

# PERRIN

## Alternator Pulley for 06-14 WRX and 07-21 STI

2021-06-29

PSP-ENG-119

Thank you for purchasing this PERRIN product for your car! Installation of this product should only be performed by persons experienced with installation of aftermarket performance parts and proper operation of high-performance vehicles. If vehicle needs to be raised off the ground for installation, the installer must use proper jacks, jack-stands and/or a professional vehicle hoist for safety of the installer and to protect property. If the vehicle is lifted improperly, serious injury or death may occur! Please read through all instructions before performing any portion of installation. If you have any questions, please contact our tech department prior to starting installation. We can be reached in any of the following methods:

Email [Tech@PERRIN.com](mailto:Tech@PERRIN.com)

Instant Chat off the main page of [www.PERRIN.com](http://www.PERRIN.com)

Or simply call our tech team at 503-693-1702



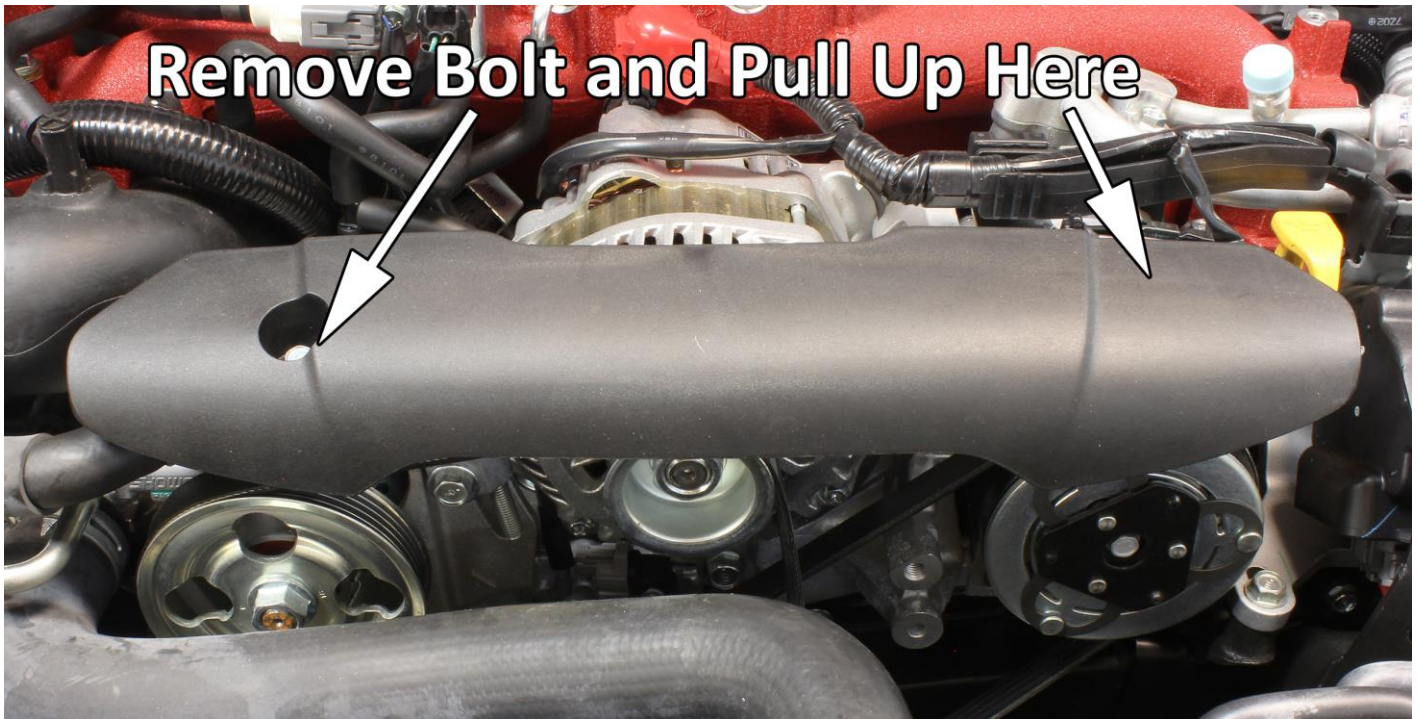
**WARNING:** This product can expose you to chemicals including Lead which is known to the State of California to cause cancer birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

### SPECIAL NOTES:

- This part requires a 24mm socket with an impact gun to be removed and installed. This is not a standard tool found in toolboxes, so make sure you have this before starting the install.
- When removing pulley or tightening nut, DO NOT try to hold alternator from turning by placing a tool through the insides. This will cause internal damage to alternator.

