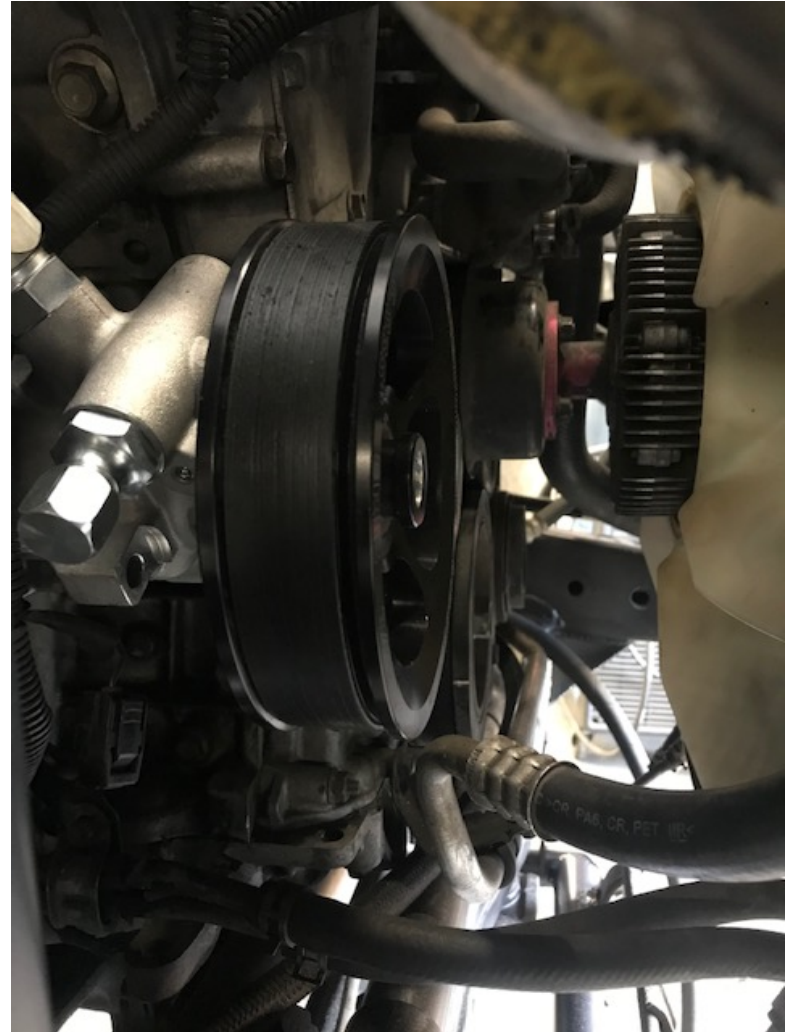


2005+ Toyota Tacoma Howe TC Kit Install

In order to install the Howe TC pump you will need to follow the steps below, please keep in mind things are very tight in there!!! Start with installing the pump using the bottom 5/16" bolt. Install the bolt without the bushings (keeping it loose). Then swing the pump up into place and put the 0.125" thick washer between the pump and the front side of the bracket. Next insert the stock bolt and put the supplied 0.093 shim between the pump and the rear bracket. The bottom spacer goes in from the front of the ear on the timing cover (in-between the pump and bracket) . PLEASE NOTE- This can be challenging so take your time, drink a beer, do some yoga or whatever the hell you need to do to relax!

