

Holley Accessory Drive System Part Number 20-138

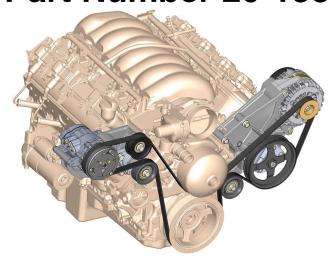
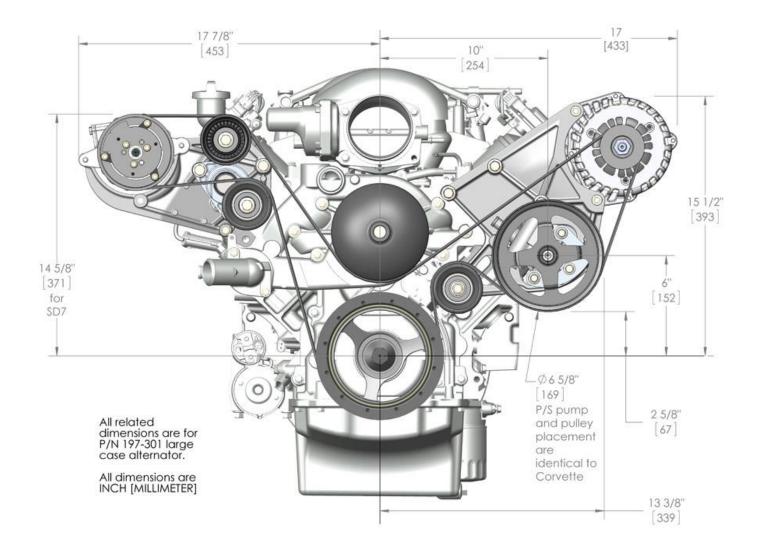


Table of Contents

Introduction:	2
Crank Pulley Belt Alignment Determination:	3
Overview of Parts Required (but NOT included with 20-138 accessory drive system):	
Water Pump Determination:	4
Parts List:	7
Assembly Instructions	9
Driver's Side Bracket Installation:	
Power Steering Pump Installation:	10
Idler Pulley Installation (position options):	
Power Steering Pump Pulleys:	12
Small Diameter Pulley:	12
P/S Pulley & Alternator Installation:	13
Passenger's Side Bracket Installation:	14
Idler & Tensioner Installation:	15
A/C Compressor Installation:	16
Belt Routing:	17
Power Steering Pump Reservoir Options:	



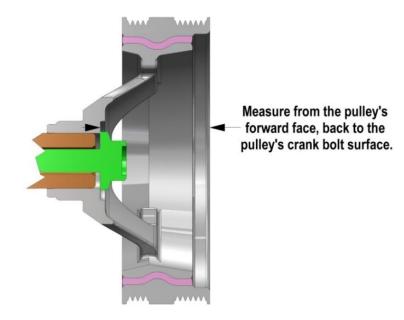
Introduction:

Holley's accessory drive systems offer clean, economical brackets and accessories for LS engines. These accessory drives look truly at home on any LS engine as if they came from the factory this way.

Holley's complete accessory drive systems come with virtually everything needed for installation, from the accessories to the pulleys and even the belt.

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 this accessory drive system.

Crank Pulley Belt Alignment Determination:



See the below chart for reference dimensions.

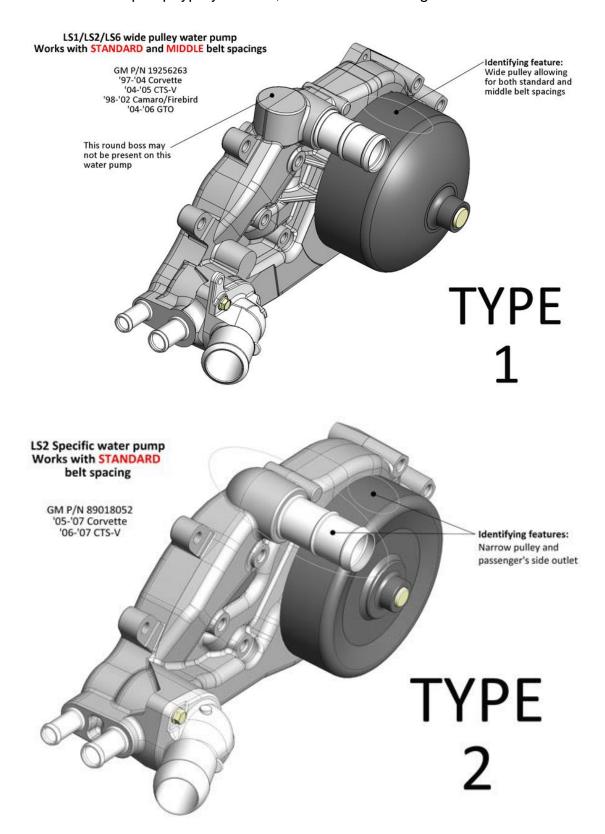
Overview of Parts Required (but NOT included with 20-138 accessory drive system):

