

Kit 20090-08 / 20095-08

LS-Alternator / Power Steering Kit
LS Alternator / Power Steering & A/C Kit

PARTS LIST

Alternator Bracket

1-20021A-08	.....	Main Alternator Bracket
1-P763-A	.....	Idler Pulley
1-S321	.....	3/8 x 1-3/4" Hex Bolt
3-S547	.....	M8 x 1.25 x 140mm SHCS
1-S551	.....	M8 x 1.25 x 25mm SHCS
1-S568	.....	M10 x 1.5 x 140mm SHCS
1-S666	.....	3/8 Washer
3-TP3-2.375	.....	Tube Spacer
1-TP7-2.625	.....	Tube Spacer

Power Steering Bracket (option)

1-20022A-08	.....	Main Mounting bracket
2-S550	.....	M8 x 20mm SHCS
3-TP3-1.730	.....	Tube Spacer

A/C Bracket

1-20024A-08	.....	Front Bracket
1-20026A-08	.....	Spacer Block
1-20027A-08	.....	Rear Support Bracket
1-S158	.....	5/16 x 2-1/2" SHCS
1-S452	.....	5/8 threaded bushing
2-S551	.....	M8-1.25 x 25mm SHCS
1-S561	.....	M10-1.5 x 30mm SHCS
2-S563	.....	M10 x 70mm SHCS
1-S616	.....	5/16 Lock nut

Tensioner Bracket

1-20028A-08	.....	Bracket
1-S324	.....	3/8 x 2-1/4" Hex Bolt
3-S545	.....	M8-1.25 x 95mm SHCS

Accessories

1-P116	.....	LS Water Pump
1-P344	.....	P/S pump w/Hub
1-P425	.....	A/C Compressor
1-P525	.....	Alternator
1-P755	.....	Belt Tensioner
1-419	.....	A/C Hose Fittings

Pulleys

1-6361A-08	.....	Crank Pulley
1-6362A-08	.....	W/P Pulley
1-208A-08	.....	Alt. Pulley
4-S186	.....	5/16 x 7/8" SHCS
3-S248	.....	3/8 x 24 x 1" SHCS
1-S685	.....	Lock Washer

Power Steering Option

1-650A-08	.....	P/S pulley
3-S144	.....	5/16 x 7/8 SHCS

Sold separately crank pulley hubs (Required for Installation)

355-Hub (Camaro)

356-Hub (LS-7)

358-Hub (Corvette Hub)

Note when using a Crank hub, Install hub into the factory crank pulley by removing the center bolt installing the hub and replace the bolt with the provided (S686) washer and The M16 x 130 MM Hex bolt and re-torque.





Photo-1

Mount the water pump (P116) and gaskets. Start with the drivers side and install the alternator bracket (20021-A). Non P/S kit will use three (TP3-2.375) spacers to mount the alternator bracket. Secure with three M8 x 140mm SHCS (S547). If using optional power steering, stack bracket (20022-A) behind the alternator bracket. Then add three (TP3-1.730) spacer tubes between the P/S bracket and the water pump. Secure with three M8 x 140mm SHCS (S547).

Photo-2

Install the (P763-A) idler pulley to the bracket using the provided 3/8 x 1-3/4" Hex Bolt (S321) and also a 3/8 washer (S666). Now mount the alternator (P525) to the main bracket. In the upper bracket hole use a M8 x 25 MM SHCS (S551). In the outer bolt hole use the provided M10 x 140mm long SHCS (S568). Between the head and the rear of the alternator use the (TP7-2.625) tube spacer. Slide the bolt thru the main bracket, then the alternator, spacer tube and finally thread into the outer tapped hole of the head. Now install the alternator pulley (208A-08) use the (S685) lock washer then alternator nut and impact the pulley on.

