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Book Descriptions:

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A horizontal shock Does it give something for this Bike. Or any Wiring Diagrams. Please give me an Answer, Thank You Can you help Thanks you in advance Can you help at all Thanks very much I purchased it and it was delivered completely disassembled. I am having a lot of trouble with the wiring harness. I'm not sure what year it is but it's around 2009 or 2010 I believe. Thanks in advance. Can you please help me out with this request Thanks! Many thanks It gets to hot after 10km I need a bigger jet. Please assist me and show me the correct part. The machine is brand new! The part is the REAR RIGHT TAIL LIGHT COVER Can you help Or someone that could work on it for me. I need and engine manual that shows the parts breakdown I have pulled the connector pin from what looks like a molex connection. I need to know what size wire is to purchase the male Indicators do work, horn also works. Electric start dont work just clicks and will not start of kick start any ideas please. Cant seem to find anything so this is my last resort. Any info would be amazing. Thank you so much in advance. Can someone help me Thank you The wires for these coming out This is a factory or a point of assembly issue. The connector has suffered Not something we noticed until one by one failure in dash. Wiring was not placed and secured All the wires have come out from the connector at the female side and three from the male side. Impossible to match up which goes back to what in the We need a schematic or photos of the connectors which wires to which on each side. Please help and thank you. Thank you Jiri The head gasket is blown Im guessing. It bubbles back into the reservoir when trying to start it, but no mixture in the oil. But Im having a awful either dont know how to word it correctly or if the person I got it from changed something, but its not like the few I have ran across. So any help And also what about performance parts for it or racing parts. Thank you for your time and patients in helping me. <http://triangle-electronics.com/assets/userfiles/dynavector-505-manual.xml>

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I bought a motorcycle in pieces, I have various parts of the electrical installation, but I do not know how to connect it. Please help I've searched the internet but can find a diagram any help I am after a wiring diagram for a 2007 American Ironhorse Slammer. Could you please help. On duke 2019, 125cc. Any one who has the experience please help me. My headlights and turn signal lights do not work at all. It's a dirt bike. pitbike workshop Manuel or service Manuel if possible About 2000 model manual Please help I dont know if its a F22 or F11 as I purchased it used. I need a part for it lower side panel I believe it to be. Any help is appreciated. Engine. Trade Name ZNEN ZN50QT32 Vehicle Category A Start x moto motorcycle dirt bike Got stolen and they cut out the ignition and blew the wire harness. Thanks. Is there anyone out there who can help me out There are still good people out there. Thanks again, Richard Bart Cycles Yamaha royal star venture. XVZ1300TF. And if possible colored wiring diagram. Looks identical to my kids Polaris. The aeon lost spark figure they have same wire harness. Polaris has 5 wire CDI box Aeon has a 4. I thought the mag was bad but cleaned and put back on. Took a test meter and to see if getting a signal from the rectifier and do but can only see meter jump don't know exactly what number it Coming out of the box is nothing. Mind u someone sold me an entire I have cdi boxes laying around and the new harness is a 4 wire cdi. We don't want lights or all the bull crap aeon has for wiring. But obviously Can a butchered down harness just for spark work. It's a p.o.s and just wanna get running so the kids can ride. My Polaris with a dead The

aeon had weak spark to begin with. But if u seen the inside of flywheel idk if a coating of crap will stop spark. OhhJust want spark or aeon will be soaked in gas and lit. I only got involved because it's myJust this p.o.s aeon is crap. And personally I hate wiring problems. But apparently this aeon 50cc shit box is my match.<http://estudiowebcolombia.com/userfiles/dynavector-p75-mkii-manual.xml>

