



Supercharger Pulley Removal & Installation Tool Metco Motorsports PN MPT0001

This tool is intended for use by experienced professionals only.

Please read these instructions completely prior to beginning work. The battery ground cable should be disconnected at the battery.

IMPORTANT NOTE: The interference fit between the blower pulley shaft and the blower pulley is nearly twice as tight on the Shelby GT500 as it is on the Cobra & Lightning. Due to this tight fit, the OEM Shelby supercharger pulley is often damaged upon removal. We recommend an assistant when using this tool to help maintain proper alignment of the tool relative to the supercharger shaft. Additionally, clearance issues on the Shelby make it impossible to remove a Metco Motorsports pulley hub from the Shelby supercharger using this pulley tool. A special tool designed for this purpose is available separately from Metco Motorsports under part number **MPT0002**.

Pulley Removal:

- On the Ford Lightning, it is necessary to disconnect the air inlet assembly at the throttle body and shift the inlet assembly to the right.
- The 10mm bolt (or plastic plug, if so equipped) in the end of the blower shaft must be removed.
- Depress the belt tensioner arm and remove the belt from the supercharger pulley.
- Configure the pulley puller on the vehicle as shown in image 1. (Note: The longest 3/8" bolts should be used when removing the pulley on a Shelby GT500.) **The chamfer on the horseshoe plate faces the supercharger.** Apply the supplied anti-sieze compound to the length of the threads on the main shaft of the tool. The 8mm centering stud in the end of the pulley tool shaft should be fully threaded into the supercharger shaft. Use the large washer between the second nut on the shaft (closest to the supercharger) and the aluminum block. Turn the nut closest to the supercharger counter-clockwise **while holding the outer (welded) nut stationary with a suitable wrench.** Use a slow and steady motion, while paying careful attention to the alignment of the tool.

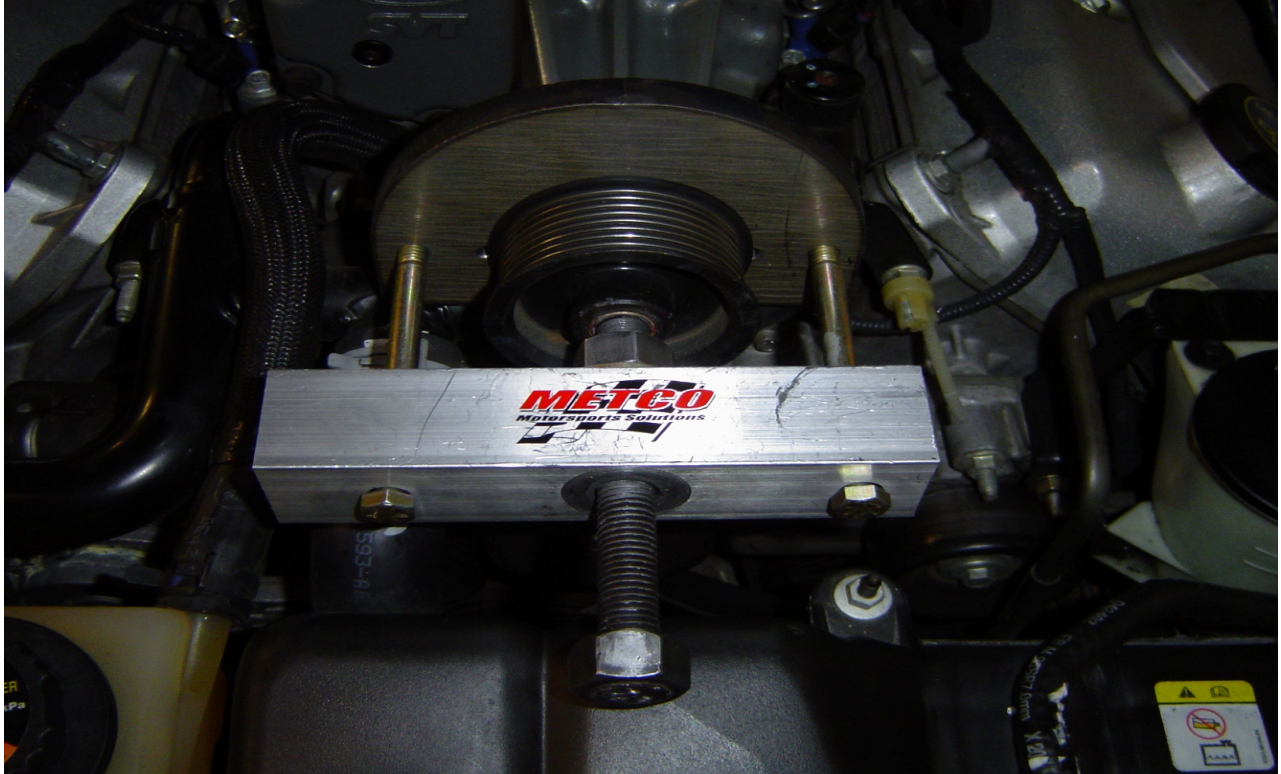


Image 1

- If the pulley tool shaft does not maintain perfect alignment with the supercharger shaft, the 8mm centering stud in the end of the pulley tool shaft may break. A spare stud is included in the kit. The pulley will ‘pop’ loudly as it breaks free and begins to move. Continue to rotate the nut closest to the blower until the original pulley is completely removed. Do not stop rotating the nut until the pulley is completely off the shaft, as it will be difficult to restart the motion if the process is stopped mid-way. This applies to both removal of the original pulley and installation of the new pulley.



Pulley Installation:

- Apply a light coat of anti-seize to the blower shaft and the inside of the pulley hub.
- Configure the pulley installation tool as shown in image 2.



Image 2

- The blower hub fits the shaft with the smaller raised OD closest to the radiator. Use care and patience when installing.
- Two hands are required to keep the blower shaft from turning (see image 2, right side). The nut closest to the supercharger (with washer between it and the aluminum block) is turned clockwise to press on the pulley hub. The hub must be pressed on fully (flush with the end of the blower shaft). Do not 'over install' the pulley hub – the threaded stud in the blower shaft will break.
- Install the pulley ring on the pulley hub using the fasteners supplied with the pulley kit. Snug fasteners and 10mm bolt in blower shaft, but do not tighten.



- Spin the supercharger pulley by hand to ensure adequate clearance between the supercharger snout and the pulley assembly. In rare instances, some filing of the ribs on the blower case is necessary.
- Re-install the serpentine belt on the supercharger pulley, and securely tighten the blower shaft bolt (if equipped) and the pulley ring fasteners.

Additional Notes:

- The small horseshoe bracket included in this pulley tool kit is intended for use when removing a Metco Motorsports supercharger pulley hub from a Mustang Cobra or Lightning truck. The smaller horseshoe bracket should be secured to the larger horseshoe bracket using the supplied ¼-20 x 5/8” socket-head bolts, and the tool configured as shown in image 1.
- The included 7” tubular stock is intended to serve as a handle to keep the aluminum block stationary when installing your supercharger pulley (see image 2, right side).