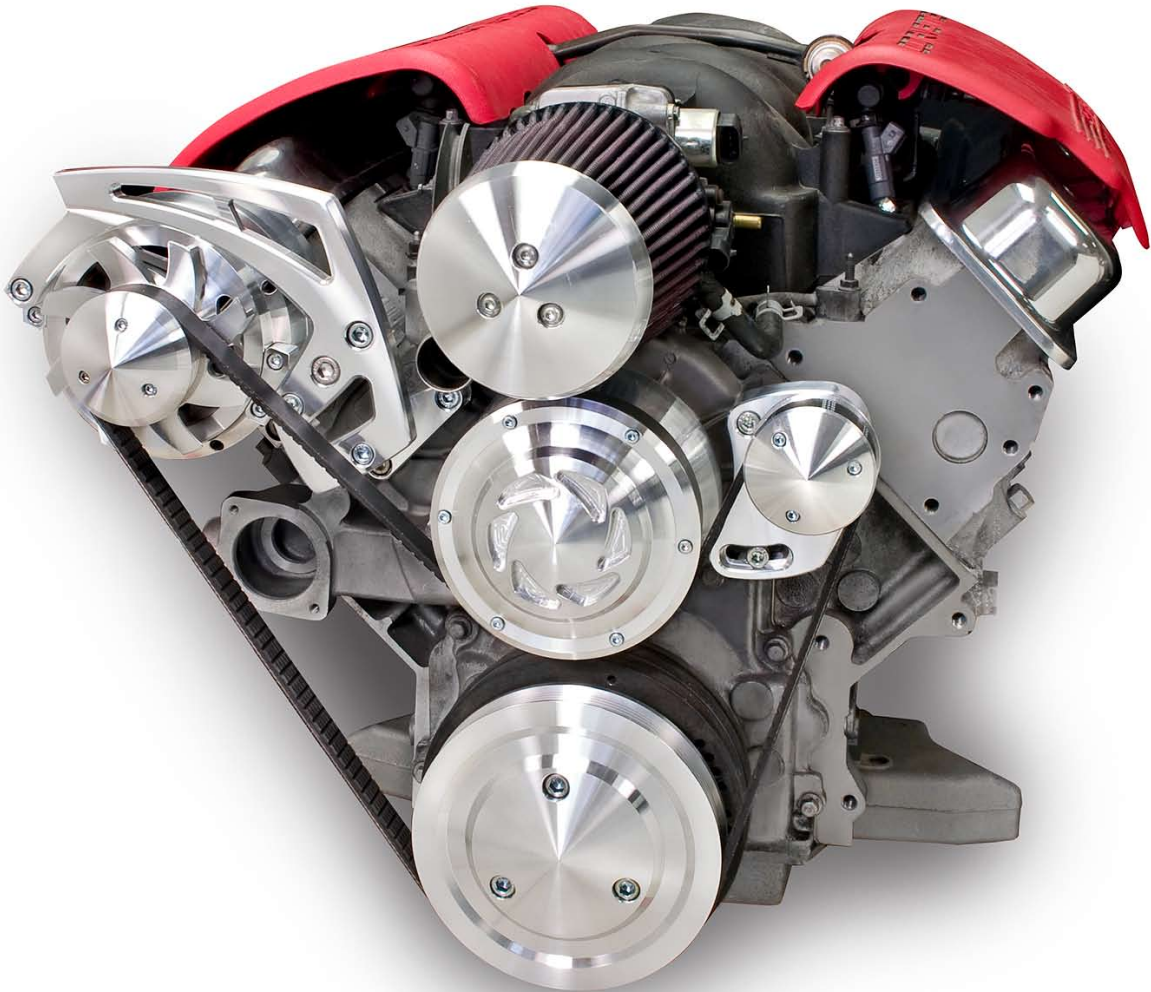


Style **TRACK** **LS-1**



Chevy LS-1 - LS-7 Serpentine Kit

Installation Instructions

Kit #20040 (Corvette LS-1, Alternator Only)



Parts List

NOTE: Kits do not come with Crank Hub Adapter or Alternator. The Crank Hub you chose will depend on your motors version.

