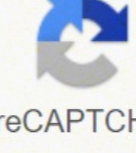


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Check the entire brake systems (fluid level, pads, etc.), all controls, headlights, taillight, brakelight, and headlight aim; adjust or replace as necessary. Install the left-side splash panel; then install the seat. PR237 C. 29. The geometric center of the HIGH beam light zone is to be used for vertical and horizontal aiming. NOTE: Rotating the valve adjuster dial counter-clockwise will open the valve/tappet clearance by 0.05 mm (0.002 in.) per mark. 26. Remove the two nuts securing the right side of the cylinder to the right-side crankcase half. AF941A 4. Remove the front and rear racks (see Section 8). When servicing battery in enclosed space, keep the area well-ventilated. To bleed the brake system, use the following procedure. General Information 2. E-Ring 400/500 Automatic Transmission/ 650 H1/700 EFI 31. Always allow the engine to cool before filling the gas tank. 1-10 3. Headlight/Taillight- Brakelight Each time the ATV is used, lights should be checked for proper function. Place the shift lever in the R position; then remove the seat. Oxygenated gasolines containing up to 10% ethanol, 5% methanol, or 5% MTBE are acceptable gasolines. Connect cables to the proper terminals: positive cable to the positive terminal (+) and negative cable to the negative terminal (-). 1-10 4. The symbol AT THIS POINT directs the technician to certain and specific procedures to promote efficiency and to improve clarity. Only Arctic Cat approved gas-oline additives should be used. Always maintain proper tire inflation pressure. Rotate adjustment screw #1 counterclockwise until it stops. Install the wheel. Failure to maintain a sufficient amount of fluid in the reservoir will result in air in the system. Switch on the lights. 11. To adjust, proceed to Adjusting Shift Lever. G. Rotate the ignition switch to the lights position; the headlights and taillight should illuminate. MD1214 14. Match measured clearance in vertical column with current shim size in horizontal row to find recommended replacement size. Closely observe the note introducing each sub-section for this important information. 2-22 Checking/Replacing V-Belt 2-10 Gas/Vent Hoses 1-7 1 General Specifications* (700 EFI) * Specifications subject to change without notice. 1-9 Preparation For Storage..... In case of an electrical failure, check fuses, connections (for tightness, corrosion, damage), and/or bulbs. 3-256 40. August 2006 ©™ Trademarks of Arctic Cat Inc., Thief River Falls, MN 56701 2. Start the engine and allow it to idle; then using Arctic Cat Engine Storage Preserver, rapidly inject the preserver into the air filter opening for a period of 10 to 20 seconds; then stop the engine. ** At the oil level plug threads. To service the center crankcase halves, the engine/transmission must be removed from the frame. Install the wiring harness connector. NOTE: If the differential/rear drive oil is contaminated with water, inspect the drain plug, filler plug, and/or bladder. 1-5 General Specifications (650 H1/650 H1 TBX/650 H1 TRV)..... Test to ensure accurate adjustment. For the 700 EFI, proceed to step 9. 2-14 Tires To remove and charge the battery, use the following procedure. Insert the bulb socket assembly into the housing and turn it clockwise to secure. Place the V-belt into position on the driven clutch and over the front shaft. AT THIS POINT To service cylinder, see Servicing Top-Side Components sub-section. 34. Rotate the shift rod end as necessary to align its threaded shaft with the hole in the upper shift axle. Valve/Tappet Clearance (Feeler Gauge Procedure) NOTE: For the 700 EFI, see Valve/Tappet Clearance (700 EFI) in this section. CAUTION Failure to inspect the air filter frequently if the vehicle is used in dusty, wet, or muddy conditions can damage the engine. Remove the timing inspection plug; then remove the tappet covers (for more detailed information, see Section 3 - Servicing Top-Side Components). 