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You can read the recommendations in the user guide, the technical guide or the installation guide for YAMAHA YZ85. You'll find the answers to all your questions on the YAMAHA YZ85 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual YAMAHA YZ85
User guide YAMAHA YZ85
Operating instructions YAMAHA YZ85
Instructions for use YAMAHA YZ85
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Manual abstract:

AN IMPORTANT SAFETY MESSAGE: G READ THIS MANUAL COMPLETELY BEFORE OPERATING YOUR MOTORCYCLE. MAKE SURE YOU UNDERSTAND ALL INSTRUCTIONS. G PAY CLOSE ATTENTION TO THE WARNING AND CAUTION LABELS ON THE MOTORCYCLE. G NEVER OPERATE A MOTORCYCLE WITHOUT PROPER TRAINING OR INSTRUCTION. AN IMPORTANT NOTE TO PARENTS: This motorcycle is not a toy.

Before you let your child ride this motorcycle, you should understand the instructions and warnings in this Owner's Manual. Then be sure your child understands and will follow them. Children differ in skills, physical abilities, and judgment. Some children may not be able to operate a motorcycle safely.

@@@MOTORCYCLES ARE SINGLE TRACK VEHICLES.

@@@HE OR SHE SHOULD: G OBTAIN THOROUGH INSTRUCTIONS FROM A COMPETENT SOURCE ON ALL ASPECTS OF MOTORCYCLE OPERATION. G OBSERVE THE WARNINGS AND MAINTENANCE REQUIREMENTS IN THE OWNER'S MANUAL. G OBTAIN QUALIFIED TRAINING IN SAFE AND PROPER RIDING TECHNIQUES. G OBTAIN PROFESSIONAL TECHNICAL SERVICE AS INDICATED BY THE OWNER'S MANUAL AND/OR WHEN MADE NECESSARY BY MECHANICAL CONDITIONS. IMPORTANT MANUAL INFORMATION EAU41090 Particularly important information is distinguished in this manual by the following notations: The Safety Alert Symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED! Failure to follow WARNING instructions could result in severe injury or death to the motorcycle operator, a bystander or a person inspecting or repairing the motorcycle.

A CAUTION indicates special precautions that must be taken to avoid damage to the motorcycle. A NOTE provides key information to make procedures easier or clearer. WARNING CAUTION: NOTE: NOTE: G This manual should be considered a permanent part of this motorcycle and should remain with it even if the motorcycle is subsequently sold. G Yamaha continually seeks advancements in product design and quality. Therefore, while this manual contains the most current product information available at the time of printing, there may be minor discrepancies between your motorcycle and this manual.

If you have any questions concerning this manual, please consult your Yamaha dealer. EWA10030 WARNING PLEASE READ THIS MANUAL CAREFULLY AND COMPLETELY BEFORE OPERATING THIS MOTORCYCLE. IMPORTANT MANUAL INFORMATION EWA14350 WARNING THIS MOTORCYCLE IS DESIGNED AND MANUFACTURED FOR OFF-ROAD USE ONLY. IT IS ILLEGAL TO OPERATE THIS MOTORCYCLE ON ANY PUBLIC STREET, ROAD OR HIGHWAY. SUCH USE IS PROHIBITED BY LAW. THIS MOTORCYCLE COMPLIES WITH ALMOST ALL STATE OFF-HIGHWAY NOISE LEVEL AND SPARK ARRESTER LAWS AND REGULATIONS. PLEASE CHECK YOUR LOCAL RIDING LAWS AND REGULATIONS BEFORE OPERATING THIS MOTORCYCLE. *Product and specifications are subject to change without notice. IMPORTANT MANUAL INFORMATION EAU10200 YZ85(X)/YZ85LW(X) OWNER'S MANUAL ©2007 by Yamaha Motor Co., Ltd.

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.....
.....
...1-1 Safe riding

.....
.....
.....

..1-1 Location of important labels
...1-4 DESCRIPTION ..

.....
.....

..2-1 Left view ...

.....
.....

.....2-1 Right view .

.....
.....

.....2-2 Controls and instruments .

.....
.....

.....2-3 INSTRUMENT AND CONTROL FUNCTIONS

.....
.....
.....

....3-1 Handlebar switch

.....
.....
.....

..3-1 Clutch lever

.....
.....
.....

.....3-1 Shift pedal ..

.....
.....
.....

.....
.....

.3-1 Brake lever

.....
.....
.....

...3-2 Brake pedal

.....
.....
.....

.....3-2 Fuel tank cap .

.....
.....
.....
.....

...3-3 Fuel

.....
.....
.....

.....
.....
.....

.3-3 Fuel tank breather hose

.....3-5 Fuel cock ..

.....
.....
.....

.....
.....

...3-5 Starter (choke) knob ..

.....
.....
.....

.3-6 Kickstarter

.....
.....
.....

.....
.....

....3-6 Seat .

.....
.....

.....

.....

.....

6-2 Checking the spark plug

.....

. 6-8 Transmission oil

.....

.....

.....

6-9 Coolant

.....

.....

.....

.....

6-10 Cleaning the air filter element

. 6-12 Adjusting the carburetor

.....

. 6-14 Adjusting the engine idling speed

.....

.....

.....

.....

. 6-14 Adjusting the throttle cable free play

.....

.....

.....

.....

.....

.... 6-15 Tires

.....

.....

.....

.....

..... 6-15 Spoke wheels .

.....

.....

.....

..... 6-17 Accessories and replacement parts .

.....

.....

.....

.....

.....

.....

6-17 Adjusting the clutch lever free play

.....

.....

.....

.....

... 6-18 Checking the front brake lever free play

.....

.....

.....

They become very hot and can cause burns. Always wear protective clothing that covers your legs, ankles, and feet.

1 Protective apparel The majority of fatalities from motorcycle accidents are the result of head injuries. The use of a safety helmet is the single most critical factor in the prevention or reduction of head injuries. G Always wear an approved helmet. Modifications Modifications made to this motorcycle not approved by Yamaha, or the removal of original equipment, may render the motorcycle unsafe for use and may cause severe personal injury. Modifications may also make your motorcycle illegal to use. 1-1 SAFETY INFORMATION Loading and accessories Adding accessories to your motorcycle can adversely affect stability and handling if the weight distribution of the motorcycle is changed. To avoid the possibility of an accident, use extreme caution when adding accessories to your motorcycle. Use extra care when riding a motorcycle that has added accessories. Here are some general guidelines to follow if adding accessories to your motorcycle: Loading G Accessory weight should be kept as low and close to the motorcycle as possible. Make sure to distribute the weight as evenly as possible on both sides of the motorcycle to minimize imbalance or instability.

