



Revision: 1.2 - 02/22/2010

CAUTION! We Strongly recommend that a qualified technician install this kit. No written or implied warranty is offered for Gen-Z pistons once parts are installed.

INSTRUCTIONS:

1. Install pistons with the arrows stamped in the top facing the exhaust ports.
 2. Piston to cylinder clearance is recommended at .003"
 3. Ring end gap is set .004 per inch of bore: 95mm = .015", 100mm = .016", etc. Additional ring end gap may be necessary for racing applications. See ring installation guide supplied with ring set (orange paper).
 4. These pistons are designed for use with larger valves without extra prep of valve pockets in pistons (up to +2mm intake and +3mm exhaust).
 5. 100 mm pistons will require boring and re-plating of cylinder wall.
 6. Check the piston for any burrs or sharp edges and sand as necessary.
 7. To set ring end gap: place ring in bore and push down evenly with a piston to a depth of one-inch. Remove piston and measure gap with a feeler gauge. File ring as necessary and repeat measurement until all rings are set. It is not necessary to set end gap on the oil scraper rings or the expansion ring.
 8. Install rings with mark facing up (small N" on the top of ring).
 9. Use a ring compressor to compress rings for a few minutes before you install piston into cylinder.
 10. Make sure sharp edges on lower cylinder skirt are chamfered so rings will not hang up during installation. This is especially important near the rod clearance cutouts, which are often very sharp.
 11. Use good assembly lube on wrist pins. Double-check direction of pistons before you install them.
 12. Cover crankcase opening while installing circlips to avoid dropping one into engine.
- NEVER REUSE A CIRCLIP.**
13. Place base gasket on crankcase.
 14. Lube piston with engine oil and install cylinder over piston, taking care not to bend or damage a ring. A wooden or plastic Popsicle stick or dowel can be very handy in pushing in on the ring while not damaging ring or piston.
 15. We provide a thinner than stock head gasket (approximately .010") for higher compression - you may use a stock gasket if you wish on the 95mm (Road Star) and 97mm (Warrior) pistons.
 15. Reassemble engine per Yamaha service manual procedures.
 16. Allow 600 miles for break in, and then perform an oil change.

Our install guides provide a basic outline on the proper installation of our products. Further tuning and/or fitment may be required. Barons bears no responsibility on installation costs associated with this product.
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17. Use of 91 octane or higher fuel is required to prevent engine damage.

18. Use of a DYNA 3000 ignition box is required to control timing and prevent engine damage caused by detonation.

Re-jetting may be required after installation - you are advised to have your jetting checked by a qualified technician NOTE: No written or implied warranty is offered for Generation-Z pistons once parts are installed.

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