28. Make vertical marks which intersect the horizontal marks on the aiming surface directly in front of the headlights. 2-2 Lubrication Points..... Coupling cracked, damaged, or worn. Inspect one-way drains beneath the main housing for debris and for proper sealing. Ignition Timing NOTE: The 700 EFI rotor/flywheel does not have timing marks; therefore, timing cannot be verified. NOTE: To service valves, see Section 3. Pour 29.5 ml (1 fl oz) of oil into

U.S. qt) Differential Capacity 275 ml (9.5 fl.oz)** Rear Drive Capacity 250 ml (8.5 fl.oz)** Engine Oil Capacity 3.4 L (3.5 U.S. qt) Gasoline (recommended) 87 Octane Regular Unleaded Engine Oil (recommended) SAE 5W-30 Differential/Rear Drive Lubricant SAE Approved 80W-90 Hypoid Belt Width 35.5 mm (1.40 in.) Brake Fluid DOT 4

Taillight/Brakelight 12V/8W/27W Headlight 12V/27W (2) 9. 41. ! CAUTION When removing camshaft holders, use extreme care not to drop alignment pins into the engine. For the 500/650 H1, the compression should be within a range of 70-85 psi in the full-open throttle position. ! WARNING Anytime service is performed on a battery, the following must be observed: keep sparks, open flame, cigarettes, or any other flame away. Secure the caliper to the knuckle and/or axle housing with the cap screws. Account for the washers. Remove the piston. If clearance is not within specifications, loosen the jam nut and rotate the tappet adjuster screw until the clearance is within specifications. TABLE OF CONTENTS Foreword Click on the red text to go. 2-26 14. ATV0082A 737-651B 4. 2-12 Engine/Transmission Oil - Filter - Strainer OIL - FILTER Change the engine oil and oil filter at the scheduled intervals. DO NOT SMOKE while filling the gas tank. Secure the drive face with a nut. Remove the seat. CC550 NOTE: The arrow on the V-belt should point forward. Remove the right-side footrest (see Section 8). Drive System 7. FI039A 3. Carefully check the entire hydraulic brake system that all hose connections are tight, the bleed screws are tight, the protective caps are installed, and no leakage is present. 1-8 Break-In Procedure A new ATV and an overhauled ATV engine require a "break-in" period. Attach the vent tube and check the vent tube to make sure it is not crimped or obstructed in any way and that it is properly routed through and secured to the frame, below the threads of the plug. ! CAUTION If the camshaft passageway is not plugged, tappet shims could fall into the engine crankcase. Using the measurements obtained in step 2, make horizontal marks on the aiming surface. Spline lateral movement (stop). Using compressed air, blow any debris from around the spark plug. 10. The technician should use discretion and sound judgment. Arctic Cat offers additional publications (when they become available) to aid in servicing other ATV models. Rotate the shift rod (4) until the shifter is directly aligned with the Neutral position on the shift gate. 1-9 ! OIL CHART: RECOMMENDED FRONT DIFFERENTIAL/REAR DRIVE LUBRICANT The recommended lubricant is Arctic Cat Gear Lube or an equivalent gear lube which is SAE approved 80W-90 hypoid. ! WARNING Always fill the gas tank in a well-ventilated area. 0411-828 0411-837 1411-502 1411-311 Air Cleaner/Filter The air filter inside the air filter housing must be kept clean to provide good engine power and gas mileage. CC007DB 4. ! CAUTION After operating the ATV for the initial 5-10 minutes, stop the engine, allow the engine to cool down, and check the coolant level. 2-19 Electrical Connections..... Observe each headlight beam aim. Secure the ATV on a support stand to elevate the wheels. 