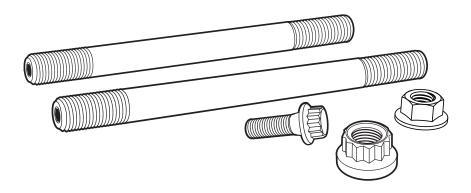


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Chevy LS Gen III/IV Small Block Main Stud Kit

(118130100)

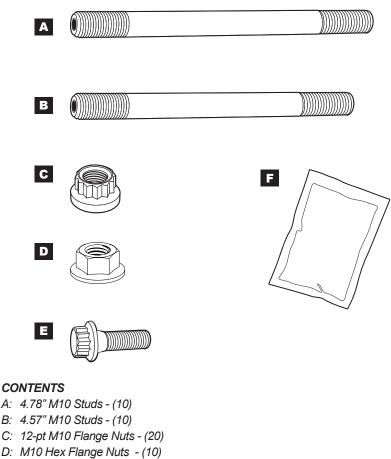
Installation Guide



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.



- E: 12-pt M8 Bolts (10)
- F: Fastener Assembly Lubrication 1-oz. (1)

Inspect for damage or defects and clean all hardware prior to installation. Verify product part number matches your application.

NOTE:

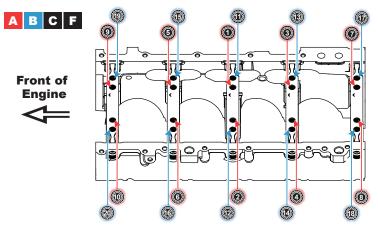
Loctite may be used for permanent mounting. Torque sequences must be complete prior to Loctite hardening.

Clean all threads in the engine block. Use a Bottoming Thread Chaser if necessary, to ensure thread engagement, and more accurate torque readings.

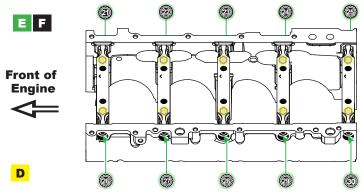
Install Inner (A) and outer Studs (B) into the block. Hand-tighten without tools (equivalent of 20-30 in. lbs.). Verify consistent Stud (A) height using a straightedge ruler. Install the main caps and check for binding or misalignment.

Lubricate Stud (A & B) threads, M10 12-pt Flange Nuts (C) with the Fastener Assembly Lubricant (F). Then install the M10 12-pt Flange Nuts onto the studs and hand tighten them.

Tighten nuts in three equal steps using the torque sequence to a total spec: (Red) 1-10 *Inner studs* – 4.78" *long* 60 *lb-ft (Blue)* 11-20 *Outer studs* – 4.57" *long* 50 *lb-ft*



Lubricate M8 12-pt Bolt (E) threads with Lubricant (F). (Green) 21-30 Tighten M8 Cross Bolts to torque spec = 20 lb-ft.



Tighten Windage tray nuts to torque spec – 28 lb-ft

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.

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