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You can read the recommendations in the user guide, the technical guide or the installation guide for YAMAHA MAJESTY 400. You'll find the answers to all your questions on the YAMAHA MAJESTY 400 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual YAMAHA MAJESTY 400
User guide YAMAHA MAJESTY 400
Operating instructions YAMAHA MAJESTY 400
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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 YP400A, 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 YP400A. 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 EAU10200 YP400A OWNER'S

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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. G G 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). G G G 1-1 SAFETY INFORMATION G G G G G G 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.



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The passenger should always hold onto the operator, the seat strap or grab bar, if equipped, with both hands and keep both feet on the passenger footrests. Never carry a passenger unless he or she can firmly place both feet on the passenger footrests. Never ride under the influence of alcohol or other drugs. This scooter is designed for on-road use only. It is not suitable for off-road use. 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. G A passenger should also observe the above precautions. Avoid Carbon Monoxide Poisoning All engine exhaust contains carbon monoxide, a deadly gas. Breathing carbon monoxide can cause headaches, dizziness, drowsiness, nausea, confusion, and eventually death. Carbon Monoxide is a colorless, odorless, tasteless gas which may be present even if you do not see or smell any engine exhaust. Deadly levels of carbon monoxide can collect rapidly and you can quickly be overcome and unable to save yourself.

Also, deadly levels of carbon monoxide can linger for hours or days in enclosed or poorly ventilated areas. If you experience any symptoms of carbon monoxide poisoning, leave the area immediately, get fresh air, and SEEK MEDICAL TREATMENT. G Do not run engine indoors. Even if you try to ventilate engine exhaust with fans or open ously affect the stability of the scooter due to aerodynamic effects. Wind may attempt to lift the scooter, or the scooter may become unstable in cross winds.

These accessories may also cause instability when passing or being passed by large vehicles. Certain accessories can displace the operator from his or her normal riding position. This improper position limits the freedom of movement of the operator and may limit control ability, therefore, such accessories are not recommended. Use caution when adding electrical accessories. If electrical accessories exceed the capacity of the scooter's electrical system, an electric failure could result, which could cause a dangerous loss of lights or engine power.

G 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 co a new standard key is made or all keys are lost) the entire immobilizer system must be replaced. Therefore, it is highly recommended to use either standard key and keep the code 3-1 G G G G G re-registering key in a safe place. Do not submerge any key 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. Keep other immobilizer system keys away from the main switch INSTRUMENT AND CONTROL FUNCTIONS as they may cause signal interference. EAU10471 Main switch/steering lock 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 2 3 4 5 6 7 8 9 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 re-registering key (red bow), keep it in a safe place and only use it for code re-registering.

EAU34121 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. EAU10681 ON All electrical circuits are supplied with power; the meter lighting, taillight, license plate light and auxiliary lights 3-2 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 INSTRUMENT AND CONTROL FUNCTIONS 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. EAU10941 EAU11004 Indicator and warning lights 1 2 3 switched on. EAU43023 1 2 3 4 5 6 7 8 9 (Parking) The steering is locked, and the taillight, license plate light and auxiliary lights are on. The hazard lights and turn signal lights can be turned on, but all other electrical systems are off. The key can be removed. The steering must be locked before the key can be turned to " ". ECA11020 4 1. 2. 3.

4. 5. 5 Turn signal indicator lights " " and " " High beam indicator light " " Immobilizer system indicator light Engine trouble warning light " " Anti-lock Brake System (ABS) warning light " ABS " EAU11030 Engine trouble warning light " " This warning light comes on if an electrical circuit monitoring the engine is not working correctly. If this occurs, have a Yamaha dealer check the self-diagnosis system. The electrical circuit of the warning light can be checked by turning the key to "ON". The warning light should come on for a few seconds, and then go off. If the warning light does not come on initially when the key is turned to "ON", or if the warning light remains on, have a Yamaha dealer check the electrical circuit. TIP This warning light will come on when the key is turned to "ON" and the start switch is pushed, but this does not indicate a malfunction. NOTICE Do not use the parking position for an extended length of time, otherwise the battery may discharge. Turn signal indicator lights " " and "" The corresponding indicator light flashes when the turn signal switch is pushed to the left or right.