G Shifting weights can create a sudden imbalance. Make sure that accessories are securely attached to the motorcycle before riding. Check accessory mounts frequently. G Never attach any large or heavy items to the handlebar, front fork, or front fender. Accessories Genuine Yamaha accessories have been specifically designed for use on this motorcycle. Since Yamaha cannot test all other accessories that may be available, you must personally be responsible for the proper selection, installation and use of non-Yamaha accessories. Use extreme caution when selecting and installing any accessories. Keep these guidelines in mind for mounting accessories in addition to those provided under "Loading". G Never install accessories or that would impair the performance of your motorcycle. Carefully inspect the accessory before using it to make sure that it does not in any way reduce ground clearance or cornering clearance, limit suspension travel, steering travel or control operation.

Accessories fitted to the handlebar or the front fork area can create instability due to improper weight distribution or aerodynamic changes. If accessories are added to the handlebar or 1-2 1 G front fork area, they must be as lightweight as possible réglée comme suit. AVANT : 100kPa, {1.00kgf/cm²}, 15psi ARRIERE : 100kPa, {1.00kgf/cm²}, 15psi 3RV-21668-B0 7 AVERTISSEMENT LIRE LE MANUEL DU PROPRIETAIRE ANSI QUE TOUTES LES ETIQUETTES AVANT D'UTILISER CE VEHICULE.

NE JAMAIS TRANSPORTER DE PASSAGER. La conduite avec passager augmente les risques de perte de contrôle. NE JAMAIS ROULER SUR DES CHEMINS PUBLICS. Vous pourriez entrer en collision avec un autre véhicule. TOUJOURS PORTER UN CASQUE DE MOTOCYCLISTE APPROUVE, des lunettes et des vêtements de protection.

EXCLUSIVEMENT POUR L'USAGE D'UN CONDUCTEUR EXPERIMENTE. 5PA-2118K-10 1-6 SAFETY INFORMATION For Europe 3 9 1 10 8 Before you operate this vehicle, read the owner's manual. Prima di usare ias follows. 1. Loosen the locknut. 3-2 INSTRUMENT AND CONTROL FUNCTIONS EAU13181 EAU41831 Fuel tank cap Fuel This motorcycle has been designed to use a premixed fuel of gasoline and 2stroke engine oil. Always mix the gasoline and oil in a clean container before filling the fuel tank. ECA15601 3 CAUTION: Always use fresh gasoline, and fill the fuel tank with a fresh mix just before riding. Do not use premixed fuel that is more than a few hours old. Mixing gasoline and 2-stroke engine oil Pour 2-stroke engine oil into a clean container, and then add gasoline.

To mix the fuel thoroughly, shake the container from side to side. 1. 2-stroke engine oil 2. Gasoline 3. Container 1. Fuel tank cap To remove the fuel tank cap, turn it counterclockwise, and then pull it off. To install the fuel tank cap, insert it into the tank opening, and then turn it clockwise. EWA11090 WARNING Make sure that the fuel tank cap is properly closed before riding. Recommended fuel: Premium unleaded gasoline only Recommended 2-stroke engine oil: See page 8-1. Fuel tank capacity: 5.

0 L (1.32 US gal) (1.10 Imp.gal) Mixing ratios (gasoline to oil): Break-in period: 15:1 After break-in: 30:1 ECA15590 CAUTION: Use only unleaded gasoline. The use of leaded gasoline will cause severe damage to internal engine parts, such as the piston rings as well as to the exhaust system.

3-3 INSTRUMENT AND CONTROL FUNCTIONS Your Yamaha engine has been designed to use premium unleaded gasoline with a pump octane number [(R+M)/2] of 91 or higher, or a research octane number of 95 or higher. If knocking (or pinging) occurs, use a gasoline of a different brand. If the recommended 2-stroke engine oil is not available, use an equivalent oil. ECA15551 Filling the fuel tank ECA10070 CAUTION: Immediately wipe off spilled fuel with a clean, dry, soft cloth, since fuel may deteriorate painted surfaces or plastic parts. 3 CAUTION: Never mix two brands of 2-stroke engine oil in the same batch.

Always use the same type of oil to ensure maximum engine performance. Should it be necessary to use a different oil brand, be sure to drain the fuel tank and the carburetor float chamber of the old premixed fuel prior to filling with the new type. 1. Fuel level 2. Fuel tank filler tube Make sure that there is sufficient fuel in the tank. Fill the fuel tank to the bottom of the filler tube as shown. EWA10880 WARNING G G Do not overfill the fuel tank, otherwise it may overflow when the fuel warms up and expands. Avoid spilling fuel on the hot engine. 3-4 INSTRUMENT AND CONTROL FUNCTIONS EAU41360 EAU41280 Fuel tank breather hose Fuel cock The fuel cock supplies fuel from the tank to the carburetor while filtering it also. The fuel cock has two positions: OFF ON 3 1.

Arrow mark positioned over "ON" 1. Fuel tank breather hose 2. One-way valve Before operating the motorcycle: G Check the fuel tank breather hose connection. G Check the fuel tank breather hose for cracks or damage, and replace it if damaged. G Make sure that the end of the fuel tank breather hose is not blocked, and clean it if necessary. NOTE: If the fuel tank breather hose falls out, reinstall it on the fuel tank cap with the arrow mark on the one-way valve pointed downward as shown. With the lever in this position, fuel flows to the carburetor. Normal riding is done with the lever in this position. 1. Arrow mark positioned over "OFF" With the lever in this position, fuel will not flow.

Always return the lever to this position when the engine is not running. 3-5 INSTRUMENT AND CONTROL FUNCTIONS EAU13640 EAU13650 EAU13960 Starter (choke) knob Kickstarter Seat To remove the seat Remove the bolts, and then pull the seat off.



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3 1. Starter (choke) knob 1. Kickstarter lever Starting a cold engine requires a richer air-fuel mixture, which is supplied by the starter (choke). Move the knob in direction (a) to turn on the starter (choke). Move the knob in direction (b) to turn off the starter (choke). To start the engine, fold out the kickstarter lever, move it down lightly with your foot until the gears engage, and then push it down smoothly but forcefully. This model is equipped with a primary kickstarter, allowing the engine to be started in any gear if the clutch is disengaged. However, shifting the transmission into the neutral position before starting is recommended.

1. Bolt To install the seat 1. Insert the projections on the front of the seat into the seat holders as shown. 3-6 INSTRUMENT AND CONTROL FUNCTIONS EAU41470 Adjusting the front fork This front fork is equipped with rebound damping force adjusting screws and compression damping force adjusting screws. EWA10180 soften the rebound damping, turn the adjusting screw on each fork leg in direction (b). Rebound damping setting: Minimum (soft): 20 click(s) in direction (b)* Standard: 7 click(s) in direction (b)* Maximum (hard): 1 click(s) in direction (b)* * With the adjusting screw fully turned in direction (a) WARNING 3 1. Projection 2. Seat holder Always adjust both fork legs equally, otherwise poor handling and loss of stability may result. Rebound damping force 2. Place the seat in the original position, and then tighten the bolts.

