

\*Shown with optional chrome alternator, power steering pump & air conditioning compressor. Also shown with optional Edelbrock LS aluminum water pump. All parts can be purchased separately.

***LS Mid Mount A/C, Alternator & Power Steering Serpentine Kit  
Kit # 20335***

**Alternator & Mid Mount A/C Bracket #20331**

- 1-20331-A.....Alternator & A/C Main Bracket
- 1-20331-B.....A/C Rear Support Bracket
- 1-20143-A.....Alternator Re-Locator Bracket
- 1-740-AA.....Idler Pulley
- 1-302-A.....Idler Pulley Cap
- 3-S022.....8-32" x 3/8" SHCS
- 1-S144.....1/4" x 7/8" SHCS
- 1-S163.....5/16" x 3-1/4" SHCS
- 1-S248.....3/8" x 1" SHCS
- 1-S321.....3/8" x 1-3/4" Hex Head Bolt
- 1-S511.....M10 x 20mm Hex Head Bolt
- 2-S547.....M8 x 140mm SHCS
- 2-S551.....M8 x 25mm SHCS
- 1-S557.....M8 x 120mm SHCS
- 1-S579.....M10 x 170mm SHCS
- 1-S616.....5/16" Lock Nut
- 2-S660.....5/16" Flat Washer
- 2-S666.....3/8" Flat Washer
- 1-TP3-.990.....3/8" x .990 Tube Spacer
- 1-TP3-1.330.....3/8" x 1.330 Tube Spacer
- 2-TP3-2.430.....3/8" x 2.430 Tube Spacer
- 1-TP7-3.750.....7/16" x 3.750 Tube Spacer
- 1-RA-2.500.....2.500 Adjustment Rod

**Pulley Set #20335-206**

- 1-6393-A.....Dual Serpentine W/P Pulley
- 1-6391-A.....Dual Serpentine Crank Pulley
- 1-623-A.....Keyway Power Steering Pulley
- 1-394-A.....A/C Clutch Cover
- 1-360-A.....Power Steering Pulley Cover
- 1-313-A.....W/P Pulley Nose Cap
- 1-306-A.....Alternator Pulley Cap
- 1-221-A.....Alternator Fan
- 1-206-A.....Alternator Pulley
- 3-S028.....8-32" x 1" SHCS
- 3-S106.....1/4" x 1-1/4" SHCS
- 3-S124.....1/4" x 3/4" Button Head SHCS
- 4-S186.....1/4" x 7/8" SHCS
- 3-S248.....3/8" x 1" SHCS
- 3-S520.....M6 x 20mm Metric Button SHCS
- 1-S685.....11/16" Lock Washer

**Power Steering Bracket #20332**

- 1-20332-A.....P/S Front Main Bracket
- 1-20332-B.....P/S Rear Support Bracket
- 1-S248.....3/8" x 1" SHCS
- 1-S312.....3/8" x 1" Hex Head Bolt
- 1-S322.....3/8" x 1-1/2" Hex Head
- 1-S511.....M10 x 20mm Hex Head Bolt
- 3-S557.....M8 x 120mm SHCS
- 4-S666.....3/8" Flat Washer
- 1-AC3-.200.....3/8" x .200 Tapered Washer
- 1-TP3-.300.....3/8" x .300 Tube Spacer
- 3-TP3-1.275.....3/8" x 1.275 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.



### PHOTO-1

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-2

Mount the 2-1/2" adjustment rod (RA-2.500) to the water pump using a M8 x 120mm SHCS (S557) and a (TP3-.990) between bolt and adjustment rod.



### PHOTO-3

Take the two M8 x 140mm (S547) SHCS and run through the main bracket (20331-A). Next install two (TP3-2.430) spacer tubes running the bolts through them and mount bracket to the water pump. Mount the idler pulley (740-A) to the bracket using a 3/8" x 1-3/4" (S321) hex bolt with a 3/8" (S666) washer between bolt and idler.