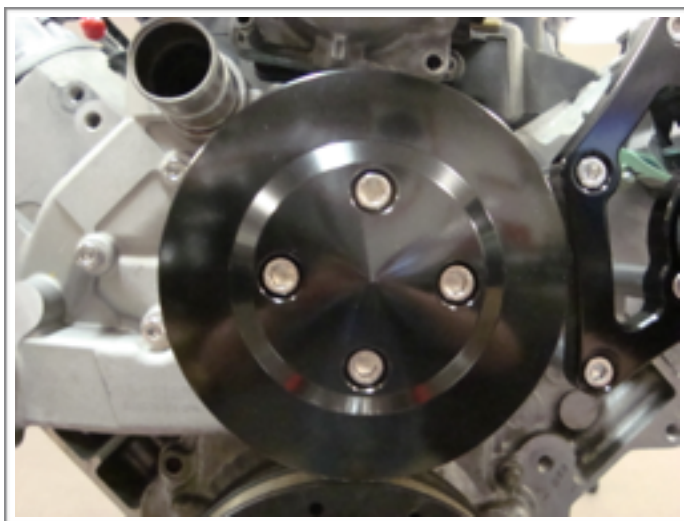
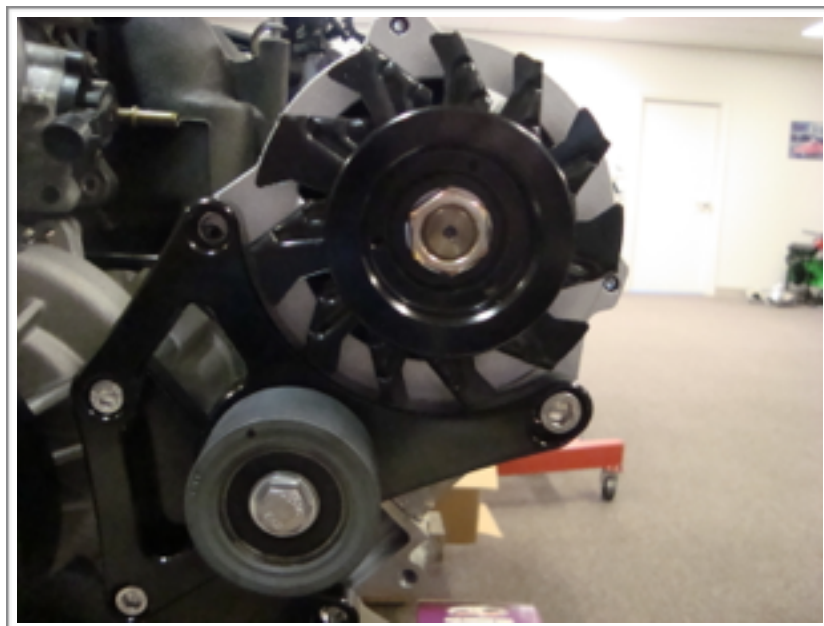


Photo-3

Install the water pump pulley (6362A-08) use four (S186) 5/16 x 7/8" SHCS.



Photo-4

Install the crank pulley (6361A-08) onto the pre-installed hub with three 3/8-16 x 1" SHCS. (S248).



Photo-5

Install the tensioner bracket (20028A-08) to the passenger side of the water pump using three M8-1.25 x 95mm SHCS (S545) as



Photo-6

Mount the belt Tensioner (P755) to the idler bracket using a 3/8 x 2-1/4" Hex Bolt (S324). Align the pin with the hole in the bracket and tighten.

Photo-7

Mount the Power Steering pump (P344) to the power steering bracket. Use two (S550) M8-1.25 x 20mm SHCS. NOTE: If not running power steering move on to photo 9.

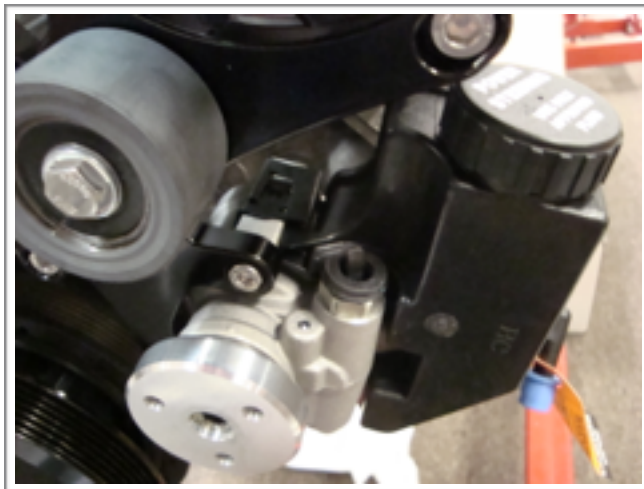




Photo-8

Install the P/S pulley (650-A) using three 5/16 x 7/8" SHCS (S144).

Photo-9

Mount the front A/C bracket (20024A-08) to the backside of the front A/C unit (P425) mounting ears, with the counterbores facing up. Run the two bolts, coming from the back side, using two M8-1.25 x 25mm SHCS (S551).