My 2 snowmobiles are identical. OneSimple ground wire a mouse I think chewed but. If I could see the exact harness diagram for the aeon thunder colt 50cc. I'd be much appreciated google itThanks in Advance for your kindly support. Greetings Form Germany. Youre sincerely, A. PelAny suggestionsJust trying to wire up battery and circuit breaker and dont know where the wires hookupFrame 1461986, engine 353 Feky 1200286. I am struggling to find any information on this bike online but am very interested inBike is complete but running badly, picture belowThis is a complete body and paint kit for the 1996 1999 Fat Boy. We are Twin Motorcycles in the Netherlands. We started in 2002 with service on Buells, and just love Buell. We also have a office in France where we do service om Buell We do this to develop parts, write technical articles how to install parts, and learn you how to do maintenance on your Buell. If all is correct, the vehicle is ready to go back to the PARTS CATALOG. customer. 2007 Buell Lightning Maintenance. Part Replacement Bearings do not usually need to be removed. Only remove bearings if necessary. Always replace worn or damaged parts with new parts. 2007 Buell Lightning Maintenance. Don't pull on a tool cabinet; push it in front of you. Set the brakes on the locking casters after the cabinet has been rolled to your work. 2007 Buell Lightning Maintenance. In freezing tempera Buell motorcycles are designed to give the best performance tures, the water becomes slush or ice, which may clog oil using unleaded gasoline. The batteries are shipped precharged and ready to of battery condition. Check the voltage of the battery to verify be put into service. Use rec ommended torque values. Overtightening battery termi nal bolts could result in damage to battery terminals. 00216a 2007 Buell Lightning Maintenance 111. Wipe dipstick clean. DO NOT OVER TIGHTEN. 112 2007 Buell Lightning Maintenance. Tighten rear caliper bleeder valve metric to 3660 in lbs 47 Nm.

Brake Pedal NOTE Brake pedal has no free play adjustment. 8349 Bottom of master cylinder Rod adjuster Locknut Clevis Clevis pin Figure 112. Rear Brake Pedal Pushrod Adjustment 2007 Buell Lightning Maintenance 119. Check rotor surface. Replace if warped or badly scored. 2.12 FRONT BRAKE CALIPER 2.15 REAR BRAKE CALIPER for procedure. Figure 114. Front Brake Rotor 120 2007 Buell Lightning Maintenance. Figure 117. Rear Brake Pad Spring 122 2007 Buell Lightning Maintenance. Very Use only Buell approved tires. See a Buell dealer. Using high bearing speeds can damage unlubricated bearings. Correct chaincase lubricant level 10. Figure 122. Fluid Level 124 2007 Buell Lightning Maintenance. Figure 123. Clutch Cable Adjuster Mechanism NOTE Spring installs on outboard side of hex lockplate. 8405 Diaphragm spring Lockplate Adjusting screw Figure 124. Clutch Adjustment 2007 Buell Lightning Maintenance 125. Figure 120. Install clutch inspection cover and new Figure 125. Adjusting Clutch Free Play gasket using three fasteners and washers and tighten to 84108 inlbs 1012 Nm. 126 2007 Buell Lightning Maintenance. Clean the drive belt with a mild soap and water spray solution as required. Dry thoroughly. Do not immerse belt in solution. Do not direct pressurized water on belt. 2007 Buell Lightning Maintenance 127. Tighten fasteners to 84108 inlbs 1012 Nm. Counterclockwise outward to increase free play. Tighten locknut 1 to 2025 ftlbs 2734 Nm. Locknut Adjusting Fastener Figure 129. Chain Tension Adjusting Fastener 132 2007 Buell Lightning Maintenance. Using a screwdriver, turn the slotted dial clockwise until it stops. This is the maximum compression damping setting. Figure 131. Front Fork Compression Damping Adjuster 2007 Buell Lightning Maintenance 135. This is the maximum rebound damping setting. Rear Shock Rebound Adjustment 136 2007 Buell Lightning Maintenance. Buell dealer for repairs. Loose, worn or damaged steer The desired resistance is between 17 lbs 0.53.2 kg.

