



LT4 Hydraulic Power Steering Add-on Package
Kit P/N – 19417242
GEN 6 Camaro wet sump engine only

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This publication provides general information on the installation of a Chevy Performance Hydraulic Power Steering add-on package. Please read this entire publication before starting work. Also, please verify that all of the components listed below are in fact included in the kit.

The information below is divided into the following sections: package contents, installation instructions.

This Power Steering package incorporates modern technology in a package that can be installed on General Motors LT4 wet sump Generation 5 engines. This kit is designed to be used with the production Front End Accessory Drive from a Camaro (wet sump engine only). It will not work with a Corvette engine. The package includes all the necessary brackets, hardware for installation. It will not work with a dry sump version and may not work properly with any other GEN 5 small block engine.

This package is designed to provide you a hydraulic power steering pump accessory drive package for your Chevrolet Performance LT4 Crate engine. This kit is not part of any production LT4 in any configuration. It does use a LS3 version of the PS pump. It uses a factory engineered production pump, belt and newly designed brackets to ensure high quality. The LT4 version uses a tensioner to maintain belt tension.

Observe all safety precautions and warnings in the service manuals when installing this package in any vehicle. Wear eye protection and appropriate protective clothing. Support the vehicle securely with jack stands when working under or around it. Use only the proper tools. Exercise extreme caution when working with flammable, corrosive, and hazardous liquids and materials. Some procedures require special equipment and skills. If you do not have the appropriate training, expertise, and tools to perform any part of this conversion safely, this work should be done by a professional.

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NOTE: The parts listed here may have been updated or superseded, go to www.chevroletperformance.com for the latest instruction sheet/parts list.

ITEM NUMBER	PART NUMBER	QUANTITY	DESCRIPTION	FASTENING TORQUE	
1	19333103	1	I-Sheet		
2	19333104	1	Belt - PS		
3	19333105	1	Bracket - PS Pump Mount		
4	19417148	1	Pump Asm - P/S		
5	11588725	3	Bolt - Pump to Bracket, M8x1.25x35	25 NM	18 FT LB
6	11588730	2	Bolt - Pump to Bracket, M8x1.25x60	25 NM	18 FT LB
7	11588753	2	Bolt - Pump to Bracket, M10x1.5x105	58 NM	43 FT LB
8	19333106	1	Pulley - P/S Pump 8 rib		
9	12663624	1	Tensioner Asm - Supercharger Belt		
10	11610074	3	Bolt - Tensioner, M8x1.25x45	25 NM	18 FT LB
11	22942442	1	Emblem		

IMPORTANT INFORMATION

THE PUMP'S PRESSURE RELIEF SETTING BY THE MANUFACTURER IS SET TO 1500 PSI. IT IS NECESSARY FOR ANY COMPONENT SUBJECTED TO THIS PRESSURE BE RATED AT 1500 PSI OR HIGHER. UNDERSTANDING MANY OF THE VEHICLES UTILIZING THIS PUMP ARE VINTAGE AND MAY HAVE EXISTING STEERING GEARS RATED AT 1000 PSI, 1200 PSI OR 1500 PSI, IT IS IMPERATIVE THAT THE USER INSTALL ANY NECESSARY PRESSURE RELIEF VALVES INTO THE HYDRAULIC CIRCUIT WITH A PRESSURE RELIEF SETTING SUITABLE TO PROTECT THE STEERING GEAR.

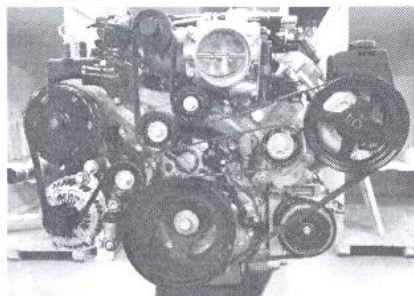
IT IS ALSO RECOMMENDED THE USER CONSIDER THE USE OF A FLUID COOLER, TYPICAL OF THE SIZE USED IN LATE MODEL PICKUP TRUCKS OR SUVs, TO HELP KEEP THE FLUID FROM OVERHEATING. IT IS RECOMMENDED THE FLUID TEMPERATURE DOES NOT EXCEED 135C (275F) FOR ALL OPERATING CODITIONS.

THIS PUMP SHOULD NOT BE USED AS A SERVICE REPLACEMENT PUMP FOR GEN 5 CAMARO EVEN THOUGH THE PUMP LOOKS SIMILAR. THE GEN 5 CAMARO SERVICE PUMP HAS A HIGHER PRESSURE RATING.

