

Olson Kustom Works

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FOR REVISIONS 4.7-5.0 BRACKETS, HIGH AND LOW ALTERNATOR LOCATIONS

Thank you for your purchase from OKW. If you have any questions about your products feel free to call or email! Copies in Color PDF format are available at our website, OKW-Inc.com under the product page.

This front drive system was designed with every aspect covered. Fitment, performance, and appearance have all been a high priority from conception to shipping! Please read this manual completely before starting this install. There are a few special tools needed, and you may have to borrow or rent them before disassembling your vehicle. Everything this kit uses is a factory removed or factory replacement part. Any wear item is available at any parts store.

TO CONSERVE PAPER AND KEEP COSTS LOW, OUR INSTRUCTIONS FOR OUR PRODUCTS ARE AVAILABLE IN COLOR AT OKW-INC.COM UNDER THE PRODUCTS PAGE. PLEASE REFER TO THE INSTRUCTIONS ON THE PAGE AS THEY ARE THE MOST CURRENT REVISION.

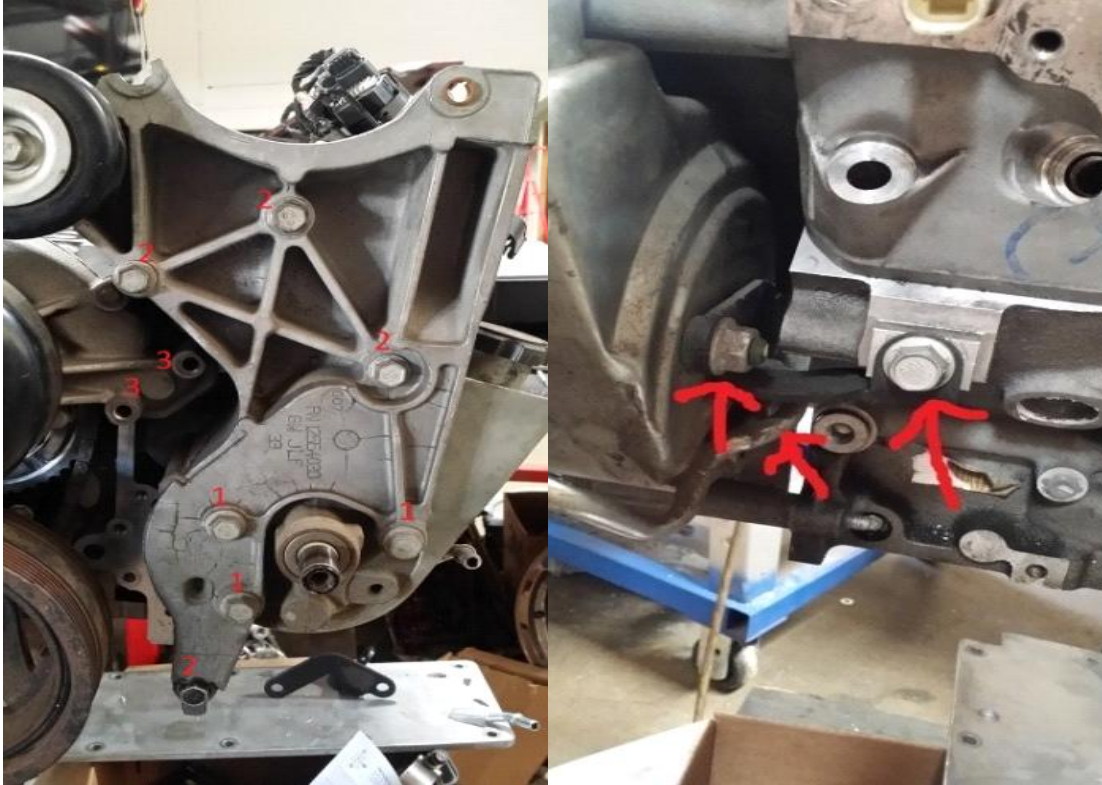
Parts List:

- 1 Main Bracket Assembly
- 1 Additional Idler Dayco PN 89052
- 2 M8x130mm Hex Bolt (Water Pump)
- 2 M8 Washers
- 2 M10x130mm Hex Bolt (Main Bracket)
- 1 M10x80mm Hex Bolt (Outer Alternator)
- 2 M10x40mm Hex Bolt (PS Long)
- 1 M10x30mm Hex Bolt (PS Short)
- 2 M10x50mm Hex Bolt (Idlers)
- 8 M10 Washers
- 1 Thick M10 Washer (Lower Idler)
- 2 0.635" M10 Spacer (Idler Spacers, one is undercut)
- 1 0.260" M10 Spacer (PS Short)
- 2 0.650" M10 Spacers (PS Long, One is reduced shank)
- 1 3.900" M10 Spacer (Main Bracket to Block)
- 1 1.850" M10 Spacer (Alternator Inboard)
- 2 1.450" M8 Spacers (Water Pump)
- 1 M10 Nyloc Nut