NOTE: Make sure that the seat is properly secured before riding. Compression damping force 1. Rebound damping force adjusting screw To increase the rebound damping force and thereby harden the rebound damping, turn the adjusting screw on each fork leg in direction (a). To decrease the rebound damping force and thereby 3-7 1. Rubber cap 2. Compression damping force adjusting screw 1. Remove the rubber cap by pulling it out of the front fork leg.

INSTRUMENT AND CONTROL FUNCTIONS 2. To increase the compression damping force and thereby harden the compression damping, turn the adjusting screw on each fork leg in direction (a). To decrease the compression damping force and thereby soften the compression damping, turn the adjusting screw on each fork leg in direction (b).

Compression damping setting: Minimum (soft): 20 click(s) in direction (b)* Standard: YZ85(X): 10 click(s) in direction (b)* YZ85LW(X): 9 click(s) in direction (b)* Maximum (hard): 1 click(s) in direction (b)* * With the adjusting screw fully turned in direction (a) EAU14790 NOTE: Although the total number of clicks of a damping force adjusting mechanism may not exactly match the above specifications due to small differences in production, the actual number of clicks always represents the entire adjusting range. To obtain a precise adjustment, it would be advisable to check the number of clicks of each damping force adjusting mechanism and to modify the specifications as necessary. Front fork bleeding 3 1. Bleed screw When riding in extremely rough conditions, the air temperature and pressure in the front fork will rise. This will increase the spring preload and harden the front suspension. If this occurs, bleed the front fork as follows. 1. Elevate the front wheel by placing a suitable stand under the engine. NOTE: When bleeding the front fork,

there should be no weight on the front end of the vehicle. 2.

Remove the bleed screws and allow all of the air to escape from each fork leg. 3-8 3. Install the rubber cap. ECA10100 CAUTION: Never attempt to turn an adjusting mechanism beyond the maximum or minimum settings. INSTRUMENT AND CONTROL FUNCTIONS EWA10200 EAU41330 WARNING Always bleed both fork legs, otherwise poor handling and loss of stability may result. 3. Install the bleed screws. 3 Adjusting the shock absorber assembly This shock absorber assembly is equipped with a spring preload adjusting nut, a rebound damping force adjusting screw and a compression damping force adjusting screw. ECA10100 2. To increase the spring preload and thereby harden the suspension, turn the adjusting nut in direction (a).

To decrease the spring preload and thereby soften the suspension, turn the adjusting nut in direction (b). NOTE: G A special wrench can be obtained at a Yamaha dealer to make this adjustment. G The spring preload setting is determined by measuring distance A, shown in the illustration. The longer distance A is, the lower the spring preload; the shorter distance A is, the higher the spring preload. With each complete turn of the adjusting nut, distance A is changed by 1.5 mm (0.06 in). CAUTION: Never attempt to turn an adjusting mechanism beyond the maximum or minimum settings. Spring preload Adjust the spring preload as follows. 1.

Loosen the locknut. 1. Locknut 2. Spring preload adjusting nut 3-9 INSTRUMENT AND CONTROL FUNCTIONS ECA10120 CAUTION: Always tighten the locknut against the adjusting nut, and then tighten the locknut to the specified torque. Rebound damping force To increase the rebound damping force and thereby harden the rebound damping, turn the adjusting screw in direction (a).

To decrease the rebound damping force and thereby soften the rebound damping, turn the adjusting screw in direction (b). 1. Distance A Spring preload: Minimum (soft): Distance A = 218.5 mm (8.60 in) Standard: YZ85(X) Distance A = 215.

0 mm (8.46 in) For Europe only: Distance A = 212.0 mm (8.35 in) Standard: YZ85LW(X) Distance A = 207.0 mm (8.15 in) For Europe only: Distance A = 212.0 mm (8.35 in) Maximum (hard): Distance A = 202.5 mm (7.97 in) Rebound damping setting: Minimum (soft): 20 click(s) in direction (b)* Standard: YZ85(X) 6 click(s) in direction (b)* For Europe only: 12 click(s) in direction (b)* Standard: YZ85LW(X) 7 click(s) in direction (b)* For Europe

only: 12 click(s) in direction (b)* Maximum (hard): 1 click(s) in direction (b)* * With the adjusting screw fully turned in direction (a) 3 Compression damping force To increase the compression damping force and thereby harden the compression damping, turn the adjusting screw in direction (a).

To decrease the compression damping force and thereby soften the compression damping, turn the adjusting screw in direction (b). 1. Rebound damping force adjusting screw 3. Tighten the locknut to the specified torque. Tightening torque: Locknut: 35 Nm (3.5 m·kgf, 25 ft·lbf) 3-10 INSTRUMENT AND CONTROL FUNCTIONS ifications due to small differences in production, the actual number of clicks always represents the entire adjusting range. To obtain a precise adjustment, it would be advisable to check the number of clicks of each damping force adjusting mechanism and to modify the specifications as necessary.

EWA10220 G G Do not deform or damage the gas cylinder in any way, as this will result in poor damping performance. Always have a Yamaha dealer service the shock absorber. 3 1.

Compression damping force adjusting screw WARNING This shock absorber contains highly pressurized nitrogen gas.



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For proper handling, read and understand the following information before handling the shock absorber. The manufacturer cannot be held responsible for property damage or personal injury that may result from improper handling. G Do not tamper with or attempt to open the gas cylinder. G Do not subject the shock absorber to an open flame or other high heat sources, otherwise it may explode due to excessive gas pressure.

Compression damping setting: Minimum (soft): 20 click(s) in direction (b)* Standard: YZ85(X) 9 click(s) in direction (b)* For Europe only: 12 click(s) in direction (b)* Standard: YZ85LW(X) 7 click(s) in direction (b)* For Europe only: 12 click(s) in direction (b)* Maximum (hard): 1 click(s) in direction (b)*

With the adjusting screw fully turned in direction (a) NOTE: Although the total number of clicks of a damping force adjusting mechanism may not exactly match the above spec- 3-11 INSTRUMENT AND CONTROL FUNCTIONS EAU41381 Removable sidestand 3 1. Sidestand This motorcycle is equipped with a removable sidestand. NOTE: Make sure that the sidestand is properly secured when the motorcycle is being supported or is being transported. EWA14601

WARNING G G Never apply force on the motorcycle while it is on the sidestand. Always remove the sidestand before starting out.