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EAU11080 High beam indicator light " " This indicator light comes on when the high beam of the headlight is 3-3 INSTRUMENT AND CONTROL FUNCTIONS EAU48050 ABS warning light " ABS " ECA10831 NOTICE If the ABS warning light comes on or flashes while riding, the ABS may not work correctly. If this occurs, have a Yamaha dealer check the electrical circuit. See page 3-13 for an explanation of the ABS. The electrical circuit of the warning light can be checked by setting the engine stop switch to " " and turning the key to "ON". The warning light should come on for a few seconds, and then go off. If the warning light does not come on initially when the key is turned to "ON", or if the warning light remains on, have a Yamaha dealer check the electrical circuit. EWA11350 TIP The ABS warning light may come on while accelerating the engine with the scooter on its centerstand, but this does not indicate a malfunction. EAU38623 nation of the self-diagnosis device.) 2 3 4 5 6 7 8 9 WARNING When the ABS warning light comes on or flashes while riding, the brake system reverts to conventional braking. Therefore, be careful not to cause the wheel to lock during emergency braking.

Immobilizer system indicator light The electrical circuit of the indicator light can be checked by turning the key to "ON". The indicator light should come on for a few seconds, and then go off. If the indicator light does not come on initially when the key is turned to "ON", or if the indicator light remains on, have a Yamaha dealer check the electrical circuit. When the key is turned to "OFF" and 30 seconds have passed, the indicator light will start flashing indicating the immobilizer system is enabled. After 24 hours have passed, the indicator light will stop flashing, however the immobilizer system is still enabled. This model is also equipped with a self-diagnosis device for the immobilizer system. (See page 3-8 for an expla3-4 INSTRUMENT AND CONTROL FUNCTIONS EAU11601 EAU11872 EAU3413A Speedometer 1 2 3 4 5 6 7 8 9 Tachometer 1 Multi-function display EWA12312 1 2 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.

1. Speedometer The speedometer shows the riding speed.

When the key is turned to "ON", the speedometer needle will sweep once across the speed range and then return to zero in order to test the electrical circuit.

1. Tachometer 2. Tachometer red zone The electric tachometer allows the rider to monitor the engine speed and keep it within the ideal power range. When the key is turned to "ON", the tachometer needle will sweep once across the r/min range and then return to zero r/min in order to test the electrical circuit.

ECA10031 1 2 3 4 5 6 1. 2. 3. 4. 5.

6. Clock/ambient temperature display Coolant temperature meter Fuel meter Odometer/tripmeters "SELECT" button "RESET" button NOTICE Do not operate the engine in the tachometer red zone. Red zone: 8250 r/min and above 3-5 INSTRUMENT AND CONTROL FUNCTIONS 1 2 3 4 G G G G G a self-diagnosis device a clock an ambient temperature display an oil change indicator a V-belt replacement indicator Be sure to turn the key to "ON" before using the "SELECT" and "RESET" buttons. When the key is turned to "ON", all of the display segments of the multi-function display will appear one after the other and then disappear, in order to test the electrical circuit. TIP G automatically change to the fuel reserve tripmeter mode "Trip F" and start counting the distance traveled from that point.

In that case, pushing the "SELECT" button switches the display between the various tripmeter and odometer modes in the following order: Trip F Trip (top) Trip (bottom) Odo Trip F 2 3 4 5 6 1. V-belt replacement indicator "V-BELT" 2. Fuel level warning indicator " " 3. Coolant temperature warning indicator "" 4. Oil change indicator "OIL" G The multi-function display is equipped with the following: G a fuel meter G a coolant temperature meter G an odometer G two tripmeters (which show the distance traveled since they were last set to zero) G a fuel reserve tripmeter (which shows the distance traveled since the bottom segment of the fuel meter and fuel level warning indicator started flashing) Odometer and tripmeter modes Pushing the "SELECT" button switches the display between the odometer mode "Odo" and the tripmeter modes "Trip" in the following order: Odo Trip (top) Trip (bottom) Odo When approximately 2. 8 L (0.74 US gal, 0.62 Imp.gal) of fuel remains in the fuel tank, the bottom segment of the fuel meter and fuel level warning indicator will start flashing, and the display will 3-6 1 7 1. Fuel reserve tripmeter To reset a tripmeter, select it by pushing the "SELECT" button until "Trip" or "Trip F" begins flashing ("Trip" or "Trip F" will only flash for five seconds). While "Trip" or "Trip F" is flashing, push the "RESET" button for at least one second. If you do not reset the fuel reserve tripmeter manually, it will reset it- 8 9 INSTRUMENT AND CONTROL FUNCTIONS self automatically and the display will return to the prior mode after refueling and traveling 5 km (3 mi). 1 2 3 4 5 6 7 8 9 TIP The display cannot be changed back to "Trip F" after pushing the "RESET" button.

