



Kit 20030 & 20035

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

20021 Alternator Bracket

1-20021-A	Main Alternator Bracket
1-740-A	Idler Pulley
1-302-A	Idler pulley cover
3-S022	8/32 x 3/8" SHCS
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

20022 Power Steering Bracket (option)

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

20024 A/C Bracket

1-20024-A	Front Bracket
1-20026-A	Spacer Block
1-20027-A	Rear Support Bracket
2-S563	M10 x 70mm SHCS
2-S549	M8-1.25 x 25mm SHCS
1-S561	M10-1.5 x 30mm SHCS
1-S158	5/16 x 2-1/2" SHCS
1-S616	5/16 Lock nut
1-S452	5/8 threaded bushing

20028 Tensioner Bracket

1-20028-A	Bracket
1-307-A	Alt Cap
1-780-A	Cap Retainer
3-S025	8-32 x 5/8" SHCS
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-P412	A/C Compressor
1-P576	Alternator
1-P755	Belt Tensioner
1-417	A/C Hose Fittings

Pulleys

1-6361-A	Crank Pulley
1-6362-A	W/P Pulley
1-394-A	A/C Cover
1-307-A	Alt. Pulley Cap
1-221-A	Alt. Fan
1-208-A	Alt. Pulley
3-S028	8/32 x 1" SHCS
3-S124	1/4 x 3/4" Button Head
4-S186	5/16 x 7/8" SHCS
3-S248	3/8 x 24 x 1" SHCS
3-S520	M6-1.0 x 20mm Button Head
1-S685	Lock Washer

Power Steering Option

1-650-A	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.



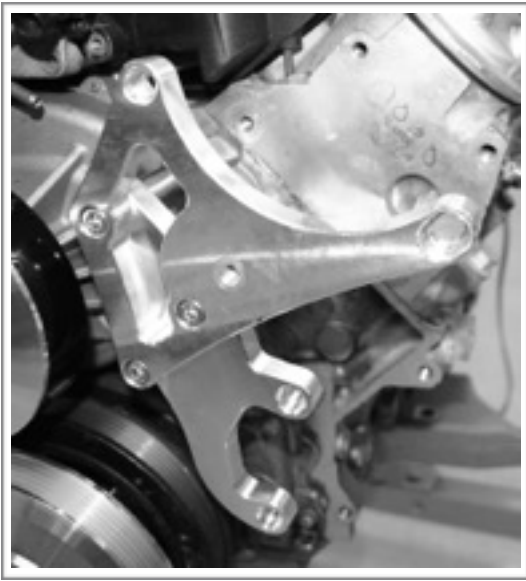


Photo-1

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 (740-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 (P576) 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 fan (221-A). Install the alternator pulley (208-A) use the (S685) lock washer then alternator nut and impact the pulley on. Now add the Alt. Cap (307-A) install with three 8-32 x 1" SHCS (S028) as shown.