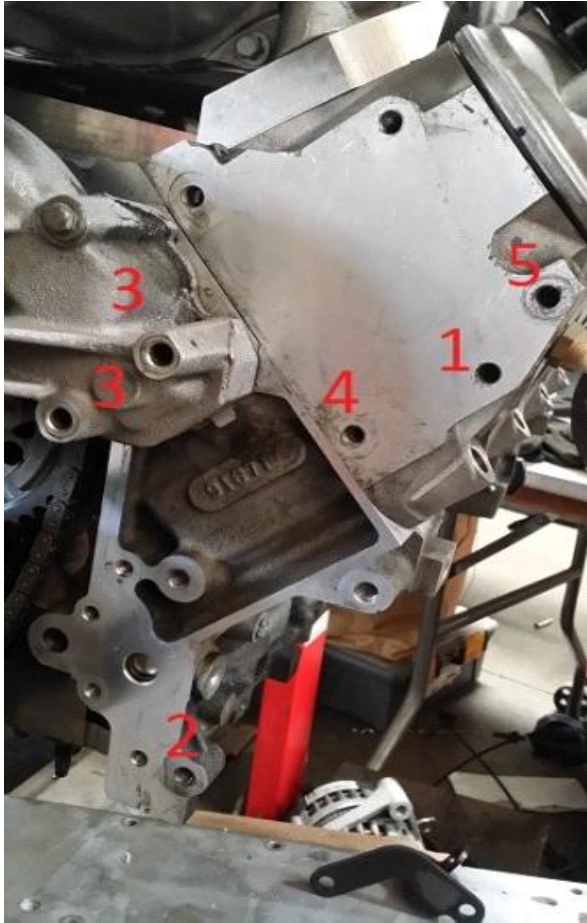
All M10 Bolts will be torqued to 37 Ft Lbs, and all M8 Bolts will be torqued to 18 Ft Lbs AT THE END OF THE INSTRUCTIONS unless otherwise specified.

First, the 2 special tools you will need are a power steering pulley removal/installation tool, and if your vehicle has a mechanical fan, you will need a fan clutch wrench to remove it from the water pump pulley.

- Remove belt, fan assembly, and mechanical fan if equipped, along with the shroud if included.
- Remove alternator, upper idler pulley, and power steering pulley from pump.



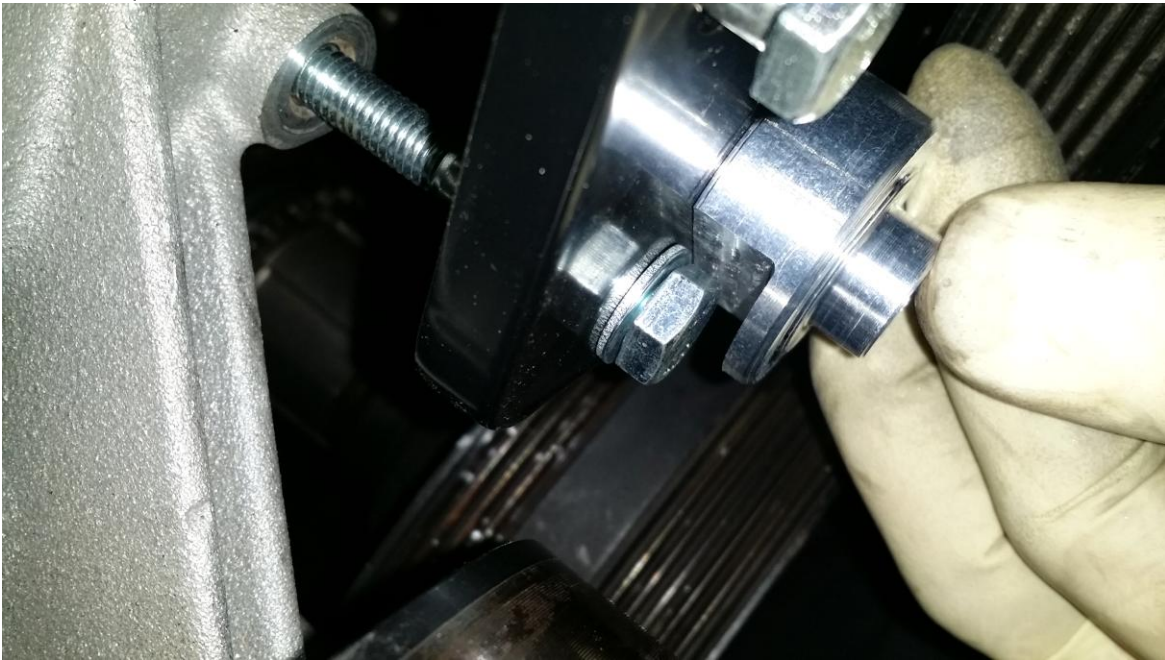
- BEFORE removing the PS pump from the bracket, you need to bend the lines slightly to clear the new locations. The high pressure line that points towards the drivers headlight needs to be bent to point forward, directly at the radiator. If this isnt done now, its very hard to bend with the pump loose, and will cause the pump to not bolt into the new bracket, or you will need to remove the lines and bend them before reinstalling them in the pump.
- Remove the 3 bolts from the front of the power steering pump to the aluminum bracket (**Marked 1**), and the 2 nuts on the back holding the steel support bracket. Also remove the bolt going to the block on that same support bracket. This bracket will be reused later. (**Arrows**)
- Tie the power steering pump out of the way.
- Remove the main aluminum front drive bracket using the 4 15mm bolts at the front (**Marked 2**). Some models have a jump start point on the side, this will just be zip tied out of the way at the end. There are 2 8mm bolts holding it on.
- Remove the 2 lower drivers side water pump bolts, leaving the very top one in place (**Marked 3**).
- This is what you should be left with: (This was done on a mock up block, hopefully you have an oil pan and timing cover in place!!)