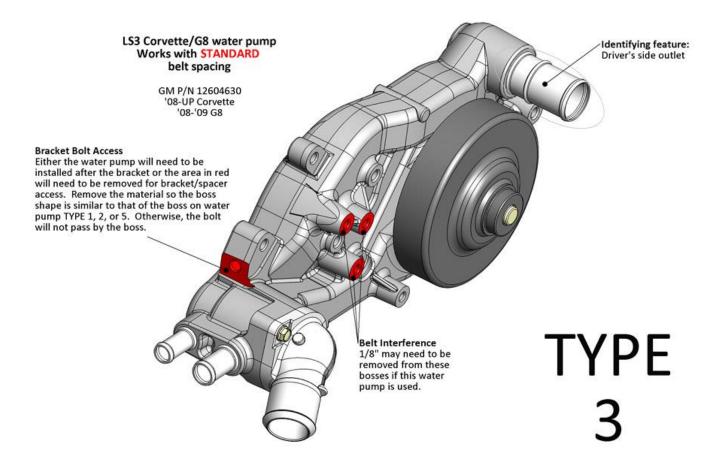
Components with specific belt alignments

Belt Alignment	LS Application (Alignment Specific)	Holley Installation Kit (Alignment Specific)	Crank Pulley (Reference Dimension)		Water Pump (Alignment Specific)
Group	(, mg.mem epeeme)	(rangilinionit Opcomo)			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

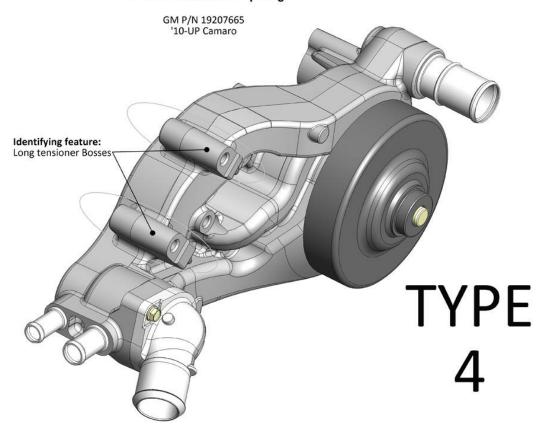
Water Pump Determination:

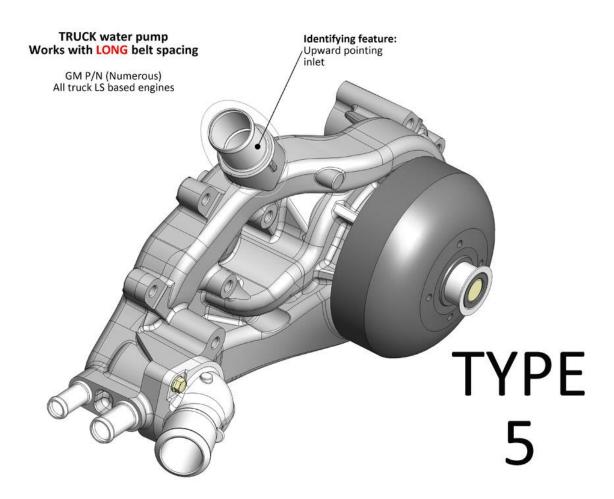
To determine which water pump type you have, refer to the following illustrations:





LS3/L99 Camaro water pump Works with LONG belt spacing





Parts List:

This accessory drive system requires application specific installation kit part # 21-1, 21-2, or 21-3

