



# Street & Performance

## LT1 Street Rod Style Alternator - Air - Power Steering



Visit our website: [www.hotrodlane.cc](http://www.hotrodlane.cc)  
**Street & Performance**  
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96 LT1 Camaro Motor with block ground smooth with polished heads and water pump. matching chrome valve covers, aluminum dress up plate and plastic Corvette top covers



Brackets available natural, polished or Chrome We Chose Chrome for the ease of maintance, all you have to do is windex it.



Use Hi Temp Permatex No Seize Lubricant on all bolts where two different types of metal come in contact



Street and Performance brackets are designed to work with 96 LT4, or 92-96 Corvette balancer. Since our engine is a 96 Camaro Engine Street and Performance provided us with an aluminum crank hub spacer with bolts for spacing Camaro and Trans-Am balancer out to line up like a Vette. On SS impala, Cad, Buick, which are, cast Iron Heads, Crank hub needs to be replaced with a Vette or IROC hub available from GM or Street and Performance, PN 12555283.



Using anit- seize, install balancer on top of aluminum crank spacer.



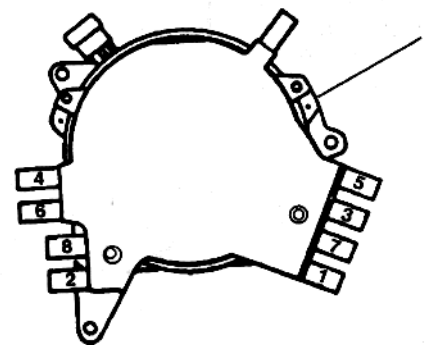
For installing the crank cover, you must tap three of the holes in the balancer with a 3/8-16 tap. Hold the cover up to the balancer to locate which of the three holes need to be tapped. Holes DO NOT have to be drilled for tapping.



Install the Power Steering Pump Bracket using three 3/8-16 bolts into the two vertical bolt holes to the drivers side of the balancer and the upper side of block.



Reinstall spark plug wires (insert firing order photo)



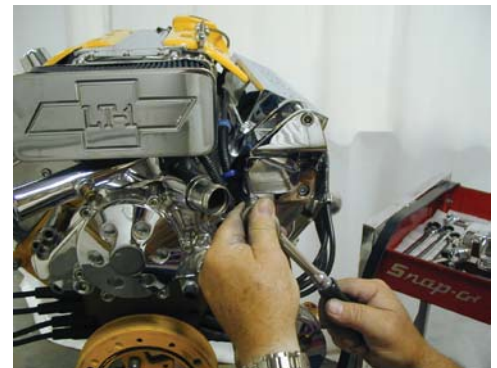
Firing Order  
1 8 4 3 6 5 7 2



S&P LT1 Power Steering Pump Bracket has a multiple bolt pattern so that the pump can be clocked for better positioning of the pump fitting per your application. Rotate the pulley to allow access to the two 5/16 bolts that thru the pump into the mounting bracket.



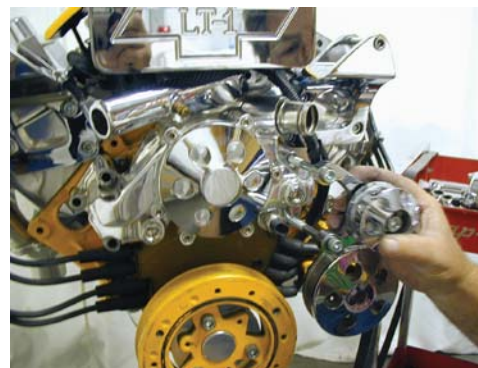
Front View of installing 5/16 mounting bolts



Bolting driver side LT1 Street Rod Style alt bracket with three 3/8 mounting bolts provided with bracket.



Mounting passenger side LT1 Street Rod Style air bracket with three 3/8 mounting bolt provided.



After putting anti-seize on 3/8 x 4 mounting bolts provided with the idler mounting bracket, install the driver side idler bracket



Tighten the Idler Bolts



Installing the 7 1/2" s.s air adjusting bar using the 3/8 x 3 1/2 bolt with 1" s.s spacer provided with the alt and air bar kit. (NOTE must be installed before the passenger side idler bracket.)



Installing Street Rod LT1 Passenger side idler kit.



Install the passenger side idler bracket with the two 3/8 x 4 provided with the idler bracket kit



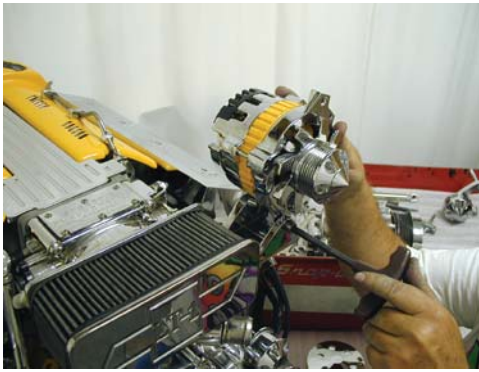
92-93 -16159278  
Computers



94-95 16181333 Vette  
Computers



96-97 - 16214399 / 16242921  
OBD II Computers



Installing the driver side alternator with a 10mm bolt provided with the bracket (any GM alt will work with 6 and 12 o'clock mounting ears)