- In some versions of the bracket there are additional holes other than the ones listed in the picture above, disregard these. We try to minimize any waste products and some brackets fit multiple applications.
- See above for these next steps. All bolts will have a washer on them under the head.
- Next we put the power steering pump back on the bracket. YELLOW HOLES. There are 3 spacers and 2 different length bolts. The shorter bolt and spacer go on the outward side of the pump. The long, cut down spacer goes on the top, inner bolt with the large side facing the spacer, and the straight longer spacer goes on the very bottom bolt. There are 2- 40mm and 1- 30mm bolt. Go ahead and torque these to 37 Ft Lbs. Don't install the pulley yet.



- Take a 10MMx130 bolt and place it through the RED hole on the bracket, with the 3.900" spacer, into hole 2 on the block. Snug these bolts but DO NOT TIGHTEN COMPLETELY UNTIL THE END!
- A 10MMx130mm bolt with the 1.850" spacer goes through the left PURPLE hole in the bracket, through the alternator, through the spacer, and into hole 5 on the head.
- 2 8MMx130mm bolts with washers go through the BLUE holes, with the 2 8MM 1.450" spacers, then through the water pump bolt holes.
- The 10MMx80mm bolt with a washer goes through the outer PURPLE hole, through the alternator, and has a washer and Nyloc on the back side.
- Now, on the front of the bracket, rock the bracket back and forth to center it on the bolts, and torque all M10 bolts to 37 Ft Lbs, then tighten the 2 M8 water pump bolts to 18 Ft Lbs.
- You can put the power steering pulley on at any time now.
- Take the stock idler that was removed earlier, and hammer out the factory bolt and remove the stock spacer. Take the factory dust cover off the bolt, you will reuse it.
- Install the stock idler that was removed at the beginning into the UPPER GREEN threaded hole with the .635" spacer. Use the stock dust cover, a washer, and the 10MMx50mm bolt. Install the Dayco Idler with the other 50mm bolt and THICK washer into the LOWER GREEN threaded hole. The undercut portion of the spacer goes over the 8mm bolt for the water pump. Both Idlers will be torqued to 37 Ft Lbs.



- To mount the bracket on the back side of the power steering pump, place the bracket on just how it came off, using the 2 stock 10MM flange nuts. The bolt hole that goes to the block may need to be bent slightly to line up, and use the stock 10MM bolt that you removed earlier.

- See Addendum if you are using a factory early style truck water pump and LS3 heads with no adapter spacers.
- Once your blower is installed, you need to measure for a belt. Belt routing is pictured below. The easiest way to measure is using wire or string. The part number of a belt is the key to getting the right one. There are 2 formats. The "K" is the belt profile, the 6 is the number of ribs, and the number after that is either the length in inches or CM. A 1010K6 is a 6 rib K belt 101.0 inches long. Same belt is also a 6PK2565. Dayco has a tool online to select a belt PN based on length. Most parts stores can reference this number to any other manufactured. Dayco Polycog and Goodyear are both good belts. Now for the measuring:
- Take a string or wire and wrap the pulleys following the picture below. Mark or cut the string/wire where they meet. Since belts are measured from the BACK of the belt, and you are measuring in the groove, this will give you the closest measurement. Leave the tensioner alone while measuring with the string, since it will throw off your measurement.