

**1989-1998.5
Dodge 5.9L Cummins 12-Valve
Main Stud Kit**

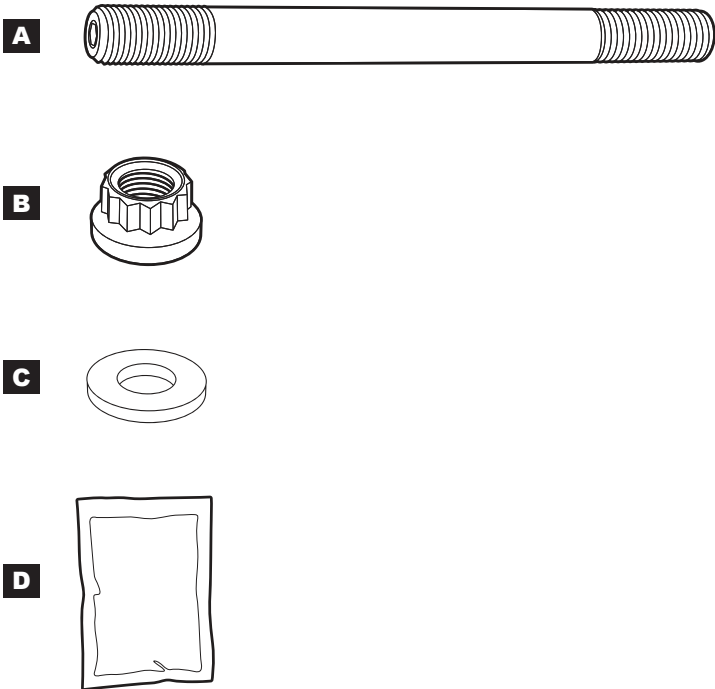
(218035000)

Installation Guide

ATTENTION: We recommend the installation of this part be done by a trained professional GM technician. PPE will not accept liability for damage resulting from incorrect assembly.

These instructions are not intended as a service or overhaul manual. These instructions are intended to facilitate the modification of non-factory parts installation by a trained professional.

NOTE: Tolerances will change when changing from factory to high-strength fasteners. It will be necessary to check main bearing bores for proper size and out-of-round condition after installation of the studs. Hone the cylinder block if necessary. Main bores should always be align-honed using the same fasteners and lubricant which will be installed, at the recommended preload, during the final engine assembly.



CONTENTS

A: (14) M14 MAIN BEARING STUD - 148MM LENGTH

B: (14) M14 NUT

C: (14) M14 WASHER, 25MM OD

D: (1) ASSEMBLY LUBRICANT

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Prior to installation, please inspect for any damage or defects and clean all hardware. Verify product part number matches your application. Make sure kit is complete with no missing parts.

NOTE:

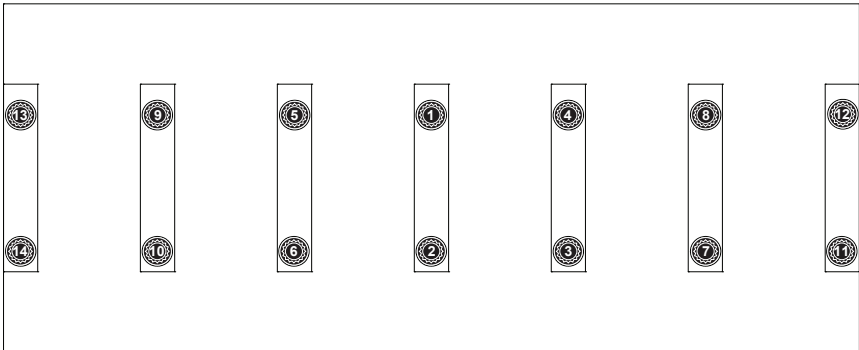
Loctite may be used for permanent mounting. Torque sequences must be complete prior to Loctite hardening.

Clean all threads in the engine block. Use a bottoming thread chaser if necessary. This would ensure thread engagement and more accurate torque readings.

Install M14 Studs into the block and hand-tighten without tools (equivalent of 20-30 lb-in.). Install main caps and check for proper alignment.

Lubricate the threads of all M14 Nuts with the Assembly Lubricant provided. Install the Washers and Nuts onto the Studs.

Tighten Nuts in three steps using the torque sequence shown in the image below. Torque specs for each step are: 60 lb-ft, 120 lb-ft, and 175 lb-ft (final).



DISCLAIMER OF LIABILITY

Performance products can increase horsepower above and beyond factory specifications. Additional horsepower creates more stress on the drive-train components, which could result in drive-train failure.

Note regarding emissions-related, non-E.O.-legal products: THESE PRODUCTS ARE LEGAL IN CALIFORNIA ONLY FOR RACING VEHICLES THAT MAY NEVER BE USED, OR REGISTERED OR LICENSED FOR HIGHWAY OR OFF-ROAD USE.

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LIMITATION OF WARRANTY

The Seller gives Limited Warranty as to description, quality, merchantability, and fitness for a particular purpose, productiveness, or any other matter of Seller's product sold herewith. The Seller shall not be responsible for the products proper use and service and the Buyer hereby waives all rights other than those expressly written herein. This warranty shall not be extended, altered or varied except by a written instrument signed by Seller and Buyer.

Limited lifetime warranty on all PPE cast aluminum products, and PPE Transmission Coolers. Three (3) year limited warranty on PPE Manifolds and Up-Pipes Kits, and OEM-Length Up-Pipes. One (1) year limited warranty on all other PPE products from the date of sale to original buyer and limited solely to the parts contained within the products kit. All products that are in question of Warranty must be returned prepaid to the Seller and must be accompanied by a dated proof of purchase receipt. All Warranty claims are subject to approval by Seller. Under no circumstances will the Seller be liable for any labor charged or travel time incurred in diagnosis for defects, removal, or re-installation - of this product or any other contingent expenses. Under no circumstances will the Seller be liable for any damage or expenses incurred by reason of the use or sale of any such equipment. In the event that the buyer does not agree with this agreement: the buyer may promptly return this product, in a new and unused condition in its original packaging, with a dated proof of purchase to the place of purchase within ten (10) days from date of purchase for a full refund. The installation of this product indicates that the buyer has read and understands this agreement and accepts its terms and conditions.



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