ing or suspension components can adversely affect sta. A plug with a white, yellow, tan or rusty brown pow dery deposit indicates balanced combustion. Clean off spark plug deposits at regular

intervals. 2007 Buell Lightning Maintenance 139. While riding, a loose seat can shift causing loss of control, which could result in death or serious injury. 00070a 16. Install seat. See 2.44 SEAT. 140 2007 Buell Lightning Maintenance. Figure 141. Actuator Cover for XB12 Models with translucent body panel. 2007 Buell Lightning Maintenance 141. Installed Air Cleaner Filter Element Figure 145. Air Cleaner Baseplate Assembly 142 2007 Buell Lightning Maintenance. Adjuster Interactive exhaust cable Jam nut Cable wheel Figure 148. Interactive Exhaust Cable Figure 148. Loosen jam nut 3. Remove cable 2 from bracket and cable wheel 4. NOTE 144 2007 Buell Lightning Maintenance. This ensures the system is working properly. If you do not see the mark, verify previous cable adjustment. 2007 Buell Lightning Maintenance 145. Figure 152. If the static timing is correct, the screen will switch to HIGH 5 volts at the precise moment the timing mark exactly centers in the inspection window. Figure 152. Correct Timing 146 2007 Buell Lightning Maintenance. Retarded Timing Figure 153. Timer Cover 8391a Figure 154. Cam Position Sensor 2007 Buell Lightning Maintenance 147. Figure 158. Headlamp Switch Adjust headlamp alignment. See ADJUSTMENT section. 148 2007 Buell Lightning Maintenance. Once headlights are aligned, tighten fasteners to 4872 inlbs 58 Nm. 9950 Figure 159. Horizontal Headlamp Adjustment 9951 Figure 160. Vertical Headlamp Adjustment 2007 Buell Lightning Maintenance 149. See ADJUSTMENT below. Connect vehicle to Digital Technician. Select Buell TPS zero tab. Select TP volts on screen. Figure 161. Back off idle adjustment until TP volts stop decreasing and then continue to back out one full turn. If motorcycle is to be covered, use a material that will breathe, such as light canvas.

Plastic materials that do not breathe promote the formation of condensation. 2007 Buell Lightning Maintenance 151. Oxygen sensor damaged or malfunctioning bike running Internal engine problem. rich. See dealer. Wheels not balanced correctly. Air intake screen covered or restricted. 2007 Buell Lightning Maintenance 153. Nonstandard equipment on the front end such as heavy radio receivers, extra lighting equipment or luggage tends to cause unstable handling. 154 2007 Buell Lightning Maintenance. A good suspension is a balance between damping and track condition. Finding this balance requires exploring all possible compression settings. Lack of tire feedback. Increase compression damping. Tire slides. Decrease compression damping. 2007 Buell Lightning Maintenance 155. See a Buell dealer. Using non approved tires can adversely affect stability, which could result in death or serious injury. 00133a Figure 21. Tire sizes are molded on the sidewall. Rim size and contour are marked on the rim's exterior surface. At the same time, inspect tire tread for punctures, cuts, breaks and other damage. Repeat the inspection before long trips. 2007 Buell Lightning Chassis. Swingarm bearings. Check for proper torque and replace worn or damaged bearings. 2.19 ISWINGARM AND BRACE. 2007 Buell Lightning Chassis. See a Buell dealer. Using nonapproved tires can adversely affect stability, which could result in death or serious injury. 00133a WARNING WARNING Tires are a critical safety component. Remove wheel. Figure 25. Front Wheel Removal 210 2007 Buell Lightning Chassis. Hold the forcing screw 2, and turn the nut 3 clockwise until the bearing is free of the hub. 2007 Buell Lightning Chassis 211. Improper brake operation could result in death or serious injury. 00111a Inspect brake rotor and pads. See 1.6 BRAKE SYSTEM MAINTENANCE and 2.12 FRONT BRAKE CALIPER. 212 2007 Buell Lightning Chassis. B439939 and forcing screw. Figure 212.