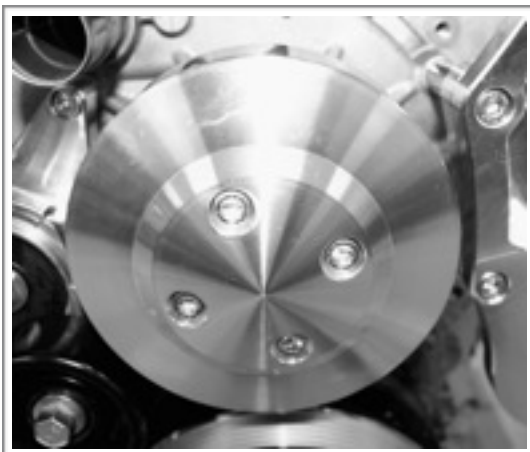


Photo-3

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

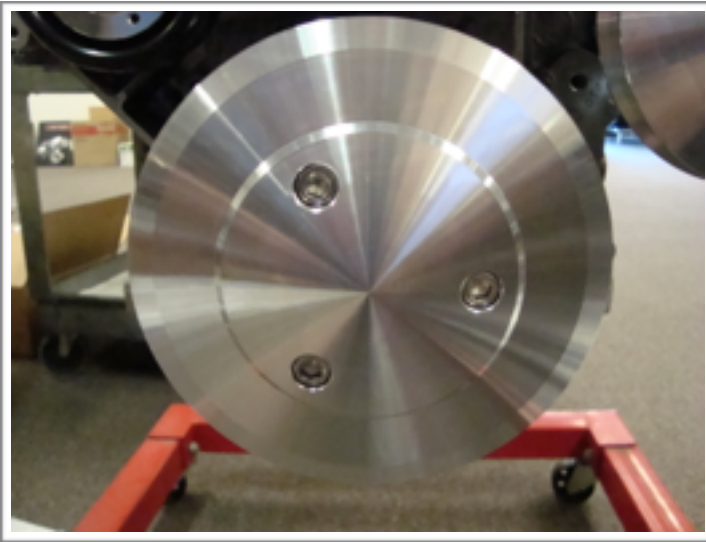


Photo-4

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



Photo-5

Install the tensioner bracket (20028-A) 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. Now remove the idler pulley by un-bolting counter clockwise and discard washer and install the cap retainer (780-A). Then re-install the bolt and pulley. DO NOT use factory washer!!

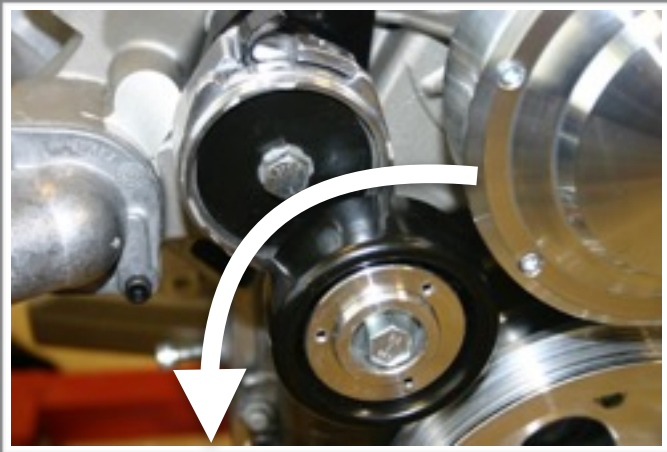


Photo-7

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.

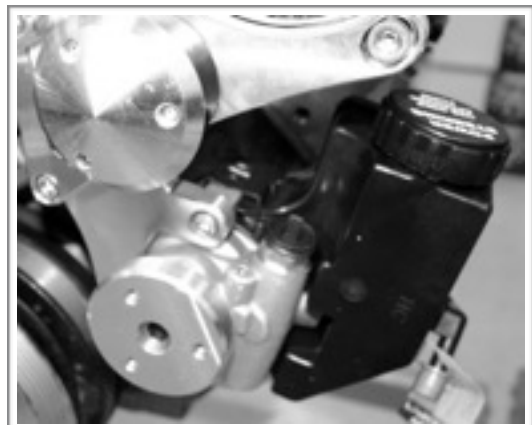




Photo-8

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

Photo-9

Mount the front A/C bracket (20024-A) to the backside of the front A/C unit (P412) 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).

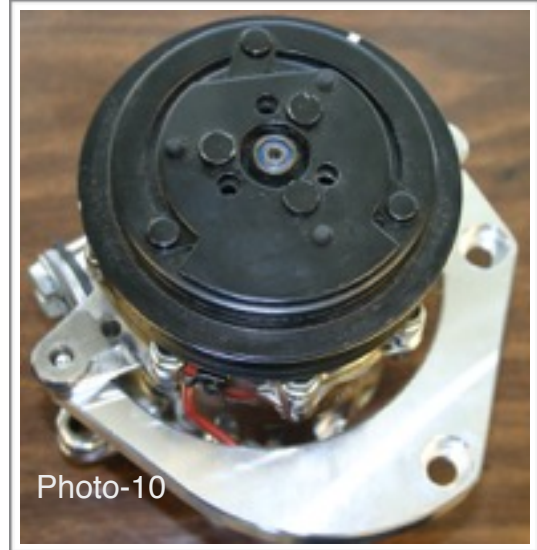


Photo-10

Mount the A/C front support bracket to the two passenger side water pump ears by using the spacer bracket (20026-A) 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.