### PHOTO-3

Mount the a/c rear support (20331-B) as shown to the lower head bolt. Use a 3/8" washer (S666) with a M10 x 20mm hex bolt (S511). (Leave finger tight for now).

#### PHOTO-4

Mount the a/c unit to the lower two ears of the bracket using two M8 x 25mm SHCS (S551). Now add the a/c nose cover (394-A) using three M6 x 20mm (S520) metric button heads or three 1/4" x 3/4" (S124) button heads depending on your clutch. \*NOTE Do Not over-tighten nose cover bolts, may cause clutch damage once engaged.



#### PHOTO-5

Tie the rear bracket support (20331-B) to the rear a/c ear using a 5/16" x 3-1/4" SHCS (S163) with a TP3-1.330 spacer between bracket and rear ear of compressor. Use two 5/16 washers (S660), one behind bolt and one in front of a/c ear and tighten down with 5/16 Lock nut (S660).

#### PHOTO-6

Mount the alternator. Use a (TP7-3.750) spacer between the head and the alternator. Secure with a M10 x 170mm SHCS (S579). Now install the (221-A) fan then the (206-A) alternator pulley. Secure with the (S685) lock washer and alternator nut. Now add the (306-A) alternator pulley cover using three 8-32" x 1" SHCS (S022).

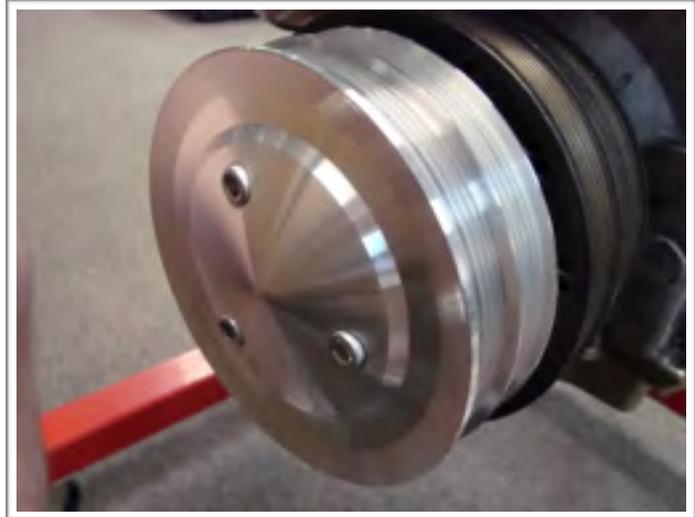


#### PHOTO-7

Mount the (20143-A) alternator re-locator to the back side of the alternator ear using a 5/16-18 x 7/8" (S144) SHCS. Now tie the adjustment rod to the re-locator with a 3/8" x 1" (S248) SHCS. Make sure the adjustment rod is mounted on the back side of alternator re-locator.

### PHOTO-8

Mount the crank pulley (6391-A) to the hub adapter using three 3/8" x 1" SHCS (S248).