Fuel meter With the key in the "ON" position, the fuel meter indicates the amount of fuel in the fuel tank. The display segments of the fuel meter disappear towards "E" (Empty) as the fuel level decreases.

When the fuel level reaches the bottom segment near "E", the fuel level warning indicator and the bottom segment will flash. Refuel as soon as possible.

Coolant temperature meter With the key in the "ON" position, the coolant temperature meter indicates the temperature of the coolant. The coolant temperature varies with changes in the weather and engine load. If the top segment and coolant temperature warning indicator flash, stop the vehicle and let the engine cool. (See page 6-37.) reset after the oil change for the next periodic oil change to be indicated at the correct time. (See page 6-12.) The electrical circuit of the indicator can be checked according to the following procedure. 1.

Set the engine stop switch to " " and turn the key to "ON". 2. Check that the indicator comes on for a few seconds and then goes off. 3. If the indicator does not come on, have a Yamaha dealer check the electrical circuit.

TIP The oil change indicator may flash when the engine is revved with the scooter on the centerstand, but this does not indicate a malfunction.



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V-belt replacement indicator "V-BELT" This indicator flashes every 20000 km (12500 mi) when the V-belt needs to be replaced. The electrical circuit of the indicator can be checked according to the following procedure. ECA10021 NOTICE Do not continue to operate the engine if it is overheating. Oil change indicator "OIL" This indicator flashes at the initial 1000 km (600 mi), then at 5000 km (3000 mi) and every 5000 km (3000 mi) thereafter to indicate that the engine oil should be changed.

After changing the engine oil, reset the oil change indicator. (See page 6-12.) 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 3-7 INSTRUMENT AND CONTROL FUNCTIONS 1. @2. If the indicator does not come on, have a Yamaha dealer check the electrical circuit. Self-diagnosis device This model is equipped with a self-diagnosis device for various electrical circuits. If a problem is detected in any of those circuits, the multi-function display will indicate an error code. If the multi-function display indicates an error code, note the code number, and then have a Yamaha dealer check the vehicle.

ECA11790 If a problem is detected in the immobilizer system circuits, the immobilizer system indicator light will flash and the multi-function display will indicate an error code when the key is turned to "ON". TIP If the multi-function display indicates error code 52, this could be caused by transponder interference. If this error appears, try the following. do not keep more than one immobilizer key on the same key ring! Immobilizer system keys may cause signal interference, which may prevent the engine from starting. 2. If the engine starts, turn it off, and try starting the engine with the standard keys. 3. If one or both of the standard keys do not start the engine, take the vehicle, the code re-registering key and both standard keys to a Yamaha dealer and have the standard keys re-registered. If the multi-function display indicates any error codes, note the code number, and then have a Yamaha dealer check the vehicle.

Clock mode 8 To set the clock: 1.

Push the "SELECT" button and "RESET" button together for at least two seconds. 2. When the hour digits start flashing, push the "RESET" button to set the hours. 2 3 4 5 6 7 NOTICE If the multi-function display indicates an error code, the vehicle should be checked as soon as possible in order to avoid engine damage. The self-diagnosis device also detects problems in the immobilizer system circuits.

1. Error code display 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 3-8 9 INSTRUMENT AND CONTROL FUNCTIONS 3. Push the "SELECT" button, and the minute digits will start flashing.

4. Push the "RESET" button to set the minutes. 5. Push the "SELECT" button and then release it to start the clock. Pushing the "SELECT" button for at least two seconds switches the clock display to the ambient temperature display. Ambient temperature display This display shows the ambient temperature from 10 °C to 50 °C in 1 °C increments. The temperature displayed may vary from the ambient temperature. Pushing the "SELECT" button for at least two seconds switches the ambient temperature display to the clock display. TIP G 1 2 3 4 5 6 7 8 9 reading may be affected when riding slowly (approximately under 20 km/h (12.5 mi/h)) or when stopped at traffic signals, railroad crossings, etc.

EAU12331 Anti-theft alarm (optional) This model can be equipped with an optional anti-theft alarm by a Yamaha dealer. Contact a Yamaha dealer for more information. G G If the ambient temperature falls below 10 °C, a lower temperature than 10 °C will not be displayed. If the ambient temperature climbs above 50 °C, a higher temperature than 50 °C will not be displayed. The accuracy of the temperature 3-9 INSTRUMENT AND CONTROL FUNCTIONS EAU12348 Handlebar switches Left Right 1 position. To cancel the turn signal lights, push the switch in after it has returned to the center position. EAU12500 1 2 2 3 3 4

1. 2. 3. 4.

