071] 4. Be sure to securely close the fuel tank cap.

EWA15151 Recommended fuel: PREMIUM UNLEADED GASOLINE ONLY Fuel tank capacity: 10.5 L (2.77 US gal, 2.31 Imp.gal) Fuel reserve amount (when the fuel level warning light comes on): 2.7 L (0.72 US gal, 0.60 Imp.gal) ECA11400 NOTICE Use only unleaded gasoline. The use of leaded gasoline will cause severe damage to internal engine parts, such as the valves and piston rings, as well as to the exhaust system.

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 3-11 WARNING Gasoline is poisonous and can cause injury or death. Handle gasoline with care. Never siphon gasoline by mouth. If you should swallow some gasoline or inhale a lot of gasoline vapor, or get some gasoline in your eyes, see your doctor immedi- INSTRUMENT AND CONTROL FUNCTIONS EAU13445 ECA10701 EAU13932 Catalytic converters This vehicle is equipped with catalytic converters in the exhaust system. EWA10862 NOTICE Use only unleaded gasoline. The use of leaded gasoline will cause unrepairable damage to the catalytic converter. 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 to "OPEN". WARNING The exhaust system is hot after operation. To prevent a fire hazard or burns: G Do not park the vehicle near possible fire hazards such as grass or other materials that easily burn. G Park the vehicle in a place where pedestrians or children are not likely to touch the hot exhaust system. G Make sure that the exhaust system has cooled down before doing any maintenance work. G Do not allow the engine to idle more than a few minutes. Long idling can cause a build-up of heat. 3 1 OFF OP EN O N PUSH CK O IG N IT ZAUM0698 1. Open. TIP Do not push inward when turning the key.

3. Fold the seat up. To close the seat 1. Fold the seat down, and then push it down to lock it in place. 3-12 O I N L INSTRUMENT AND CONTROL FUNCTIONS 2. Remove the key from the main switch if the scooter will be left unattended. TIP Make sure that the seat is properly secured before riding. 3 EAUM2521 EWA11191 Storage compartments Front storage compartment G WARNING Do not exceed the load limit of 1 kg (2 lb) for the front storage compartment. Do not exceed the maximum load of 185 kg (408 lb) for the vehicle. G Rear storage compartment ZAUM0699 1 2 1. Lock. 2. Front storage compartment 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. To close the storage compartment Push the storage compartment lid into the original position, and then remove the key. 1 ZAUM0646 1. Rear storage compartment There is a storage compartment under the seat. (See page 3-12.) EWAT1051 WARNING G Do not exceed the load limit of 5 kg (11 lb) for the rear storage compartment. 3-13 INSTRUMENT AND CONTROL FUNCTIONS G Do not exceed the maximum load of 185 kg (408 lb) for the vehicle. ECA10080 To store a helmet in the storage compartment, place the helmet with the front facing backward.

TIP G EAUM2490 Windshield To suit the rider's preference, the windshield height can be changed to one of four positions. To adjust the windshield height 1. Remove the bolts on each side of the windshield. NOTICE Keep the following points in mind when using the storage compartment. G Since the storage compartment accumulates heat when exposed to the sun, do not store anything susceptible to heat inside it. G To avoid humidity from spreading through the storage compartment, wrap wet articles in a plastic bag before storing them in the compartment. G Since the storage compartment may get wet while the scooter is being washed, wrap any articles stored in the compartment in a plastic bag.