Make sure belt is on the back side of pulley

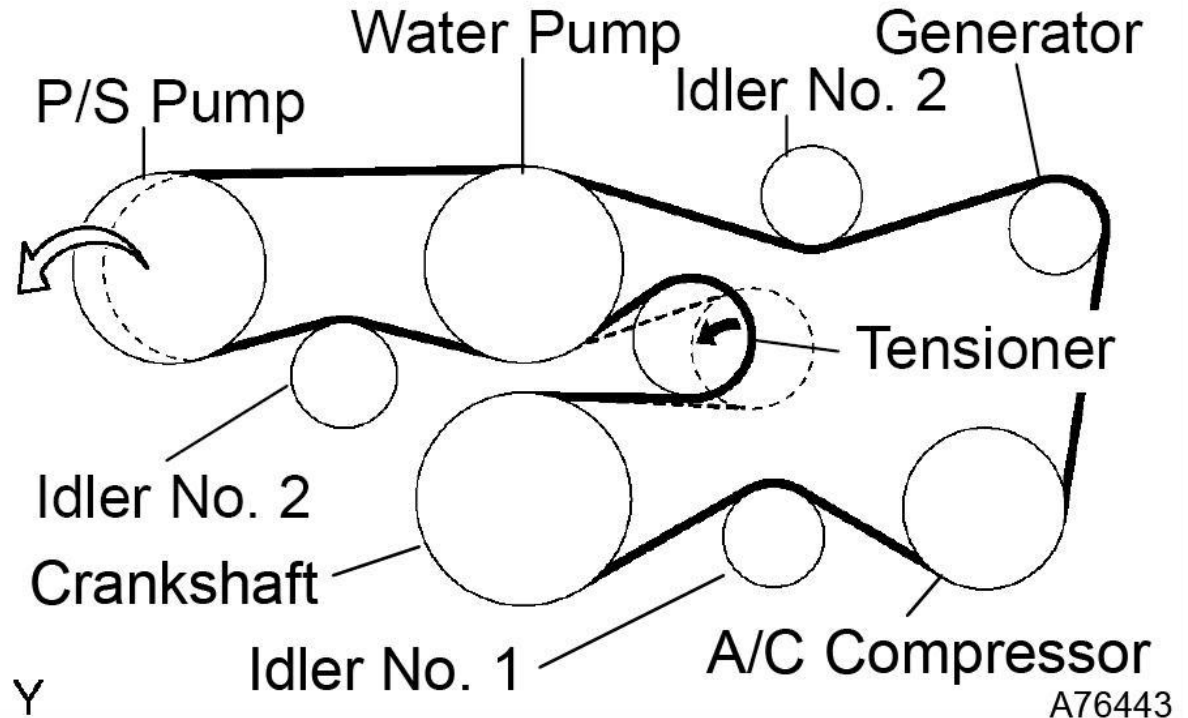


Belt Routing

Once you have the pump installed use the supplied belt and route as seen in the diagram.

Additional belts can be purchased from NAPA using part #070852 and is 15/16" x 85 3/4"

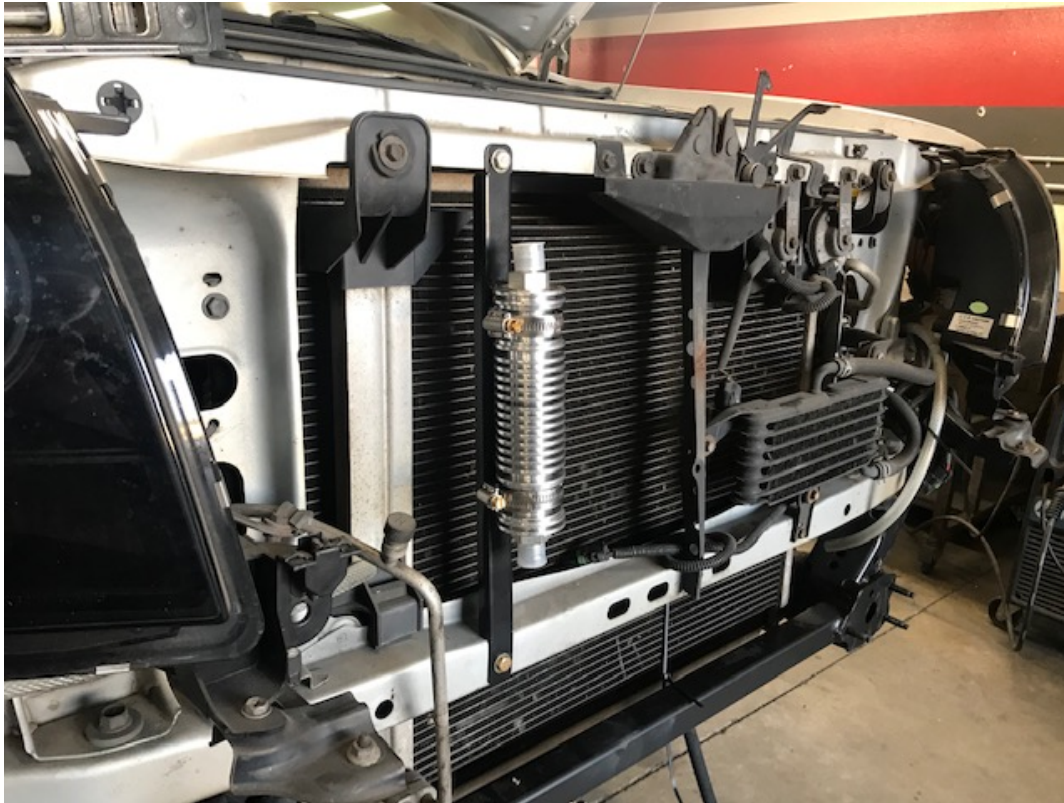
When installed correctly the pump will have an additional rib showing on the front side of the pulley



Installing the Power Steering Cooler

Use the supplied bracket and bolt it in the factory hole in the bottom of the core support. You will then need to drill the top mounting

The line from the rack to the cooler is about 40" of line without fittings. The fittings are -8 push lock and the stock fitting is used at the rack end with a barb reducer and hose clamp. Cut stock line about 3" from rack fitting.



If you are running the reservoir with the filter then you will need to mount it in the location shown below. We supply you with a sandwich plate that allows the bracket to be bolted to the front core support.

- With this configuration the -8 line from the cooler to resi is 18" long
- From the resi to the the pump is -10 with a 10" line length



If you are running the reservoir without a filter then it can be installed against the inner fender as seen in the picture to the right.

If it is installed in this location then the line lengths are different.

- From the cooler to the resi is a -8 line with 34" of length
- From the resi to the pump is -10 with 17" of length.



IMPORTANT!!!!!!!

Once all everything is installed and all lines are tightened up fill the system with **AC DELCO 10-5073 Power Steering Fluid**. This is the recommend fluid to be used by HOWE and other fluids will damage the pump. DO NOT USE SYNTHETIC fluid.

Next, jack the truck up so the tires are completely off the ground. With the engine OFF turn the steering wheel back and forth until there are no bubbles forming in the reservoir. This may take some time but its critical or else the pump will whine when the truck is started. Once the system is bleed, top the resi off with fluid to the underside of the baffle. Then start the truck and check the lines for leaks. Please also double check all hose routing and make sure the lines are secured. Go drive the truck and then check all fittings/fluid level again.