Pass switch "PASS" Dimmer switch " / " Turn signal switch " / " Horn switch " " 1. Engine stop switch " 2. Hazard switch " " 3. Start switch " " / " Horn switch " " Press this switch to sound the horn. EAU12660 2 3 4 5 6 7 8 9 Engine stop switch " / " Set this switch to " " before starting the engine. Set this switch to " " to stop the engine in case of an emergency, such as when the vehicle overturns or when the throttle cable is stuck. EAU12360 EAU12721

Pass switch "PASS" Press this switch to flash the headlight. EAU12400 Dimmer switch " / " Set this switch to " " for the high beam and to " " for the low beam. EAU12460 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.

EAU42340 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 3-10 The engine trouble warning light and ABS warning light will come on when the key is turned to "ON" and the start switch is pushed, but this does not indicate a malfunction. EAU12733 EAU44910 Front brake lever 2 1 4 with the " ver. " mark on the front brake lever 1 2 3 4 5 6 7 8 9 Hazard switch " " With the key in the "ON" or " " position, use this switch to turn on the hazard lights (simultaneous flashing of all turn signal lights). The hazard lights are used in case of an emergency or to warn other drivers when your vehicle is stopped where it might be a traffic hazard. ECA10061 3 1. 2. 3. 4.

Front brake lever Brake lever position adjusting dial " " mark Distance between brake lever and handlebar grip NOTICE Do not use the hazard lights for an extended length of time with the engine not running, otherwise the battery may discharge. The front brake lever is located at the right handlebar grip. To apply the front brake, pull this lever toward the handlebar grip. The front brake lever is equipped with a position adjusting dial. To adjust the distance between the front brake lever and the handlebar grip, turn the adjusting dial while holding the front brake lever pushed away from the handlebar grip. Make sure that the appropriate setting on the adjusting dial is aligned 3-11 INSTRUMENT AND CONTROL FUNCTIONS EAU44921 Rear brake lever 1 4 2 with the " ver.



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" mark on the rear brake le- EAU12962 Rear brake lock lever 1 2 3 1. 2. 3. 4.

Rear brake lever Brake lever position adjusting dial " " mark Distance between brake lever and handlebar grip 1. Rear brake lock lever 3 4 5 6 7 8 9 The rear brake lever is located at the left handlebar grip. To apply the rear brake, pull this lever toward the handlebar grip. The rear brake lever is equipped with a position adjusting dial. To adjust the distance between the rear brake lever and the handlebar grip, turn the adjusting dial while holding the rear brake lever pushed away from the handlebar grip.

Make sure that the appropriate setting on the adjusting dial is aligned 3-12 This vehicle is equipped with a rear brake lock lever to prevent the rear wheel from moving while stopped at traffic signals, railroad crossings, etc. To lock the rear wheel Push the rear brake lock lever to the left until it snaps into place. To unlock the rear wheel Push the rear brake lock lever back to the original position. TIP G Be sure to check that the rear wheel does not move when the INSTRUMENT AND CONTROL FUNCTIONS G 1 2 3 4 5 6 rear brake lock lever is applied. To provide secure locking of the rear wheel, apply the rear brake lever first before moving the rear brake lock lever to the left.

EWA12361 EAU48040 ABS The Yamaha ABS (Anti-lock Brake System) features a dual electronic control system, which acts on the front and rear brakes independently. The ABS securely controls wheel lockup during emergency braking on changing road surfaces and under various weather conditions, thereby maximizing tire adhesion and performance while providing a smooth braking action. The ABS is monitored by an ECU, which will have recourse to manual braking if a malfunction occurs. EWA10090 WARNING Never move the rear brake lock lever to the left while the vehicle is moving, otherwise loss of control or an accident may result. Make sure that the vehicle is stopped before moving the rear brake lock lever to the left. G G G 7 8 9 G WARNING The ABS performs best on long braking distances. On certain (rough or gravel) roads, the braking distance may be longer with than without the ABS. Therefore, always keep a sufficient distance to the vehicle ahead to match the riding speed. The ABS performs a self-diagno3-13 sis test for a few seconds each time the vehicle first starts off after the main switch was turned on. During this test, a "clicking" noise can be heard from the front of the vehicle, and if either brake lever is even slightly applied, a vibration can be felt at the lever, but these do not indicate a malfunction.