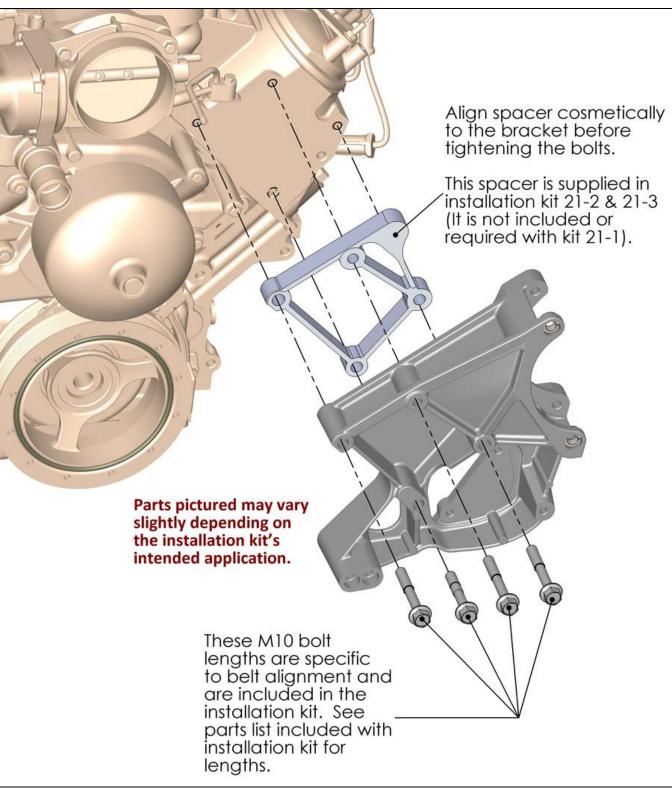
Parts included with 20-138 accessory drive system (see list supplied with installation kit for additional parts):

PICTURE	QTY	DESCRIPTION	APPLICATION
	1	Alternator (P/N 197-301)	Driver's Side Bracket
	1	P/S Pump (P/N 198-100)	Driver's Side Bracket
	1	SD7 A/C Compressor (P/N 199-102)	Passenger's Side Bracket
	1	Belt Tensioner with Bolt (P/N 97-151)	Passenger's Side Bracket
	2	Smooth Idler Pulley (P/N 97-150)	Driver's & Passenger's Side Brackets
	1	Ribbed Idler Pulley, 68mm	Passenger's Side Bracket
	1	Pigtail (P/N 197-400)	Alternator
	1	Ribbed Pulley (P/N 97-152)	P/S Pump
21	1	Belt, 6 Rib Serpentine	Driver's & Passenger's Side Brackets
	1	Driver's Side Bracket Assembly	Alternator & Power Steering Pump
	1	Passenger's Side Bracket Assembly	A/C Compressor & Tensioner
000	1	Power Steering Pump Plate Bracket	Front Support of Power Steering Pump

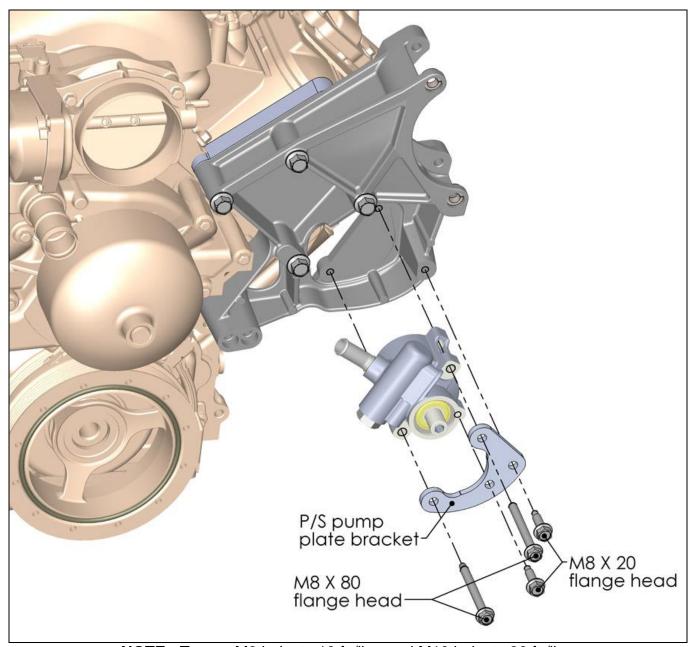
	1	Step Spacer	Driver's Side Idler Pulley
	1	Socket Head Cap Bolt, M10 x 1.5 x 30	Spacer to Passenger's Side Head
	2	Socket Head Cap Bolt, M10 x 1.5 x 80	Alternator Bolts
	2	Flange Head Bolt, M8 x 1.25 x 20	Power Steering Pump Bolts
	2	Flange Head Bolt, M8 x 1.25 x 80	Power Steering Pump Bolts
	3	Flange Head Bolt, M8 x 1.25 x 35	Passenger's Side Bracket to Spacer
	2	Flange Head Bolt, M10 x 1.5 x 35	Tensioner Assembly to Passenger's Side Bracket
	1	Flange Head Bolt, M10 x 1.5 x 35	Idler Pulley to Passenger's Side Bracket
	1	Flange Head Bolt, M10 x 1.5 x 45	Idler Pulley to Driver's Side Bracket
	2	Flange Head Bolt, M8 x 1.25 x 95	A/C Compressor Bolts
0	2	M8 Thin Spacer	Bracket to Front A/C Compressor Ears