3-12 PRE-OPERATION CHECKS EAU15593 The condition of a vehicle is the owner's responsibility. Vital components can start to deteriorate quickly and unexpectedly, even if the vehicle remains unused (for example, as a result of exposure to the elements). Any damage, fluid leakage or loss of tire air pressure could have serious consequences. Therefore, it is very important, in addition to a thorough visual inspection, to check the following points before each ride.

NOTE: Pre-operation checks should be made each time the vehicle is used. Such an inspection can be accomplished in a very short time; and the added safety it assures is more than worth the time involved. 4 EWA11150 WARNING If any item in the Pre-operation check list is not working properly, have it inspected and repaired before operating the vehicle. 4-1 PRE-OPERATION CHECKS EAU15605 Pre-operation check list ITEM Fuel CHECKS · Check fuel level in fuel tank. · Always use a fresh mixture of gasoline and oil. · Check fuel line for leakage.

· Check oil level in transmission case. · If necessary, add recommended oil to specified level. · Check coolant level. · If necessary, add recommended coolant to specified level. · Check cooling system for leakage. · Check operation. If soft or spongy, have Yamaha dealer bleed hydraulic system.

Check brake pads for wear. Replace if necessary. Check fluid level in reservoir.

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

Replace if necessary. Check fluid level in reservoir. If necessary, add recommended brake fluid to specified level. Check hydraulic system for leakage. Check operation.

Lubricate cable if necessary. Check lever free play. Adjust if necessary. PAGE 3-3 Transmission oil 6-9 Coolant 6-10 4 Front brake 6-19, 6-20 Rear brake 6-19, 6-20 Clutch 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. 4-2 6-15, 6-23 PRE-OPERATION CHECKS ITEM · Check chain slack. Adjust if necessary. Check chain condition. Lubricate if necessary.

Check for damage. Check tire condition and tread depth. Check air pressure. Correct if necessary. Check for loose spokes and tighten if necessary. CHECKS PAGE Drive chain 6-21, 6-22 Wheels and tires 6-15, 6-17 4 Shift pedal Brake pedal Steering Front fork and rear shock absorber assembly Chassis fasteners · Make sure that operation is smooth. · Correct if necessary. · Make sure that operation is smooth. · Lubricate pedal pivoting point if necessary. · Check that the handlebar can be turned smoothly and has no excessive play.

· Check that they operate smoothly and there is no oil leakage. · Make sure that all nuts, bolts and screws are properly tightened. · Tighten if necessary. · Check that the control cables move smoothly. · Check that the control cables are not caught when the handlebars are turned or when the front forks travel up and down.

· Lubricate moving parts and cables if necessary. · Check that the exhaust pipe is tightly mounted and has no cracks. · Check for leakage. · Check that all leads and cables are properly connected. 6-24 6-24 6-26 3-7, 3-8, 3-9, 6-25 -- Moving parts and cables 6-23, 6-24, 6-25, 6-25 Exhaust system Ignition system -- 6-8 4-3 OPERATION AND IMPORTANT RIDING POINTS EAU41400 EAU41301 EAU16660 EWA14610 WARNING G Starting and warming up a cold engine 1.

Turn the fuel cock lever to "ON". 2. Shift the transmission into the neutral position. 3. Turn the starter (choke) on and completely close the throttle. (See page 3-6.) 4. Start the engine by pushing the kickstarter lever down. ECA11130 Starting a warm engine Follow the same procedure as for starting a cold engine with the exception that the starter (choke) is not required when the engine is warm. Instead, start the engine with the throttle slightly open.

NOTE: If the engine does not start after several kicks, try again with the throttle 1/4 to 1/2 open. 5 G G This model is designed for offroad use only. Become thoroughly familiar with all operating controls and their functions before riding. Consult a Yamaha dealer regarding any control or function that you do not thoroughly understand. Never start the engine or operate it in a closed area for any length of time. Exhaust fumes are poisonous, and inhaling them can cause loss of consciousness and death within a short time. Always make sure that there is adequate ventilation. Before starting out, make sure that the sidestand is removed. If the sidestand is not removed, it will contact the ground, which could distract the operator or affect the balance of the motorcycle, resulting in a possible loss of control. CAUTION: For maximum engine life, always warm the engine up before starting off.

Never accelerate hard when the engine is cold! 5. When the engine is warm, turn the starter (choke) off. NOTE: The engine is warm when it responds normally to the throttle with the starter (choke) turned off. 5-1 OPERATION AND IMPORTANT RIDING POINTS EAU16671 ECA10260 Shifting CAUTION: G 5 1.



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Shift pedal 2.

Neutral position G Shifting gears lets you control the amount of engine power available for starting off, accelerating, climbing hills, etc. The gear positions are shown in the illustration. NOTE: To shift the transmission into the neutral position, press the shift pedal down repeatedly until it reaches the end of its travel, and then slightly raise it. Even with the transmission in the neutral position, do not coast for long periods of time with the engine off, and do not tow the motorcycle for long distances. The transmission is properly lubricated only when the engine is running.

Inadequate lubrication may damage the transmission. Always use the clutch while changing gears to avoid damaging the engine, transmission, and drive train, which are not designed to withstand the shock of forced shifting. EAU16690 4. Once the motorcycle has reached a speed high enough to change gears, close the throttle, and at the same time, quickly pull the clutch lever in. 5. Shift the transmission into second gear. (Make sure not to shift the transmission into the neutral position.) 6. Open the throttle halfway and gradually release the clutch lever. 7.

Follow the same procedure when shifting to the next gear. EAU16710 To start out and accelerate 1. Pull the clutch lever to disengage the clutch. 2. Shift the transmission into first gear. 3. Open the throttle gradually and simultaneously release the clutch lever slowly. 5-2 To decelerate 1. Close the throttle and apply both the front and the rear brakes to slow the motorcycle. 2.

Downshift through the gears and shift the transmission into the neutral position when the motorcycle is almost completely stopped. OPERATION AND IMPORTANT RIDING POINTS EAU41502 Engine break-in 1. Before starting the engine, fill the fuel tank with a break-in oil-fuel mixture as follows.

Recommended 2-stroke engine oil: See page 8-1. Mixing ratio (gasoline to oil): 15:1 2.

Start and warm up the engine. Check the operation of the controls and the engine stop button. (See page 3-1.) 3. Operate the motorcycle in the lower gears at moderate throttle openings for five to eight minutes.

Stop the engine and check the spark plug condition (see page 6-8); it will show a rich condition during break-in. 4. Allow the engine to cool. Restart the engine and operate the motorcycle as in the step above for five minutes. Then, very briefly shift to the higher gears and check the full-throttle response. Stop the engine and check the spark plug. 5. After again allowing the engine to cool, restart and run the motorcycle for five more minutes. Full throttle and the higher gears may be used, but sustained full-throttle operation should be avoided. Stop the engine and check the spark plug again.