39. To adjust idle RPM, use the following procedure. • Accelerate to 30 mph; then compress brake lever to decelerate to 0-5 mph. Disconnect the crankcase vent hose from the air cleaner housing. A fire hazard could materialize. If the ATV is used under normal conditions, service the filter at the intervals specified. Refer to the appropriate Illustrated Parts Manual for the correct part number, quantity, and description. 1-1 SECTION 1 - GENERAL INFORMATION TABLE OF CONTENTS General Specifications (400/400 TRV - Automatic Transmission)..... Wipe any accumulation of oil or gas from the filter housing and one-way drains. Dirt and dust may get inside the engine if the element is torn. Plug the exhaust hole in the exhaust system with a clean cloth. 1-8 Genuine Parts Remove the high tension lead from the spark plug. Checking/Replacing V-Belt REMOVING 1. Place the two tappet covers with O-rings into position; then tighten the covers securely. CF132A 3. 24. CD675A FI033 5. 1-2 General Specifications (400 - Manual Transmission)..... Section 1. When the engine starts, allow it to warm up properly, constantly refines and improves its products, no retroactive obligation is incurred. ! CAUTION Do not allow the connecting rod to go down inside the crankcase. MC1192 9. Shift Lever Cable End E. TAILLIGHT-BRAKELIGHT To replace the taillight-brakelight bulb, use the following procedure. VALVES AND GUIDES Valve Face Diameter (intake) (exhaust) 30.6 mm (1.20 in.) 27.0 mm (1.06 in.) Valve/Tappet Clearance (cold engine) (intake) (exhaust) 0.05-0.10 mm (0.002-0.004 in.) 0.22-0.27 mm (0.009-0.011 in.) Valve Guide/Stem Clearance (intake) (exhaust) 0.010-0.037 mm (0.004-0.0015 in.) 0.030-0.057 mm (0.0012-0.0022 in.) Valve Guide/Valve Stem Deflection (wobble deflection) (max) 0.35 mm (0.014 in.) Valve Guide Inside Diameter 5.000-5.012 mm (0.1969-0.1973 in.) Valve Stem Outside Diameter (intake) (exhaust) 4.975-4.990 mm (0.1959-0.1965 in.) 4.955-4.970 mm (0.1951-0.1957 in.) Valve Stem Runout (max) 0.05 mm (0.002 in.) Valve Head Thickness (min) 0.5 mm (0.02 in.) Valve Stem End Length (min) 2.3 mm (0.09 in.) Valve Face/Seat Width 0.9-1.1 mm (0.035-0.043 in.) Valve Seat Angle (intake) (exhaust) 45° 45° Valve Face Radial Runout (max) 0.03 mm (0.001 in.) Valve Spring Free Length (min) 38.8 mm (1.53 in.) Valve Spring Tension @ 32.5 mm (1.28 in.) (outer) 18.6-21.4 kg (41-47 lb) CAMSHAFT AND CYLINDER HEAD Cam Lobe Height (min) (intake) (exhaust) 32.830 mm (1.293 in.) 32.830 mm (1.293 in.) Camshaft Journal Oil Clearance (max) 0.15 mm (0.0059 in.) Camshaft Journal Holder Inside (right & center) (left) 22.012-22.025 mm (0.8666-0.8671 in.) 17.512-17.525 mm (0.6894-0.6900 in.) Camshaft Journal Outside Diameter (right & center) (left) 21.959-21.980 mm (0.8645-0.8654 in.) 17.466-17.484 mm (0.6876-0.6883 in.) Camshaft Runout (max) 0.10 mm (0.004 in.) Rocker Arm Inside Diameter 12.000-12.018 mm (0.472-0.473 in.) Rocker Arm Shaft Outside Diameter 11.973-11.984 mm (0.4714-0.4718 in.) Cylinder Head Distortion (max) 0.05 mm (0.002 in.) Cylinder Head Cover Distortion (max) 0.05 mm (0.002 in.) CYLINDER, PISTON, AND RINGS Piston Skirt/Cylinder Clearance 0.060-0.073 mm (0.0024-0.0029 in.) Cylinder Bore 82.000-82.015 mm (3.2283-3.2289 in.) Piston Diameter 15 mm (0.6 in.) from Skirt End 81.930-81.945 mm (3.2256-3.2262 in.) Piston Ring Free End Gap (min) (1st Ring) (2nd Ring) 8.9 mm (0.3504 in.) 8.3 mm (0.3268 in.) Bore x Stroke 82 x 71.2 mm (3.29 x 2.80 in.) Cylinder Trueness (max) 0.05 mm (0.002 in.) Piston Ring End Gap - Installed 0.33-0.61 mm (0.013-0.024 in.) Piston Ring to Groove Clearance (max) (1st) (2nd) 0.180 mm (0.0071 in.) 0.150 mm (0.0059 in.) Piston Ring Groove Width (1st) (2nd) (toll) 1.01-1.03 mm (0.0398-0.0406 in.) 1.01-1.03 mm (0.0398-0.0406 in.) 2.01-2.03 mm (0.0791-0.0799 in.) Piston Ring Thickness (1st) (2nd) 0.97-0.99 mm (0.0381-0.0389 in.) 0.97-0.99 mm (0.0381-0.0389 in.) Piston Pin Bore (max) 