

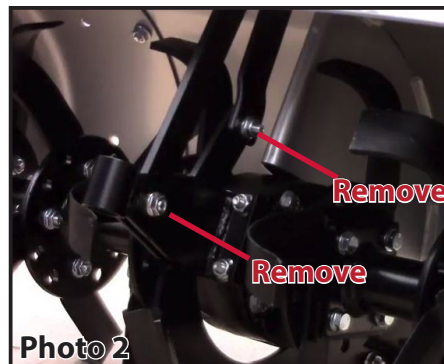
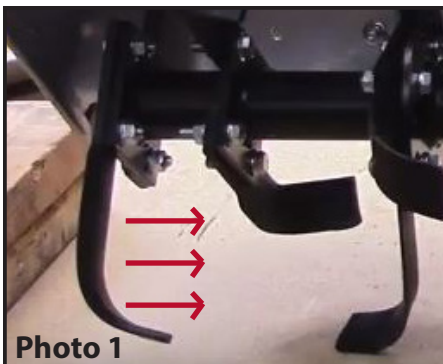
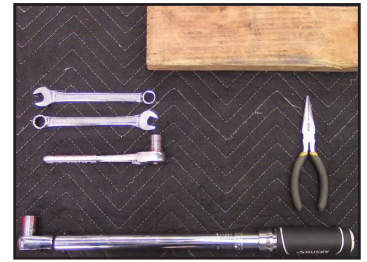
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Precision Depth Roller Installation Instructions

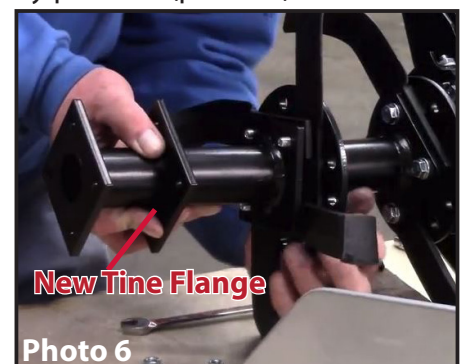
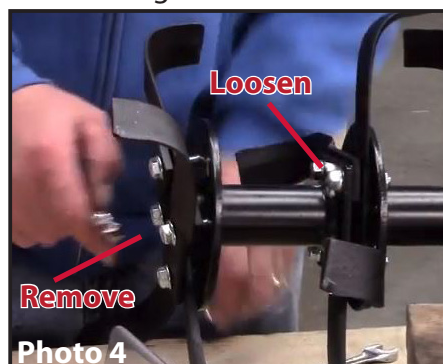
Part 1 - Reconfiguring the Tiller Tines (for 30" Tillers Only. Skip to Part 2 for 26" Tillers)

The Precision Depth Roller (PDR) requires a re-configuration of the tiller tines to avoid throwing soil outside the width of the finished bed. To accomplish this, you will need 13mm wrenches / sockets (2), a board for blocking, needle-nose pliers, and a torque wrench with 13mm socket.

For a more detailed video tutorial of this process, head to www.bcsamerica.com/pages/how-to-videos or scan the QR code below.



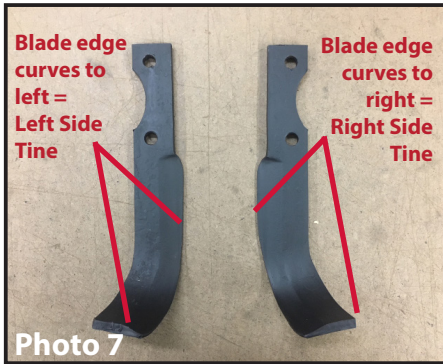
The outside tines ultimately need to be flipped inward (photo 1). Begin by removing the tiller flap, which requires removing the cotter pins and washers with needle-nose pliers and sliding the flap out to the right and setting aside. Next, using two 13mm wrenches, remove the 8mm bolt that secures the hood strap to the rear bracket. Then remove the 8mm bolt that secures the central knife coming up from below the depth control handle extending down from above (photo 2). Now, pivot the hood upward and forward, then place the blocking board under the innermost set of tines and maintain a stationary position (photo 3).



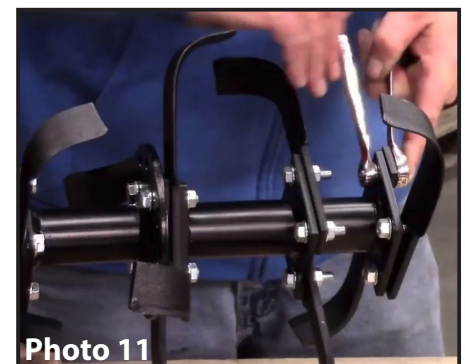
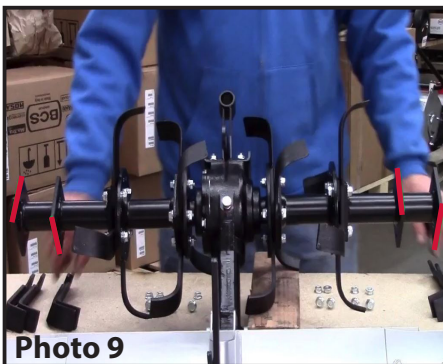
Using two 13mm wrenches, unbolt the four tines on the outside tine holder flange and set them aside. Then loosen the four bolts on the next flange (photo 4). Remove the nut/washer from one of the loosened bolts on the second flange. Remove the bolt and reverse it, passing it through the flange and the two tines from the opposite direction. Replace the nut to hold it in place. One at a time, do the same for the next three bolts. Now remove each of the nuts, holding the loose tines and bolts carefully in place (photo 5). Remove the flange and replace it with the new one provided in the kit (photo 6). Secure it in place with the nuts/washers. Perform the same procedure on the other side of the tiller.