Installation Procedure:

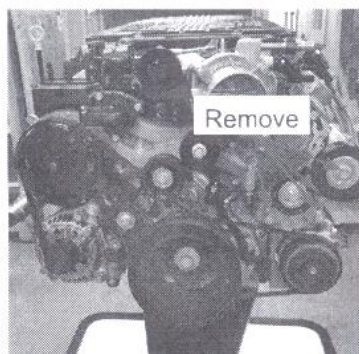
The figure below shows the Hydraulic Power Steering package installed on a typical wet sump LT4 application. Refer to this picture and the following pictures for clarification during installation of the various components included in this package. This installation guide assumes the production accessory drive is in place. The Hydraulic Power Steering kit is not intended to be used as a standalone or without the production accessory drive in place. Actual parts may look slightly different. The production accessory drive system shown is from a 2017 Chevy Camaro ZL1 engine. The accessory drive kit(s) are available from Chevrolet Performance. There are 2 kits; Accessory Drive System and A/C Add-on Kit.

Figure 1



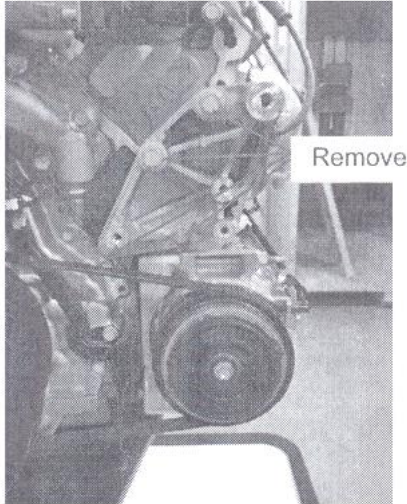
1. Remove the 8 rib serpentine belt by releasing the tensioner. Remove the 3 bolts holding the tensioner and the idler pulley as shown in Figure 2.

Figure 2



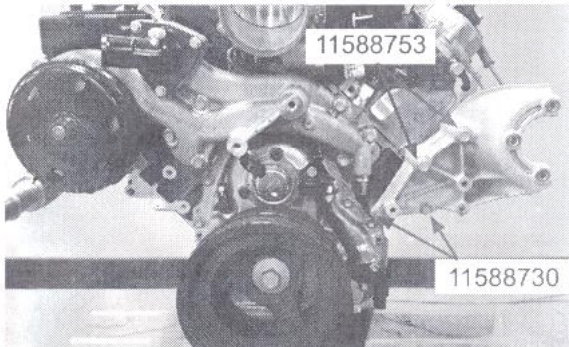
2. Remove the existing Supercharger Belt Tensioner Bracket as shown in Figure 3.

Figure 3



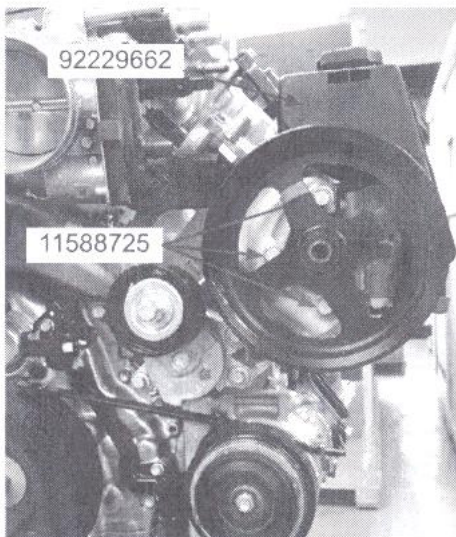
3. Install bracket 19333105 using 2 11588753 and 2 11588730 bolts as shown in Figure 4. Torque 11588730 bolts to 25 NM (18 FT LB) and 11588753 to 58 NM (43 FT LB).

Figure 4



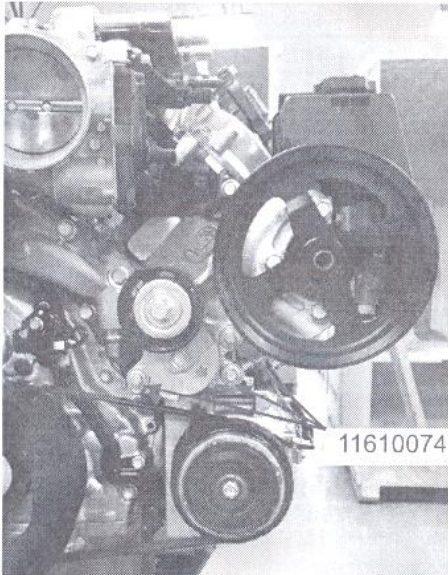
4. The Power Steering Pump (19417148) and Pulley (19333106) come pre-assembled. Install PS Pump 19417148 into bracket 19333105 using 3 11588725 bolts as shown in Figure 5. Torque the bolts to 25 NM (18 FT LB).

Figure 5



5. Install Tensioner 12663624 using 3 11610074 bolts as shown in Figure 6. Torque bolts to 25 NM (18 FT LB).

Figure 6



6. Install belt 19333104 as shown in Figure 7.

Figure 7