Install the Backing Plate B4399312 and Forcing Screw 2007 Buell Lightning Chassis 213. B4399310 and forcing screw. 16. Install the wheel. See INSTALLATION under 2.5 FRONT Forcing screw WHEEL. Spacer Figure 215. Install the Spacer 10. See Figure 215. Install the spacer. 214 2007 Buell Lightning Chassis. Align reference dot on front rotor with the valve stem. CAUTION Do not reuse brake disc screws. Install right side fender fasteners. See 2.35 FENDERS. 8419 Axle left handed thread Front axle pinch fasteners 2 metric Figure 219. Front Wheel Mounting 216 2007 Buell Lightning Chassis. See IDLER PULLEY REMOVAL 6.6 DRIVE REMOVER AND INSTALLER Part No. HD44060. BELT SYSTEM. Remove lower belt guard. See 2.36 BELT GUARDS. Remove rear wheel spacer 4. 2007 Buell Lightning Chassis 217. Such contact can adversely affect braking ability,

which could cause loss of control, resulting in death or serious injury. 00290a 218 2007 Buell Lightning Chassis. Install brake rotor 2 with new rotor mounting fasteners 1 and tighten to 2527 ftlbs 3437 Nm. 2007 Buell Lightning Chassis 219. If brakes are not operating properly, testing at high speeds can cause loss of control, which could result in death or serious injury. 00289a Figure 226. Rear Brake Caliper Carrier Fasteners 220 2007 Buell Lightning Chassis. Wheel Rim Runout b0758x2x RUNOUT Maximum lateral 0.040 1.02 Maximum radial 0.030 0.76 Gauge rod Figure 228. Checking Cast Rim Radial Runout Using Wheel Truing and Balancing Stand HD9950080 2007 Buell Lightning Chassis 221. Buell front and rear tires are not the same. Inter changing front and rear tires can cause tire failure, which could result in death or serious injury. Buell front and rear tires are not the same. Inter Figure 232. Starting Bead on Rim Typical changing front and rear tires can cause tire failure, which could result in death or serious injury. Checking Tire Radial Runout Table 211. Tire Runout RUNOUT Tire radial 0.060 1.52 Tire lateral 0.080 2.

03 224 2007 Buell Lightning Chassis. Install clevis pin 2. Rear master cylinder body Install new cotter pin 7. Clevis pin Pedal bushings 2 Shift brake pedal sleeve Brake pedal fastener Brake pedal Cotter pin Figure 236. Brake Pedal Assembly 226 2007 Buell Lightning Chassis. Brake switch fastener 11. Brake switch 12. Brake switch terminal 13. Banjo bolt metric 14. Brake line 15. Copper washers 16. Pivot bolt Figure 237. Front Brake Hand Lever Assembly 2007 Buell Lightning Chassis 227. Piston Assembly in Master Cylinder Figure 238. Depress piston assembly 1 and remove internal circlip 2 and discard. Figure 237. Remove piston assembly 6 from front master cylinder reservoir 4 and discard. 228 2007 Buell Lightning Chassis. Assemble new piston components placing small end of spring 5 behind primary seal of piston 4. Lubricate master cylinder body and piston seals with special lubricant found in the service parts kit. 2007 Buell Lightning Chassis 229. Replace the brake line if any damage is noted. Pclamp Brake line Wire form Bleeder valve Banjo bolt Figure 242. Front Brake Line 2007 Buell Lightning Chassis 231. If brakes are not operating properly, testing at high speeds can cause loss of control, which could result in death or serious injury. 00289a 232 2007 Buell Lightning Chassis. Slide caliper down the rotor to clear fork lower and then remove off rotor. Figure 246. Removing Pistons B42887 2007 Buell Lightning Chassis 233. Install pistons 5 in each piston bore. Install new orings 8 between caliper halves. Clamp caliper together with caliper fasteners 11 and tighten to 1519 ftlbs 2026 Nm. 234 2007 Buell Lightning Chassis. Brake pads 11. Caliper fasteners Figure 247. Front Caliper Assembly 2007 Buell Lightning Chassis 235. Rear Master Cylinder On Vehicle assembled. Prevent damage to seating surfaces by carefully Figure 249. Remove brake reservoir hose at master removing brake line components. cylinder. Remove seat. See 2.44 SEAT. 236 2007 Buell Lightning Chassis.

