

M-6009-347 347 CUBIC INCH BOSS SHORT BLOCK

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Please visit https://www.performanceparts.ford.com for warranty information

OVERVIEW:

The M-6009-347 engine short block assembly is used to build all 347 cubic inch engines FPP offers. These engines are intended for high performance or street rod vehicles (not subject to emission restrictions). The pistons will accept M-6049-X2, M-6049-Z2, M-6049-Z304PA and M-6049-Z304DA cylinder head assemblies.

Caution - Piston to valve clearance must be checked.

Short block components include:

- (1) M-6010-BOSS302 block.
- (8) Forged aluminum 4.030" Mahle pistons with a 6cc dish and full floating pins & pin locks.
- (8) Forged I beam rods bushed for floating pins (.927 diameter).
- (1) Forged Steel 3.400" stroke crankshaft.
- (Set) Clevite rod and main bearings.

Notes:

- 1. <u>PISTON TO VALVE CLEARANCE MUST BE CHECKED</u> with any high lift camshaft. Recommended minimum clearance is .100" intake, .125" exhaust, .060" radial.
- 2. Rod shoulder to cam lobe clearance must also be checked. If required, .050" minimum clearance.
- 3. The crank has been internally balanced to use neutral balance crankshaft dampers and flywheels.
- 4. M-6316-D302 "0" balance damper recommended.
- 5. M-6375-D302AB "0" balance manual transmission 157 tooth flywheel recommended.
- 6. A performance oil pan and pickup tube to suit the intended vehicle application should be used. (check pickup tube to crankshaft clearance), also check pick up tube to bottom of pan distance (1/2" +/- 1/16")
- 7. M-6600-D2 Oil pump recommended.
- 8. Head gasket M-6051-CP331 or M-6051-S331 recommended for most applications.

Specifications

Bore x Stroke 4.125" x 3.400"

Piston specs 1.090" compression height, notch volume 6.0 cc's

0.927" floating pin

1.0, 1.0, 2.0 mm ring pack

Deck height 8.200"

Piston to deck. 0.010" nominal

Note: all dimensions are nominal

Ford Factory Shop Manual purchase options www.motorcraftservice.com



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Clearances:

Piston to bore 0.0045 - .0060"

Ring end gap Top .020", 2nd .018" (+.001"/-.000")

Piston pin 0.0008 - .0012" Crank end play 0.004 - .008"

Main bearing clearance .0020 - .0025" Rod bearing clearance .0020 - .0025"

Rod side clear 0.012 - .022"

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