When the ABS is activated, the brakes are operated in the usual way. A pulsating action may be felt at the brake levers, but this does not indicate a malfunction. This ABS has a test mode which allows the owner to experience the pulsating at the brake levers when the ABS is operating. However, special tools are required, so please consult your Yamaha dealer when performing this test. ECA16120 TIP G NOTICE Keep any type of magnets (including magnetic pick-up tools, magnetic screwdrivers, etc.) away from the front and rear wheel hubs, otherwise the magnetic rotors equipped in the INSTRUMENT AND CONTROL FUNCTIONS wheel hubs may be damaged, resulting in improper performance of the ABS system. EAU13163 Fuel tank cap To open the fuel tank cap 1. Open the lid by sliding the lever forward, and then pull the lever up. 2 1 1 2 1. Front wheel hub 1 3 1.

Fuel tank cap 4 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. 5 6 7 1. Lid 2. Opening lever 1 2.

Insert the key into the lock and turn it clockwise. The lock will be released and the fuel tank cap can be removed. 1 8 9 1. Rear wheel hub 1. Match marks 2. Turn the key counterclockwise to 3-14 INSTRUMENT AND CONTROL FUNCTIONS the original position, and then remove it. 3. Close the lid. EWA11121 EAU13221 Fuel Make sure there is sufficient gasoline in the tank. EWA10881 1 2 3 4 5 6 7 8 9 WARNING Be sure that the fuel tank cap is properly installed and locked before riding the scooter. Leaking fuel is a fire hazard. WARNING Gasoline and gasoline vapors are extremely flammable. To avoid fires and explosions and to reduce the risk of injury when refueling, follow these instructions. 1. Before refueling, turn off the engine and be sure that no one is sitting on the vehicle.

Never refuel while smoking, or while in the vicinity of sparks, open flames, or other sources of ignition such as the pilot lights of water heaters and clothes dryers. 2. Do not overfill the fuel tank. When refueling, be sure to insert the pump nozzle into the fuel tank filler hole. Stop filling when the fuel reaches the bottom of the filler tube. Because fuel expands when it heats up, heat from the engine or the sun can cause fuel to spill out of the fuel tank. 3-15 1 2 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 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 INSTRUMENT AND CONTROL FUNCTIONS your eyes, see your doctor immediately. If gasoline spills on your skin, wash with soap and water. If gasoline spills on your clothing, change your clothes. EAU33520 and reduce maintenance costs.

EWA13445 Catalytic converters This vehicle is equipped with catalytic converters in the exhaust system. EWA10862 Recommended fuel: REGULAR UNLEADED GASOLINE ONLY Fuel tank capacity: 14.0 L (3.70 US gal, 3.08 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 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 3-16 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. ECA10701 2 3 4 5 6 7 8 9 NOTICE Use only unleaded gasoline. The use of leaded gasoline will cause unre- INSTRUMENT AND CONTROL FUNCTIONS pairable damage to the catalytic converter.



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EAU34140 Seats 1 2 1 1 2 3 1. Open. 4 5 1.

Rider seat 2. Passenger seat TIP Do not push inward when turning the key. 3. Fold the rider seat up. Rider seat 6 7 8 9 To open the rider seat 1. Place the scooter on the centerstand. 2. Insert the key into the main switch, and then turn it counterclockwise. 1 1. Rider seat 3-17 INSTRUMENT AND CONTROL FUNCTIONS To close the rider seat 1.

Fold the rider 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. TIP Make sure that the rider seat is properly secured before riding. Passenger seat 1. Rider seat To install the passenger seat 1. Insert the projections on the passenger seat into the holders as shown, place the passenger seat in the original position, and then install the bolt. EAU34150 Adjusting the rider seat 1 1 2 2 3 4 5 6 7 8 9 To remove the passenger seat 1. Open the rider seat. 2.

Remove the bolt, and then pull the passenger seat forward. 2 1. Passenger seat 2. Seat holder 1 2 The rider seat can be adjusted as follows to change the riding position. 1. Open the rider seat. (See page 3-17.) 2. Remove the bolts. 2.

Close the rider seat. TIP Make sure that the passenger seat is properly secured before riding. 1. Passenger seat 2. Bolt 3-18 INSTRUMENT AND CONTROL FUNCTIONS EAU14494 Storage compartments 1 2 Front storage compartment A To open the storage compartment when it is locked, insert the key in the lock, turn it counterclockwise, and then grasp the lock while pushing the button in.

To open the storage compartment when it is unlocked, simply grasp the lock while pushing the button in. 1 1 3 1. Bolt 1 2 1. Lock. 2.

Lid 4 5 6 7 8 9 3. Slide the rider seat forward or backward to the desired position. 4. Install bolts and securely tighten them. 5. Close the rider seat. 2 1 Front storage compartment B To open the storage compartment, slide the lever up, and then pull on the lever. 3 1. Open. 2.