Cotter pin 1 from frame if necessary. 11. Rear master cylinder mount screw Figure 251. Rear Master Cylinder Assembly 2007 Buell Lightning Chassis 237. If the circlip is not properly installed, improper brake operation could result in death or serious injury. Tuck rubber boot on rod assembly 3 into master cylinder body 1. 238 2007 Buell Lightning Chassis. Figure 250. Connect brake line switch connector under seat. Install heel guard. See 2.33 FOOTPEG, HEEL GUARD AND MOUNT. 2007 Buell Lightning Chassis 239. Discard copper washer. 10. Remove brake line from motorcycle. 240 2007 Buell Lightning Chassis. B42887 with Figure 257. Rear Brake Caliper adaptor 2. Figure 257. Remove caliper mounting fasteners 6 Remove two orings from groove in caliper bore and discard 7. 242 2007 Buell Lightning Chassis. Repeat 4 through 6 on opposite side. Screw, pinch fastener Steering stem pinch fastener Triple clamp, upper Triple clamp assembly, lower Screw, pinch fastener Figure 262. Upper and Lower Fork Clamp Assembly 2007 Buell Lightning Chassis 245. Remove snap ring 2. Figure 266. Removing Fork Cap From Outer Tube Figure 266. Remove fork cap from outer tube. 246 2007 Buell Lightning Chassis. Remove preload washer 4 and slider piston 5. Figure 267. Expand fork and remove from FORK When using the FORK SPRING COMPRESSING TOOL SPRING COMPRESSION TOOL. Spring joint 25. Oil seal stopper ring Snap ring 17. Spring 26. Dust seal Rebound adjuster assembly 18. Outer tube 27. Slider fork Figure 269. Front Fork

Assembly 248 2007 Buell Lightning Chassis. Holding the damper locknut 10, unscrew the rebound adjuster assembly 9 and remove from damper rod assembly 11. Remove damper locknut 10 from damper rod assembly 11. 2007 Buell Lightning Chassis 249. Tighten the center bolt to 2230 ftlbs 30 Repeat for other fork assembly. 40 Nm. 250 2007 Buell Lightning Chassis. Steering Stem Assembly 2007 Buell Lightning Chassis 253. Tighten steering stem capnut to 3842 ftlbs 5257 Nm.

Install steering stem pinch bolt applying LOCTITE 271 red and tightening to 2022 ftlbs 27.129.8 Nm for all models. 254 2007 Buell Lightning Chassis. B4399312 Discard steering head bearings and replace with new. Steering head bearings are not reusable. Figure 277. Steering Head Bearings Installation Tools 2007 Buell Lightning Chassis 255. HD39302 onto the forcing screw 1. Tighten the nut 6 by hand, until the bearing is started into the bore in the steering head. 256 2007 Buell Lightning Chassis. Rear Wheel Mounting, Right Side XB12Ss Figure 283. Belt Guard and Rear Fender Assembly XB12Ss 258 2007 Buell Lightning Chassis. Remove rear wheel. See 2.6 REAR WHEEL. Remove rear fenders. See 2.35 FENDERS. 13. Remove swingarm from vehicle. 2007 Buell Lightning Chassis 259. The complete bearing assembly must be replaced as a unit when replacement is necessary. Do not intermix bearing components. 260 2007 Buell Lightning Chassis. Install right side rider footpeg mount. Tighten fasteners to 132144 inlbs 1516.2 Nm. See 2.33 FOOTPEG, HEEL GUARD AND MOUNT. Remove rear wheel support stand. 2007 Buell Lightning Chassis 261. NOTE Hold wire form while tightening to prevent it from twisting. 262 2007 Buell Lightning Chassis. Install tail frame. See 2.40 LEFT TAIL SECTION AND BATTERY PAN. Install exhaust header. See 2.32 EXHAUST SYSTEM. Rotate engine. See 3.3 ENGINE ROTATION FOR SERVICE. 2007 Buell Lightning Chassis 263. From the tacked corners, pivot the puck onto the frame keeping the directional point aligned with the horizontal crease. 264 2007 Buell Lightning Chassis. Lower shock mount 11. Shock spring retainer kit 12. Rear shock spring Figure 292. Rear Shock Absorber Assembly 2007 Buell Lightning Chassis 265. Rear Shock Absorber and Remove Reservoir Figure 294. Rear Shock Absorber Remote Reservoir XB12Ss shown Clamp XB12S shown and Compression Dial 266 2007 Buell Lightning Chassis. Tighten to 2533 inlbs 34 Nm. Adjust cables. See 1.15 THROTTLE CABLE AND IDLE SPEED ADJUSTMENT.