When using valve covers other than stock, bottom back ear on A/C Compressor must be heli-coiled for 3/8-16 threads. (Shown tapping lower ear at rear of compressor)



Showing the installation of the heli-coil



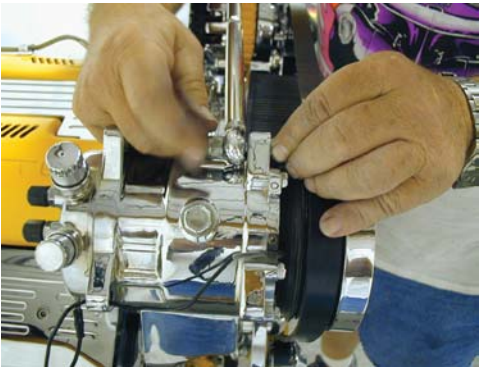
Installing 3/8 x 5" mounting bolt. **When not using tall valve covers, a self-locking nut provided with bracket can be used without installing a heli-coil.**



Using 3/8 x 1 3/4 Allen bolt with 3/16 spacer and self locking nut provided with bar kit, attach A/C adjusting bar to the ear on the compressor closest to the air cleaner.



Install belt (use a 74 1/8" belt with Power Steering or a 69 1/4" belt without Power Steering)



Install A/C to Alt adjusting bar with 3/8 x 1 1/2 bolt and self-locking nut provided with bar kit on to the A/C side. BE SURE to use Anti-Seize on all stainless steel bolts to prevent gaulding



Installing 5/16 s.s. shoulder bolt thru heim into top ear of alternator



Installing S&P LT1 Crank Cover with 3/8 bolt provided (93-97 Camaro, Trans-Am and SS Crank pulleys use one cover and Corvette use a 92-96 use a different cover. LT4 uses a Special cover for it balancer)

### Fittings Available from Street & Performance.

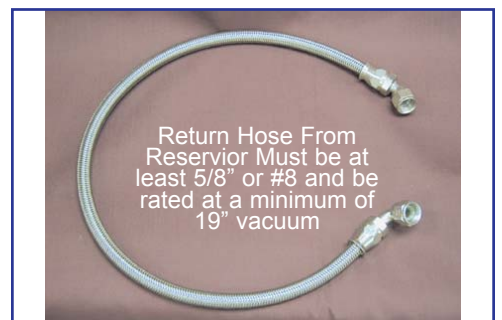
These fittings have a 37 degree angle and can not be purchased at a parts store



- 18 mm O-Ring
- 1/2-20 O-Ring
- 9/16 O-Ring
- 5/8 O-Ring
- 11/16 O-Ring



- 1/2 X 20 Inverted Flair
- 5/8 Inverted Flair
- 11/16 Inverted Flair
- 14mm O-Ring
- 16mm O-Ring



Return Hose From Reservoir Must be at least 5/8" or #8 and be rated at a minimum of 19" vacuum



Installing Idler Buttons, Apply lubricant to O-Ring on button and tap into pulley with a rubber mallet.



Mounting LT1 coil must grind off head of rivets holding coil to stock bracket then with a punch, punch the rivet out of the coil.



92-95 LT1 coil and module is pictured on left and 96-97 LT1 coil and module is pictured on the right. S&P LT1 Coil mounting bracket is pictured below coils.



Mounting LT1 coil module on to S&P coil mounting bracket kit with bolt provided with kit.



Mounting the LT1 coil to back side of the S&P coil mounting bracket kit as per instruction sheet.



Use 3/8 mounting bolt and 1" s.s spacer provided with kit. Mount to the upper bolt hole to the left of the balancer.



Remove the two lower spark plug wires from the distributor for the mounting of the coil bracket.



Mounting the coil



Installing the 16mm to #6AN fitting into the pressure side of the pump

Reattach coil wire and harness to coil (IROC, T/A, SS, a longer coil wire is needed. You can use a stock corvette coil wire, which is longer than IROC, T/A, and SS.) 92-95 use 1-coil wire, 96-97 use late coil wire.

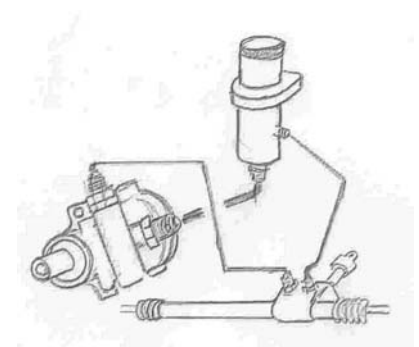
When using headers S&P has a custom set of Taylor sprio -pro LT1 Spark Plug wires designed for use with headers that comes with a longer coil wire. Specify year because of coil wire.



S&P Aluminum P/S Reservoir and Mounting Bracket



S&P Aeroquip Braided Hoses and Fittings



- A..#6 Pressure Line to Rack or Gear Box**
- B..Return #6 or 3/8 from Rack or Gear Box to side of reservoir.**
- C..#8 or 5/8 Return from reservoir to pump**
- \*\*\* #8 Return hose must be rated for 27" of vaccum\*\*\***
- Reccommed GM P/S Fluid #12345867**

Visit our Website at [www.hotrodlane.cc](http://www.hotrodlane.cc)

**Custom Power Steering Hose Kits**  
Braided Pressure Hose Kits to Complete your installation. Fax or Call w/dimensions and angles  
**Custom made to your application**