

500 Series Motor Inversion Kit

Part Number(s): 20B0074

Overview

The 500 Series Motor Inversion kit extends the motor shaft when a motor must be installed inverted (above the head track). The inversion kit requires an inverted motor ordered from the factory. A standard motor is not field up-gradable to become "inverted".

The inversion kit includes an 18" keyed shaft, 2 ball bearing shaft plates, U-Joint coupler, pulley and various hardware. An optional 60" shaft is also available.

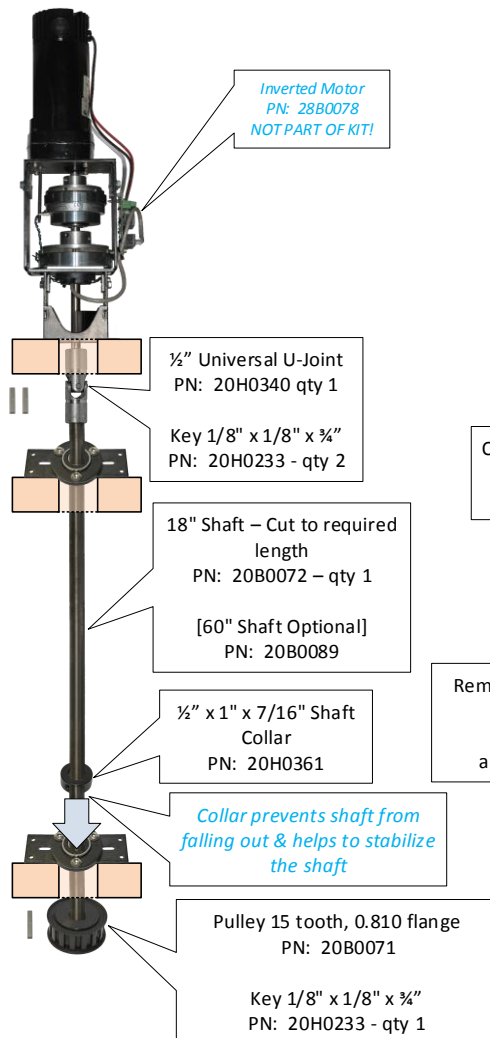
The E-Clips & fiber washers can be utilized if the installer manually cuts a groove in the shaft or obtains a 3rd party keyed shaft.

NOTE: The use of the inversion kit is an advanced installer option and not all parts included will be utilized.

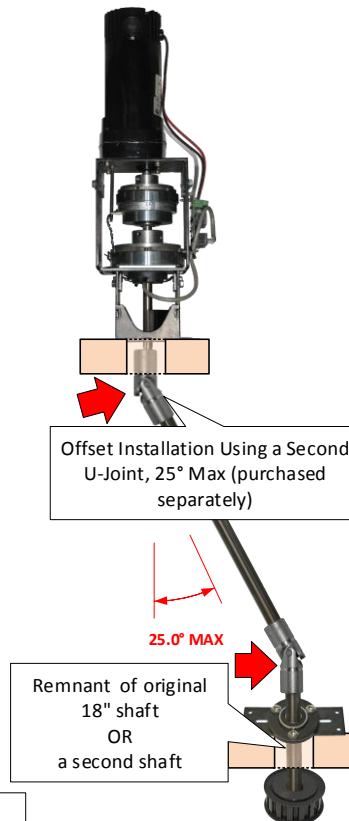
The parts included are for typical installations.

"Thread lock" is HIGHLY RECOMMENDED for ALL set screws!

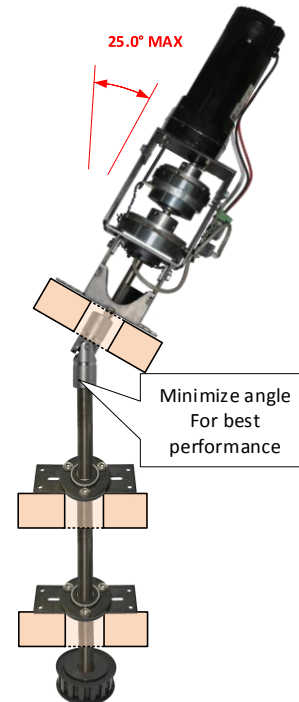
Typical Installation



Offset Motor Installation



Angled Motor Installation



500 Series Motor Inversion Kit

Part Number(s): 20B0074

Securing the Pulley

Due to the stresses put on the pulley during operation, it is imperative that it be prevented from falling off the shaft in case the set screws loosen over time.

Shaft Deformation – Preferred Method

- Prior to installing the shaft & pulley, use a chisel to the “dent” pulley end of the shaft. Protect the opposite end of shaft with a piece of wood to prevent mushrooming the “other” end of the shaft.
- Slide the pulley onto the shaft from the other side. Make sure the key way is also dented.
- Pulley replacement will require removing the entire shaft.



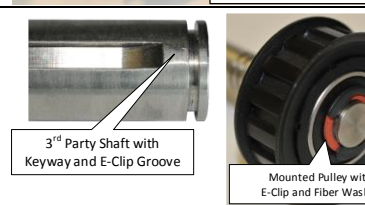
Shaft Collar – Alternate

- The shaft collar can also be used to help prevent the pulley from falling off.
- If the set screws of *both* the pulley and the collar loosen the pulley can be replaced without pulling the entire shaft..













3rd Party Shaft with Keyway and “E-Clip” Groove– Alternate

- This installation secures the pulley to the end of the shaft AND allows for the pulley to be replaced without pulling the entire shaft.



“Thread lock” is HIGHLY RECOMMENDED for ALL set screws!

Description	Qty	Part Number	
Extension Shaft 18”	1	28B0072	
Shaft Bearing Plates	2	n/a	<div>28B0036 x 1 20H0231 x 1 28H0236 x 3 28B0073 x 1</div> <div> Note: No assembly part number. Part numbers shown are for individual parts used to build a single shaft bearing plate; 2 are included in the kit</div>
1/2" Universal U-Joint	1	20H0340	
1/8" x 1/8" x 3/4" Machine Keys	3	20H0233	
1/2" x 1" x 7/16" Shaft Collar	1	20H0361	
Pulley 15 tooth, 0.810 flange	1	28B0071	
Red Fiber Washers	2	20H0248	
1/2" E-Clips	2	20H0232	
Optional Parts	Part Number		
Extension Shaft 60” (Specify when ordering)	28B0089		
1/2" Stainless Shaft Coupler by McMaster-CARR Can be used in place of the included “U-Joint” for vertical installations.	6099K41 NOT STOCKED BY IM		<div> https://www.mcmaster.com/#6099k41/=1a9q4dy</div>