Install air cleaner assembly. See 4.44 AIR CLEANER ASSEMBLY. 2007 Buell Lightning Chassis 267. Clutch hand lever Clutch adjuster Remove cable strap securing clutch cable to voltage reg Clutch cable adjuster boot ulator wire. Clutch cable ferrule Figure 2100. Clutch Hand Control Assembly 2007 Buell Lightning Chassis 269. See Figure 2102. Remove the outer ramp and hook 1 from the cable end 3 and coupling 2. Remove cable end from slot in coupling. See 6.3 CLUTCH RELEASE MECHANISM. 270 2007 Buell Lightning Chassis. Figure 2104. Installing Shift Linkage 2007 Buell Lightning Chassis 271. Tighten screws in a crosswise pattern to 84108 inlbs 9.512.2 Nm. 272 2007 Buell Lightning Chassis. XB9SX Headlight Grille 2007 Buell Lightning Chassis 273. Left and right front modules Figure 2107. Electrical Connectors Behind Windscreen 274 2007 Buell Lightning Chassis. Headlight Assembly 2007 Buell Lightning Chassis 275. Left and right front modules Figure 2109. Electrical Connectors Behind Windscreen 276 2007 Buell Lightning Chassis. Install windscreen. See 2.43 WINDSCREEN. 8998 Figure 2110. Right Front Module Fastener and Brake Line PClamp Fastener Typical 278 2007 Buell Lightning Chassis. Fairing Support Bracket Assembly 2007 Buell Lightning Chassis 279. Tighten both front screws to 1012 ftlbs 1416 Nm. Then tighten both rear screws 2 1012 ftlbs 1416 Nm. 280 2007 Buell Lightning Chassis. Handlebar Assembly 2007 Buell Lightning Chassis 281. Mirrors and Mounting Hardware Typical 282 2007 Buell Lightning Chassis. Remove oxygen sensor. See 4.33 OXYGEN SENSOR. Figure 2115. Remove exhaust header 2 by removing mounting fasteners 3. Remove exhaust ring 4, retaining ring 5 and port gas ket 6. 2007 Buell Lightning Chassis 283. Rider Footpeg, Mount and Heel Guard Assembly 286 2007 Buell Lightning Chassis. Remove footpeg mount 3. Heel guard fasteners b0933a2x Heel guard Footpeg mount Spring Ball Detent plate Clip Footpeg 10. Footpeg mount fastener 11. Jam nut Figure 2117.