Button 3. Lid 1 To lock the storage compartment, push the lid into the original position, insert the key in the lock, turn it clockwise, and then remove it. 3-19 2 1. Storage compartment opening lever 2. Lid INSTRUMENT AND CONTROL FUNCTIONS To close the storage compartment, push the lid into the original position. WARNING! Do not store heavy items in this compartment.[EWA11161] Rear storage compartment Two helmets can be stored in the storage compartment under the seats. (See page 3-17.) G G 1 G anything susceptible to heat inside it. To avoid humidity from spreading through the storage compartment, wrap wet articles in a plastic bag before storing them in the compartment.

Since the storage compartment may get wet while the scooter is being washed, wrap any articles stored in the compartment in a plastic bag. Do not keep anything valuable or breakable in the storage compartment. ECA11100 G G Rear storage compartment: 5 kg (11 lb) Maximum load for the vehicle: 185 kg (408 lb) 2 3 4 5 6 7 8 9 1. Rider seat ECA10080 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 NOTICE Do not leave the rider seat open for an extended period of time, otherwise the light may cause the battery to discharge.

EWA11171 WARNING Do not exceed the following loading limits: G Front storage compartment A: 2 kg (4 lb) 3-20 INSTRUMENT AND CONTROL FUNCTIONS EAU14891 Adjusting the shock absorber assemblies 1 2 3 4 5 6 7 8 9 1. Spring preload adjusting ring 2. Position indicator 3. Spring preload adjusting tool 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). G Align the appropriate notch in the adjusting ring with the position indicator on the shock absorber. G Use the spring preload adjusting tool included in the owner's tool kit to make this adjustment. Spring preload setting: Minimum (soft): 1 Standard: 2 Maximum (hard): 5 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 vehicle upright. TIP The built-in sidestand switch is part of the ignition circuit cut-off system, which cuts the ignition in certain situations. (See further down for an explanation of the ignition circuit cut-off system.) EWA10240 1 2 5 4 3 2 1 (b) (a) 3 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.

EWA10210 WARNING Always adjust both shock absorber assemblies equally, otherwise poor 3-21 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 re- INSTRUMENT AND CONTROL FUNCTIONS pair 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. 2 3 4 5 6 7 8 9 3-22 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. 1 2 3 4 5 6 7 8 9 NO YES The sidestand switch may not be working correctly.

The scooter should not be ridden until checked by a Yamaha dealer. 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.



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ITEM Front brake lever pivot shaft Rear brake lever pivot shaft Sidestand, centerstand Sidestand switch Front fork Shock absorber assemblies Engine oil G
CHECK OR MAINTENANCE JOB 1000 km (600 mi) 10000 km (6000 mi) 20000 km (12000 mi) 30000 km (18000 mi) 40000 km (24000 mi) ANNUAL
CHECK 12 13 14 15 * 16 * 17 * G Lubricate with silicone grease. Lubricate with silicone grease.

Check operation. Lubricate. Check operation. Check operation and for oil leakage. Check operation and shock absorbers for oil leakage. Change. (See pages 3-5 and 6-12.) Check oil level and vehicle for oil leakage. Replace. Check coolant level and vehicle for coolant leakage.

Change. Check vehicle for oil leakage. Change. Replace. Check operation.

Lubricate. G G G G G 2 3 4 5 G G When the oil change indicator flashes Every 5000 km (3000 mi) 18 19 20 * 21 22 * 23 * 24 Engine oil filter element Cooling system G 6 7 8 9 G G Final transmission oil V-belt Front and rear brake switches Moving parts and cables G G G Every 3 years When the V-belt replacement indicator flashes [every 20000 km (12000 mi)] G G 6-5 PERIODIC MAINTENANCE AND ADJUSTMENT ODOMETER READING NO. ITEM CHECK OR MAINTENANCE JOB Check operation and free play. Adjust the throttle cable free play if necessary. Lubricate the throttle grip housing and cable.

Check operation. Adjust headlight beam. 1000 km (600 mi) 10000 km (6000 mi) 20000 km (12000 mi) 30000 km (18000 mi) 40000 km (24000 mi) ANNUAL CHECK 1 25 * G Throttle grip housing and cable Lights, signals and switches G 2 26 * G G EAU34491 3 4 TIP 5 6 7 8 9 G G Engine air filters and V-belt air filter This model's engine air filters are equipped with disposable oil-coated paper elements, which must not be cleaned with compressed air to avoid damaging them. The engine air filter elements need to be replaced and the V-belt air filter element needs to be serviced more frequently when riding in unusually wet or dusty areas. Hydraulic brake service Regularly check and, if necessary, correct the brake fluid level. Every two years replace the internal components of the brake master cylinders and calipers, and change the brake fluid. Replace the brake hoses every four years and if cracked or damaged. G G G G 6-6 PERIODIC MAINTENANCE AND ADJUSTMENT EAU18712 Removing and installing cowlings and panels The cowlings and panels shown need to be removed to perform some of the maintenance jobs described in this chapter. Refer to this section each time a cowling or panel needs to be removed and installed. 1 1 2 2 3 1.