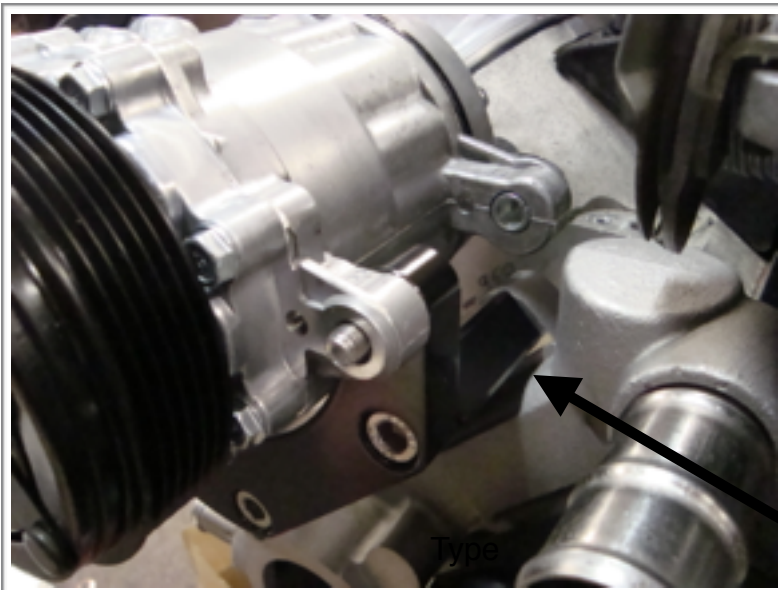


Photo-10

Mount the A/C front support bracket to the two passenger side water pump ears by using the spacer bracket (20026A-08) between the W/P ears and the front support bracket. Use two M10 x 70mm SHCS (S563) to install the compressor bracket to the water pump ears.

20026A-08
Spacer Block

Photo-11

To install the rear A/C support (20027A-08), first install the (S452) 5/8 threaded bushing as shown and the M10-1.25 x 30mm SHCS (S561) into the counterbored slot. Use the 5/8 bushing to adjust any gap in the rear A/C unit ear.

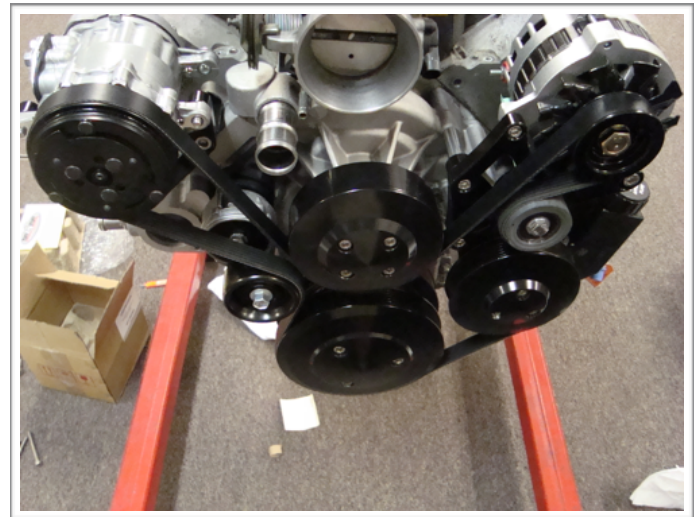


Photo-12

Mount the rear support to the outer head bolt on the passenger side with the M10-1.25 x 30 mm SHCS then run the 5/16 x 2-1/2" bolt (S158) thru the rear counter sunk outer hole of the rear support, then thru the rear A/C ear and secure with the 5/16 Lock Nut (S616).

Photo-13

Install the belt by pulling the tensioner back away from crank pulley with a socket on the center bolt. Now install the 76" for power steering, and 71-1/2" for non-power steering kits. Route belt making sure to have the belt wraps under the water pump last. Make a final round making sure all bolts and nuts are tight.



Final Assembly

IMPORTANT: If you are not installing hoses and charging the A/C system at this time, leave the cover plate on the compressor. Do not connect the compressor wire or apply power to the clutch wire without the hoses connected and the system charged. ***Serious damage will occur to the compressor.***

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2. To avail yourself of this Limited Warranty, return the Product with a copy of the paid receipt, postage paid to:

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3. When returning the Product, you must follow the directions set forth on the Warranty/Return Form on the reverse side of this Limited Warranty. If you no longer have the Warranty/Return Form, one may be obtained by contacting March Performance during normal business hours at: (888) 729-9070.

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No product mounted is considered for credit unless it is a manufacturer defect.

All products returned for any reason must reference an authorization number (RGA). The RGA number is obtained by calling place of purchase during normal business hours. Any product returned without the RGA# written on the return package next to the return shipping label will be refused.

All returns must ship via UPS and be properly packaged in the original carton. Return freight charges are the responsibility of the customer unless the product was shipped in error.

March product returned after (1) year from date of purchase will not be accepted unless it is found to be a manufacturer defect. The customer must include a written statement describing the alleged product defect. The complete Limited Warranty is set forth on the reverse side.

100% credit issued on manufacturer defects

20% return fee on all reshelvable product

70% return fee on all repairable product

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March Performance thoroughly inspects all returns. It is the sole discretion of March Performance in determining the condition of all returned merchandise.

To receive replacements at no charge the original product must first be received and inspected by March Performance for determination. Immediate replacements may be purchased and later credited upon inspection determination.

Please Complete the Information below, detach and include with returned product.

RGA# _____ CT# _____ Issued by: _____ Date _____

Purchaser's Name _____ Phone _____

Address _____

Purchased Directly Through _____ Invoice# _____

Product ID _____ Invoice Date _____

Reason _____

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