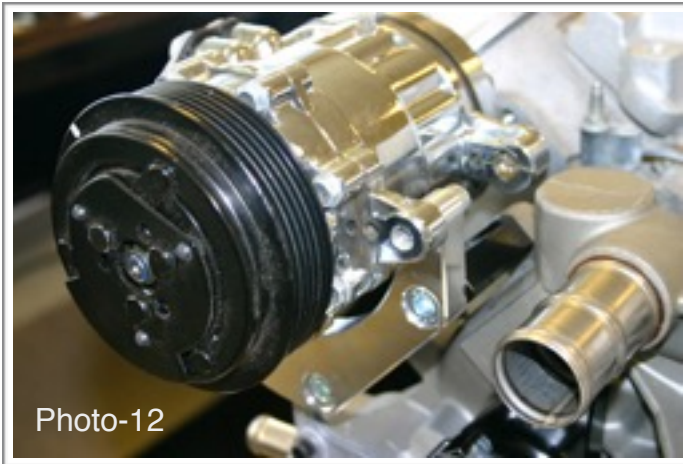


Photo-11

Install the A/C cover (394-A) to the front of the A/C unit. Use three 1/4 x 3/4" button heads (S124) or three M6-1.0 x 20 mm button heads (S520) depending on the clutch on your A/C unit.

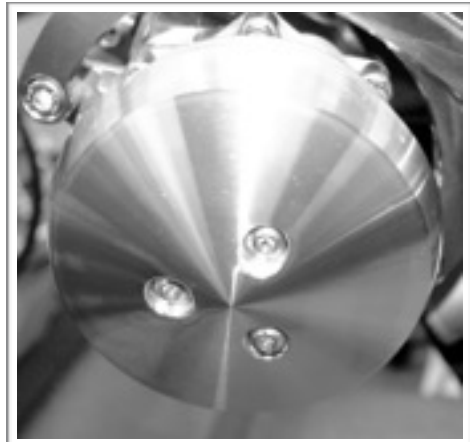


Photo-11

To install the rear A/C support (20027-A), 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.

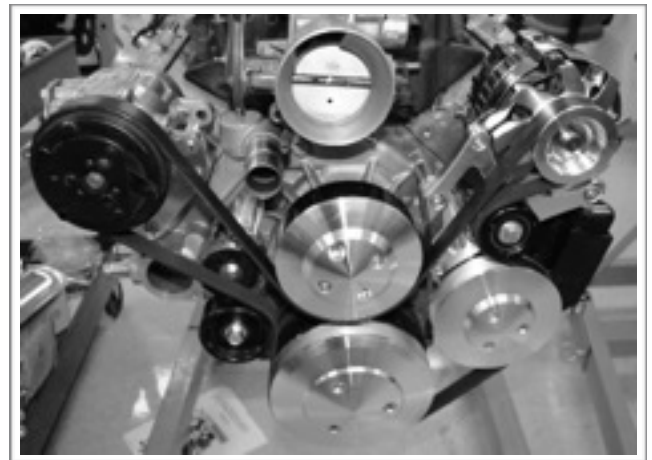


Photo-12

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. Now add the (307-A) cap using three 8-32 x 5/8" SHCS (S025) to the adjustable idler and the 302-A idler cap with three 8-32 x 3/8" SHCS (S022). 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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LIMITED WARRANTY

March Performance warrants to the original retail purchaser that for a period of ninety (90) days from the date of purchase, March Performance will repair or replace, at their option, any Product, which is found to be defective in material or workmanship.

Exclusions from Warranty Coverage

March Performance does not warrant any Product that is damaged from abuse, misuse or misapplication or not used for its intended purposes.

This Limited Warranty does not cover or apply to any damage or loss sustained to the engine or any other parts which may have been caused by the defective Product and does not cover or apply to any personal injury, labor charges or any other incidental costs for damages caused by the defective Product. THIS IS THE ONLY EXPRESS WARRANTY GIVEN WITH RESPECT TO YOUR PRODUCT. ALL OTHER EXPRESS WARRANTIES, GUARANTEES, OR STATEMENTS REGARDING THE PRODUCT, WHETHER WRITTEN OR VERBAL, ARE HEREBY DEEMED NULL AND VOID AND OF NO EFFECT.

Normal wear and tear and damage to the Product not caused by March Performance are also excluded from this Warranty.

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THIS WARRANTY GIVES YOU SPECIFIC RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH MAY VARY FROM STATE TO STATE.

Your Responsibilities:

1. Use and install the Product only for its intended purpose.

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

MARCH PERFORMANCE
16160 PERFORMANCE WAY
NAPLES, FL 34110

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.

4. Shipping and/or transportation costs returning the Product to March Performance and any damage caused during shipping are your responsibility. March Performance will pay for shipping and/or transportation costs incurred in returning the Product to you.

LIMITED WARRANTY WARRANTY/RETURNS FORM

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

NO CREDIT WILL BE ISSUED ON RETURNED PRODUCT BEYOND REPAIR

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 _____

**** MOUNTED PRODUCTS ARE NONREFUNDABLE ****