Cowling D EAU34282 1 23 1. Quick fastener 2. Cowling A 4 5 6 7 8 9 Cowling A 5 1. 2. 3. 4. 5. Cowling C Cowling A Cowling B Panel A Cowling E 4 To remove the cowling 1. Open the rider seat. (See page 3-17.

) 2. Remove the quick fasteners in the rear storage compartment, and then pull the cowling off as shown. TIP The quick fastener is removed by pushing the center pin in with a screwdriver, and then pulling the fastener out. To install the cowling 1. @@@@2.

@@Remove the screws. @@Cowlings C and D 1 1 To remove one of the cowlings 1. Remove cowlings A and B. 2. Remove the passenger seat.

(See page 3-17.) 3. Remove the grab bar by removing the grab bar bolts and collars. 1. Screw access cover 2 5 6 7 8 9 1. Grab bar bolt 2. Collar 3. Grab bar 1. Cowling B 2. Screw 1 2 1 2 5.

@@Remove the cowling as shown. 1 1. Screw 1 1. Cowling B 4. @@@@3. @@Left floorboard mat 1. Cowling E 1 3 2. Remove the cowling screws. 4 To install the cowling 1. @5 6 7 4.

Install the passenger seat. 5. Install cowlings A and B. Cowling E To remove the cowling 1. Pull up the left floorboard mats as shown.

1. Screw 1 8 9 3. @@Projection 1 2. Place the left floorboard mats in the original position. 6-9 PERIODIC MAINTENANCE AND ADJUSTMENT EAU47890 EAU34172 Panel A To remove the panel Remove the screws, and then pull the panel outward.

Checking the spark plug 2 The spark plug is an important engine component, which is easy to check. Since heat and deposits will cause any spark plug to slowly erode, the spark plug should be removed and checked in accordance with the periodic maintenance and lubrication chart. In addition, the condition of the spark plug can reveal the condition of the engine. To remove the spark plug 1. Open the rider seat. (See page 3-17.) 2. Pull up the storage compartment mat, and then remove the spark plug cover by removing the screws. 1 2 3 4 5 6 7 8 9 1 1 1. Screw 2.

Panel A 2 1. Panel A 2. Screw To install the panel Place the panel in the original position, and then install the screws. 6-10 PERIODIC MAINTENANCE AND ADJUSTMENT it if necessary. 2 3 1 1 Specified spark plug: NGK/CR7E To install the spark plug 1. Measure the spark plug gap with a wire thickness gauge and, if necessary, adjust the gap to specification. 1. Spark plug wrench 2 3 4 1. Storage compartment mat 2. Spark plug cover 3.

Screw 3. Remove the spark plug cap. To check the spark plug 1. Check that the porcelain insulator around the center electrode of the spark plug is a medium-to-light tan (the ideal color when the vehicle is ridden normally). TIP 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. 2. Check the spark plug for electrode erosion and excessive carbon or other deposits, and replace 6-11 5 1 6 7 1 1. Spark plug gap 8 Spark plug gap: 0.

70.8 mm (0.0280.031 in) 9 1. Spark plug cap 4. Remove the spark plug as shown, with the spark plug wrench included in the owner's tool kit. 2. Clean the surface of the spark plug gasket and its mating surface, and then wipe off any grime from the spark plug threads. PERIODIC MAINTENANCE AND ADJUSTMENT 3. Install the spark plug with the spark plug wrench, and then tighten it to the specified torque.

1 2 3 4 5 6 7 8 9 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. 4. Install the spark plug cap. TIP Make sure the spark plug wire is fastened in the clamp as shown. Tightening torque: Spark plug: 12.5 Nm (1.25 m·kgf, 9 ft·lbf) EAU34184 1 Engine oil and oil filter element The engine oil level should be checked before each ride. In addition, the oil must be changed and the oil filter element replaced at the intervals specified in the periodic maintenance and lubrication chart and when the oil change indicator comes on. To check the engine oil level 1.

Place the vehicle on the centerstand. A slight tilt to the side can result in a false reading.



