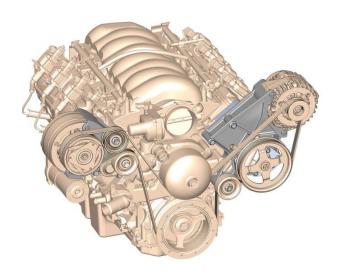
# **Fitment and Required Components Guide**

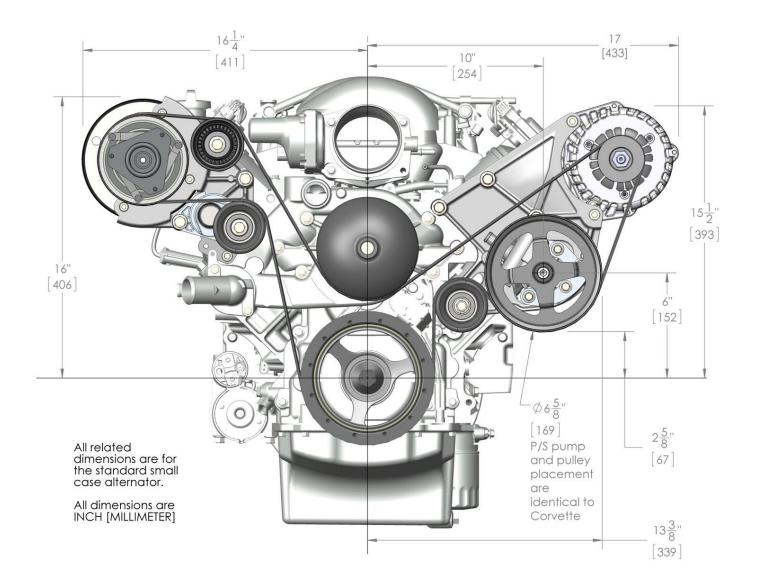


# Holley Accessory Drive Kit Part Number 20-131



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#### Introduction:

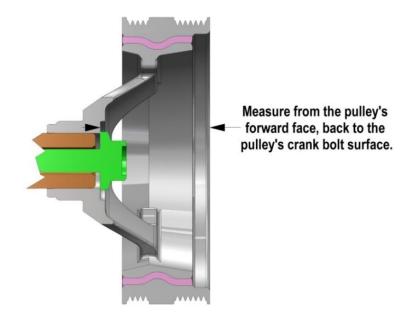
Holley's accessory drive kits offer clean, economical mounting of all LS engine accessories. These brackets look truly at home on any LS engine as if they came from the factory this way.

Holley's kits supply the required brackets and hardware needed for installation, but allow you to choose the source for supplemental accessories and components that are often already on the donor engine or the vehicle the engine is going into. Whether sourcing from the salvage yard, the local auto parts store, your GM parts dealer, or Holley and their premium matched components; you pick the source that matches your expectations and budget.

This guide will help with locating and sourcing components, as well as supplying notes and helpful hints for each. The first step is to determine which belt alignment you want to proceed with. This is determined by the crank pulley and often, but not always, the water pump. If clearance to the radiator is an issue, the compact STANDARD spacing common on the Corvette may be preferred. Otherwise, it is most cost effective to retain the existing crank pulley/water pump and space the bracket and other accessories to match. An application specific installation kit (part # 21-1, 21-2, or 21-3) is REQUIRED for ALL bracket kits.

Note: All Corvette part application references in this guide are to NON-supercharged LS engines.

### **Crank Pulley Belt Alignment Determination:**



See the below chart for reference dimensions.