#555 Fits Motors with Camaro/Firebird Balancers

#556 Fits Motors with LS-7 Balancers

#558 Fits Motors with Corvette Balancers

For an Alternator my we suggest our Chrome Alternator #P555 or our stylish Billet Alternator #9655

LS1 Idler Pulley Bracket P/N 20041

- 1 - 20041-A Idler Bracket Main Body
- 1 - 20041-B Idler Spacer / Bushing
- 1 - 754-A Idler Pulley Ribbed Mounted On #20041-B
- 1 - 302-A Idler Pulley Cap
- 3 - S022 $\frac{8}{32} \times \frac{3}{8}$ " SHCS
- 1 - S270 $\frac{3}{8} \times 3\frac{1}{2}$ " SHCS
- 1 - S311 $\frac{3}{8} \times \frac{3}{4}$ " Hex Hd Bolt
- 3 - S557 M8 x 120mm Metric SHCS
- 1 - S666 $\frac{3}{8}$ " Flat Washer
- 3 - AC3-.500..... Alum Spacer .500" Lg

LS1 Alternator Bracket P/N 20042

- 1 - 20051-A Front Alternator Bracket Body
- 1 - 20051-B Rear Alternator Support Bracket Body
- 1 - 20051-C Rear Lower Alternator Bracket Body
- 1 - S144 $\frac{5}{16} \times \frac{7}{8}$ " SHCS
- 1 - S160 $\frac{5}{16} \times 2\frac{3}{4}$ " SHCS
- 1 - S248 $\frac{3}{8} \times 1$ " SHCS
- 1 - S266 $\frac{3}{8} \times 3$ " SHCS
- 1 - S540 M8 x 20mm Metric Hex Hd Bolt
- 2 - S555 O 8 x 70mm Metric SHCS
- 1 - S561 O 10 x 30mm Metric SHCS
- 1 - S564 O 10 x 110mm Metric SHCS
- 1 - TP3-1.900 1.900" Lg Tube Spacer

Pulley Kit P/N 6345-208

- 1 - 6341-A Crank Shaft Pulley Body
- 1 - 6372-A Water Pump Pulley Body
- 1 - 208-A Alternator Pulley Body
- 1 - 221-A Alternator Fan Body
- 1 - 307-A Alternator Pulley Cap
- 1 - 410-A Water Pump Pulley Cover
- 6 - S022 $\frac{8}{32} \times \frac{3}{8}$ " SHCS
- 3 - S028 $\frac{8}{32} \times 1$ " SHCS
- 3 - S248 $\frac{3}{8} \times 1$ " SHCS
- 4 - S3: 5 7B8/46"z"7l: \$"U EU
- 1 - S685 $\frac{11}{16}$ " Lock Washer

Accessories

- 1 - P116 LS1 Alum Water Pump

Required Tools and Materials

RTV Silicone
Loc-Tite® Thread Locker
Gasket Scraper, Steel Wool or Sandpaper to clean gasket surfaces
 $\frac{3}{16}$ " Allen Head Driver
 $\frac{5}{16}$ " Allen Head Driver
 $\frac{1}{4}$ " Allen Head Driver
6mm Allen Head Driver
 $\frac{5}{8}$ " Combo Wrench

$\frac{9}{16}$ " Combo Wrench
 $\frac{11}{16}$ " Combo Wrench
 $\frac{3}{4}$ " Combo Wrench
Socket Wrench & Extension
10mm 12pt. socket
12mm 12pt. socket

Serpentine Belt

Serpentine Belt..... 53.7" belt Dayco #5060537

Preparing to Install

- Disconnect the battery to prevent accidental engagement of starter motor.
- Drain coolant from system
- If your A/C is intact and charged it must be evacuated. This is best done by a professional garage with proper recycling equipment
- Remove the existing alternator, air conditioning compressor and associated brackets.
- Remove all pulleys and water pump.
- Remove all traces of old gasket and sealer with gasket scraper and steel wool pad.
- Clean threads in block by chasing with appropriate thread chasers.

Installing the Kit



PHOTO-1. Remove 16mm O.E.M. bolt from the crank. Install the appropriate March Crank Adapter Hub for your LS-1 motor. Apply Loc - Tite to the threads of provided ? 16 x 130mm Hex Bolt (S569) and using a 1/16" i.d. washer (S686) secure Adapter Hub and crank pulley, torque to 90 ft lbs.

NOTE: Hub adapters are sold separately dependent on the LS motor you have.

PHOTO-2. Apply Loc - Tite to the threads of (3) 3/8 - 16 x 1" SHCS (S248) and install Crank Pulley (6341-A) to the March Crank Adapter Hub.



PHOTO-3. Apply silicone sealer to both sides of the water pump gaskets and install the provided Water Pump (P116).

PHOTO-4. Install the Alternator Rear support Bracket (20051-C) to the water pump using (2) $\frac{3}{8}$ " x 70mm SHCS (S555).