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*G Do not keep anything valuable or breakable in the storage compartment. G Some helmets cannot be stored in the storage compartment because of their size or shape. Do not leave your scooter unattended with the seat open.*

*3 2 1 ZAUM0797 1. Windshield 2. Bolt 2. Move the windshield to the desired position. 3. Install the bolts and tighten them to the specified torque. Tightening torque: Windshield bolt: 4 Nm (0.4 m·kgf, 2.9 ft·lbf) 3-14 INSTRUMENT AND CONTROL FUNCTIONS EWA10920 EAU14881 EWA10210 WARNING After adjusting the windshield: G Securely tighten the windshield bolts. G Turn the handlebar to the left and right to make sure that the handlebar is not obstructed and that the windshield does not contact any other parts.*

*G Open the throttle and make sure that the throttle grip returns properly when released, otherwise an accident or injury could result. Adjusting the shock absorber assemblies WARNING Always adjust both shock absorber assemblies equally, otherwise poor handling and loss of stability may result. Adjust the spring preload as follows. 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). Align the appropriate notch in the adjusting ring with the position indicator on the shock absorber. Spring preload setting: Minimum (soft): 1 Standard: 2 Maximum (hard): 4 (b) (a) ZAUM0414 4 3 2 1 3 2 1 1. Spring preload adjusting ring 2. Position indicator Each shock absorber assembly is equipped with a spring preload adjusting ring. ECA10101 NOTICE To avoid damaging the mechanism, do not attempt to turn beyond the maximum or minimum settings. 3-15 INSTRUMENT AND CONTROL FUNCTIONS EAU15112 EAUT1072 EAU15301 Carrier EWA10171 Luggage hook EWAT1031 Sidestand 1 WARNING G G WARNING G G Do not exceed the load limit of 5 kg (11 lb) for the carrier. Do not exceed the maximum load of 185 kg (408 lb) for the vehicle. Do not exceed the load limit of 3 kg (7 lb) for the luggage hook. Do not exceed the maximum load of 185 kg (408 lb) for the vehicle. 3 ZAUM0648 1 1 1. Sidestand switch The sidestand is located on the left side of the frame. Raise the sidestand or lower it with your foot while holding the vehicle upright. ZAUM0798 ZAUM0700 1. Carrier 1. Luggage hook TIP The built-in sidestand switch is part of the ignition circuit cut-off system, which cuts the ignition in certain situations.*

*(See further down for an explanation of the ignition circuit cut-off system.) EWA10240 WARNING The vehicle must not be ridden with the sidestand down, or if the sidestand cannot be properly moved up 3-16 INSTRUMENT AND CONTROL FUNCTIONS (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. EAU45051 Ignition circuit cut-off system The ignition circuit cut-off system (comprising the sidestand switch and brake light switches) has the following functions. G It prevents starting when the sidestand is up, but neither brake is applied. G It prevents starting when either brake is applied, but the sidestand is still down. G It cuts the running engine when the sidestand is moved down. Periodically check the operation of the ignition circuit cut-off system according to the following procedure. 3 3-17 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? WARNING If a malfunction is noted, have a Yamaha dealer check the system before riding.*

*NO YES The sidestand switch may not be working correctly. 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 not be working correctly. The scooter should not be ridden until checked by a Yamaha dealer. YES NO The sidestand switch may not be working correctly. The scooter should not be ridden until checked by a Yamaha dealer. The system is OK. The scooter can be ridden. 3-18 FOR YOUR SAFETY PRE-OPERATION CHECKS EAU15596 Inspect your vehicle each time you use it to make sure the vehicle is in safe operating condition. Always follow the inspection and maintenance procedures and schedules described in the Owner's Manual. EWA11151 WARNING Failure to inspect or maintain the vehicle properly increases the possibility of an accident or equipment damage. Do not operate the vehicle if you find any problem.*

*If a problem cannot be corrected by the procedures provided in this manual, have the vehicle inspected by a Yamaha dealer. Before using this vehicle, check the following points: 4 Fuel ITEM · Check fuel level in fuel tank. · Refuel if necessary. · Check fuel line for leakage. · Check oil level in engine.*

*· If necessary, add recommended oil to specified level. · Check vehicle for oil leakage. · 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.*

*CHECKS PAGE 3-10 Engine oil Final transmission oil Coolant 6-8 6-11 6-12 Front brake 6-17, 6-18, 6-18 4-1 FOR YOUR SAFETY PRE-OPERATION CHECKS ITEM . . . . . CHECKS 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. PAGE Rear brake 6-17, 6-18, 6-18 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. . . . Check for damage.*



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6 ZAU0652 1. Cowling A ZAU0654 1. Panel B EAUM2221 ZAU0428 Cowling A To remove the cowling 1. Remove the cowling screws. 1 2 1.