#### Overview of Parts Required (but NOT included with 20-131 bracket kit):

Components with specific belt alignments

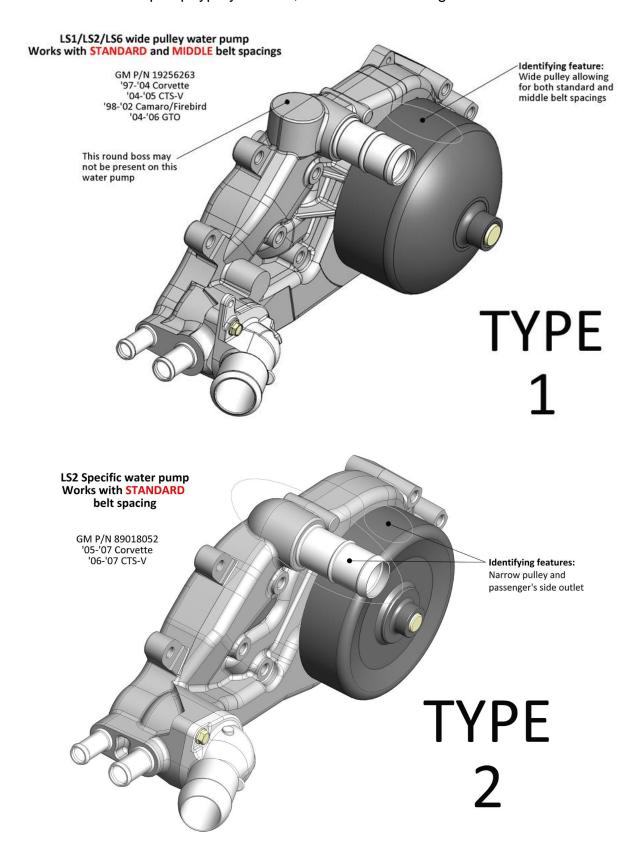
Belt Alignment	LS Application (Alignment	Holley Installation Kit (Alignment Specific)	(Alignment Crank Pulley (Reference Dimension)		Water Pump (Alignment Specific)
Group	Specific)				GM#
Standard	Corvette / CTS-V / G8	21-1	1.5"	37 MM	19256263, 89018052, or 12604630
Middle	F-body / GTO	21-2	2.25"	55 MM	19256263
Long	Camaro ('10-UP) / Truck (all)	21-3	3"	75 MM	19207665 or any truck WP

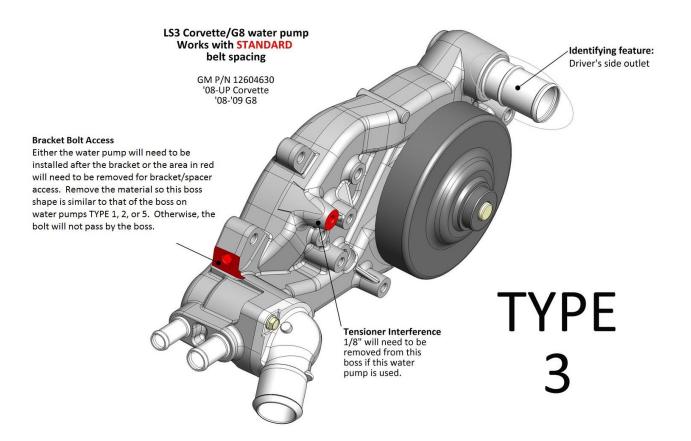
Components that will work with all belt alignments

Tensioner	Smooth Idler		Power Steering	Power Steering	Reservoir	A/C compressor
Assembly	Pulley	Alternator	Pump Pulley	Pump	Assembly (optional)	(R4 Radial Type)
Holley # / GM #	Holley # / GM #	Holley # / GM #	Holley # / GM #	Holley # / GM #	Holley # / GM #	Holley # / GM #
97-151 / 12559325	<mark>97-150</mark> / 12564401	197-300 or 197-301 / 10480326 or 15754097	97-152 / 12568997 or 12578552	198-100 / 26120639 or 25960709	198-200 (kit) / 15907878, 26095119, 26046502, and 12555222	199-100 / 80964063