20.03 mm (0.789 in.) Piston Pin Outside Diameter (min) 19.98 mm (0.787 in.) CRANKSHAFT Connecting Rod (small end inside diameter) (max) 20.04 mm (0.789 in.) Connecting Rod (big end side-to-side) 0.10-0.15 mm (0.004-0.022 in.) Connecting Rod (big end width) 21.95-22.00 mm (0.8642-0.8661 in.) Connecting Rod (small end deflection) (max) 3 mm (0.12 in.) Crankshaft (web-to-web) 59.9-60.1 mm (2.358-2.366 in.) Crankshaft Runout (max) 0.08 mm (0.003 in.) Oil Pressure at 60°C (140°F) @ 3000 RPM (above) (below) 1.1 kg/cm² (16 psi) 1.5 kg/cm² (21 psi) Cooling Fan Thermo-Switch Operating Temperature (off on) (on off) 120°C (248°F) 110°C (230°F) Engine Oil Thermo-Switch Operating Temperature (off on) (on off) 160°C (320°F) 140°C (284°F) 42. 51. Protect skin and clothing when handling a battery. Remove a front wheel. To verify ignition timing, use the following procedure. CC937 NOTE: After disconnecting the oil cooler hoses, plug them to prevent leakage from the cooler. Install the tappet on the appropriate valve; then install the camshaft. With the differential lock selector in the UNLOCK position, slide the rubber boot (A) off the adjuster; then loosen the jam nut (B). Starting with the top ring, slide one end of the ring out of the ring-groove. Stamped Nut 5. To replace the brake pads, use the following procedure. 55. ! CAUTION Avoid storing outside in direct sunlight and avoid using a plastic cover as moisture will collect on the ATV causing rusting. Check the thickness of each of the brake pads as follows. Place the filter assembly in the air filter housing making sure it is properly positioned and properly seated with the filter screen down. 2-23 2 CC550 INSTALLING 1. 2-8 FI041A NOTE: Rotating the engine ensures that any trapped oil is squeezed from the tappets and tappet shims. Note that the two cap screws on the right side of the cylinder head nearest the cam sprocket are longer than the two cap screws on the left (spark plug) side. Also, the coolant level should be checked periodically. CF145C CD710C 400/400 TRV/500 Manual 650 H1/650 H1 TBX/650 H1 TRV 700 EFI ! CAUTION Always replace a blown fuse with a fuse of the same type and rating. NOTE: Install a new O-ring each time the filter is replaced. 3-14 Removing Top-Side Components Reverse switch — reverse indicator light will illuminate. Although it is essential to place some stress on the engine components during break-in, care should be taken not to overload the engine too often. MD1251 5. Emergency stop switch — engine will stop. Place the V-belt cover gasket into position; then install the cover and secure with the cap screws making sure the different-length cap screws are in their proper location. Apply oil to a new filter O-ring and check to make sure it is positioned correctly; then install the new oil filter. Remove the battery from the ATV. CF143A 3. Engine/Transmission 4. Account for the bushing and washer. 2-15 Driveshaft/Coupling..... The first 10 hours (or 200 miles) are most critical to the life of this ATV. Identify the valves that are not within specifications; then remove the corresponding camshaft (see Section 3 - Removing Top-Side Components). ! WARNING Always wear safety glasses when using compressed air. E-Ring 400/500 Manual Transmission KEY 1. ! CAUTION Prior to storing the ATV, it must be properly serviced to prevent rusting and component deterioration. On the 500/650 H1/700 EFI, raise the storage compartment cover; then slide the cover forward and off the compartment. Spring 7. 13. 3-10 Specifications* (700 EFI) * Specifications subject to change without notice. Remove the cap screws securing the caliper holder to the knuckle; then remove the pads. 3-2 Specifications (400 - Automatic Transmission)..... Ignition switch — engine will start. If operated in dusty, wet, or muddy conditions, inspect and service the filter more frequently. Keep this manual accessible in the shop area for reference. NOTE: At this point, the rocker arms and adjuster screws must not have pressure on them. CC119D 15. Valve clearance must be within specifications. Drain the oil into a drain pan by removing in turn the drain plug from each. ATV-0070C 7. 