6. Allow the engine to cool, remove the cylinder head and cylinder, and inspect the piston and cylinder. Remove any high spots on the piston with #600-grit wet sandpaper. Clean all components and carefully reassemble the cylinder head and cylinder. EWA10320 plug condition. Restart the motorcycle and ride it for about 10 to 15 more minutes. The motorcycle will now be ready to ride normally. After the engine break-in period, thoroughly check the motorcycle for loose parts, oil leakage and any other problems. Be sure to inspect and make adjustments thoroughly, especially cable and drive chain slack and loose spokes.

In addition, check all fittings and fasteners for looseness, and tighten if necessary.

ECA15560 5 CAUTION: G WARNING If you are not familiar with maintenance work, have a Yamaha dealer do it for you. 7. Drain the break-in oil-fuel mixture from the fuel tank and refill with the specified mix. (See page 3-3.) 8.

Start the engine and check the operation of the motorcycle throughout its entire operating range. Stop the engine and check the spark 5-3 When any of the following parts have been replaced, they must be broken in. Cylinder or crankshaft: About one hour of break-in operation is necessary. Piston, rings or transmission gears: These parts require about 30 minutes of break-in operation at half-throttle or less. Observe the condition of the engine carefully during operation.

OPERATION AND IMPORTANT RIDING POINTS G If any engine trouble should occur during the engine break-in period, immediately have a Yamaha dealer check the vehicle. EAU17190 Parking When parking, stop the engine, and then turn the fuel cock lever to "OFF". EWA10310 WARNING G G 5 Since the engine and exhaust system can become very hot, park in a place where pedestrians or children are not likely to touch them. Do not park on a slope or on soft ground, otherwise the vehicle may overturn. 5-4 PERIODIC MAINTENANCE AND MINOR REPAIR EAU17240 Safety is an obligation of the owner.

Periodic inspection, adjustment and lubrication will keep your vehicle in the safest and most efficient condition possible. The most important points of inspection, adjustment, and lubrication are explained on the following pages. The intervals given in the periodic maintenance and lubrication chart should be simply considered as a general guide under normal riding conditions. However, DEPENDING ON THE WEATHER, TERRAIN, GEOGRAPHICAL LOCATION, AND INDIVIDUAL USE, THE MAINTENANCE INTERVALS MAY NEED TO BE SHORTENED. EWA10320 6 WARNING If you are not familiar with maintenance work, have a Yamaha dealer do it for you.

6-1 PERIODIC MAINTENANCE AND MINOR REPAIR EAU41795 Periodic maintenance and lubrication chart The following chart is intended as a general guide to maintenance and lubrication. Bear in mind that such factors as weather, terrain, geographical location, and individual usage will alter the required maintenance and lubrication intervals. If you are in doubt as to what intervals to follow in maintaining and lubricating your motorcycle, consult your Yamaha dealer. NOTE: G From the seventh race, repeat the maintenance intervals starting from "Every race". G Items marked with an asterisk should be performed by a Yamaha dealer as they require special tools, data and technical skills. NO. ITEM ROUTINE · Check piston for carbon deposits and cracks or damage. ·

Clean. · Replace. 2 * Piston rings Piston pin and small end bearing · Check piston ring end gap and rings for damage.

· Replace. · Check piston pin and small end bearing for damage. · Replace. · Check cylinder head for carbon deposits. · Clean.

4 * Cylinder head · Check cylinder head gasket for damage. · Tighten cylinder head bolts if necessary. · Replace cylinder head gasket. @@ ITEM ROUTINE · Check cylinder for score marks or wear. · Clean.

· Replace. @@ · Adjust. · Replace. · Change the transmission oil. 7 * Transmission · Check transmission for damage. · Replace bearings. @@ · Replace if necessary. · Tighten. · Check idle gear for damage. · Replace if necessary.

· Check exhaust pipe and muffler for carbon deposits.



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· Clean. · Check crankshaft for carbon deposits and damage. · Clean. @@ITEM ROUTINE · Check carburetor settings and for obstructions. · Adjust and clean. · Check condition. · Clean and regap. · Replace. · Check chain slack, alignment and condition.

@@ · Replace. · Check coolant level and for leakage. 16 * Cooling system · Check hoses for cracks or damage. · Check radiator cap spring operation. · Change coolant.

17 * Chassis fasteners 18 * Air filter element · Replace. 19 * Frame 20 * Fuel line · Clean and check for damage. · Clean and check for leakage. · Check all chassis fitting and fasteners. · Correct or tighten if necessary.

· Clean. @@@@Lubricate pivot points. Check brake disk surface. Check fluid level and for leakage. @@@@ · Replace brake fluid. · Check operation and for oil leakage. · Adjust if necessary. @@ · Replace fork oil. · Replace oil seals. · Check operation and adjust.

· Tighten if necessary. @@ Every year 22 * Front fork 6 (After washing the motorcycle or riding in the rain) 6-5 PERIODIC MAINTENANCE AND MINOR REPAIR NO. ITEM Drive chain roller and support guide ROUTINE · Check for wear or damage. · Replace if necessary. · Check operation and tighten if necessary. · Lubricate with lithium-soap-based grease. · Check operation, free play, and tighten if necessary. @@ · Replace bearings. @@ · Tighten sprocket bolts if necessary. 27 * Tires and wheels · Check wheel bearings for looseness.

· Lubricate wheel bearings with lithium-soap-based grease. · Replace wheel bearings. @@ · Check operation and free play. · Adjust the throttle cable free play if necessary. · Lubricate the throttle grip housing and cable.

@@@@@@@@To remove the spark plug 1. Remove the spark plug cap. 6 2. @@Spark plug wrench To check the spark plug 1. @@@@Do not attempt to diagnose such problems yourself.

@@@@Spark plug gap 1. Spark plug cap 2. @@@@3. @@@@@@1. @@2. @@3. Place an oil pan under the transmission to collect the used oil. 4. @@Oil filler cap 2. @@@@4.

Install the spark plug cap. 5. Install the transmission oil drain bolt, and then tighten it to the specified torque. 6 Tightening torque: Transmission oil drain bolt: 10 Nm (1.0 m·kgf, 7.2 ft·lbf) 6. Add the specified amount of the recommended transmission oil, and then install and tighten the oil filler cap. Recommended transmission oil: See page 8-1. Oil change quantity: 0.50 L (0.53 US qt) (0.44 Imp.qt) 6-9 PERIODIC MAINTENANCE AND MINOR REPAIR ECA10452 EAU20070 CAUTION: G 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. EAUM1292 G In order to prevent clutch slippage (since the transmission oil also lubricates the clutch), do not mix any chemical additives. Do not use oils with a diesel specification of "CD" or oils of a higher quality than specified. In addition, do not use oils labeled "ENERGY CONSERVING II" or higher. Make sure that no foreign material enters the transmission. To check the coolant level 1. Place the vehicle on a level surface and hold it in an upright position.