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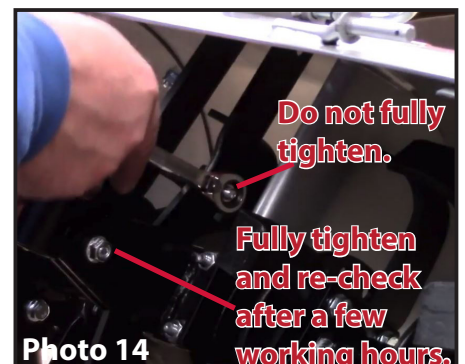
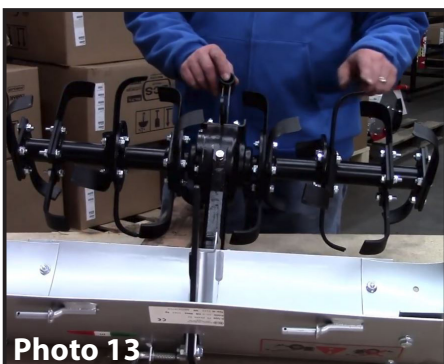
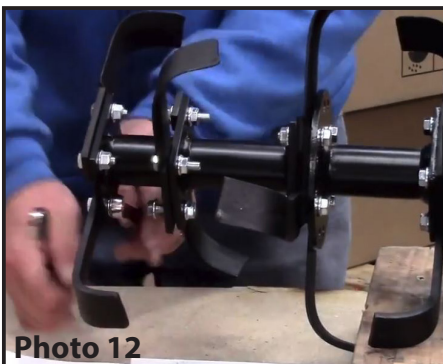
Precision Depth Roller Installation Instructions - Part 1 Continued



You now have 8 removed tines. Separate them into two piles: one with the four Right Side tines, the other with four Left Side tines. Place the Right Side tines on the left side of the tiller, and the Left Side tines on the right side (photo 8).



Add the remaining 8x30mm bolts and nuts (8) to the original hardware that remains from the tine removal. Each empty flange will hold two tines, both turned inward and toward the central gearbox (photo 9). Starting with the inner flange, place a tine on the outboard side of the flange, making sure that it is positioned 90 degrees from the outward facing tine on the adjoining tine assembly (photo 10). Fasten it by passing two bolts through the tine and flange and securing each with a washer (if present) and nut. On the opposite side of the same flange, secure the second tine. Follow the same procedure for the outer flange, making sure that each tine is positioned 90 degrees from the tine on the adjoining flange (photo 11).



Follow the same procedure for the opposite side of the tiller (photo 12). Check to make sure that all of the tines are facing forward and conform to the staggered pattern of being offset by 90 degrees from the tines on the adjoining holder (photo 13). Confirm that all of the flange nuts are properly tightened to between 17-19 foot-pounds. Remove the blocking board and return the hood to its original position. Insert the bolt that holds the hood strap to the rear bracket, and secure with a self-locking nut. Tighten completely and re-check for tightness after the first couple hours of use. Rejoin the central knife to the depth control handle using the original hardware, but do not over-tighten the nut -- the handle must be able to pivot back-and-forth (photo 14).

You are now ready to attach the roller assembly (photo 15). See Page 3.

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Precision Depth Roller Installation Instructions

Part 2 - Mounting the Roller Assembly (30": 92191311; 26": 92191312)

Mounting the Precision Depth Roller (PDR) requires 13mm wrenches / sockets (two), a pair of needle nose pliers, and lubricant. Included with your kit should be four 8x25mm bolts, two rubber bushings, two washers, and two cotter pins like those previously removed from the rear flap of the tiller.



Photo 16



Photo 17



Photo 18



Photo 19

Start by applying lubricant to the Tiller hood prongs and the two rubber bushings (photo 16). Then insert the two rubber bushings into the slots on the guard (photo 17) and slide the guard onto prongs (photo 18). Next, install the washers and cotter pins on the prongs (photo 19). Use the needle nose pliers to expand the cotter pins. If excess rubber is preventing you from installing the washer or pin (photo 20), remove the bushing and cut off 1/8" to 1/4" of the bushing.



Photo 20



Photo 21

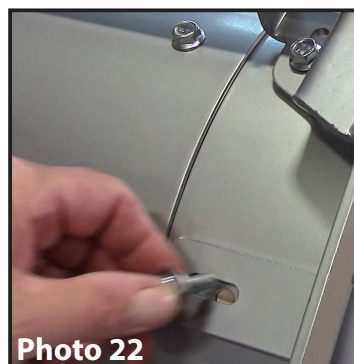


Photo 22

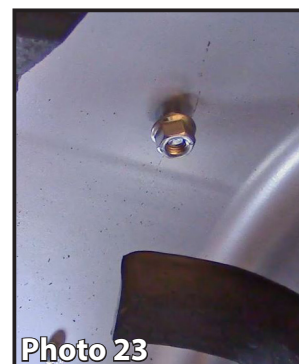


Photo 23

To more easily align the holes in the frame with those in the hood, release and pull back on the roller's depth control lever until you reach the setting that best aligns the four holes in the hood with those in the frame (photo 21). Insert a bolt through each hole (photo 22). Reaching under the hood, install a flange nut onto each bolt (photo 23). Tighten each completely.



Scan the QR code above for a more detailed video tutorial of this process,
or visit www.youtube.com/BCSAmerica