1-4 General Specifications (500 - Automatic Transmission)..... 1-5 General Specifications (650 H1/650 H1 TBX/650 H1 TRV)..... In many areas, oxygenates (either ethanol or MTBE) are added to the gasoline. ! CAUTION This hydraulic brake system is designed to use DOT 4 brake fluid only. • This procedure burnishes the brake pads, stabilizes the pad material, and extends the life of the brake pads. 2-17 2 CF135A 2. Pull the bulb straight out of the socket; then insert a new bulb. DO NOT get water into any part of the engine or air intake. Electrical Connections The electrical connections should be checked periodically for proper function. CF105A 2. ! CAUTION When removing the cylinder, be sure to support the piston to prevent damage to the crankcase and piston. Take care not to drop it into the crankcase. Shock absorber spring not broken or sagging. 2-13 2 ATV-0100 14. 2-3 Battery..... NOTE: At this point the clutch should be adjusted correctly. NOTE: The oil level stick should not be threaded into the case for checking the oil level. Install the spark plug; then install the timing inspection plug. Cap Screw 13. KX045A 2. Use a feeler gauge to check the gap. Clean the ATV thoroughly by washing dirt, oil, grass, and other foreign matter from the entire ATV. Using an awl, rotate the C-ring in its groove until it is out of the cylinder head; then remove the C-ring. If replacement or repair constitutes removal, see Section 8. 3-13 3 CC120D NOTE: Use cable ties or tape to secure the carburetor assembly above the handlebar to keep it from interfering with the removal procedure. If ignition timing cannot be verified, the rotor may be damaged, the trigger coil/CKP sensor bracket may be bent or damaged, or the CDI unit/ECU may be faulty. On carbureted models, drain the carburetor float chamber. CLUTCH Clutch Release Screw 1/8 turn back Drive Plate (fiber) Thickness (min) 2.62 mm (0.103 in.) Drive Plate (fiber) Tab 13.25-13.95 mm (0.52-0.55 in.) Driven Plate (warpage) (max) 0.1 mm (0.004 in.) Clutch Spring Length (min) 33.7 mm (1.33 in.) Clutch Wheel Inside Diameter 140.0-140.2 mm (5.511-5.520 in.) Starter Clutch Shoe No groove at any part Clutch Engagement RPM 1700 ± 200 Clutch Lock-Up RPM 3400 - 4000 Primary Reduction Ratio 2.392 (67/28) Secondary Reduction Ratio 1.133 (17/15) Final Reduction Ratio (front) (rear) 3.6 (36/10) 3.6 (36/10) Secondary Transmission Reduction Ratio (low) (high) 2.435 (35/13 x 19/21) 1.296 (35/27) Gear Ratios (1st) (2nd) (3rd) (4th) (5th) (reverse) 3.083 (37/12) 1.933 (29/15) 1.388 (25/18) 1.095 (23/21) 0.913 (21/23) 2.833 (34/12) Engine Fork to Groove (side clearance) 0.1-0.3 mm (0.004-0.012 in.) Secondary Transmission Fork to Groove (side clearance) 0.1-0.3 mm (0.004-0.012 in.) Shift Fork Groove Width (#1 and #2) 4.5-4.6 mm (0.177-0.181 in.) (secondary transmission) (reverse) 5.45-5.55 mm (0.215-0.219 in.) 4.0-4.1 mm (0.157-0.161 in.) Shift Fork Thickness (#1 and #2) (secondary transmission) (reverse) 4.3-4.4 mm (0.169-0.173 in.) 5.3-5.4 mm (0.209-0.213 in.) 3.8-3.9 mm (0.150-0.154 in.) 44. Frame/Welds/Racks The frame, welds, and racks should be checked periodically for damage, bends, cracks, deterioration, broken components, and missing components. Install the air filter, turn and housing cover. During the break-in period, a maximum of 1/2 throttle is recommended; however, brief full-throttle accelerations and variations in driving speeds contribute to good engine break-in. Disconnect the speed sensor lead from the wiring harness. Add coolant as necessary. Secure the front fender to the footrest with the two cap screws. During the break-in period (or whenever the brake pads are replaced), the hydraulic brake pads must be burnished. 