Turn signal light lead coupler 2. Headlight coupler 3. Pull the cowling off. 6-6 PERIODIC MAINTENANCE AND ADJUSTMENT To install the cowling 1. Connect the headlight coupler and the turn signal couplers. 2. Place the cowling in the original position, and then install the screws. EAU19481 EAU19210 EAU19622 Panel B To remove the panel Remove the screws, and then take the panel off. Checking the spark plug The spark plug is an important engine component, which should be checked periodically, preferably by a Yamaha dealer. Since heat and deposits will cause any spark plug to slowly erode, it should be removed and checked in accordance with the periodic maintenance and lubrication chart.

In addition, the condition of the spark plug can reveal the condition of the engine. The porcelain insulator around the center electrode of the spark plug should be a medium-to-light tan (the ideal color when the vehicle is ridden normally). If the spark plug shows a distinctly different color, the engine could be operating improperly. Do not attempt to diagnose such problems yourself. Instead, have a Yamaha dealer check the vehicle.

If the spark plug shows signs of electrode erosion and excessive carbon or other deposits, it should be replaced. Specified spark plug: NGK/CPR9EA-9 Panel A To remove the panel 1. Open the seat. (See page 3-12.) 2.

Remove the screws, and then pull the panel off as shown. 6 1 1 2 ZAU0657 1. Screw To install the panel Place the panel in the original position, and then install the screws. ZAU0656 1. Screw 2. Panel A To install the panel Place the panel in the original position, and then install the screws. 6-7 PERIODIC MAINTENANCE AND ADJUSTMENT Before installing a spark plug, the spark plug gap should be measured with a wire thickness gauge and, if necessary, adjusted to specification. EAUM2271 TIP If a torque wrench is not available when installing a spark plug, a good estimate of the correct torque is 1/41/2 turn past finger tight. However, the spark plug should be tightened to the specified torque as soon as possible. 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. A slight tilt to the side can result in a false reading. 2. @ @ 3.

@ @ @ @ @ @ @ @ @ @ @ 5. @ @ Engine oil filler cap 6 4. @ @ 5. @ @ @ @ @ @ 2.

@ @ Engine oil drain bolt 4. Check the drain bolt washer for damage and replace it if necessary. ZAU0711 1. Oil filter element cover 6. Remove the oil filter element and O-ring.

2 1 ZAU0129 1. Engine oil drain bolt 2. Washer 6-9 PERIODIC MAINTENANCE AND ADJUSTMENT 10. Install the washer and the engine oil drain bolt, and then tighten the drain bolt to the specified torque. ECA11670 NOTICE G 1 2 ZAU0712 Tightening torque: Engine oil drain bolt: 20 Nm (2.

0 m-kgf, 14 ft-lbf) 3 1. Oil filter element 2. O-ring 3. Oil filter element cover TIP Make sure that the washer is properly seated. 11. Refill with the specified amount of the recommended engine oil, and then install and tighten the oil filler cap. Recommended engine oil: See page 8-1. Oil change quantity: Without oil filter element replacement: 1.40 L (1.48 US qt, 1.

23 Imp.qt) With oil filter element replacement: 1.50 L (1.59 US qt, 1.32 Imp.qt) G 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. Be sure no foreign material enters the crankcase. 7. Check the O-ring for damage and replace it if necessary.

8. Install the new oil filter element and an O-ring. 9. Install the oil filter element cover by installing the bolts, then tightening them to the specified torque. Tightening torque: Oil filter cover bolt: 10 Nm (1.

0 m-kgf, 7.2 ft-lbf) 12. 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. 13.