Passenger Footpeg, Mount and Heel Guard Assembly 2007 Buell Lightning Chassis 287. Sprocket Cover 288 2007 Buell Lightning Chassis. Front and Rear Fender 2007 Buell Lightning Chassis 289. Belt Guard Assembly 290 2007 Buell Lightning Chassis. Align left section 3 and loosely install left side fasteners and washers 4. Apply LOCTITE 271 red and tighten all fasteners to 36 48 inlbs 45 Nm. 2007 Buell Lightning Chassis 291. Translucent Intake Cover Assembly 292 2007 Buell Lightning Chassis. RAM Air Scoop, Engine Shroud, Oil Cooler 2007 Buell Lightning Chassis 293. Because the surface is not bare polished aluminum, it must be cleaned using only mild soap and warm water. After washing, always dry the surface using a clean, soft cloth. 294 2007 Buell Lightning Chassis. Left rear and right rear tail section fasteners 4 Fuse block and relay center Figure 2125. Main Harness and Electrical Connectors Under Seat Typical 2007 Buell Lightning Chassis 295. While riding, a loose seat can shift causing loss of control, which could result in death or serious injury. 00070a 13. Install seat. See 2.44 SEAT. 296 2007 Buell Lightning Chassis. Trunk pan assembly 12. Rear trunk pan fastener to center tail section 2 13. Rear shock reservoir bracket 14. Plastic lugs for manufacturing purposes only Figure 2126. Tail Frame and Trunk Pan Assembly 2007 Buell Lightning Chassis 297. While riding, a loose seat can shift causing loss of control, which could result in death or serious injury. 00070a Install seat. See 2.44 SEAT. 298 2007 Buell Lightning Chassis. While riding, a loose seat can shift causing loss of control, which could result in death or serious injury. 00070a Install seat. See 2.44 SEAT. 2007 Buell Lightning Chassis 299. Right Side Frame Section Typical 2100 2007 Buell Lightning Chassis. Front Windscreen 2007 Buell Lightning Chassis 2101. Seat and Attachment Inset XB12Ss seat 2102 2007 Buell Lightning Chassis.

While riding, a loose seat can shift causing loss of control, which could result in death or serious injury. 00070a Install seat. See 2.44 SEAT. 2007 Buell Lightning Chassis 2103. Latch bracket 11. Trunk pan Figure 2130. Seat Lock Assembly 2104 2007 Buell Lightning Chassis. Remove sidestand spring 2 and spring extension plate 4 using SNAPON SPRING TOOL Part No. HE52B. Remove sidestand pivot pin circlip 7 and remove sidestand pivot pin 3. Extend sidestand leg 1 and remove. 2007 Buell Lightning Chassis 2105. Figure 2134. Lubricating Points Shaded Areas 2106 2007 Buell Lightning Chassis. Your sion, it indicates the piston rings need replacing. Low motorcycle will run normally using this type of gas. Buell compression by itself, however, may indicate improperly recommends you use it when possible, as an aid to seated valves, in addition to or in lieu of worn piston rings. The following are some general instructions that apply to Buell motorcycle engines Run engine until it reaches normal operating tempera ture. 2007 Buell Lightning Engine. Loosen clutch adjuster to release tension from hand lever. Remove clutch cable ferrule from hand lever. Wire form Clutch cable adjuster boot Figure 34. Clutch Cable Wire Form and Adjuster Boot 2007 Buell Lightning Engine 311. Rear tie bar assembly 11. Fasteners for center tie bar mount 2 22. Fasteners for rear tie bar assembly 2 Figure 35. Engine Mounting System 312 2007 Buell Lightning Engine. Loosen rear isolator bolt 1. DO NOT REMOVE. 22. See Figure 37. Remove front isolator bolt 1. 23. Remove front isolator mount 2 from engine. 24. Rotate engine down. 2007 Buell Lightning Engine 313. Remove scissors jack. 314 2007 Buell Lightning Engine. Fuel Line and DDFI Electrical Connections Typical 318 2007 Buell Lightning Engine. NOTE Remove the right side rider footrest and support plate, and 18. Remove left and right side rider footrests and support secure towards rear of vehicle. plates. See 2.33 FOOTPEG, HEEL GUARD AND MOUNT.

