

***Shown optional black alternator and power steering pump which can be purchased separately. Not included with kit.**

***LS Alternator & Saginaw Power Steering Serpentine Kit
Kit # 20300***

Alternator Bracket 20301

- 1-20301-AAlternator Bracket
- 1-20143-AAlternator Re-Locator
- 1-S1445/16" x 7/8" SHCS
- 1-S2483/8" x 1" SHCS
- 2-S547M8 x 140mm SHCS
- 1-S557M8 x 120mm SHCS
- 1-S579M10 x 170mm SHCS
- 1-TP3-.9003/8" x .900 Tube Spacer
- 2-TP3-2.4303/8" x 2.430 Tube Spacer
- 1-TP7-3.7507/16" x 3.750 Tube Spacer
- 1-RA-2.5002.500 Adjustment Rod

Power Steering Bracket 20302

- 1-20302-AFront Main P/S Bracket
- 1-20302-BRear P/S Support Bracket
- 1-S2623/8" x 2-1/2" SHCS
- 1-S3123/8" x 1" Hex Head
- 1-S3223/8" x 1-1/2" Hex Head
- 1-S511M10 x 20mm Hex Head
- 2-S547M8 x 140mm SHCS
- 1-S554M8 x 80mm SHCS
- 4-S6663/8" Flat Washer
- 1-TP3-.4003/8" x .400 Tube Spacer
- 1-TP3-1.3303/8" x 1.330 Tube Spacer
- 2-TP3-2.4303/8" x 2.430 Tube Spacer

***NOTE:** Inspect all items for any imperfections or shortages of items. If any of those instances do come up, please call our tech line that's listed below. If you prefer a color copy of these instructions, please refer to our website listed below and click the instructions tab on your product's web page. Some pulleys might have powdercoat build up and it may be necessary to remove with light grit sandpaper. These pulleys include alternator inner hole, and any pulley with a pilot shaft or locator hole.

Pulley Kit 20300-206

- 1-6362-AWater Pump Pulley
- 1-6341-ACrank Pulley
- 1-623-APower Steering Pulley
- 1-360-APower Steering Pulley Cap
- 1-306-AAlternator Pulley Cap
- 1-221-AAlternator Fan
- 1-206-AAlternator Pulley
- 3-S0288-32" x 1" SHCS
- 3-S1061/4" x 1-1/4" SHCS
- 4-S1865/16" x 7/8" SHCS
- 3-S2483/8" x 1" SHCS
- 1-S68511/16" Lock Washer

Accessories

- 1-P116Aluminum Water Pump



***NOTE:** This LS kit is designed for mechanical throttle body, driver side drive by wire throttle body and carbureted engines.



PHOTO-1

In the center water pump hole mount the (RA-2.500) adjustment rod placing a (TP3-.990) spacer tube between the water pump and the adjustment rod. Secure with a M8 x 140mm SHCS (S547) as shown.

PHOTO-2

Install the main alternator bracket (20301-A) to the passenger side water pump upper and lower mounting holes. Use two (TP3-2.430) spacer tubes between the water pump and the bracket, securing down with two M8 x 120mm SHCS (S557). Leave loose at this time.