Assembly Instructions

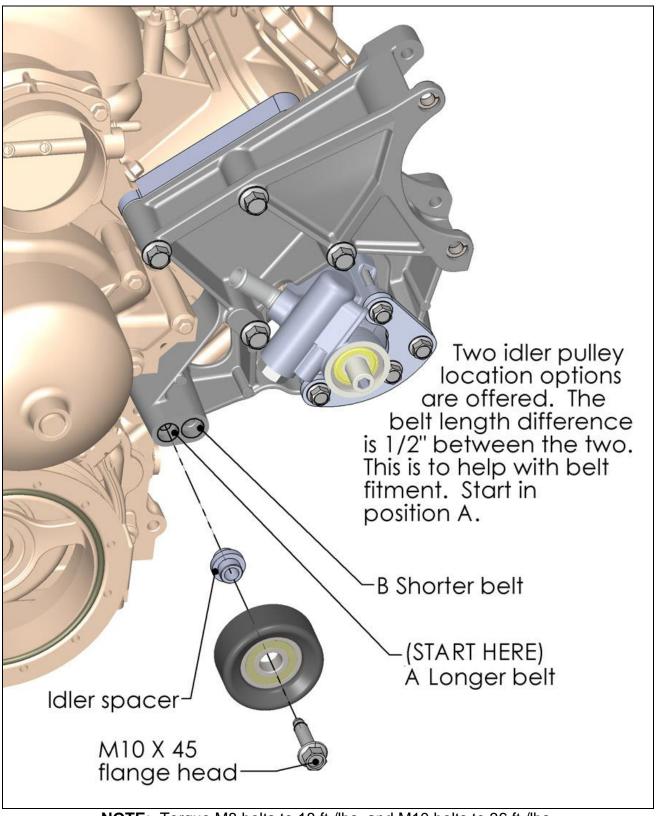
Driver's Side Bracket Installation:



Power Steering Pump Installation:



Idler Pulley Installation (position options):



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.

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.

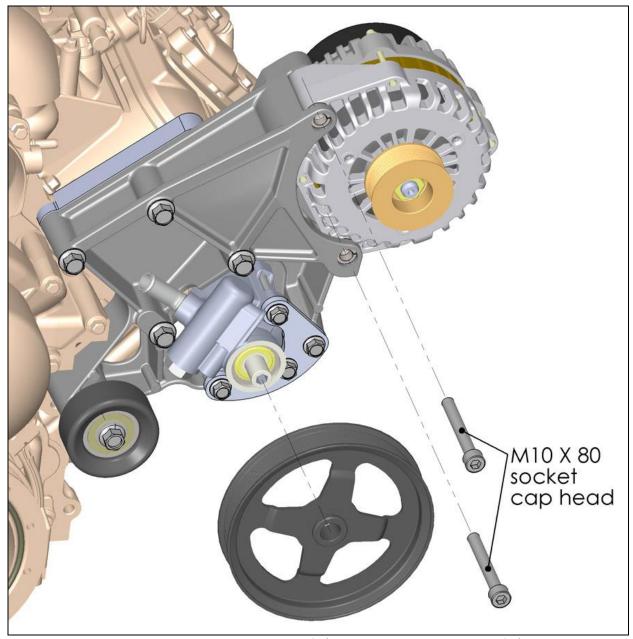


WARNING! Smaller power steering pulleys, such as a 97-154 can rotate the pump beyond recommended RPMs. To correct this, a 25% under-dive balancer should be used if choosing a pump pulley smaller than 6" OD.

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

Helpful Hint: If any of these smaller pulleys are used, the supplied belt will not work and a shorter size will have to be purchased at an auto parts store.