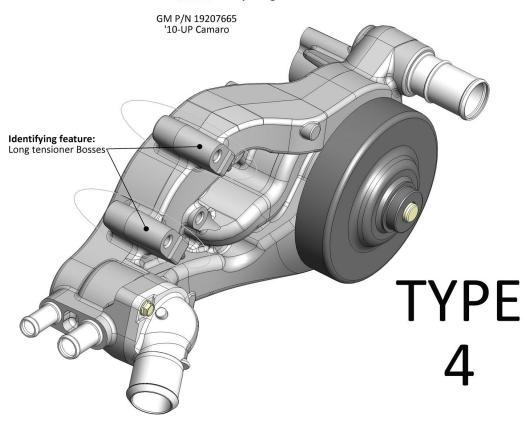
#### **Water Pump Determination:**

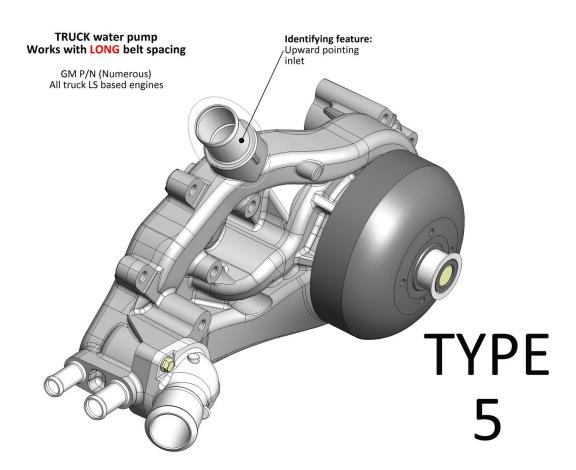
To determine which water pump type you have, refer to the following illustrations:





## LS3/L99 Camaro water pump Works with LONG belt spacing





#### **Idler Pulley Options:**



Idler pulley, 76 mm smooth		
Application: '97 Corvette		
<b>DAYCO #</b> 89059		
<b>GM #</b> 12564401		

Two smooth idler pulleys will be required. When installing the passenger's side A/C bracket, a smooth pulley will need to be installed on the tensioner assembly. Retain the removed grooved pulley for bracket assembly.



Late model idler pulleys such as GM # 12568996 found on '05-up Corvette have a double bearing and will NOT align with this bracket system.

#### **Tensioner Assembly Options:**



Tensioner assembly with 68 mm grooved pulley

**Holley part # 97-151** 

Application: '97 Corvette

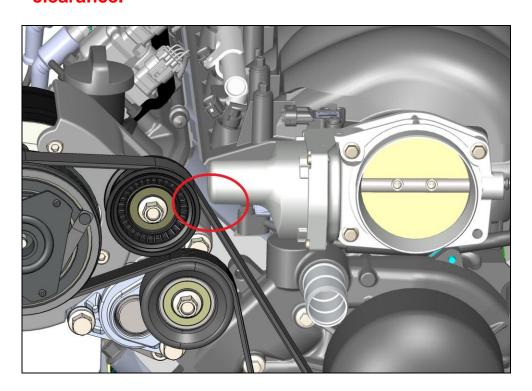
**GATES # 38194** 

**GM #** 12559325

Because of a tensioner design change, Dayco # 89337 will no longer work with this bracket.

The above is the only style of tensioner that will work with the Holley bracket kits. The recommended version is common on 1997 - 2004 Corvettes. GM tensioner # 12569301 found on 2005 and up Corvettes may also be used if salvaged from the donor accessory drive, but confirm the tensioner pulley properly aligns with the belt after installation.

IMPORTANT: If your application is the "standard" belt spacing AND you are using a stock LS3/LS7 throttle body, you must replace the grooved idler pulley with the below 59 mm pulley to allow adequate belt clearance.





Idler pulley, 59 mm grooved

**Holley part #** 97-153

Application: '04 SAAB 9-5 AERO, 2.3L

Application: '97 Ford Contour, 2.5L

**DAYCO #** 89095

#### A/C Compressors Options and Warnings:

**WARNING**: LS engines are capable of high RPMs that can damage A/C compressor's complex moving internal parts. A tach or TPS monitoring RPM switch, such as NOS part # 15982NOS (for wiring information, see diagram on pg. 11), should be configured to deactivate the compressor clutch when the engine is above 4000 RPM. There are two pulley diameters for R4 compressors (5" and 4.25"). For safe high RPM operation and better belt tension, Holley recommends only compressors with the 5" pulley.