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2. Start the engine, warm it up for several minutes, and then turn it off. 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. TIP The engine oil should be between the minimum and maximum level marks. 2 1. Spark plug cap 2. Spark plug wire clamp 5.

Install the spark plug cover by installing the screws. 6. Place the storage compartment mat in the original position. 7. Close the rider seat. 6-12 PERIODIC MAINTENANCE AND ADJUSTMENT 1 1 2 3 4 1. 2. 3. 4. Engine oil filler cap Dipstick Maximum level mark Minimum level mark 1.

Engine oil drain bolt 1. Engine oil drain bolt 2. Washer 2. Place an oil pan under the engine to collect the used oil. 3. Remove the engine oil filler cap and the engine oil drain bolt to drain the oil from the crankcase. 2 1 1 2 3 4 5 6 7 8 9 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 hole, and then tighten the oil filler cap.

To change the engine oil (with or without oil filter element replacement) 1. Start the engine, warm it up for several minutes, and then turn it off. TIP Skip steps 57 if the oil filter element is not being replaced. 5. Remove the oil filter element cover by removing the bolts.

NOTICE: When removing the oil filter element cover, the compression spring will fall out. Take care not to lose the compression spring.[ECA12911] 4. Check the washer for damage and replace it if necessary. 6-13 PERIODIC MAINTENANCE AND ADJUSTMENT 1 1 2 Tightening torque: Oil filter element cover bolt: 10 Nm (1.

0 m·kgf, 7.2 ft·lbf) 7. Install the compression spring and oil filter element cover by installing the bolts, then tightening them to the specified torque. Recommended engine oil: See page 8-1. Oil quantity: Without oil filter element replacement: 1.50 L (1.59 US qt, 1.32 Imp.qt) With oil filter element replacement: 1.70 L (1.

80 US qt, 1.50 Imp.qt) 2 3 4 5 6 7 8 9 1. 2. 3. 4. Oil filter element cover O-ring Compression spring Oil filter element 1. Bolt 2. Oil filter element cover TIP Make sure that the O-rings are properly seated. 8.

Install the washer and the engine oil drain bolt, and then tighten the drain bolt to the specified torque. Tightening torque: Engine oil drain bolt: 20 Nm (2.0 m·kgf, 14.5 ft·lbf) TIP Be sure to wipe off spilled oil on any parts after the engine and exhaust system have cooled down. ECA11670 6.

Remove and replace the oil filter element and O-rings. 1 2 3 4 TIP Make sure that the washer is properly seated. 9. Refill with the specified amount of the recommended engine oil, and then install and tighten the oil filler cap. NOTICE 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. G Be sure no foreign material enters the crankcase. 10. 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. 6-14 PERIODIC MAINTENANCE AND ADJUSTMENT 11. Reset the oil change indicator according to the following procedure. To reset the oil change indicator 1. Turn the key to "ON". 2.

Hold the "OIL CHANGE" button pushed for two to eight seconds. the correct time. To reset the oil change indicator before the periodic oil change interval has been reached, follow the above procedure, but note that the indicator will come on for 1.4 seconds after releasing the "OIL CHANGE" button, otherwise repeat the procedure. 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.

2 3 4 5 6 7 8 9 1 1. "OIL CHANGE" button 3. Release the "OIL CHANGE" button, and the oil change indicator will go off. TIP 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 6-15 PERIODIC MAINTENANCE AND ADJUSTMENT EAU20070 1 1 2 3 4 5 6 7 8 9 1. Final transmission oil filler cap 2. Final transmission oil drain bolt 2 Recommended final transmission oil: See page 8-1. Oil quantity: 0.25 L (0.26 US qt, 0.22 Imp.qt) 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. EAU34193 7.

Check the final transmission case for oil leakage. If oil is leaking, check for the cause. To check the coolant level 1. Place the vehicle on a level surface and hold it in an upright position. TIP G 5. Install the final transmission oil drain bolt, and then tighten it to the specified torque. Tightening torque: Final transmission oil drain bolt: 20 Nm (2.0 m·kgf, 14.5 ft·lbf) G 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] 6-16 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. A slight tilt to the side can result in a false reading.

2. Pull up the right floorboard mat as shown. PERIODIC MAINTENANCE AND ADJUSTMENT 1 TIP The coolant should be between the minimum and maximum level marks. 5. If the coolant is at or below the minimum level mark, open the coolant reservoir cap, add coolant to the maximum level mark, and then close the coolant reservoir cap.

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, otherwise the cooling system will not be protected against frost and corrosion.



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