EWA10380 1. Radiator cap WARNING Never attempt to remove the radiator cap when the engine is hot. 2. Remove the radiator cap and check the coolant level in the radiator. 6 7. Start the engine, and then let it idle for several minutes while checking the transmission for oil leakage. If oil is leaking, immediately turn the engine off and check for the cause. NOTE: G The coolant level must be checked on a cold engine since the level varies with engine temperature. G Make sure that the vehicle is positioned straight up when checking the coolant level. A slight tilt to the side can result in a false reading.

NOTE: The coolant should be at the bottom of the radiator filler neck. The level will change with variation of engine temperature. 6-10 PERIODIC MAINTENANCE AND MINOR REPAIR EWA10380 WARNING Never attempt to remove the radiator cap when the engine is hot. 3. Remove the coolant drain bolt and then the radiator cap to drain the cooling system. 4. After the coolant is completely drained, thoroughly flush the cooling system with clean tap water. 5. Install the coolant drain bolt, and then tighten it to the specified torque. NOTE: Check the washer for damage and replace it if necessary. Tightening torque: Coolant drain bolt: 10 Nm (1.0 m·kgf, 7.2 ft·lbf) 1. Correct coolant level 3. @@@@Pour the recommended coolant into the radiator until it is full.

1. Coolant drain bolt 6 To change the coolant 1. @@2. @@@@@@@@@@@@Start the engine, and then check the vehicle for coolant leakage. @@@@1. Remove the seat. (See page 3-6.) 2. Remove the air filter case cover as shown. 7. @@8. Remove the radiator cap to check the coolant level in the radiator. If necessary, add sufficient coolant until it reaches the bottom of the radiator filler neck, and then install the radiator cap. 6-12 1. Air filter case cover PERIODIC MAINTENANCE AND MINOR REPAIR NOTE: The sponge material should be wet but not dripping.

Recommended oil: Yamaha foam air filter oil or other quality foam air filter oil 3. Remove the air filter element by removing the wing bolt and washer. 1. Sponge material 2. Air filter element frame 5. Clean the sponge material with solvent, and then squeeze the remaining solvent out. 7. Pull the sponge material over the air filter element frame. 8. Insert the air filter element into the air filter case with the projection facing upward, and then install the washer and wing bolt.

6 1. Wing bolt 2. Washer 3. Sponge material 4. Remove the sponge material from the air filter element frame.

6. Apply oil of the recommended type to the entire surface of the sponge material, and then squeeze the excess oil out. 6-13 1. Sponge material 2. Projection PERIODIC MAINTENANCE AND MINOR REPAIR ECA10480 EAU39930 EAU44390 CAUTION: G Adjusting the carburetor The carburetor is an important part of the engine and requires very sophisticated adjustment.

Therefore, most carburetor adjustments should be left to a Yamaha dealer, who has the necessary professional knowledge and experience. The adjustment described in the following section, however, may be serviced by the owner as part of routine maintenance. ECA10550 G Make sure that the air filter element is properly seated in the air filter case. The engine should never be operated without the air filter element installed, otherwise the piston(s) and/or cylinder(s) may become excessively worn. Adjusting the engine idling speed The engine idling speed must be adjusted when necessary. 1. Start the engine and thoroughly warm it up. 2. Turn the throttle stop screw until the engine runs at the lowest possible speed.



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To increase the engine idling speed, turn the throttle stop screw in direction (a). To decrease the engine idling speed, turn the throttle stop screw in direction (b). 9. Install the air filter case cover in the original position as shown. CAUTION: 6 The carburetor has been set and extensively tested at the Yamaha factory. Changing these settings without sufficient technical knowledge may result in poor performance of or damage to the engine. 10. Install the seat. 1. Throttle stop screw 6-14 PERIODIC MAINTENANCE AND MINOR REPAIR EAU21370 Adjusting the throttle cable free play 2.

To increase the throttle cable free play, turn the adjusting nut in direction (a). To decrease the throttle cable free play, turn the adjusting nut in direction (b). EAU41820 Tires To maximize the performance, durability, and safe operation of your motorcycle, note the following points regarding the specified tires. Tire air pressure The tire air pressure should be checked and, if necessary, adjusted before each ride. EWA14380 WARNING 1.

Throttle cable free play G 1. Locknut 2. Throttle cable free play adjusting nut 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, adjust it as follows. NOTE: The engine idling speed must be correctly adjusted before checking and adjusting the throttle cable free play. 1. Loosen the locknut. 3. Tighten the locknut. 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 weight of the rider, the riding speed, and the riding conditions. 6 Standard tire air pressure: Front: 100 kPa (15 psi) (1.00 kgf/cm²) Rear: 100 kPa (15 psi) (1.00 kgf/cm²) 6-15 PERIODIC MAINTENANCE AND MINOR REPAIR Tire inspection 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): 4.0 mm (0.16 in)

Front tire: Size: YZ85 70/100-17 40M YZ85LW 70/100-19 42M YZ85LWX 70/100-19 42M YZ85X 70/100-17 40M Manufacturer/model: YZ85 DUNLOP/D739FA (ZAF) YZ85 DUNLOP/D756F (AUT)(BEL)(CHE)(DEU)(DNK)(ES P)(FIN)(FRA)(GBR)(GRC)(IRL)(N LD)(NOR)(PRT)(SWE) YZ85LW DUNLOP/D756F YZ85LWX DUNLOP/D756F YZ85X DUNLOP/D756F Rear tire: Size: YZ85 90/100-14 49M YZ85LW 90/100-16 52M YZ85LWX 90/100-16 52M YZ85X 90/100-14 49M Manufacturer/model: DUNLOP/D756 EWA14390 2 1 1. Tire sidewall 2. Tire tread depth Tire information This motorcycle is equipped with spoke wheels and tube tires.

EWA10460 The tires must be checked before each ride. 6 ECA15580 WARNING G CAUTION: G G Be sure the bead stoppers are tightened. Loose bead stoppers will cause the tire to slip off the rim if tire pressure is too low. Be sure the valve stem is positioned straight. A tilted valve stem indicates that the tire has slipped from its original position on the rim.

Rotate the tire so that the valve stem is positioned straight. G The front and rear tires should be of the same make and design, otherwise the handling characteristics of the vehicle cannot be guaranteed. After extensive tests, only the tires listed below have been approved for this model by Yamaha Motor Co., Ltd. WARNING G Have a Yamaha dealer replace excessively worn tires.