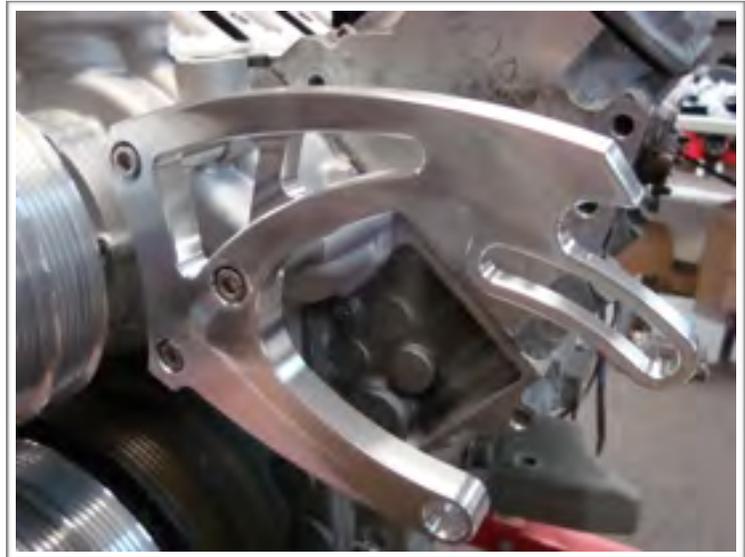
### PHOTO-9

Mount the water pump pulley (6393-A) along with the (313-A) nose cover with four 5/16-24 x 7/8" SHCS (S186). **\*NOTE:** If using a mechanical fan **DO NOT** install the water pump cap. We **DO NOT** supply bolts for mechanical fans or adapters.



### PHOTO-10

Mount the power steering bracket (20332-A) with three M8 x 120mm SHCS (S557) and then place three (TP3-1.275) spacers between the bracket and water pump.



### PHOTO-11

Mount the rear p/s support to the head (20332-B) using one M10 x 20mm (S511) hex bolt and a 3/8" washer (S666).

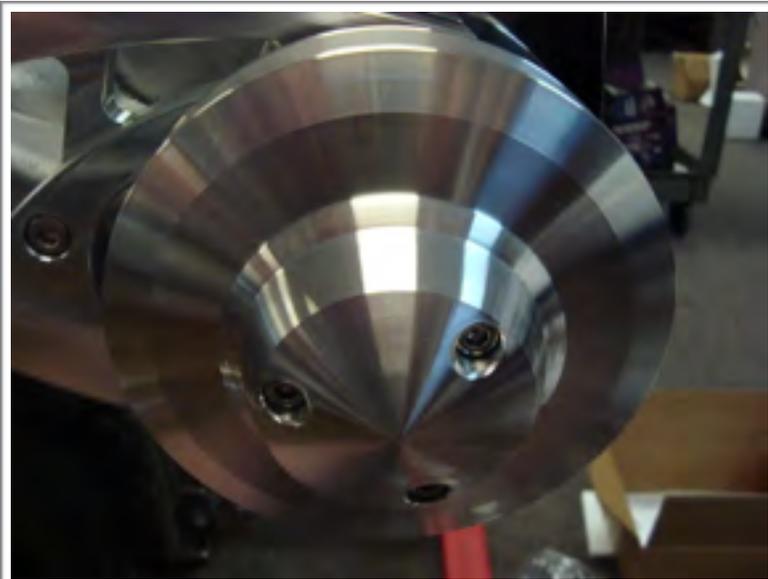


**PHOTO-12**

Mount the power steering pump to the bracket, first in the lower mounting point use a (AC3-.200) aluminum spacer between the bracket and the pump and tighten with a 3/8 x 1" SHCS (S248). In the upper hole will use two 3/8" washers (S666) between the bracket and the pump. Secure the upper slotted hole with a 3/8" x 1" (S312) hex bolt and a 3/8" (S666) washer as shown. (Leave loose at this time.)

**PHOTO-13**

Tie the rear support bracket with a 3/8" x 1-1/2" hex bolt (S322) with a 3/8" washer (S666), then run through the rear support and a (TP3-.300) spacer tube between the pump and the rear support. (Leave loose at this time.)