#### **R4/Radial Compressor**

(6 groove, 5" pulley, metric fittings, pressure switch allowance)

Holley part # 199-100

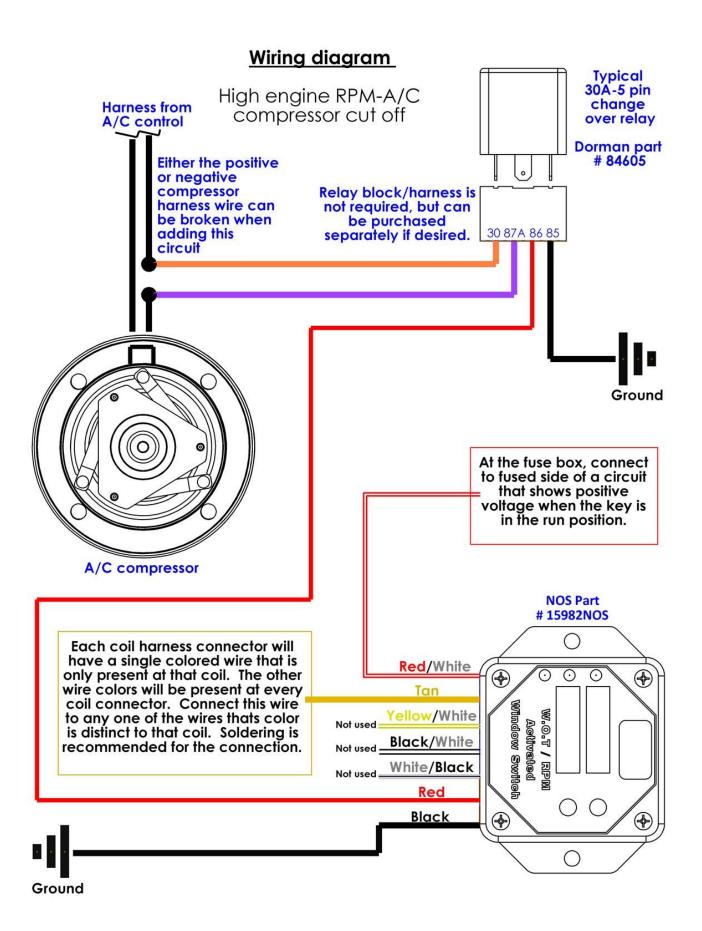
Application: '91 Camaro (all)

GM # 88964863

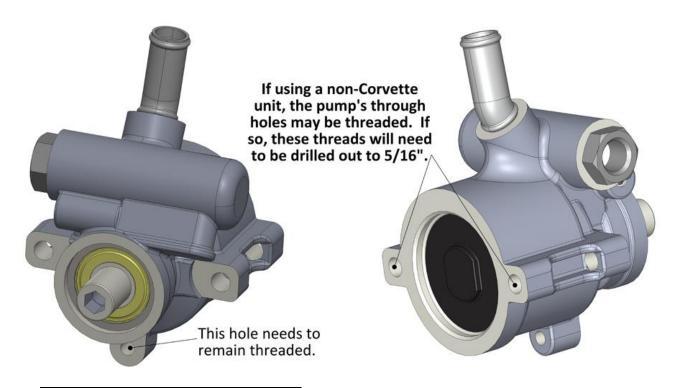
Holley harness pigtail # 199-200

The passenger's side bracket is designed to work with the R4 radial compressor common on '75-'86 GM vehicles. Any R4 compressor with a 6-groove clutch pulley should work in this bracket. There are two types of clutch harness plugs. The early type is a flat spade connecter type where the above references use the later style 8 mm pin, sealed connector.

**HELPFUL HINT:** There is typically no polarity when wiring the two connectors for the A/C clutch. In a few cases a diode may be inline. After installation, if the clutch does not function properly, reverse the polarity.



#### **Power Steering Pump Options:**



**Aluminum power steering pump** 

**Holley part #** 198-100

**Application:** '09 Corvette, all except supercharged

GM # 26120639

Steel power steering pump

Application: '97 Corvette

GM # 25960709

The Holley driver's side bracket uses the standard (1997 and up) Corvette power steering pump (Saginaw TC type). Other pumps of the same housing and type may work, but the bracket is optimized for the Corvette pump.

