

Classen Over Seeder TS20HD 2012 Drive Pulley Replacement

Remove and replace the drive pulley for the Classen Over Seeder TS20HD.

Written By: Arthur Shi



This document was generated on 2020-11-28 07:52:36 AM (MST).

INTRODUCTION

This guide shows how to remove and replace the drive pulley.

Note: The pulley can be hard to remove and requires a suitably sized gear puller to extract it.

Note: The pulley bolt may be heavily seized on with thread-lock. You may need to use a blowtorch to heat up the bolt in order to soften the thread-lock.



TOOLS:

- Wheel Chocks (1)
- Wood Block (1)
- Socket Wrench (1)
- 3/8-Inch Drive Extension Bar (1)
- 1/2" Socket (1)
- 7/16" Socket (1)
- 1/2" Wrench (1)
- 5/16" Wrench (1)
- 7/16" Wrench (1)
- 2-Jaw Gear Puller (1)
- Rubber Mallet (1)
- 3-in-1 oil (1)
- High-Strength Threadlocker (1)



PARTS:

- Classen PULLEY, DRIVE C100058 (1)
- Classen WASHER, 1/4 HEAVY SPRING LOCK C500070 (1)

Step 1 — Safety precautions



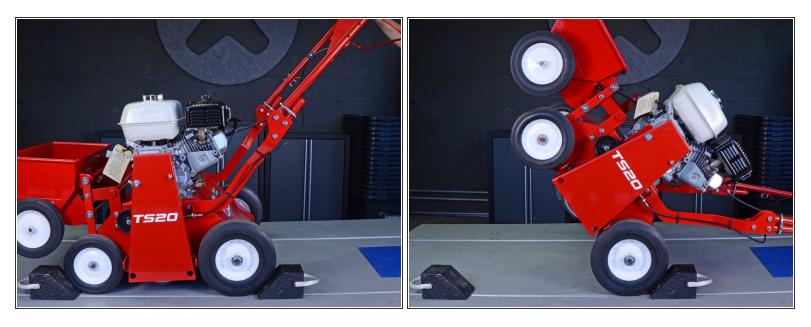


- ⚠ Before you begin, ensure that the machine is powered down and cool to the touch.
- Disconnect the spark plug to prevent the engine from accidentally starting up during service:
 - Grab the plastic housing at the end of the spark plug wire.
 - Pull firmly to disconnect the wire from the spark plug.



 To prevent the over seeder from rolling during service, place wheel chocks behind a rear wheel.

Step 3 — Tilt the over seeder

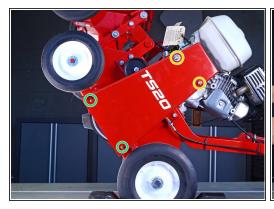


- Push down on the main handle to tilt the over seeder back on its rear wheels.
- Place some weights on the handle, or tie the handle down, to prevent the machine from falling forward.



 Place a wheel chock in front of a rear tire to keep the machine in place.

Step 5 — Unscrew the belt guard







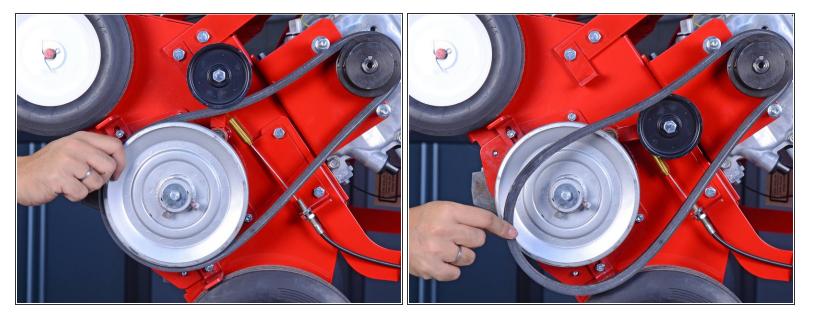
- Remove the four lock nuts securing the belt guard:
 - Two 1/2" lock nuts
 - Two 7/16" lock nuts
 - These lock nuts are recessed and require a socket extension to access.
- (i) Use box wrenches to hold the corresponding bolts in place as you loosen and remove the nuts.

Step 6 — Remove the belt guard

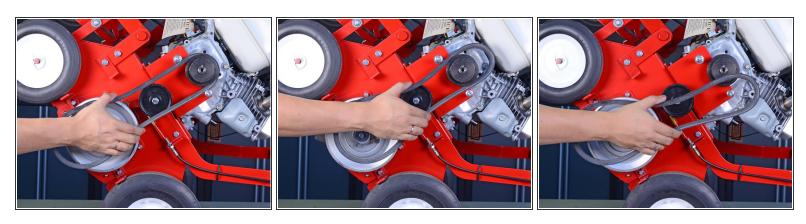


Remove the belt guard.

Step 7 — Rake Belt

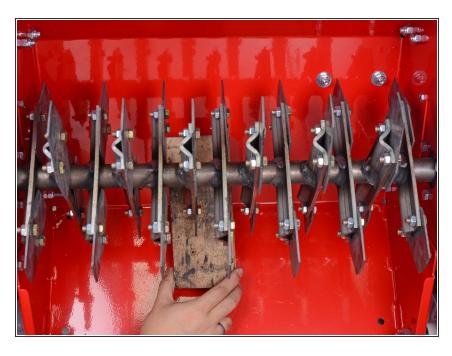


- Use your fingers to pry the belt off the drive pulley.
- (i) If you are having trouble, make sure that the machine is not resting on the bail bar up by the handlebars, which tightens the idler pulley.