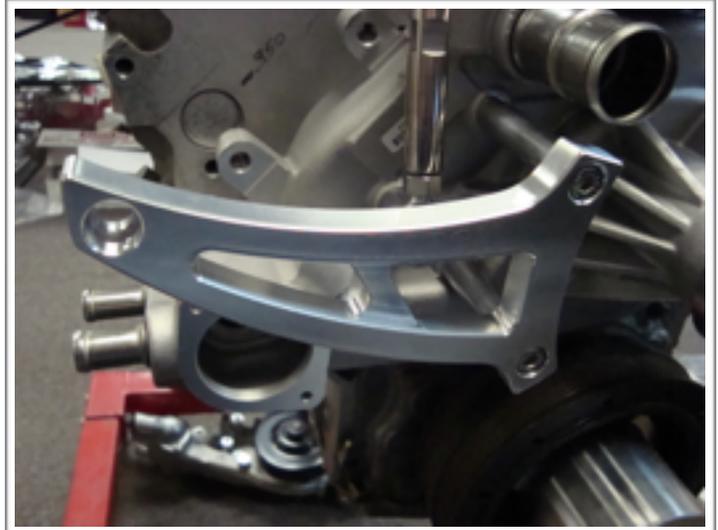


PHOTO-3

Mount the power steering main bracket (20302-A) to the drivers side water pump mounting holes. In the open outer hole use one M8 x 80mm SHCS (S554). Next use two (TP3-2.430) spacers between the water pump and the bracket. Secure with two M8 x 130mm SHCS (S547). Leave loose at this time.



PHOTO-4

To install alternator hold alternator behind bracket then run a M10 x 170mm SHCS (S579) through bracket and alternator ear. Insert a (TP7-3.750) spacer between the head and the alternator ear. Now mount the alternator fan (221-A), then the alternator pulley (206-A). Use the provided (S685) lock washer your alternator nut and impact. Then install the alternator cap (306-A) using three 8-32" x 1" SHCS (S028).

PHOTO-5

Now mount the alternator re-locator bracket (20143-A) to the back side of the upper alternator ear and secure with a 5/16" x 7/8" SHCS (S144). Now attach the adjustment rod to the back side of the re-locator with a 3/8 x 1" SHCS (S248) and tighten.



PHOTO-6

Mount the power steering pump to the rear side of the main bracket . In the upper hole use a 3/8 washer (S666) with a 3/8" x 1" hex bolt (S312). The lower hole will use a 3/8" washer (S666) with a 3/8 x 1-1/2" hex bolt (S322) and insert a (TP3-.400) tube spacer between the pump and bracket.

PHOTO-7

Install the rear power steering support bracket (20302-B) to the outer head bolt using a 3/8" washer (S666) and a M10 x 20mm hex bolt (S511). Leave loose at this time.

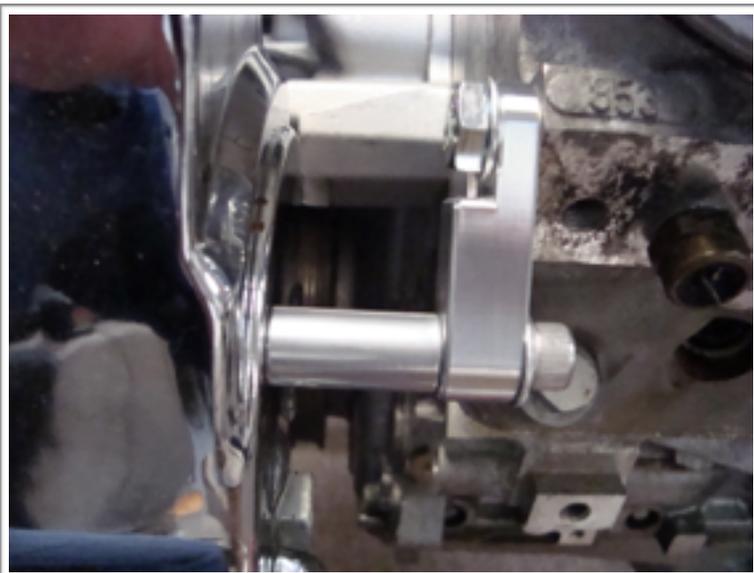


PHOTO-8

Attach the rear support bracket to the rear of the power steering pump using a (TP3-1.330) spacer between the pump and rear support. Secure with a 3/8" washer (S666) and a 3/8" x 2-1/2" SHCS (S262).

PHOTO-9

Install required hub adapter to factory balancer. Remove stock 16mm bolt, and place adapter onto balancer. Apply loc-tite to supplied M16 x 130mm bolt (S569) and install with new 11/16" (S686) washer and tighten down to secure hub.