**HELPFUL HINTS:** Non-Corvette pumps will not have the correctly positioned reservoir hose tube. Also note that remanufactured pumps may have the formed tube clocked improperly. Early Corvette pumps are steel where later years were aluminum.

#### **Power Steering Pump Pulleys:**



There are several pulleys that will fit the pump, but some do not have the correct belt alignment for this application. See applicable service manual for pulley installation procedures.

#### **Standard Diameter Pulley:**



#### **Small Diameter Pulley:**

Power steering pulleys may interfere with the suspension A-arm in certain swap applications. Choosing a smaller pulley in these situations can give additional clearance.



WARNING! Smaller power steering pulleys, such as a 97-154 can rotate the pump beyond recommended RPMs. To correct this, a 25% under-dive balancer should be used if choosing a pump pulley smaller than 6" OD.

Belt Alignment	LS Application (Alignment Specific)	Balancer (25% under-drive)
Group	(,gэнг <b>э</b> рээнгэ)	Powerbond P/N
Standard	Corvette/CTS-V/G8	PBU1117SS25
Middle	F-body/GTO	PBU1480SS25
Long	Camaro ('10-UP)/ Truck (all)	PBU1190SS25

<sup>\*</sup>Belt length will change when moving from standard pulleys to different diameters.

**Helpful Hint:** The above pulleys have openings for pump mounting bolts and can be installed before the pump is installed.

#### **Alternator Options:**



Case size: SMALL (130 mm)

Standard amperage: 105 AMPs

**Holley part #** 197-300

**Application:** '04 Chevy Silverado 5.3L (standard 105 amp choice)

**GM/Delco #** 10480326

Series/Lester # AD230/8247

Holley harness pigtail # 197-400

Case size: LARGE (144 mm)

High amperage: 130-145 AMPs

Holley part # 197-301

**Application:** '04 Chevy Silverado 5.3L (optional 130/145 amp choice)

**GM/Delco #** 15754097

Series/Lester # AD244/8292

Holley harness pigtail # 197-400

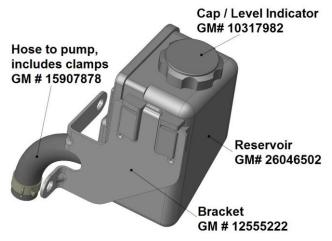
The Holley driver's side bracket uses standard alternators with 5.46" bolt spacing. This alternator type is common on most '96-'05 GM trucks and '98-'06 Camaro/Firebird/GTOs. There are two alternator amperages available in this type. Note: The Holley bracket DOES NOT work with '97-UP Corvette or '10-UP Camaro alternators which have 6" (154 mm) center bolt spacing.

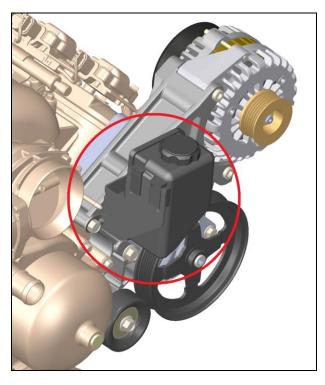
When wiring the alternator, connect the "L" terminal labeled on the alternator to switched voltage that is "on" when the key is in the run position. There must be either a charge indicator light (standard dash bulb) or a 560 ohm, 1/2 watt resistor (Radio Shack #271-1116) in-line on this wire. Holley's part # 197-400 already has the resistor in line.

Late model alternators with only two pins visible in the alternator's harness plug instead of four, will NOT work for this application. They require the vehicles ECU to function. An alternator repair shop may be able to change out the internal regulator to the 4-pin type if needed.

#### **Power Steering Pump Reservoir Options:**

The Holley driver's side bracket works with reservoirs found on '97-up Corvettes. Other remote reservoirs can be custom fitted with this bracket as well. All the below reservoir parts are included in **Holley kit # 198-200.** 





After reviewing the components needed for your specific application, parts can be sourced and the Holley kits can be installed. See the included assembly instructions for installation procedures.