Turn the engine off, and then check the oil level and correct it if necessary. 14. Reset the oil change indicator. (See page 3-8.) 6 TIP Make sure that the O-ring is properly seated. TIP Be sure to wipe off spilled oil on any parts after the engine and exhaust system have cooled down. 6-10 PERIODIC MAINTENANCE AND ADJUSTMENT EAU20064 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. In addition, the final transmission oil must be changed as follows at the intervals specified in the periodic maintenance and lubrication chart. 1.

Start the engine, warm up the final transmission oil by riding the scooter for several minutes, and then stop the engine. 2. Place the scooter on the centerstand. 3. Place an oil pan under the final transmission case to collect the used oil. 4. Remove the final transmission oil filler cap and final transmission drain bolt to drain the oil from the final transmission case. 1 6. Refill with the specified amount of the recommended final transmission oil, and then install and tighten the oil filler cap. WARNING! Make sure that no foreign material enters the final transmission case.

Make sure that no oil gets on the tire or wheel. [EWA11311] Recommended final transmission oil: See page 8-1. Oil quantity: 0.21 L (0.22 US qt, 0.

18 Imp.qt) ZAU0658 1. Final transmission oil filler cap 5. Install the final transmission oil drain bolt, and then tighten it to the specified torque. 6 7.

Check the final transmission case for oil leakage. If oil is leaking, check for the cause. 1 ZAU0703 1. Final transmission oil drain bolt Tightening torque: Final transmission oil drain bolt: 20 Nm (2.0 m-kgf, 14 ft-lbf) 6-11 PERIODIC MAINTENANCE AND ADJUSTMENT EAU20070 Coolant 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.

EAUM2102 1 2 To check the coolant level 1. Place the vehicle on a level surface and hold it in an upright position. TIP G ZAU0660 wise the cooling system will not be protected against frost and corrosion. 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 effectiveness of the coolant will be reduced.

[ECA10472] 1. Maximum level mark 2. Minimum level mark G The coolant level must be checked on a cold engine since the level varies with engine temperature. Make sure that the vehicle is positioned straight up when checking the coolant level.



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A slight tilt to the side can result in a false reading. 2. Check the coolant level through the check window. **TIP** The coolant should be between the minimum and maximum level marks. 3. If the coolant is at or below the minimum level mark, remove the cowlings A.

(See page 6-6.) 4. Open the reservoir cap, and then add coolant to the maximum level mark. **WARNING!** Remove only the coolant reservoir cap. Never attempt to remove the radiator cap when the engine is hot.

[EWA15161] **NOTICE:** 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. If water has been used instead of coolant, replace it with coolant as soon as possible, other6-12 1 6 ZAUM0661 1. Coolant reservoir cap Coolant reservoir capacity: 0.20 L (0.

21 US qt, 0.18 Imp.qt) 5. Close the reservoir cap, and then install the cowlings. **PERIODIC MAINTENANCE AND ADJUSTMENT** EAU33031 EAU2242 Changing the coolant The coolant must be changed at the intervals specified in the periodic maintenance and lubrication chart. Have a Yamaha dealer change the coolant. **WARNING!** Never attempt to remove the radiator cap when the engine is hot. [EWA10381] Air filter and V-belt case air filter elements The air filter element should be replaced and the V-belt case air filter element should be cleaned at the intervals specified in the periodic maintenance and lubrication chart. Service the air filter elements more frequently if you are riding in unusually wet or dusty areas. Replacing the air filter element 1.

Place the scooter on the centerstand. 2. Remove the air filter case cover by removing the screws. 3. Pull the air filter element out. 4. Insert a new air filter element into the air filter case. 5. Install the air filter case cover by installing the screws. Cleaning the V-belt case air filter element 1.

Remove the V-belt case air filter covers by removing the screws. 6 2 1 ZAUM0704 1 2 1. V-belt case air filter cover 2. Screw ZAUM0662 2 3 1. Air filter case cover 2.

Screw 3. Air filter element 6-13 **PERIODIC MAINTENANCE AND ADJUSTMENT** 4. Install the air filter element with the colored side facing outward. 5. Install the V-belt case air filter covers by installing the screws.

