

Holley A/C Bracket System Part Number 20-140

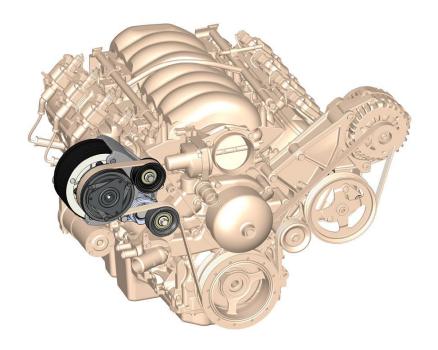
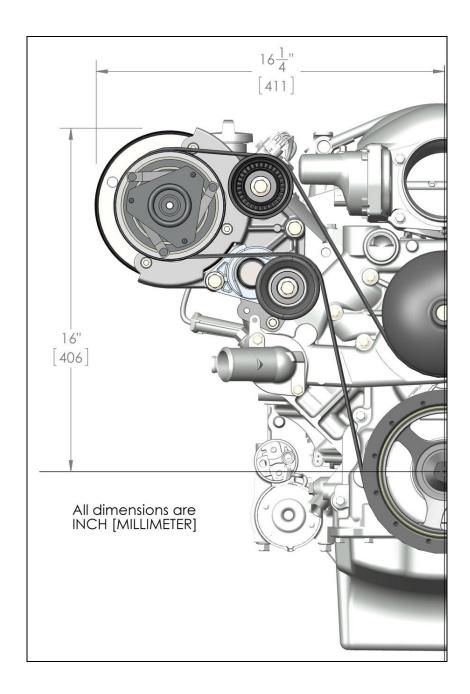


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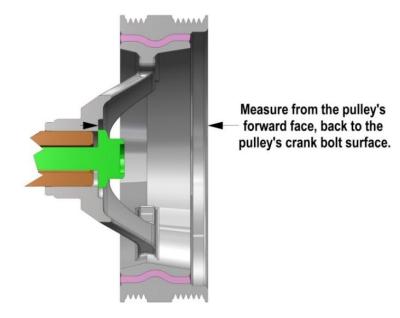
Introduction:

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 A/C bracket systems come with virtually everything needed for installation, from the A/C compressor to the pulleys. Most LS driver's side brackets and components can be used with this kit.

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.

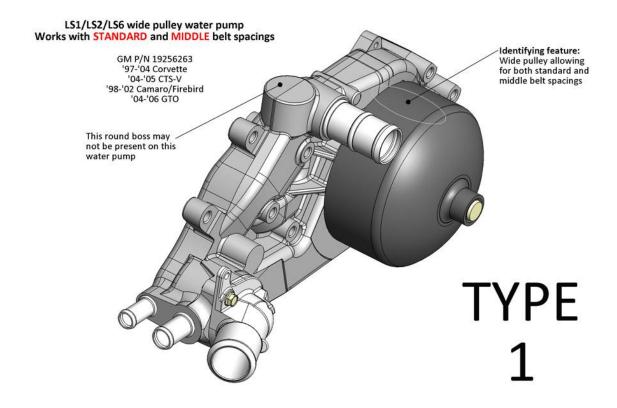
Overview of Parts Required (but NOT included with 20-140 accessory drive system):

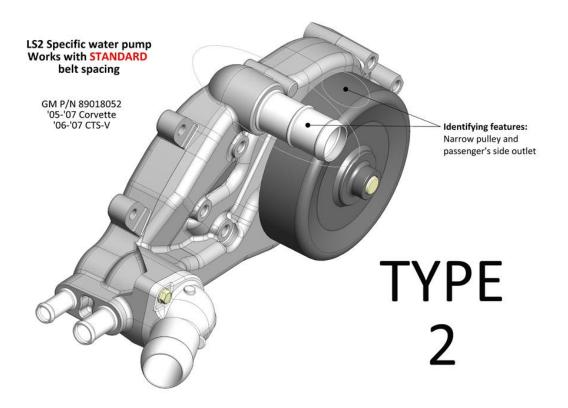
Components with specific belt alignments

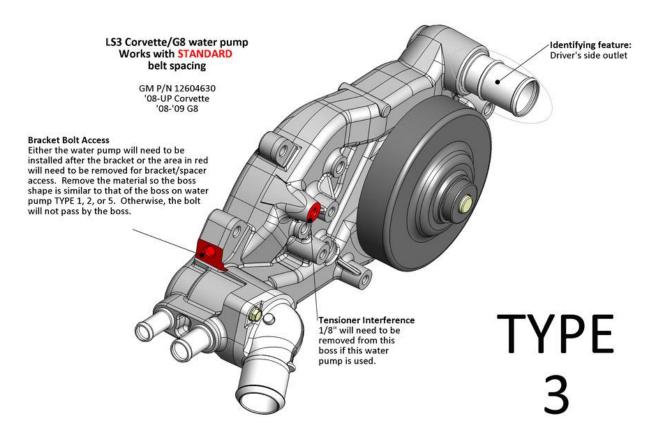
Belt Alignment	LS Application	Holley Installation Kit			Water Pump (Alignment Specific)	Original Equipment Driver's Side Bracket	
Group	(Alignment Specific)	(Alignment Specific)			GM#	GM # (Numerous)	
Standard	Corvette / CTS-V / G8	21-1	1.5"	37 MM	19256263, 89018052, or 12604630	Most LS driver's side brackets and components can be used	
Middle	F-body / GTO	21-2	2.25"	55 MM	19256263	with this kit, but only in conjunction with the corresponding alignment's	
Long	Camaro ('10-UP) / Truck (all)	21-3	3"	75 MM	19207665 or any truck WP	installation kit (21-1, 21-2, or 21-3)	

