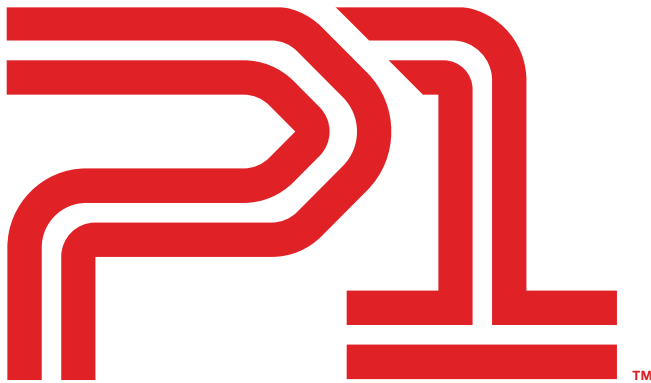




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INSTALLATION METHOD

FOR HEAD STUD KITS

Kit Number: **KO44-HO1S**

Application: **Dodge Cummins**

Diesel 12V, 5.9L, '89-'98



Point One, LLC

MAILING: PO BOX 677
ROGERSVILLE, MO 65742

SHIPPING: 11 WHITE OAK ROAD,
ROGERSVILLE, MO 65742

www.P1mfg.com

417-753-5174

Kit: KO44-H01S Alloy: S220 Sockets Required: 10MM, 14MM

KIT CONTENTS

(6) SW1S Stud, MJ12x1.75 x MJ12x1.25 threads, 3.42" OAL, S220, black oxide finish

(14) SW2S Stud, MJ12x1.75 x MJ12x1.25 threads, 5.75" OAL, S220, black oxide finish

(6) SW3S Stud, MJ12x1.75 x MJ12x1.25 threads, 7.85" OAL, S220, black oxide finish

(6) BH3E 12PT FLANGE BOLT, MJ8x1.25 threads, 2.95" UHL, E190, black oxide finish

(26) NE9F 12pt Flange Nut, MJ12x1.25 threads, 14MM wrenching, black oxide finish

(26) WA6T Flat Washer, 12MM diameter, hardened and ground, black oxide finish

LBO1 TORQUEPOINT Fastener Assembly Lube, 1oz packet

LBBR Lube application brush

FASTENER INSTALLATION

(NOTE: INSTALLATION OF THIS KIT IN STOCK APPLICATIONS MAY REQUIRE MODIFICATION OF THE ROCKER ARM PEDESTALS TO ALLOW CLEARANCE FOR NUTS & WASHERS AS WELL AS MODIFICATIONS TO THREADED HOLES IN BLOCK TO ALLOW STUDS TO SIT AT PROPER HEIGHT ABOVE DECK - WE STRONGLY RECOMMEND USING A PROFESSIONAL ENGINE MACHINE SHOP FOR THOSE MODIFICATIONS)

(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 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 rust preventative).
7. WITHOUT LUBE, washers, gaskets or heads, thread studs into their intended holes BY HAND ONLY until stud 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. Remove fasteners from their holes and apply TORQUEPOINT assembly lube to entire length of block end threads of fastener using included brush. Work lube into threads all the way around threaded sections so lube is nearly flush with outer diameter of thread face.
9. Install studs into block by hand or using hex key with light force only.
10. Thoroughly clean any visible fastener lube from mating surfaces and fit gasket and head on block.
11. Install pushrods and rocker arm assembly as per OEM instructions.
12. install washers onto head studs. Washers should be dry during installation. DO NOT USE LUBE ON WASHERS.
13. Apply TorquePoint assembly lube to entire length of nut end threads of fasteners using included brush. Work lube into threads all the way around threaded sections so lube is nearly flush with outer diameter of thread face. Lube should be evenly distributed and not excessive.
14. Apply TorquePoint assembly lube to each nut's bearing surface only. Do not use lube on washers. Install nuts with washers, hand tight. Washer should not rotate during torque procedure.
15. Apply TorquePoint assembly lube to rocker arm pedestal bolts' threaded area and underhead bearing surface. Install bolts hand tight.

TORQUE RECOMMENDATIONS

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

Point One fasteners, paired with TorquePoint assembly lube, can sustain the following nominal torques 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*****

**SW1S, SW2S, SW3S Stud
w/NE9F Nut, MJ12x1.25
threads**

Torque: **125 ft-lbs**

Typical Clamp Load: **16,800 lbs-force**

BH3E Bolt, MJ8x1.25 threads

Torque: **25 ft-lbs**

Typical Clamp Load: **5,200 lbs-force**

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