***NOTE:** Hub adapters must be purchased separately based off your balancer. Bolt and washer are included in hub adapter, **NOT** in the serpentine kit.

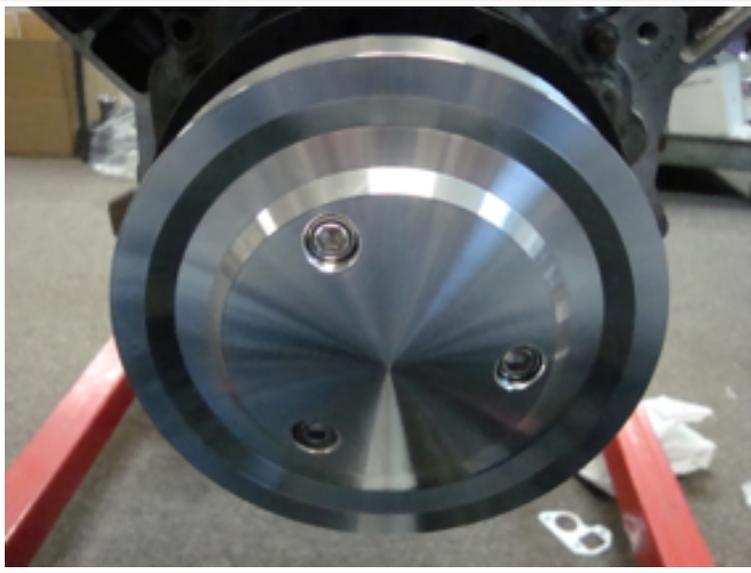


PHOTO-10

Mount the crank pulley (6341-A) to the adapter hub using three 3/8" x 1" SHCS (S248).

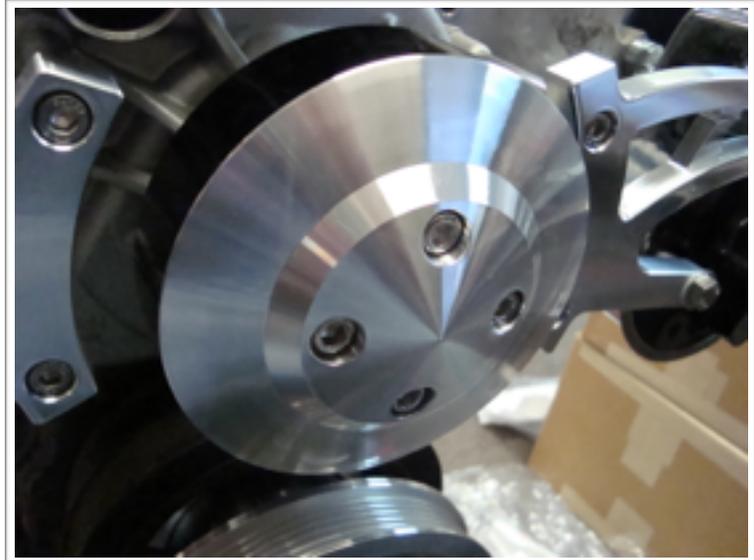


PHOTO-11

Mount the water pump pulley (6362-A) with four 5/16" x 7/8" SHCS (S186).