Operating the motorcycle with excessively worn tires decreases riding stability and can lead to loss of control. 6-16 PERIODIC MAINTENANCE AND MINOR REPAIR G G The replacement of all wheel and brake-related parts, including the tires, should be left to a Yamaha dealer, who has the necessary professional knowledge and experience. It is not recommended to patch a punctured tube. If unavoidable, however, patch the tube very carefully and replace it as soon as possible with a high quality product. EAU21940 EAU40431 Spoke wheels To maximize the performance, durability, and safe operation of your motorcycle, note the following points regarding the specified wheels. G The wheel rims should be checked for cracks, bends or warpage, and the spokes for looseness or damage 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. Accessories and replacement parts EWA14481 WARNING The accessories or replacement parts you choose for your vehicle should be designed specifically for this model, and they must be securely mounted to maintain the inherent stability of the original design. Genuine Yamaha Parts and Accessories are designed and tested to be compatible with your vehicle. Yamaha recommends the use of Genuine Yamaha Parts and Accessories before making a purchase. Use of non-Yamaha-approved accessories or replacement parts may cause loss of handling stability and riding safety. Since Yamaha cannot control the quality of accessories or parts manufactured by other companies, Yamaha cannot be held liable for any consequences caused by the use of items which have not been approved by Yamaha. 6 6-17 PERIODIC

MAINTENANCE AND MINOR REPAIR EAU22031 Adjusting the clutch lever free play 3. If the specified clutch lever free play could be obtained as described above, tighten the locknut and skip the rest of the procedure, otherwise, proceed as follows. 4.

Fully turn the adjusting bolt in direction (a) to loosen the clutch cable. 5. Loosen the locknut further down the clutch cable. EAU37911 Checking the front brake lever free play 1. Clutch lever free play 2.

Locknut (clutch lever) 3. Adjusting bolt 1. Brake lever free play 6 The clutch lever free play should measure 10.015.0 mm (0.

390.59 in) as shown. Periodically check the clutch lever free play and, if necessary, adjust it as follows. 1. Loosen the locknut at the clutch lever. 2. To increase the clutch lever free play, turn the adjusting bolt in direction (a). To decrease the clutch lever free play, turn the adjusting bolt in direction (b). There should be no free play at the brake lever end. If there is free play, have a Yamaha dealer inspect the brake system.

EWA14210 WARNING 1. Locknut (clutch cable) 2. Adjusting nut 6. To increase the clutch lever free play, turn the adjusting nut in direction (a). To decrease the clutch lever free play, turn the adjusting nut in direction (b). 7. Tighten both locknuts. 6-18 A soft or spongy feeling in the brake lever can indicate the presence of air in the hydraulic system.



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If there is air in the hydraulic system, have a Yamaha dealer bleed the system before operating the motorcycle. Air in the hydraulic system will diminish PERIODIC MAINTENANCE AND MINOR REPAIR the braking performance, which may result in loss of control and an accident.

EAU22311 Checking the front and rear brake pads Front brake 1. Brake pad wear indicator The front and rear brake pads must be checked for wear at the intervals specified in the periodic maintenance and lubrication chart. Each brake pad is provided with a wear indicator, which allows you to check the brake pad wear without having to disassemble the brake. To check the brake pad wear, check the position of the wear indicator while applying the brake. If a brake pad has worn to the point that the wear indicator almost touches the brake disc, have a Yamaha dealer replace the brake pads as a set.

6 Rear brake 1. Brake pad wear indicator 6-19 PERIODIC MAINTENANCE AND MINOR REPAIR EAU22580 Checking the brake fluid level Front brake 1. Minimum level mark Rear brake 6 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 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. 1. Minimum level mark Refill with the same type of brake fluid.

Mixing fluids may result in a harmful chemical reaction and lead to poor braking performance. Insufficient brake fluid may allow air to enter the brake system, possibly causing it to become ineffective. 6-20 PERIODIC MAINTENANCE AND MINOR REPAIR EAU22730 EAU22760 Changing the brake fluid Have a Yamaha dealer change the brake fluid at the intervals specified in the NOTE after the periodic maintenance and lubrication chart. In addition, have the oil seals of the master cylinders and calipers as well as the brake hoses replaced at the intervals listed below or whenever they are damaged or leaking. G Oil seals: Replace every two years. G Brake hoses: Replace every four years. Drive chain slack The drive chain slack should be checked before each ride and adjusted if necessary. EAU41410 To check the drive chain slack 1. Install the removable sidestand and place the motorcycle on it. NOTE: When checking and adjusting the drive chain slack, there should be no weight on the motorcycle.

2. Shift the transmission into the neutral position. 3. Move the rear wheel by pushing the motorcycle to locate the tightest portion of the drive chain, and then measure the drive chain slack as shown. Drive chain slack: 35.045.0 mm (1.381.77 in) 1. Drive chain slack 4.

If the drive chain slack is incorrect, adjust it as follows. EAU41480 To adjust the drive chain slack 1. Loosen the axle nut and the locknut on each side of the swingarm. 2. To tighten the drive chain, turn the adjusting bolt on each side of the swingarm in direction (a). To loosen the drive chain, turn the adjusting bolt on each side of the swingarm in direction (b), and then push the rear wheel forward. 6 6-21 PERIODIC MAINTENANCE AND MINOR REPAIR NOTE: Using the alignment marks on each chain puller, make sure that both chain pullers are in the same position for proper wheel alignment. 3. Tighten both locknuts and the axle nut to the specified torques. Tightening torques: Locknut: 16 Nm (1.

6 m·kgf, 11 ft·lbf) Axle nut: 90 Nm (9.0 m·kgf, 65 ft·lbf) EAU23013 Cleaning and lubricating the drive chain The drive chain must be cleaned and lubricated at the intervals specified in the periodic maintenance and lubrication chart, otherwise it will quickly wear out, especially when riding in dusty or wet areas. Service the drive chain as follows. ECA10581 CAUTION: The drive chain must be lubricated after washing the motorcycle and riding in the rain. 6 1. 2. 3. 4.

Axle nut Locknut Drive chain slack adjusting bolt Alignment marks ECA10570 1. Remove all dirt and mud from the drive chain with a brush or cloth. NOTE: For a thorough cleaning, have a Yamaha dealer remove the drive chain and soak it in solvent. 2. Spray Yamaha Chain and Cable Lube or a high-quality spray-type drive chain lubricant on both sides and on the middle of the chain, CAUTION: Improper drive chain slack will overload the engine as well as other vital parts of the motorcycle and can lead to chain slippage or breakage. To prevent this from occurring, keep the drive chain slack within the specified limits. 6-22 PERIODIC MAINTENANCE AND MINOR REPAIR making sure that all side plates and rollers have been sufficiently oiled.