### Parts Included with the PERRIN Alternator Pulley:

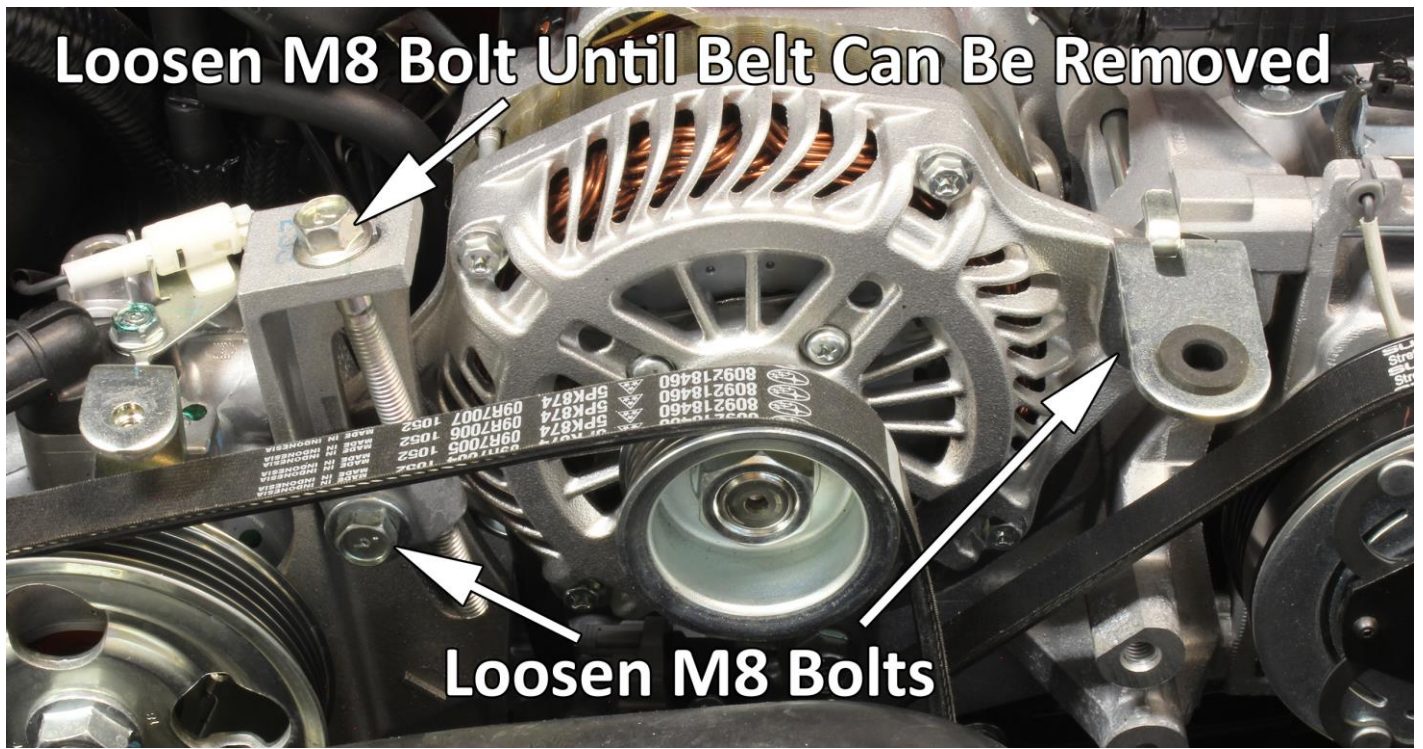
- (1) Alternator Pulley



### Removal Instructions:

1. Remove belt cover from engine by removing (1) M6 bolt from right side and pulling up on left side as shown above. **NOTE: Sides are described as though you are sitting in the driver's seat.**





2. Loosen (1-2 turns) the lower (2) M8 bolts (pivot and lock down for the adjustment of the alternator) as shown in picture above.
3. Unscrew upper M8 bolt and push down on alternator as you loosen it. This will allow alternator to pivot downward, removing tension from belt. Loosen bolt until belt can be removed from alternator pulley.



4. Lift alternator up to allow an impact gun with the 24mm socket to fit over nut. Unscrew nut (standard counterclockwise direction) from alternator. **NOTE: This may take several short bursts (with the pulley stopped between bursts) to free pulley from alternator. DO NOT install something through the insides of the alternator while trying to remove pulley.**
5. Clean any corrosion and or thread locking compound from shaft and threads.



## Installation Instructions:

1. Slide PERRIN Pulley onto alternator shaft until it stops, then thread nut down by hand. **NOTE: The pulley a precise fit onto the shaft. Take time in aligning pulley with shaft before pushing it on.**



2. Lift alternator up to allow impact gun and socket to fit over nut. Tighten nut on pulley using short bursts from the impact gun until you see the nut stop spinning.
3. Install belt over alternator pulley and make sure it is resting in the grooves of all the other pulleys.
4. Tighten upper M8 bolt to 5.7ft-lbs to add tension to the belt. Then tighten lower two bolts to 18ft-lbs to lock alternator into position.
5. Finally, impact nut onto pulley for roughly 1 second and this will be tight enough to secure pulley to alternator. **NOTE: This can be a tight with radiator hose and radiator in place. Depending on available tools and aftermarket parts installed, you may need to do the final tightening by lifting the alternator up high and holding the pulley with the belt wrapped around it.**
6. Start engine and double check belt is running true and not making any squealing noises.
7. Turn off engine and reinstall belt cover and intake scoop.

Questions, Comments and Suggestions Contact: [Tech@PERRIN.com](mailto:Tech@PERRIN.com)

Visit Our Website for Instant Chat Options at [www.PERRIN.com](http://www.PERRIN.com)

Call Our Tech Team at 503-693-1702