2007 Buell Lightning Engine 321. Rear tie bar assembly 11. Fasteners for rear tie bar assembly 2 Figure 317. Engine Mounting System 322 2007 Buell Lightning Engine. Remove front tiebar 7 from "V" bracket. Remove front tiebar 7 from engine. Unbolt "V" bracket from main frame and remove "V" bracket. 2007 Buell Lightning Engine 323. Wire form retainer Clutch cable adjuster boot Lower retaining clamp Figure 320. Clutch Cable Wire Form Retainer, Retaining Clamp and Adjuster Boot 324 2007 Buell Lightning Engine. Sidestand Assembly Extended 2007 Buell Lightning Engine 325. Timer cover. Figure 328. Front Exhaust Mount Bushings 2 piece Figure 329. Wire guard located under the sprocket cover. 12367 8724 12369a 8729 Figure 327. Removing Threaded Insert Figure

329. Wire Guard 2007 Buell Lightning Engine 327. Figure 335. Apply LOCTITE 242 blue and install swingarm pivot shaft pinch bolt threaded insert. Figure 336. Front Exhaust Mount Bushings 2 piece 2007 Buell Lightning Engine 329. Rear tie bar assembly 11. Fasteners for rear tie bar assembly 2 Figure 342. Engine Mounting System 2007 Buell Lightning Engine 331. Attach regulator wiring harness to clutch cable below clutch cable lower retaining clamp using a nylon cable strap. 18. Remove scissors jack. 332 2007 Buell Lightning Engine. Orientation of return line should be approximately 6 o'clock Figure 349. Oil Cooler Feed and Return Oil Lines Location and Orientation 2007 Buell Lightning Engine 337. Positive battery cable at starter. Electrical Connections and Throttle Cables Typical 2007 Buell Lightning Engine 341. Push rod cover 22. Screw 4 23. Oring push rod cover 2 24. Push rod 25. Washer 4 26. Bolt 4 b1266x3x Figure 356. Rocker Arm and Push Rod Cover Assemblies 2007 Buell Lightning Engine 343. Remove push rods. Figure 358. Removing Rocker Arm Shafts 344 2007 Buell Lightning Engine. Repeat the above procedure for the other valves. Valve Spring Compressor Part No. HD34736B 2007 Buell Lightning Engine 345.

Cylinder base gasket 15. Cylinder base stud 16. Exhaust valve 17. Exhaust valve seat Figure 361. Cylinder Head, Cylinder and Piston Assembly 346 2007 Buell Lightning Engine. HD9480457. Repeat for other end of rocker arm. 8733 8734 Figure 369. Replacing Rocker Arm Bushings 350 2007 Buell Lightning Engine. HD34751 and hot soapy water. Valve guide brush Part No. HD39786 Figure 371. Cleaning Valve Guides 2007 Buell Lightning Engine 351. Valve and Seat Dimensions 2007 Buell Lightning Engine 353. Cylinder base gasket 15. Exhaust valve 17. Exhaust valve seat Figure 374. Cylinder Head, Cylinder and Piston Assembly 354 2007 Buell Lightning Engine. Otherwise, damage to push rods or rocker arms may result. 2007 Buell Lightning Engine 357. Figure 382. Tightening Head Screws Figure 382. Place a new lower gaskets on lower rocker cover. Tighten screws to 120168 in lbs 13.618.9 Nm. 360 2007 Buell Lightning Engine. Piston Piston pin Retaining ring 2 Dowel and oring Cylinder Base gasket Cylinder stud 4 Connecting rod 10. Piston pin bushing Figure 385. Cylinder and Piston 2007 Buell Lightning Engine 361. Figure 388. To remove piston rings spread outward until they clear grooves in piston and lift off. 362 2007 Buell Lightning Engine. Try to insert a feeler gauge between the straight edge and the gasket surface. The cylinder is now clean. See SPECIFICATIONS. With the cylinder at room temperature, check the cylinder clearance. See SPECIFICATIONS. 364 2007 Buell Lightning Engine. Use care to prevent foreign material from falling into the crankcase. 2007 Buell Lightning Engine 367. Ring must be fully seated pointing towards the front of the engine. Install piston pin. 368 2007 Buell Lightning Engine. Remove protective sleeves from cylinder studs. Install a new cylinder base gasket. Make sure the piston does not bump the studs or crankcase. 2007 Buell Lightning Engine 369. Pclamp Feed oil line from oil cooler to crankcase 13. Oil line clamp Oil tank drain plug 14. Oil pump Figure 3106.