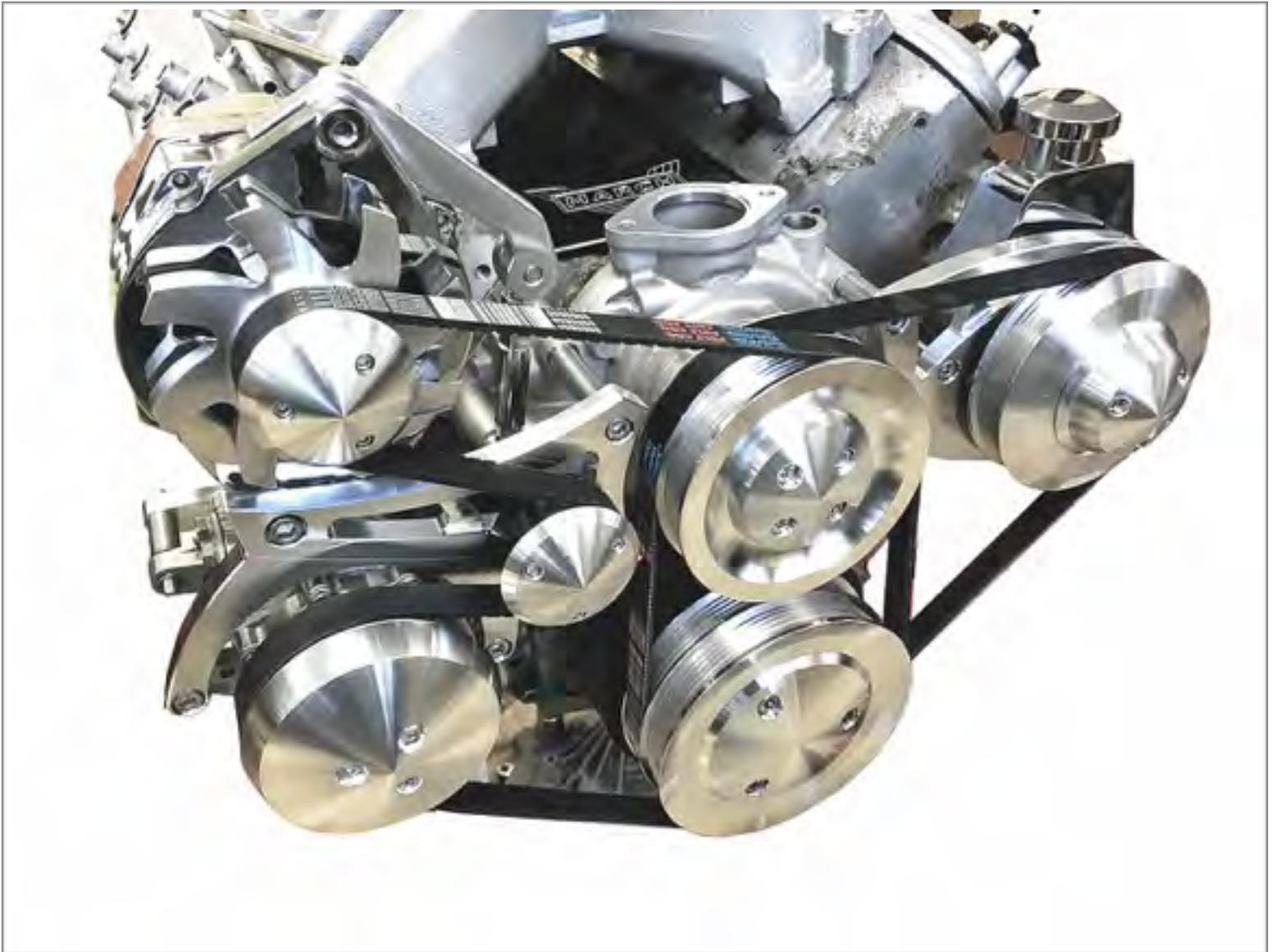
**PHOTO-14**

Install the (623-A) power steering pulley securing with the lock nut. Add the (360-A) p/s cover with three 1/4" x 1-1/4" SHCS (S106).

## PHOTO-15

First install the **45-1/2" Dayco (5060455)** belt on p/s side first, then pull up to tighten and lock down front and rear support bracket bolts. Then install a **60" Dayco (5060600)** belt on the alternator, a/c side second. 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. Once belts are installed install idler pulley cover (302-A) and tighten with three 8-32" x 3/8" (S022) bolts. 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.



Tech Support:  
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