

EDELBROCK ENGINE BLOCK FOR BIG BLOCK CHEVY ENGINES Part #450000 & 450001 GENERAL INSTALLATION INSTRUCTIONS

PLEASE study these instructions carefully before beginning this installation.

Proper installation is the responsibility of the installer. Improper installation will void the manufacturer's warranty and may result in poor performance and engine or vehicle damage.

IMPORTANT NOTE: This instruction sheet provides general guidelines which can affect your warranty. Read it carefully. It is not our intent to cover each detail of installation here as the procedures are vehicle and engine specific. Building and installing an engine is a complicated procedure that requires a high level of automotive and mechanical knowledge. Consulting with an experienced engine builder is highly recommended.

AVAILABLE VARIANTS:

P/N 450000 - BBC Cast Iron Engine Block, Siamese 4.50" Bore, 9.80" Deck Height, **2-Piece Rear Main Seal, 10 Bolt Timing Cover** P/N 450001 - BBC Cast Iron Engine Block, Siamese 4.50" Bore, 9.80" Deck Height, **1-Piece Rear Main Seal, 6 Bolt Timing Cover**

SPECIFICATIONS FOR: 450001

SPECIFICATIONS FOR: 450000 Cvlinder WallSiamese Deck Height 9.80" **Cam Bearing Bore ID**2.120" Head Bolt PatternStandard BBC Inside Head Stud BossesYes Lifter BoresGen V. VI: Will Accept Link Bar Main Bearing SizeStandard BBC Main Caps......Nodular Iron, 4 Bolt Splayed Oil System Main Priority Oiling, Wet or Dry Sump Rear Main Seal2-Piece Hydraulic Roller Provisions: Will accept Gen V and VI & Most Link Bars **Tapped Holes**.....Standard Thread and Pitch Timing Chain / GearsStandard BBC Gen IV, V, VI Timing Cover Will Accept Mark IV. 10 Bolt Timing Cover Fuel Pump BossYes Starter Standard Location

Clutch Linkage BossYes

SPECIFICATIONS FUK: 450001	
Block Type Big Block	k Chevy
MaterialC	-
Cylinder WallS	iamese
Bore Size	4.500"
Max Recommended Bore Size	4.600"
Deck Height	9.80"
Cam Bearing Bore ID	2.120"
Camshaft PositionS	tandard
Head Bolt PatternStanda	ard BBC
Inside Head Stud Bosses	Yes
Lifter BoresGen V, VI: Will Accept L	
Main Bearing SizeStanda	
Main Bearing Bore 2.9370" - 2	
Main CapsNodular Iron, 4 Bolt S	
Oil SystemMain Priority Oiling, Wet or Dr	
Oil Cooler HolesIntegral t	
Rear Main Seal	
Hydraulic Roller Provisions: Will accept Gen V and	VI &
Most Link Bars	
Stud and Bolt HolesBlind	
Tapped Holes Standard Thread ar	
Timing Chain / GearsStandard BBC Gen	
Timing Cover: Will Accept Gen V and Gen VI, 6 Bol	t Timing
Cover	
Fuel Pump Boss	
StarterStandard L	
Clutch Linkage Boss	Yes

ANCILLARY PARTS FOR ASSEMBLY:

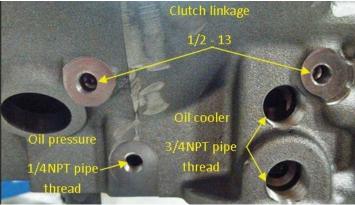
Oil Filter	Standard BBC
Head Bolts/Studs	Standard BBC
Distributor	Standard BBC
Push Rod	Stabdard BBC
Head Gasket	Fel Pro #1047 or 1067
	(Depends on bore size)
Cam Bearings	Clevite SH617S Recommended
Freeze Plugs	Standard 1-5/8" (included)

GENERAL INSTALLATION NOTES:

- Actual deck height is .005"-.010" taller for additional machining requirements.
- Head stud holes are blind and do not go into the water jacket. Make sure the head studs are lightly snugged. DO NOT torque them into the block. A sealant/anti-seize must be used on the head studs. Loctite #620 is recommended.
- Due to variations in lifter sizes and clearance preferences, engine builders prefer the lifter bores sized on the small end of the specification. In some cases, the lifter bores may require a light hone.
- Due to the wide variety of available rotating assembly components, it is important to check clearance of all moving parts, especially crankshaft counterweights and connecting rod to block. Rotating counterweights and connecting rods require .060" clearance. All parts MUST be checked before any machining is done.
- Final washing should be very thorough! Make sure particular attention is given to all oil galleys.
- Torque main cap bolt to 110 ft/lbs inner and outer.

REFERENCE IMAGES:











NOTE: If your engine requires an oil cooler or dry sump set up, you must install a 5/8" core plug to the bottom of the step in the red outlined oil galley located under the oil filter housing. An additional bypass is also required under the oil filter adapter as shown below.

