abline.

PLEASE study these instructions carefully before beginning this installation. If you have any questions, please call our **Technical Hotline at: 1-800-416-8628**, 7:00 AM - 5:00 PM Pacific Standard Time, Monday through Friday.

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: 450000

Block Type	Big Block Chevy
Material	Cast Iron
Cylinder Wall	Siamese
Bore Size	
Max Recommended Bore Si	
Deck Height	
Cam Bearing Bore ID	
Camshaft Position	
Head Bolt Pattern	Standard BBC
Inside Head Stud Bosses	
	Gen V, VI: Will Accept Link Bar
Main Bearing Size	
Main Bearing Bore	
Main Caps	Nodular Iron, 4 Bolt Splayed
	iority Oiling, Wet or Dry Sump
-	Integral to Block
Rear Main Seal	Ũ
Hydraulic Roller Provisions:	Will accept Gen V and VI &
Most Link Bars	
Stud and Bolt Holes	Blind Tapped
	Standard Thread and Pitch
	Standard BBC Gen IV, V, VI
•	Mark IV, 10 Bolt Timing Cover
•	Yes
Starter	
Clutch Linkage Boss	
-	

SPECIFICATIONS FOR: 450001

Block TypeBig Block Chevy	
Material	
Cylinder WallSiamese	
Bore Size	
Max Recommended Bore Size	
Deck Height	
Cam Bearing Bore ID	
Camshaft Position Standard	
Head Bolt PatternStandard BBC	
Inside Head Stud BossesYes	
Lifter BoresGen V, VI: Will Accept Link Bar	
Main Bearing SizeStandard BBC	
Main Bearing Bore	
Main CapsNodular Iron, 4 Bolt Splayed	
Oil System Main Priority Oiling, Wet or Dry Sump	
Oil Cooler HolesIntegral to Block	
Rear Main Seal 1-Piece	
Hydraulic Roller Provisions: Will accept Gen V and VI &	
Most Link Bars	
Stud and Bolt HolesBlind Tapped	
Tapped Holes Standard Thread and Pitch	
Timing Chain / GearsStandard BBC Gen IV, V, VI	
Timing Cover: Will Accept Gen V and Gen VI, 6 Bolt Timing	
Cover	
Fuel Pump Boss	
StarterStandard Location	
Clutch Linkage Boss	

ANCILLARY PARTS FOR ASSEMBLY:

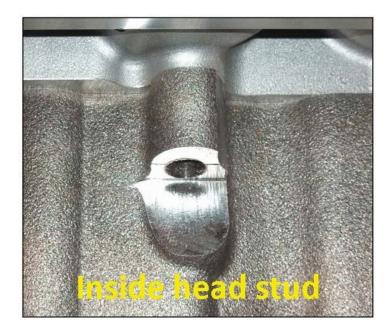
Oil Filter	Standard BBC
Head Bolts/Studs	Standard BBC
Distributor	Standard BBC
Push Rod	Stabdard BBC
Head Gasket	Fel Pro #1037, 1047 or 1067
	(Depends on bore size)
Cam Bearings	Clevite SH617S Recommended
Freeze Plugs	Standard 1-5/8" (not included)

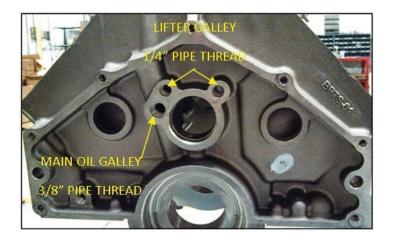
GENERAL INSTALLATION NOTES:

- 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:

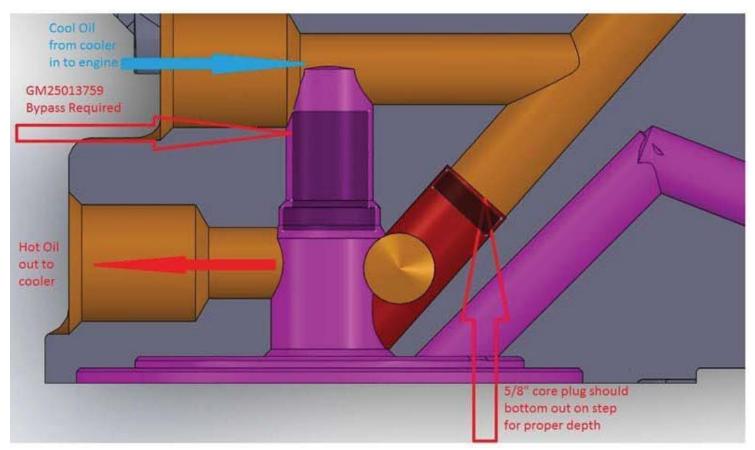




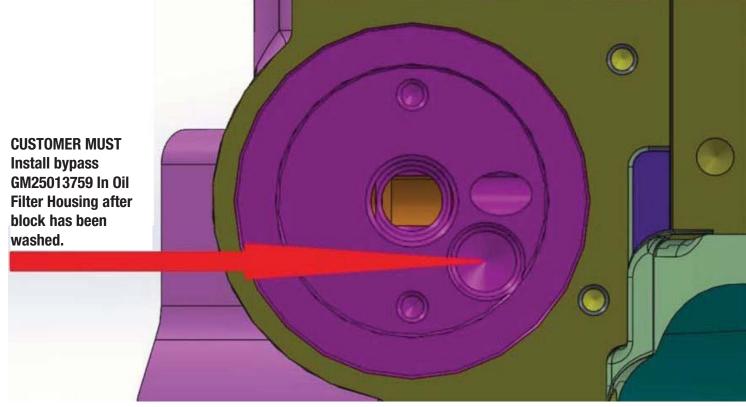




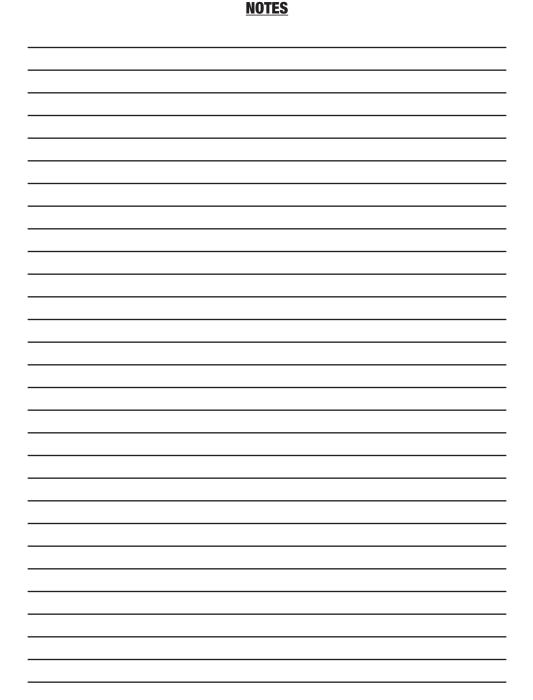
Part # 450000, 450001 Rev. 2/21/18 - NP NOTE: If your engine requires an oil cooler or dry sump set up, you must install a 5/8" core plug to the bottom of the step in the red outlined oil galley located under the oil filter housing. An additional bypass is also required under the oil filter adapter as shown below.



NOTE: When using a bolt-on oil filter adapter with a built-in bypass, the diagram below DOES NOT apply.



Part # 450000, 450001 Rev. 2/21/18 - NP





Edelbrock LLC • 2700 California St. • Torrance, CA 90503 Tech Line: 1-800-416-8628