**NOTICE:** Make sure that each filter element is properly seated in its case. The engine should never be operated without the filter elements installed, otherwise the piston(s) and/or cylinder(s) may become excessively worn. [ECA10531] EAU21382 Checking the throttle cable free play 1 ZAUM0705 2 1 1. Screw 2. V-belt case air filter cover ZAUM0051 2. Remove the air filter element, and then blow out the dirt with compressed air as shown. 1. Throttle cable free play The throttle cable free play should measure 3.05.0 mm (0.

120.20 in) at the throttle grip. Periodically check the throttle cable free play and, if necessary, have a Yamaha dealer adjust it. 6 1 ZAUM0706 1. V-belt case air filter element 3. Check the air filter element for damage and replace it if necessary. 6-14 **PERIODIC MAINTENANCE AND ADJUSTMENT** EAU21401

EAU2041 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. Tires To maximize the performance, durability, and safe operation of your vehicle, note the following points regarding the specified tires. Tire air pressure G 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). 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 ZAUM0053 The tire air pressure should be checked and, if necessary, adjusted before each ride. EWA10501 **WARNING** Operation of this vehicle with improper tire pressure may cause severe injury or death from loss of control.

Tire air pressure (measured on cold tires): 090 kg (0198 lb): Front: 170 kPa (1.70 kgf/cm<sup>2</sup>, 25 psi) Rear: 190 kPa (1.90 kgf/cm<sup>2</sup>, 28 psi) 90185 kg (198408 lb): Front: 180 kPa (1.80 kgf/cm<sup>2</sup>, 26 psi) Rear: 200 kPa (2.00 kgf/cm<sup>2</sup>, 29 psi) Maximum load\*: 185 kg (408 lb) \* Total weight of rider, passenger, cargo and accessories 6-15 **PERIODIC MAINTENANCE AND ADJUSTMENT** EWA10511 **WARNING** Never overload your vehicle.

Operation of an overloaded vehicle could cause an accident. Tire inspection **TIP** The tire tread depth limits may differ from country to country. Always comply with the local regulations. Tire information This model is equipped with tubeless tires. After extensive tests, only the tires listed below have been approved for this model by Yamaha Motor Co., Ltd. Front tire: Size: 120/70-16 M/C 57P Manufacturer/model: PIRELLI/SPORT DEMON FRONT Rear tire: Size: 140/70-15 M/C 69P Manufacturer/model: PIRELLI/SPORT DEMON EWA10470 G 1 cle 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. 2 6 ZAUM0054 1. Tire tread depth 2.

Tire sidewall The tires must be checked before each ride. If the center tread depth reaches the specified limit, if the tire has a nail or glass fragments in it, or if the sidewall is cracked, have a Yamaha dealer replace the tire immediately. Minimum tire tread depth (front and rear): 1.6 mm (0.06 in) **WARNING** G Have a Yamaha dealer replace excessively worn tires. Besides being illegal, operating the vehi- 6-16 **PERIODIC MAINTENANCE AND ADJUSTMENT** EAU21960 EAU33453 EWA14211 Cast wheels To maximize the performance, durability, and safe operation of your vehicle, note the following points regarding the specified wheels. G The wheel rims should be checked for cracks, bends or warpage before each ride. If any damage is found, have a Yamaha dealer replace the wheel. Do not attempt even the smallest repair to the wheel. A deformed or cracked wheel must be replaced.

G The wheel should be balanced whenever either the tire or wheel has been changed or replaced. An unbalanced wheel can result in poor performance, adverse handling characteristics, and a shortened tire life. G Ride at moderate speeds after changing a tire since the tire surface must first be "broken in" for it to develop its optimal characteristics. Front and rear brake lever free play Front **WARNING** A soft or spongy feeling in the brake lever can indicate the presence of air in the hydraulic system. If there is air in the hydraulic system, have a Yamaha dealer bleed the system before operating the vehicle.

Air in the hydraulic system will diminish the braking performance, which may result in loss of control and an accident.