PHOTO-5. Install the Rear Alternator Support Bracket (20051-B) to the tapped outer hole of the water pump using (1) $\frac{3}{8}$ " x 30mm SHCS (S561). *Leaving loose at this time.*

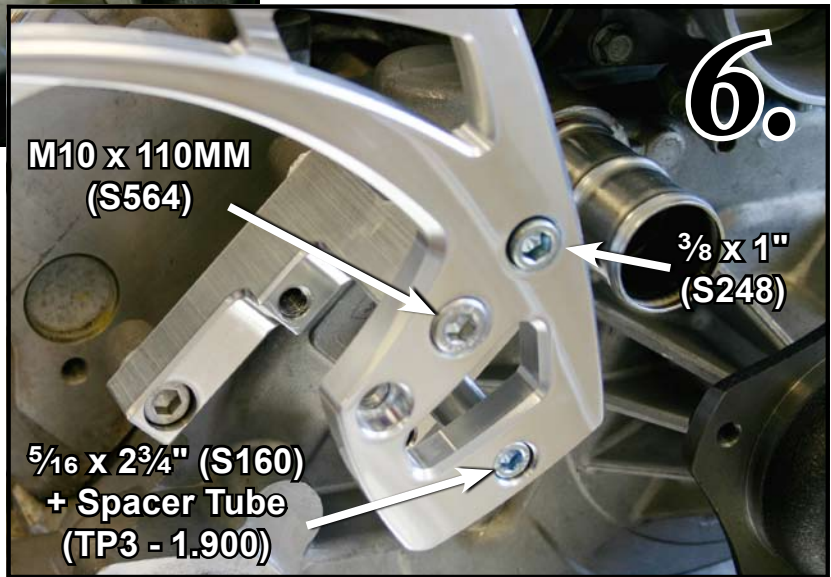


PHOTO-6. Install the Front Alternator Bracket (20051-A) using (1) M10 x 110mm (S564) in the center hole, (1) $\frac{3}{8}$ " x 1" SHCS (S248) in the upper hole as shown.) **LEAVE LOOSE AT THIS TIME.**

In the lower hole use (1) $\frac{5}{16}$ " x 2 $\frac{3}{4}$ " SHCS (S160) and (1) TP3-1.900 Spacer Tube between the Front and Rear Brackets.



PHOTO-7 Install the Alternator using (1) $\frac{3}{8}$ " x 3" SHCS (S266) in the lower Hole and (1) $\frac{5}{16}$ " x $\frac{7}{8}$ " SHCS in the upper hole (S144) **NOTE: if using a Chrome Alternator the top bolt will be a $\frac{3}{8}$ " x 20 MM SHCS (S540)** Replacing the $\frac{5}{16}$ " x $\frac{7}{8}$ " SHCS. Tighten all bolts at this time.

Apply Loc - Tite to the threads of the (4) $\frac{3}{8}$ " x 3" SHCS (S266) and install water pump pulley. Add the Water Pump Pulley Cover (410) using (6) $\frac{8}{32}$ " x $\frac{3}{8}$ " SHCS

Install alternator fan (221-A) and pulley (208-A) and using a $\frac{1}{16}$ " lock washer (S685) tighten pulley nut (impact to 90 ft, pounds). Install Alt Cap (307-A) with (3) $\frac{8}{32}$ " x 1" SHCS (S028).

PHOTO-8. On the back side of the Idler Bracket (20041-A) (side with pocket) install one $\frac{3}{8} \times \frac{3}{4}$ " Hex Bolt (S311) as shown, this will be used to help in belt adjustment.

Flip the bracket over and install the 6 groove idler (754-A) along with the billet Spacer (20041-B) using (1) $\frac{3}{8} \times 3\frac{1}{2}$ " SHCS (S270) and a $\frac{3}{8}$ " Washer (S666).



8.