EAU41840 EAU23111 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. Recommended lubricant: Yamaha Chain and Cable Lube or engine oil SAE 10W-30 (API SE) EWA10710 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. WARNING Damage to the outer housing of cables may result in internal rusting and cause interference with cable movement. Replace damaged cables as soon as possible to prevent unsafe conditions. 6 6-23 PERIODIC MAINTENANCE AND MINOR REPAIR EAU44400 EAU23141

Checking and lubricating the brake and shift pedals Checking and lubricating the brake and clutch levers Brake lever Recommended lubricants: Brake lever: Silicone grease Clutch lever: Lithium-soap-based grease (allpurpose grease) 6 The operation of the brake and shift pedals should be checked before each ride, and the pedal pivots should be lubricated if necessary. Recommended lubricants: Brake pedal: Silicone grease Clutch lever The operation of the brake and clutch levers should be checked before each ride, and the lever pivots should be lubricated if necessary. 6-24 PERIODIC MAINTENANCE AND MINOR REPAIR EAU1650 EAU23250 EAU23271 Lubricating the swingarm pivots Lubricating the rear suspension 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.



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To check the condition EWA10750 WARNING Securely support the vehicle so that there is no danger of it falling over. The swingarm pivots must be lubricated at the intervals specified in the periodic maintenance and lubrication chart. Recommended lubricant: Lithium-soap-based grease The pivoting points of the rear suspension must be lubricated at the intervals specified in the periodic maintenance and lubrication chart. Recommended lubricant: Lithium-soap-based grease 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.

2. While applying the front brake, push down hard on the handlebars several times to check if the front fork compresses and rebounds smoothly. 6 6-25 PERIODIC MAINTENANCE AND MINOR REPAIR EAU23280 Checking the steering Worn or loose steering bearings may cause danger. Therefore, the operation of the steering must be checked as follows at the intervals specified in the periodic maintenance and lubrication chart. 1. Place a stand under the engine to raise the front wheel off the ground. EWA10750 ECA10590 CAUTION: If any damage is found or the front fork does not operate smoothly, have a Yamaha dealer check or repair it. WARNING Securely support the vehicle so that there is no danger of it falling over. 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. 6 6-26 PERIODIC MAINTENANCE AND MINOR REPAIR EAU23290 EAU24350 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. Supporting the motorcycle Since this model is not equipped with a centerstand, follow these precautions when removing the front and rear wheel or performing other maintenance requiring the motorcycle to stand upright. Check that the motorcycle is in a stable and level position before starting any maintenance.

A strong wooden box can be placed under the engine for added stability. To service the front wheel 1. Stabilize the rear of the motorcycle by using a motorcycle stand or, if an additional motorcycle stand is not available, by placing a jack under the frame in front of the rear wheel. 2. Raise the front wheel off the ground by using a motorcycle stand.

To service the rear wheel Raise the rear wheel off the ground by using a motorcycle stand or, if a motorcycle stand is not available, by placing 6-27 a jack either under each side of the frame in front of the rear wheel or under each side of the swingarm. 6 PERIODIC MAINTENANCE AND MINOR REPAIR EAU24360 Front wheel EAU41340 4. Pull the wheel axle out, and then remove the wheel. EAU25080 Rear wheel EAU41311 To remove the front wheel EWA10820 To remove the rear wheel EWA10820 WARNING G G WARNING G G It is advisable to have a Yamaha dealer service the wheel. Securely support the motorcycle so that there is no danger of it falling over. 1. Wheel axle EAU41420 It is advisable to have a Yamaha dealer service the wheel. Securely support the motorcycle so that there is no danger of it falling over. 1. Loosen the axle nut.

6 1. Washer 2. Axle nut To install the front wheel 1. Lift the wheel up between the fork legs. 2. Insert the wheel axle from the right side. 3. Lower the front wheel so that it is on the ground. 4. Install the washer and axle nut, and then tighten the axle nut to the specified torque.

Tightening torque: Axle nut: 70 Nm (7.0 m·kgf, 50 ft·lbf) 1. Loosen the axle nut. 2. Lift the rear wheel off the ground according to the procedure on page 6-27. 3. Loosen the locknut and drive chain adjusting bolt on each side of the swingarm. 4. Remove the axle nut and washer. 2.

Lift the front wheel off the ground according to the procedure on page 6-27. 3. Remove the axle nut and washer. 6-28 PERIODIC MAINTENANCE AND MINOR REPAIR 6. While supporting the brake caliper and slightly lifting the wheel, pull the wheel axle out. EAU41322 To install the rear wheel 1. Install the wheel and the brake caliper bracket by inserting the wheel axle from the right-hand side. NOTE: G Make sure that the slot in the brake caliper bracket is fit over the retainer on the swingarm. G Make sure that there is enough space between the brake pads before installing the wheel. 1.

2. 3. 4. Axle nut Washer Locknut Drive chain slack adjusting bolt 1. Wheel axle 5. Push the wheel forward, and then remove the drive chain from the rear sprocket. NOTE: G If the drive chain is difficult to remove, remove the wheel axle first, and then lift the wheel upward enough to remove the drive chain from the rear sprocket. G The drive chain does not need to be disassembled in order to remove and install the rear wheel. NOTE: A rubber mallet may be useful to tap the wheel axle out. 7.

Remove the wheel. ECA11070 6 CAUTION: Do not apply the brake after the wheel has been removed together with the brake disc, otherwise the brake pads will be forced shut. 1. Retainer 2. Slot 2.

Install the drive chain onto the rear sprocket. 6-29 PERIODIC MAINTENANCE AND MINOR REPAIR 3. Install the washer and axle nut, and then lower the rear wheel so that it is on the ground. 4. Adjust the drive chain slack.

(See page 6-21.) 5. Tighten the axle nut to the specified torque. Tightening torque: Axle nut: 90 Nm (9.0 m·kgf, 65 ft·lbf) EAU25870 Troubleshooting Although Yamaha motorcycles receive a thorough inspection before shipment from the factory, trouble may occur during operation. Any problem in the fuel, compression, or ignition systems, for example, can cause poor starting and loss of power. The following troubleshooting charts represent quick and easy procedures for checking these vital systems yourself. However, should your motorcycle require any repair, take it to a Yamaha dealer, whose skilled technicians have the necessary tools, experience, and know-how to service the motorcycle properly. Use only genuine Yamaha replacement parts. Imitation parts may look like Yamaha parts, but they are often inferior, have a shorter service life and can lead to expensive repair bills.

6 6-30 PERIODIC MAINTENANCE AND MINOR REPAIR EAU41491 Troubleshooting charts Starting problems or poor engine performance EWA10840 WARNING Keep away open flames and do not smoke while checking or working on the fuel system. 1. Fuel Check the fuel level in the fuel tank. There is enough fuel. There is no fuel. Check the compression. Supply fuel. The engine does not start. Check the compression. 6 2.

Compression There is compression. Operate the kickstarter. There is no compression. Have a Yamaha dealer check the vehicle. Check the ignition. 3. Ignition Wet Remove the spark plug and check the electrodes.



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