2-15 2 CC037D 3. Braking distance will be extended until brake pads are properly burnished. NOTE: The air cleaner intake duct must be removed prior to removing the air cleaner housing. AR600D AR604D 19. When the sight glass changes from dark to light, refill the reservoir before the bleeding procedure is continued. Dry the filter. Note the AT THIS POINT information in each sub-section. Remove the cover and fill the reservoir with DOT 4 Brake Fluid. Handlebar not bent, cracked, and has equal and complete full-left and full-right capability. 1-8 Gasoline - Oil - Lubricant 2-9 Spark Plug..... Tighten all nuts, bolts, cap screws, and screws making sure all calibrated nuts, cap screws, and bolts are tightened to specifications (see Section 10). Spread the faces of the driven clutch by pushing the inner face toward the engine while turning it counterclockwise; then when the faces are separated, insert a wedge (approximately 3/8 in. 1-7 Break-In Procedure 1-9 Preparation After Storage..... ! CAUTION On the 700 EFI, do not ground the spark plug on the cylinder head cover. Unscrew the oil level stick and wipe it with a clean cloth. 3-5B Installing Right-Side Components..... A low-pressure gauge is provided in the tool kit to measure the air pressure in the tires. Slide the rubber boot away; then loosen the jam nut from the throttle cable adjuster. 2-15 Suspension/Shock Absorbers/Bushings 23. 3-8 * Specifications subject to change without notice. Note the three digit number on the surface of the tappet shim; then refer to the appropriate tappet shim selection table at the end of this section for the correct replacement. Tighten to specifications. NOTE: Use Valve Clearance Adjuster (p/n 0444-078) for this procedure. Proper aim is essential when the most intense beam is centered on the vertical mark 5 cm (2 in.) below the horizontal mark on the aiming surface. Account for the opposite-side circlip. Using a feeler gauge, check each valve/tappet clearance. Removing Top-Side Components A. Install the valve timing inspection plug and tighten securely; then install the recoil starter assembly and secure with the four cap screws coated with blue Loctite #242. Make sure battery venting is not obstructed. Make certain that the vent hose is securely connected to the carburetor/throttle body and the opposite end is always open. 3-3 3 Specifications* (400 - Automatic Transmission) * Specifications subject to change without notice. Make sure rivets holding components together are tight. Account for the spacer. NOTE: Rotating the engine ensures that any excess oil is squeezed from the tappets and tappet shims. 7. Turn the ignition switch to the ON position; then move the shift arm (3) until the Neutral icon (N) appears on the LCD. ! WARNING Do not attempt to remove the bulb when it is hot. Using an awl, remove one piston-pin circlip. Handlebar grips not worn, broken, or loose. Measure the distance from the floor to the mid-point of each headlight. AT THIS POINT To service valves and cylinder head, see Servicing Top-Side Components sub-section. 3-56 Joining Crankcase Halves..... AL611D 2. Adjusting Engine RPM (Idle) NOTE: The idle RPM is not adjustable on the 700 EFI. At the intervals shown in the Periodic Maintenance Chart, clean the spark arrester using the following procedure. NOTE: The engine/transmission does not have to be removed from the frame for this procedure. 2-25 2 Exhaust Chart NOTE: Use this chart in conjunction with the procedure found in Valve/Tappet Clearance (700 EFI) in this section. 