

# Olson Kustom Works

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## F-Body/GTO Front Accessory Drive Kit For LS9 Superchargers (rev 6.5)

Thank you for your purchase from OKW. If you have any questions about your products feel free to call or email!

**Please read the instruction manual completely before starting the installation.**

### Kit Contents:

LS9 Specific 8 Rib Upper Pulley (Any Diameter)  
6 Bolt Pulley Hub  
(6) M6x26mm Socket Head Bolts  
OKW SuperDuty Idler CON-49102  
Idler Pulley Bracket and Cone Spacer  
M10x60mm Bolt  
10mm Large Fender Washer  
(3) M8x100mm Bolt w/Washer

### Install Instructions for bracket kit:

1. One the drivers side of the water pump, remove all 3 bolts, they should be a 10mm or 13mm socket.
2. The bracket only installs one way, use the washers and install the 3 100mm hex bolts through the bracket, water pump, and into the block.
3. The 3 bolt holes on the idler bracket are there to accommodate different power steering pulley diameters. Choose which one fits the best for your application. There are 2 PS pulley diameters that GM used, both with the same part number, as well as multiple aftermarket options.
4. Torque the 3x 8mm water pump bolts to 22 ft lbs.
5. Take the idler, 60mm bolt, cone shaped spacer and large washer, and install them onto the main bracket in one of the hole locations (choose which one best clears your install, this can be moved later if needed).
6. Torque the 10mm idler bolt (17mm head) to 37 ft lbs.
7. Check the clearance between the idler pulley and the snout of the blower and the power steering pump, there should be roughly 1/8", a little more or less is ok. If there is any contact, a file or small grinder will be needed to clearance the lower part of the snout. This will not affect the blower or throttle body.
8. This kit was designed to use either a truck style or LS3 style throttle body, and both have fit without any modifications. If you are using any other type of throttle body, you may need a spacer or other shims to make it fit. Call us if you need any assistance. We have 1/2" and 1" Throttle Body spacers in stock at all times.

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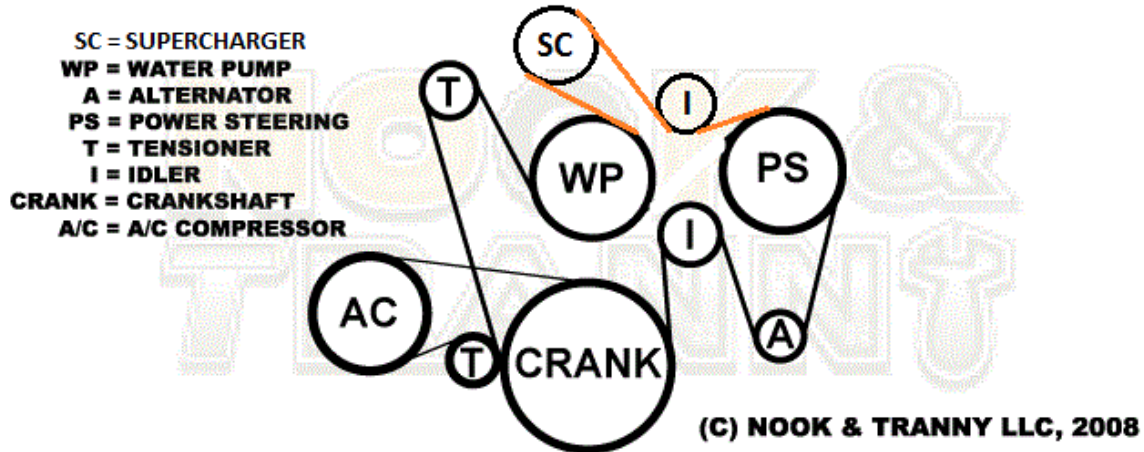
## LS9 Fbody/GTO Upper Blower Pulley Install:

1. If the blower is on the engine already, it may be necessary to remove the blower to unbolt the snout. This isn't always needed, if you can access all 6 bolts.
2. Remove the 6 bolts that attach the snout to the blower housing.
3. Unplug any vacuum lines going from the snout to the blower housing (video on OKW Facebook page will explain proper vacuum line hookup for swaps).
4. Using a pry bar, there are small tabs on each side of the blower snout, using a quick snapping motion, pry against the blower housing to break the snout free. It may take a little bit of work. You can also use a chisel, place it between the blower and the tab on the snout, and use the chisel as a wedge to pop the seal. After the gasket seal has been broken, just wiggle the snout off.
5. Remove the factory coupler inside the snout (you should be replacing this anyways).
6. Using a shop press, press off the factory blower pulley. If you are not comfortable with this, any competent machine shop should be able to do this.
7. It is advised to use a little bit of green loctite, also called shaft retaining compound, on the shaft. This is just a precaution and will help ensure the pulley hub will not spin. Marking the pulley hub and shaft with a sharpie, and checking the alignment from time to time will let you know if there is ever an issue.
8. Press on the new pulley hub. Make sure the shaft is properly supported that is in the MIDDLE of the 3 pins on the coupler flange. If the 3 pins are placed directly onto the press surface, you will damage the snout, or press the pins out of the flange (not good). **ONLY USE THE CENTER SHAFT FOR SUPPORT!!!!** Also, do not use a socket or any other device to put pressure on the flange that the 3 pins are in. ONLY put something under the back of the center shaft. We use a small piece of 1/4" thick aluminum to do this at the shop. **WARNING: Incorrectly installing a new pulley and not properly supporting the SHAFT BASE and placing load on the snout bearings WILL destroy your snout and cause the blower to make a TON of noise, and fail prematurely.**
9. The pulley hub should be pressed on until the shaft is flush with the front of the pulley. The snout should spin freely, and make no noise. The back of the hub should be tight against the front of the front snout bearing. You should feel when the hub is seated all the way, even with a press. Dont over-press the hub, you can bend the blower shaft and ruin the bearings.
10. On some installs that will see high rpm or lots of on and off the throttle use, a small tack weld can be applied to the snout shaft and pulley hub, to keep it from spinning. You can also cross-pin the hub, but thats usually not required for 99.9% of the installs
11. Using the 6 supplied M6x25 bolts, apply a small amount of loc-tite (red or blue) on the bolts, and tighten them all equally, and torque to 109 in-lbs. If you dont have a torque wrench, a good effort with a 1/4" ratchet is usually enough. Spin the pulley to make sure it spins true, some will need to be clocked on the hub to eliminate any small variances in machining, but that is a rare case. If you have a hard time holding the blower pulley, use a box end wrench around the center pin on the drive end, and leverage against the 3 drive pins, or put the 3 pin flange in a vice.
12. Install your new coupler, and install the snout back onto the blower, and install the blower back onto the engine.
13. Once your blower and idler are installed, you need to measure for a belt. Belt routing is pictured below. The easiest way to measure is using wire or string. The part number of a belt is the key to getting the right one. There are 2 formats. The "K" is the belt profile, the 6 is the number of ribs, and the number after that is either the length in inches or CM. A 1010K6 is a 6 rib K belt 101.0 inches long. Same belt is also a 6PK2565.
14. Now for the measuring:
15. Take a string or wire and wrap the pulleys following the picture below. Since belts are measured from the BACK of the belt, and you are measuring in the groove, this will give you the closest measurement. If the line on the idler isn't between the 2 lines on the base of the tensioner after you install the belt, go up or down a size. They usually have belts sized every 1/2".
16. Use a belt that will BARELY fit on once everything is in place, and the tensioner is completely maxed out. Once you get into boost a few times, the belt will stretch to its nominal length. Check the tensioner again and verify that its in the middle of its travel after the belt has had some time to stretch.

THERE IS A LINK ON OUR WEBSITE TO FIND CORRECT BELT PART NUMBERS BY LENGTH AND ANY PARTS STORE CAN INTERCHANGE THESE NUMBERS WITH ALL BRANDS. IF YOU MESSAGE ME ASKING ABOUT BELT LENGTHS I WILL ASSUME YOU WERE DROPPED AS A CHILD AND CANT READ SIMPLE INSTRUCTIONS!!!!

Standard OEM Style Belt Routing with all Stock Accessories

### CAMARO/FIREBIRD STYLE FRONT DRIVE



Stock accessories with no power steering, use a ribbed Dayco 89015 idler.

### CAMARO/FIREBIRD STYLE FRONT DRIVE