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ZAUM0687 Rear 6 ZAUM0688 There should be no free play at the brake lever ends. If there is free play, have a Yamaha dealer inspect the brake system. 6-17 PERIODIC MAINTENANCE AND ADJUSTMENT 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. EAU22420 indicator groove has almost disappeared, have a Yamaha dealer replace the brake pads as a set.

EAU22500 EAU22580 Checking the brake fluid level Front brake Rear brake pads MIN 1 Front brake pads ZAUM0665 1 1 1 ZAUM0664 1. Minimum level mark Rear brake 6 MIN 1. Lining thickness ZAUM0663 1. Brake pad wear indicator groove 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 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 0.8 mm (0.03 in), have a Yamaha dealer replace the brake pads as a set. 1 MIN ZAUM0666 1.

Minimum level mark Insufficient brake fluid may allow air to enter the brake system, possibly causing it to become ineffective. 6-18 PERIODIC MAINTENANCE AND ADJUSTMENT 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 G G G 6 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. EAU22721 Changing the brake fluid Have a Yamaha dealer change the brake fluid at the intervals specified in the TIP after the periodic maintenance and lubrication chart. In addition, have the oil seals of the brake master cylinder and caliper as well as the brake hose replaced at the intervals listed below or whenever they are damaged or leaking. G Oil seals: Replace every two years.

G Brake hose: Replace every four years. Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor braking performance. 6-19 PERIODIC MAINTENANCE AND ADJUSTMENT EAU23101 EAU23111 EAU23172 Checking and lubricating the cables The operation of all control cables and the condition of the cables should be checked before each ride, and the cables and cable ends should be lubricated if necessary. If a cable is damaged or does not move smoothly, have a Yamaha dealer check or replace it.

**WARNING!** Damage to the outer sheath may interfere with proper cable operation and will cause the inner cable to rust. Replace a damaged cable as soon as possible to prevent unsafe conditions. [EWA10721] Recommended lubricant: Engine oil 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.

Lubricating the front and rear brake levers ZAUM0061 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: Silicone grease 6 6-20 PERIODIC MAINTENANCE AND ADJUSTMENT EAU23213 Checking and lubricating the centerstand and sidestand 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. EWA10741 EAU23272 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 Check the inner tubes for scratches, damage and excessive oil leakage. To check the operation 1. Place the vehicle on a level surface and hold it in an upright position.

**WARNING!** To avoid injury, securely support the vehicle so there is no danger of it falling over. [EWA10751] 2. While applying the front brake, push down hard on the handlebars several times to check if the front fork compresses and rebounds smoothly. **WARNING!** 1 ZAUM0667 1. Sidestand If the centerstand or sidestand does not move up and down smoothly, have a Yamaha dealer check or repair it. Otherwise, the centerstand or sidestand could contact the ground and distract the operator, resulting in a possible loss of control. Recommended lubricant: Lithium-soap-based grease 6 1 ZAUM0668 1. Centerstand 6-21 PERIODIC MAINTENANCE AND ADJUSTMENT EAU45511 EAU23290 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 the vehicle on the centerstand. **WARNING!** To avoid injury, securely support the vehicle so there is no danger of it falling over. [EWA10751] 2. Hold the lower ends of the front fork legs and try to move them forward and backward. If any free play can be felt, have a Yamaha dealer check or repair the steering.

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. ZAUM0669 ECA10590 NOTICE If any damage is found or the front fork does not operate smoothly, have a Yamaha dealer check or repair it. 6 ZAUM0670 6-22 PERIODIC MAINTENANCE AND ADJUSTMENT EAU23395 Battery 1 ZAUM0707 1. Battery 6 The battery is located behind panel A.

(See page 6-6.) This model is equipped with a VRLA (Valve Regulated Lead Acid) battery. There is no need to check the electrolyte or to add distilled water. However, the battery coupler needs to be checked and, if necessary, securely fastened. EWA10760 G G ways shield your eyes when working near batteries. In case of contact, administer the following FIRST AID.



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