Water Pump Determination:

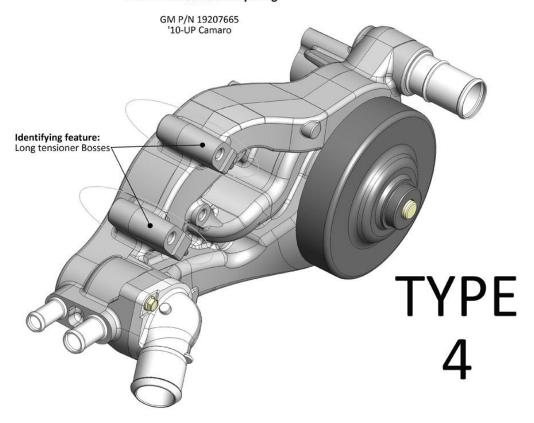
To determine which water pump type you have, refer to the following illustrations:

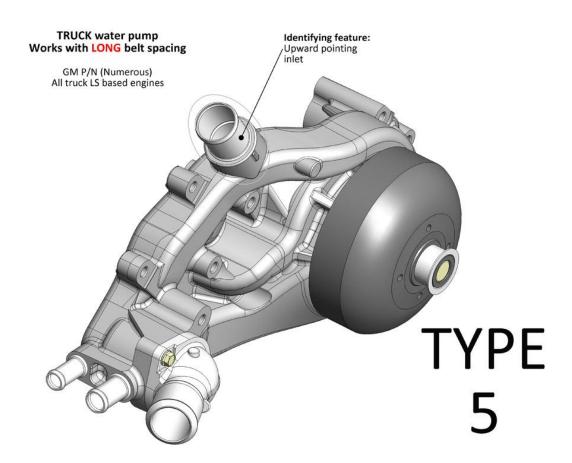






LS3/L99 Camaro water pump Works with LONG belt spacing





Parts List:

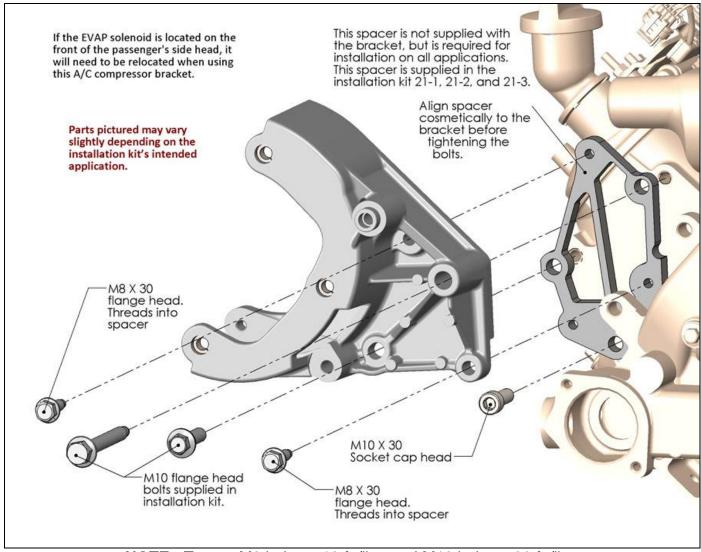
This accessory drive system requires application specific installation kit part # 21-1, 21-2, or 21-3

Parts included with 20-140 accessory drive system (see list supplied with installation kit for additional parts):

PICTURE	QTY	DESCRIPTION	APPLICATION	
	1	R4 A/C Compressor (P/N 199-100)	Passenger's Side Bracket	
	1	Belt Tensioner with Bolt (P/N 97-151)	Passenger's Side Bracket	
	1	Smooth Idler Pulley (P/N 97-150)	Driver's & Passenger's Side Brackets	
	1	Ribbed Idler Pulley, 59mm (P/N 97-153)	Passenger's Side Bracket	
	1	Pigtail (P/N 199-200)	R4 A/C Compressor	
	1	Passenger's Side Bracket Assembly	A/C Compressor & Tensioner	
	1	Socket Head Cap Bolt, M10 x 1.5 x 30	Spacer to Passenger's Side Head	
	3	Socket Head Cap Bolt, M8 x 1.25 x 100	A/C Compressor Bolts	
	2	Flange Head Bolt, M8 x 1.25 x 30	Passenger's Side Bracket to Spacer	
	1	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	