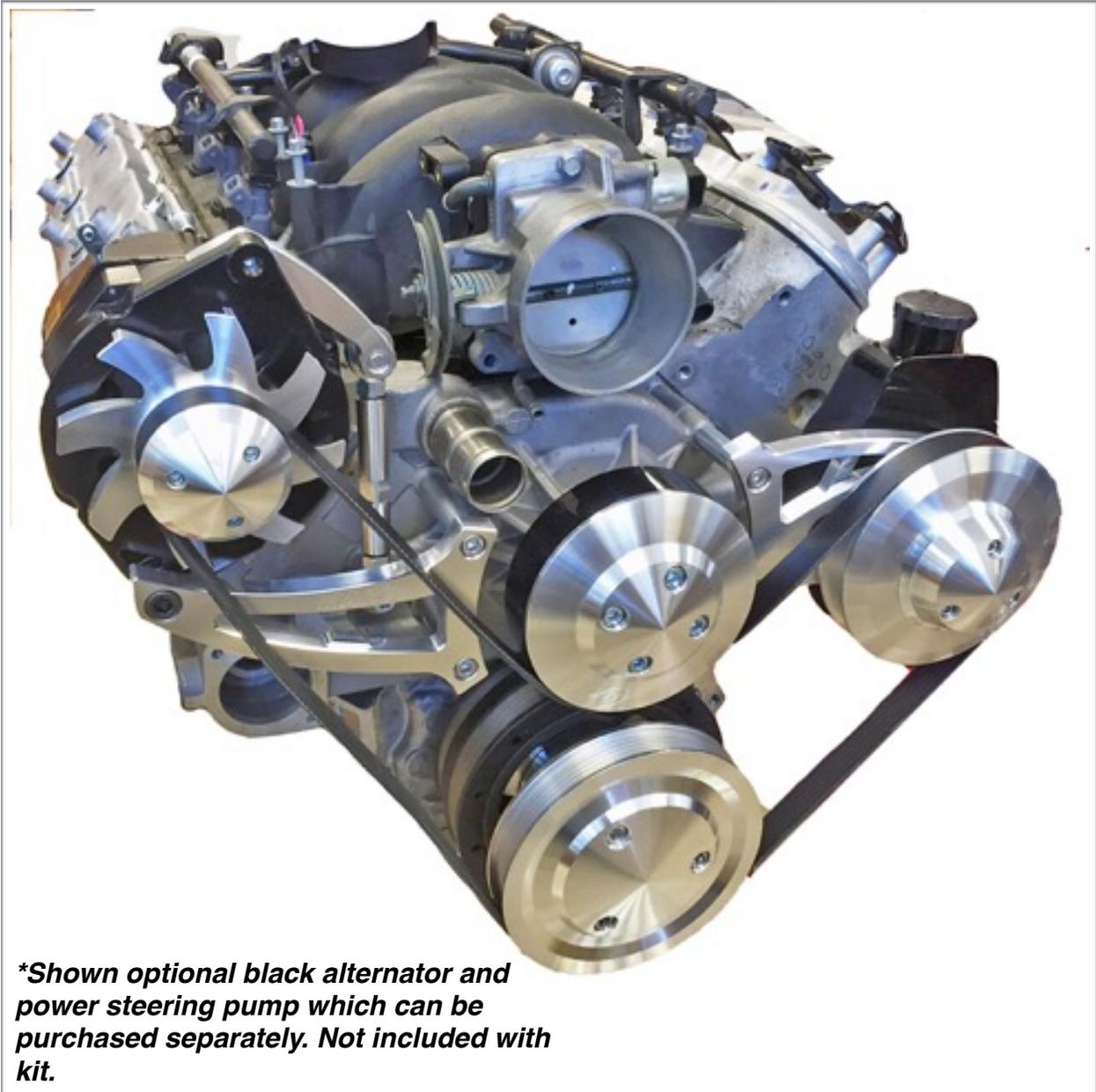
PHOTO-12

Mount the power steering pulley (623-A) by aligning the keyway and securing with the power steering lock nut. Then add the power steering nose cover (360-A) using three 1/4" x 1-1/4" SHCS (S106).

PHOTO-13

With the adjustment rod all the way in, install the **64" Dayco (5060640)** belt and tighten by turning adjustment rod expanding it outward to tighten belt. Due to belt variations in may be necessary to remove adjustment rod, install belt and re-install adjustment rod and tighten. Make sure all bolts are tight on all brackets and pulleys before running engine.

***NOTE:** Due to belt variations in manufacturing it may be necessary to get belts that are either larger or smaller than we recommend. We recommend using Dayco manufactured belts.



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