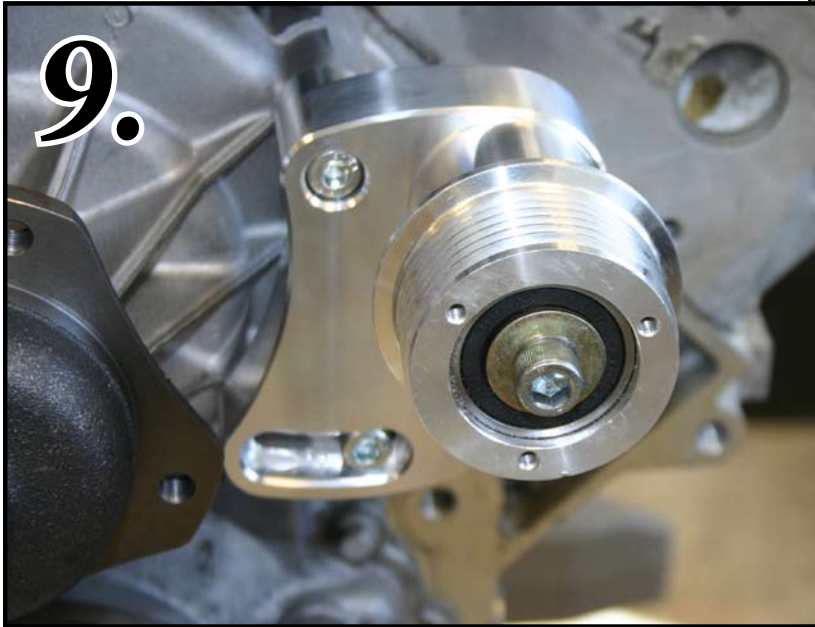
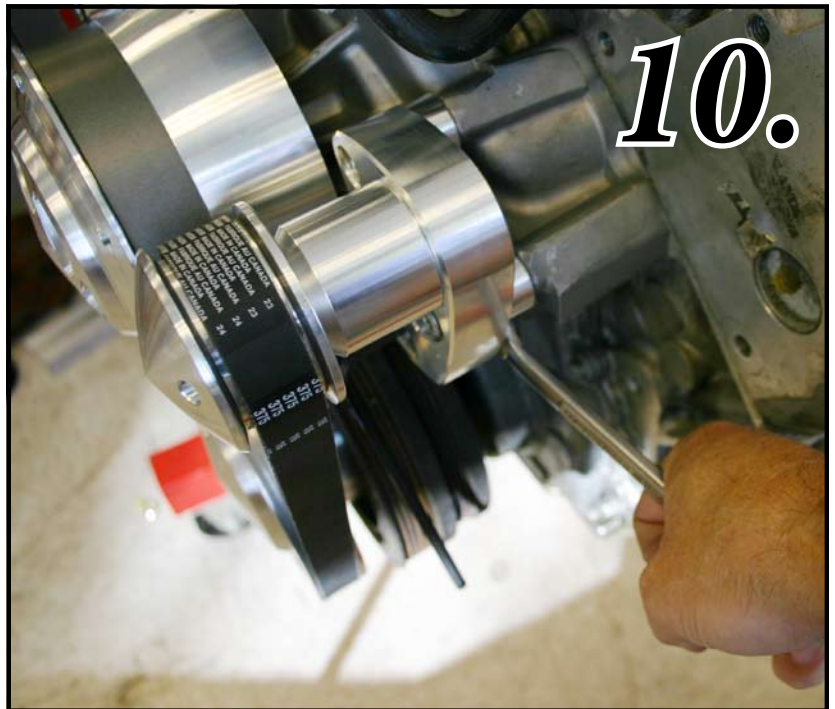


PHOTO-9. Installing the Idler and Bracket assembly to the water pump. Use (3) AC3-.500 Alum. Spacers between the water pump and the bracket, use the (3) $\frac{7}{8} \times 8 \times 120$ mm SHCS (S557) to mount the bracket As shown. Install the Idler cover (302-A) With the (3) $\frac{8}{32} \times \frac{3}{8}$ SHCS (S022).

Note the idler will be to the upper right.

PHOTO-10. Installing the 57.3" belt. (5060573). Using a $\frac{9}{16}$ " wrench, install the belt and tighten by pulling up on the $\frac{3}{8}$ " Bolt on the rear of the idler bracket and tighten the (2) slotted 8 MM Bolts

Check and tighten all bracket bolts and alternator and A/C lower mounting bolts, turn engine over once by hand to check for any belt rubbing and proper belt alignment. Run engine three minutes and check belt tension again.



10.

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.

DISCLAIMER OF OTHER WARRANTIES

EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY WHETHER OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR WARRANTY, SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY WILL LAST SO THAT THE PRECEDING LIMITATION MAY NOT APPLY TO YOU.

Limitation on Remedies

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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
30% 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.

Form fields for RGA#, CT#, Issued by, Date, Purchaser's Name, Phone, Address, Purchased Directly Through, Invoice#, Product ID, Invoice Date, Reason.

** MOUNTED PRODUCTS ARE NONREFUNDABLE **