11. Apply light oil to the components using the following list as reference. Do not idle the engine for excessively long periods of time. Steering/Frame 9. To properly burnish the brake pads, use the following procedure. CD003 CC93A 12. NOTE: Never reuse a lock nut. 2-2 Periodic Maintenance Chart A = Adjust I = Inspect C = Clean L = Lubricate D = Drain R = Replace * Service/Inspect more frequently when operating in adverse conditions. Tighten the nut to specifications (see Section 10). Steering post bearing assembly/bearing housing not broken, worn, or binding. 733-441A 4. Place the strainer cap into position on the strainer making sure the O-ring is properly installed; then secure with the cap screws. ATV-0051 Adjust the gap to 0.7-0.8 mm (0.028-0.032 in.) for proper ignition. ATV-0109 6. The brakelight should illuminate. CC940 Top-Side Components NOTE: For efficiency, it is preferable to remove and disassemble only those components which need to be addressed and to service only those components. Troubleshooting 1 2 3 4 5 6 7 8 9 10 11 3. CF178A 8. MD1136 MD1137 54. CC091D 3. ! CAUTION The one-way drain to the right is the clean air section of the filter housing. 3-6 Specifications* (500 - Automatic Transmission) * Specifications subject to change without notice. HEADLIGHT NOTE: The bulb portion of the headlight is fragile. They are precision-made to ensure high quality and correct fit. See the following viscosity chart for details. While holding the chain, slide the sprocket and camshaft out of the cylinder head. Do not use oils which contain graphite or molybdenum additives. Remove the cam chain tensioner by lifting it from the chain cavity; then remove the two lower nuts securing the cylinder head to the cylinder, one in front and one in rear. The front drive actuator should operate engaging four-wheel drive. 3-14 Left-Side Components Remove the cam chain tensioner pivot cap screw and washer. 2-16 Suspension/Shock Absorbers/Bushings The following suspension system components should be inspected periodically to ensure proper operation. If the piston rings must be removed, remove them in this sequence. Always make sure that the oil level is above the "L" mark but not higher than the "F" mark. Allow the ATV to dry thoroughly. Tighten the jam nut against the throttle cable adjuster securely; then slide the rubber boot over the adjuster. AT THIS POINT To service any one specific component, only limited disassembly of components may be necessary. CC163D 4. Lift the cylinder off the crankcase taking care not to allow the piston to drop against the crankcase. 5. When filling the cooling system, use premixed Arctic Cat Antifreeze. Valve/Tappet Clearance (700 EFI) To check and adjust valve/tappet clearance, use the following procedure. Shift Plate 4. Remove the protective cap, install one end of a clear hose onto one FRONT bleeder screw, and direct the other end into a container; then while holding slight pressure on the brake lever, open the bleeder screw and watch for air bubbles. 3-11 3 Table of Contents (400 - Manual Transmission) Removing Engine/Transmission..... Steering Components The following steering components should be inspected periodically to ensure safe and proper operation. Present shim size horizontal row at the top. Install the storage compartment; then secure with the reinstallable rivets. Valve not bent or burned. Linkage 17. Mark the valve tappets in order to return them to the proper position during assembly. 2-4 Fuses The fuses are located in a power distribution module under the seat. Push the upper shift axle down completely. Follow the direct-ive because it deals with the possibility of damaging part or parts of the ATV. Never add fuel to the ATV gas tank near any open flames or with the engine running. Oil trapped in these areas could result in a false valve clearance reading. At the time of publication, all information, photographs, and illustrations were technically correct. 3.

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