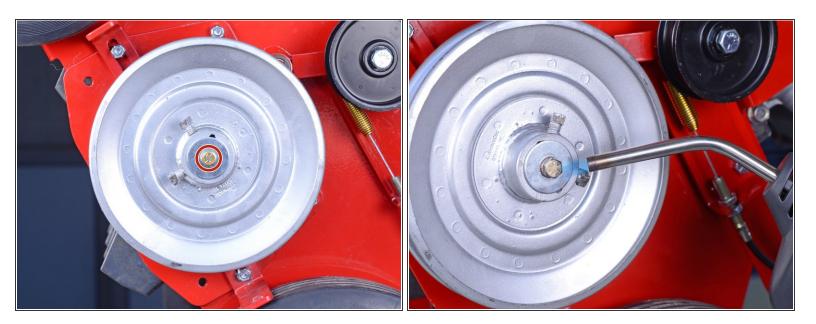


- Squeeze the belt and unhook it from the engine pulley.
- Remove the rake belt.

Step 9 — Drive Pulley



 Place a block of wood to jam the blades so they don't rotate forward, allowing you to unscrew the pulley bolt.

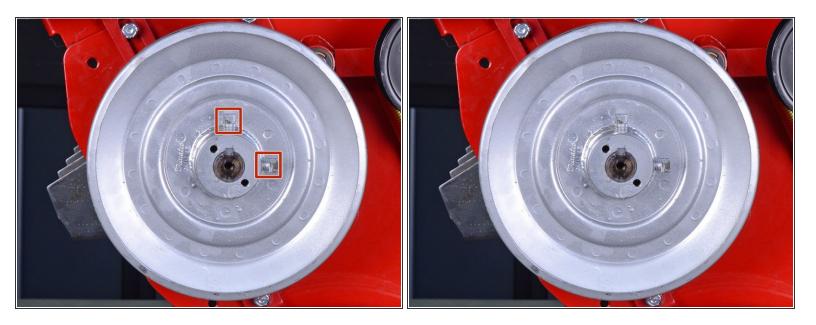


- Use a 7/16" socket and socket wrench to remove the center pulley bolt.
- The bolt can be heavily thread-locked in place, and the bolt head can shear off easily. To prevent breakage, use a torch and heat the bolt for two minutes to weaken the thread-lock.

Step 11

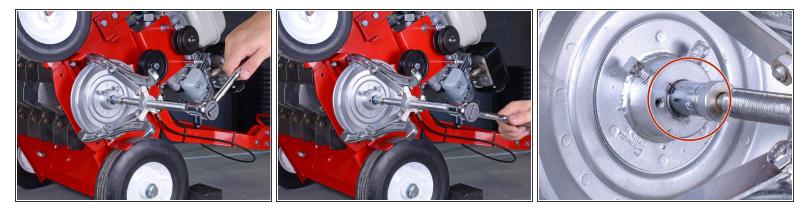


- Remove the bolt, along with the pulley retainer washer and crush washer.
- Re-assembly tip: Replace the crush washer with a new one and apply red thread-locker to the bolt threads.

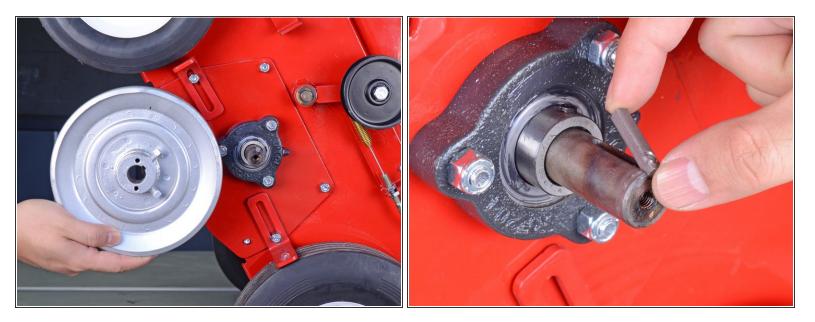


- Use a 5/16" box wrench to loosen the two set screws.
 - You don't need to remove the set screws completely—two full turns sufficiently loosens each set screw.

Step 13



- Your pulley may be loose enough to remove by hand. If not, follow this step to use the gear puller to remove the pulley.
- Attach a gear puller to the pulley.
 - If your gear puller's center pin is too thick for the pulley, use a 1/2" socket as a buffer.
- Crank on the gear puller with a wrench to remove the pulley.



- Remove the drive pulley.
- Remove the square axle key.





Re-assembly tips:

- Lubricate the axle and key with machine oil.
- Set the square key in the pulley first, then align the pulley onto the axle. This makes it slightly easier to hammer the pulley in place.
- Hammer the pulley in place with a rubber mallet.
- Before you tighten the set screws, make sure that the drive pulley's belt path aligns with the idler pulley.

To reassemble your device, follow these instructions in reverse order.