P/S Pulley & Alternator Installation:



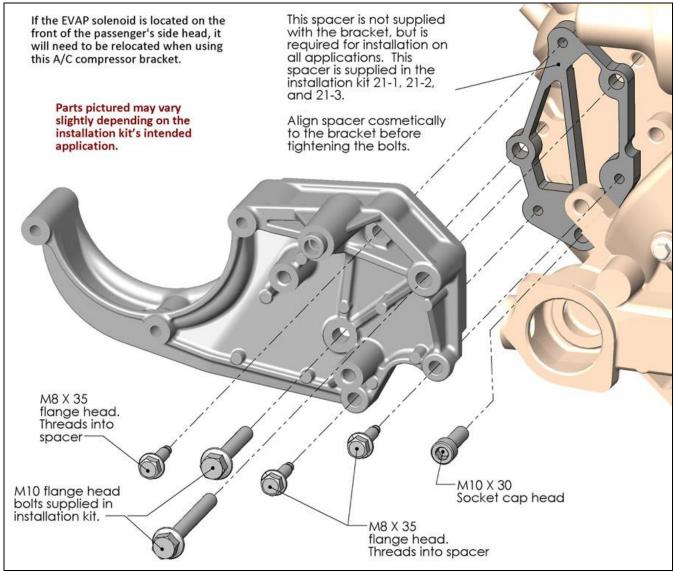
NOTE: Torque M8 bolts to 18 ft./lbs. and M10 bolts to 36 ft./lbs.

The P/S pulley must be installed using an installation tool that can be rented at most auto parts stores. Incorrect installation of this pulley may damage the P/S pump internals. When installed, the pulley bore face should be flush with the end of the pump shaft.

Helpful hint: Open faced pulley part 97-152 (included) can be installed onto pump before bracket assembly as bolts can be accessed through pulley windows.

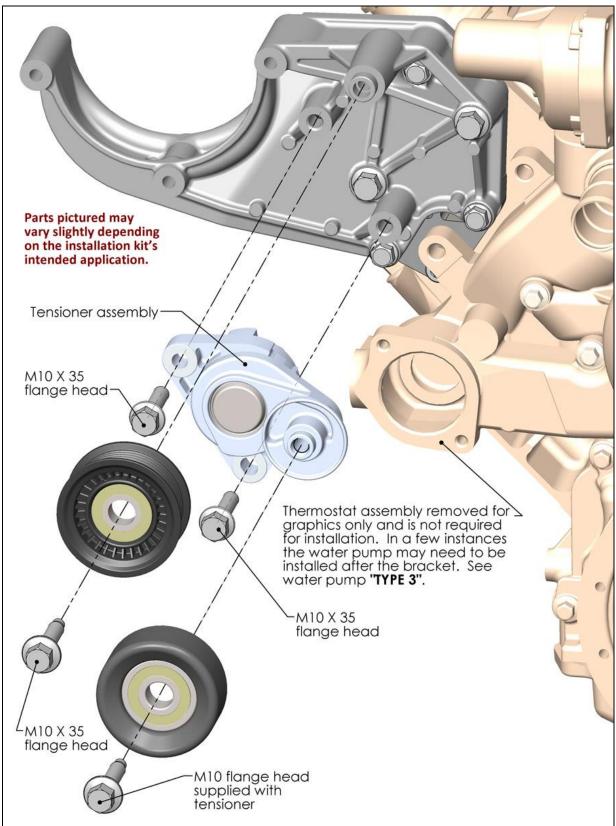
Helpful hint: When wiring the alternator, install the included 197-400 plug into the alternator. Next connect the yellow wire to switched voltage that is "on" when the key is in the run position. If the vehicle has a "charge indicator light" the yellow wire can be connected to that circuit.

Passenger's Side Bracket Installation:

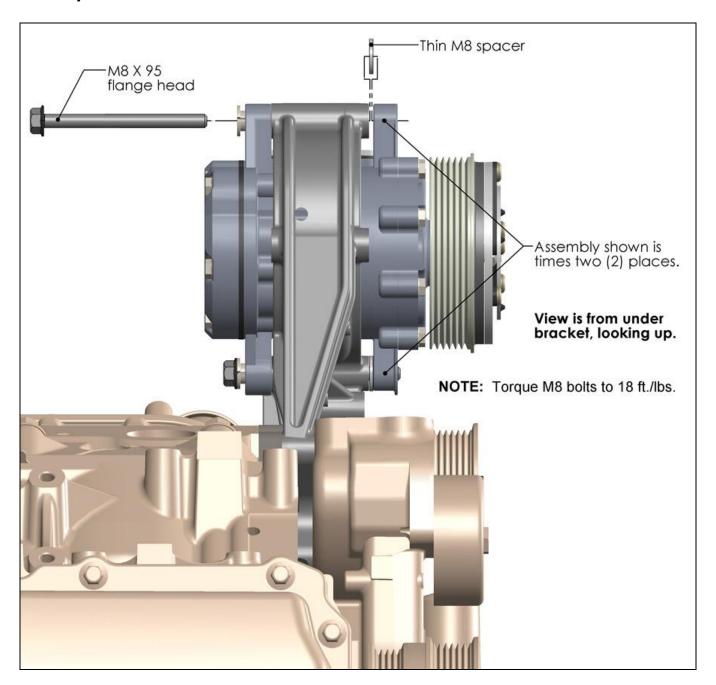


NOTE: Torque M8 bolts to 18 ft./lbs. and M10 bolts to 36 ft./lbs.

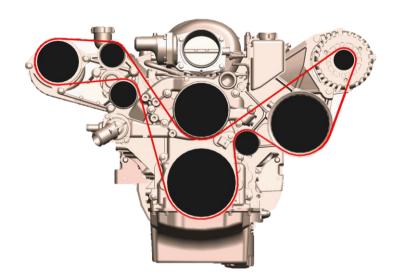
Idler & Tensioner Installation:



A/C Compressor Installation:

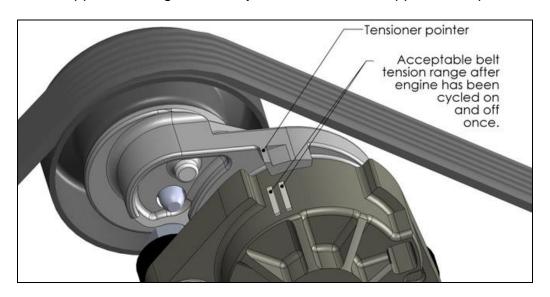


Belt Routing:



HELPFUL HINT: When installing the belt, route around all the pulleys except the water pump pulley. While fully rotating the tensioner arm, slip the belt on the smooth water pump pulley last.

Use serpentine belt supplied if using ALL Holley accessories and supplemental parts.



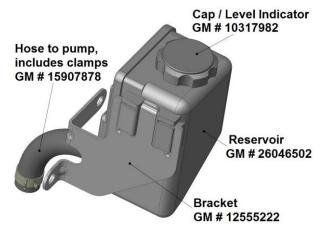
NOTE: If you are NOT using all the Holley accessories supplied, or have changed the original crank or any accessory's pulleys, you will have to measure to find the correct belt length.

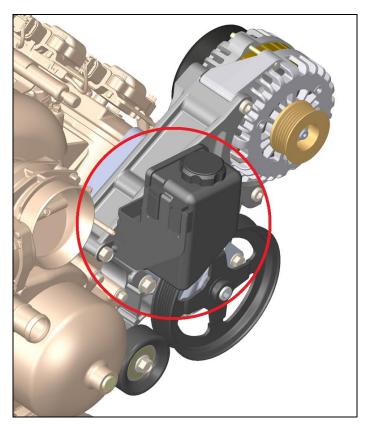
To acquire this measurement, perform the following:

After all brackets and accessories are installed, route masking tape or string around the belt path. Leave the tensioner in the un-sprung position for this measurement. Mark or cut the tape/string to length and remove from the pulleys. Subtract 1 1/8" (28 mm) from the measured length to compensate for the un-sprung tensioner position. You will need to convert belt length to millimeters if measured in inches (inches X 25.4 = mm). Go to any auto parts store and ask for a 6PK0000 belt with the "0000" being the length in millimeters. For example, if you measured 2493 mm and then subtracted 28 mm, you would get 2465 mm, and the part number would be 6PK2465. Remember, if you miss on size, the driver's side idler can be moved to decrease the required belt length by 1/2".

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.**





Holley® Performance Products, Inc. 1801 Russellville Road, Bowling Green, KY 42101

Technical Support: 1-866-464-6553 Phone: 1-270-781-9741 www.holley.com

© 2011 Holley Performance Products, Inc. All rights reserved.

199R10640

Revision Date: 6-19-15