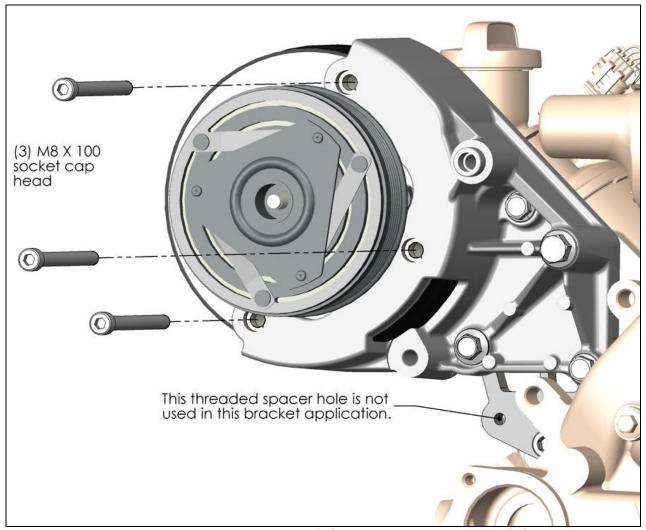
Assembly Instructions

Passenger's Side Bracket Installation:



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

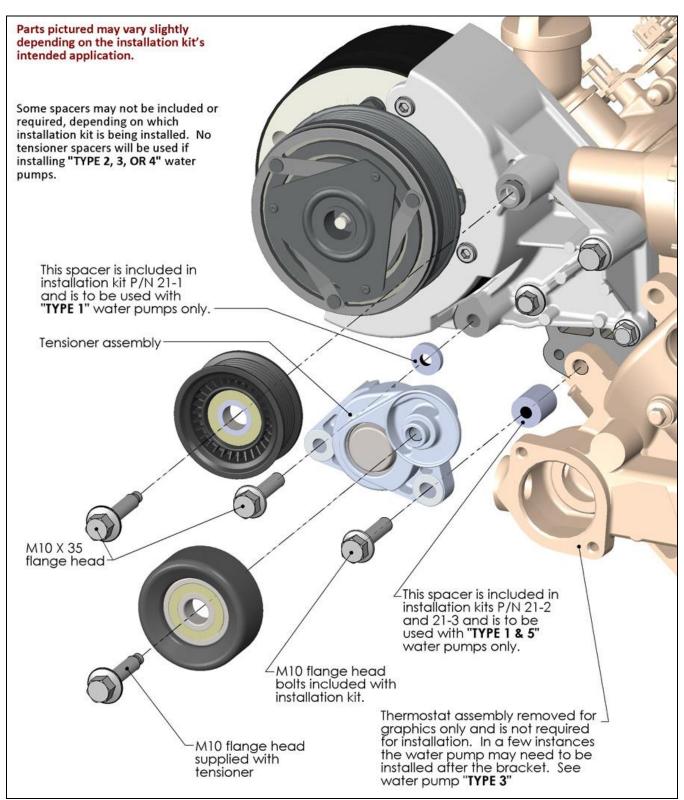
A/C Compressor Installation:



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

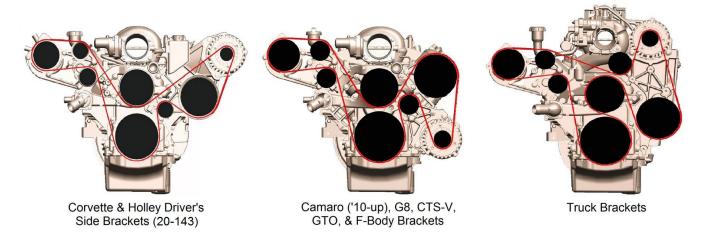
HELPFUL HINT: There is typically no polarity when wiring the two connectors for the A/C clutch. In a few cases a diode may be inline. After installation, if the clutch does not function properly, reverse the polarity.

Idler & Tensioner Installation:



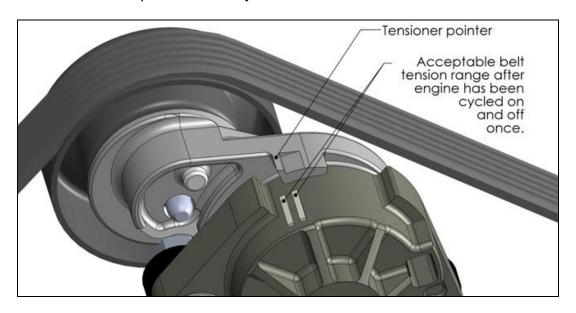
NOTE: Torque M8 bolts to 18 ft./lbs. and M10 bolts to 36 ft./lbs.

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 part number 6PK2490 (not included) if this A/C bracket system is used with Holley alternator and P/S complete bracket system P/N 20-143.



NOTE: If you are NOT using this system with P/N 20-143, 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".