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INSTALLATION METHOD

FOR HEAD BOLT KITS

Kit Number: K001-HB01E

Application: **Chevrolet
Big Block, OEM Fitment
W/502 Heads**



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Kit: KO01-HB01E Alloy: E190 Socket Required: 1/2"

KIT CONTENTS

(8) BK7E 6pt Flange Bolt, 7/16-14 x 2.00" under head length, 1/2" wrenching, E190 series, black oxide finish

(16) BL2E 6pt Flange Bolt, 7/16-14 x 3.95" under head length, 1/2" wrenching, E190 series, black oxide finish

(8) BL4E 6pt Flange Bolt, 7/16-14 x 5.00" under head length, 1/2" wrenching, E190 series, black oxide finish

(32) WJ3T Chamfered Washer, 11mm/7/16" nominal diameter, hardened & ground, black oxide finish

LBO1 TORQUEPOINT Fastener Assembly Lube, 1oz packet

LBBR Lube application brush

FASTENER INSTALLATION

(NOTE: THIS PROCESS IS IDENTICAL TO WHAT WE DO DURING TORQUE-TENSION TESTING AT P1 HQ)

1. Inspect kit contents for damage and confirm quantities.
2. Thoroughly clean all debris from engine block holes and threads.
3. Ensure all mating deck surfaces and fastener bearing surfaces are flat, free of debris and dry of any cleaning related products.
4. Inspect all deck gaskets for damage, fitment, & suitability.
5. Remove WASHERS from packaging and remove rust preventative coating from all faces of the WASHERS, place on clean rag (petroleum-based solvent is recommended).

6. Remove remaining fasteners and place on clean shop rag, clean threads as required, **(do not unnecessarily remove the rust preventative)**.
7. WITHOUT LUBE, washers, gaskets or heads, thread the bolts into their intended holes BY HAND ONLY until the bolt bottoms or thread run-out occurs (DO NOT USE TOOLS). Achieving smooth installation without tools is necessary. Remove fasteners and clean or repair threads if needed.
8. Liberally apply TORQUEPOINT assembly lube to the entire length of the threaded section of the fastener using included brush. Work the lube into the threads all the way around the threaded section so the lube is nearly flush with the outer diameter of the thread face.
9. To pre-lubricate the internal threads - install the bolts into their intended holes BY HAND ONLY until the bolt bottoms or thread run-out occurs (DO NOT USE TOOLS).
10. Remove all bolts from the block and place on clean rag. Wipe any excess thread lubricant from the block mating surfaces.
11. Apply TORQUEPOINT assembly lube and/or redistribute existing lubricant on the bolt threads to ensure all thread surfaces contain lubricant.
12. Apply TORQUEPOINT to each bolt's under head surface. **Do not apply any lubricant to the washers.** The washer should not rotate during fastener installation.
13. Fit the Head (and appropriate gasket) on block and install bolts with washers hand tight. **It is imperative that the chamfered side of the washer is "up" and mated against the under head of the bolt.**

TORQUE RECOMMENDATIONS

Follow the applicable OEM and/or aftermarket manufacturers suggested torque sequence & number of tightening steps.

P1 Fasteners, paired with TORQUEPOINT thread lube, can sustain the following nominal torque inputs and clamp loads while remaining below their minimum proof load rating.

*****DO NOT EXCEED THESE TORQUE INPUT VALUES*****

*****THESE VALUES WILL NOT BE APPLICABLE WHEN USING OTHER LUBRICANTS*****

**7/16" E190 HEAD BOLTS
7/16-20 THREADS**

Torque: **70 ft-lbs**
Typical Clamp Load: **11,400 lbs-force**

Note: The number of aftermarket replacement parts and OEM combinations of components is numerous. **Use caution as the clamp loads above may damage your assembly** - use lower installation torques such as those provided by the manufacturer of your components if applicable.