



INSTALLATION INSTRUCTIONS

PART NUMBER	164-8001A
PART DESCRIPTION	2016-2017 FLEX & IKON BUFFER BRUSH
REV DATE	4/15/2020
MACHINE MODELS	FLEX AND FLEX WALKER & IKON



Basic knowledge of the lane machine including mechanical and electrical

TOOLS NEEDED:

Phillip Screwdriver
(2) 9/16 wrench
Feeler Gauges

allen set
1/2 wrench

3/16 cut allen
7/16 wrench

PARTS INLCUDED:

Buffer Brush assembly

Key Stock



TECHNICAL NOTE

Please thoroughly read the instructions prior to performing the installation of this assembly.

To avoid any potential problems, if at any time during the process you have a question, stop and contact our Tech Support department at the numbers listed below.

Please visit our growing library of videos to see if these instructions are available!



www.youtube.com/user/KegelBowling81

KEGEL TECH SUPPORT:

Within USA - 1-800-280-2695
Outside USA - +1 863-734-0200
via e-mail at LMC@Kegel.net
website www.kegel.net

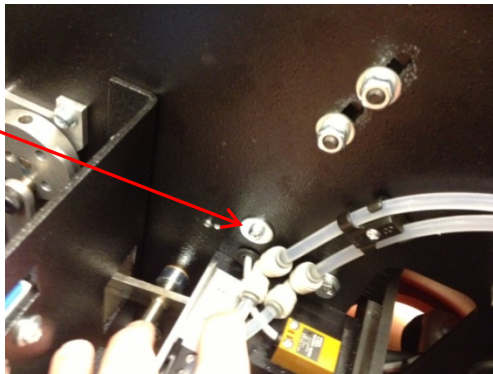
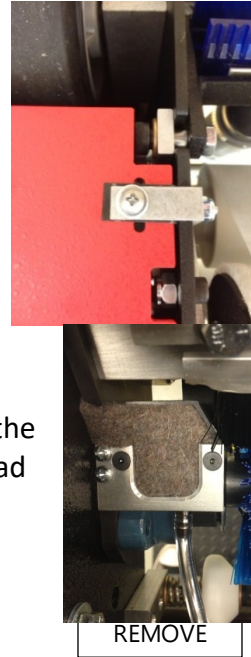


Remove the Side Guards

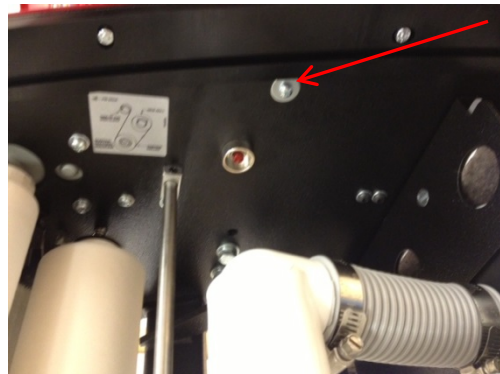
1. With the machine in the up-right transport position, locate the three screws that mount the bottom of the side cover as shown to the right.

FLEX WALKER ONLY (steps 2 and 3 only)

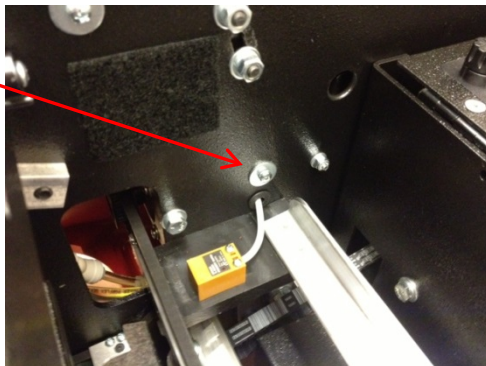
2. The FLEX Walker will have an additional fastener that will fasten the bottom of the guard into a mounting post.
3. On the FLEX Walker, it will be necessary to remove the bumper wheels on both sides of the lane machine.
4. Set the machine down in the operating position and remove the 2 phillips screws that connect to both the 7 and 10-pin drip pad assemblies.
5. While in the operating position, slide back the cleaning compartment lid and remove the two screws that fasten the side covers to the side plate of the machine.



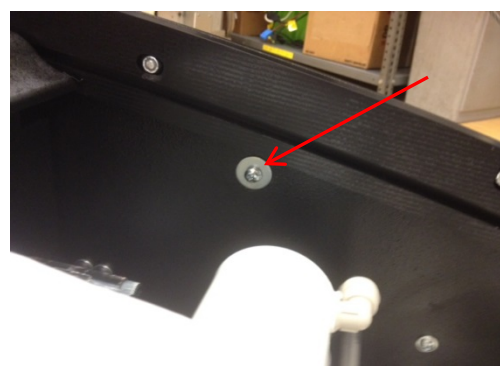
Oil Compartment 10-pin side



Cleaner Compartment 10-pin side



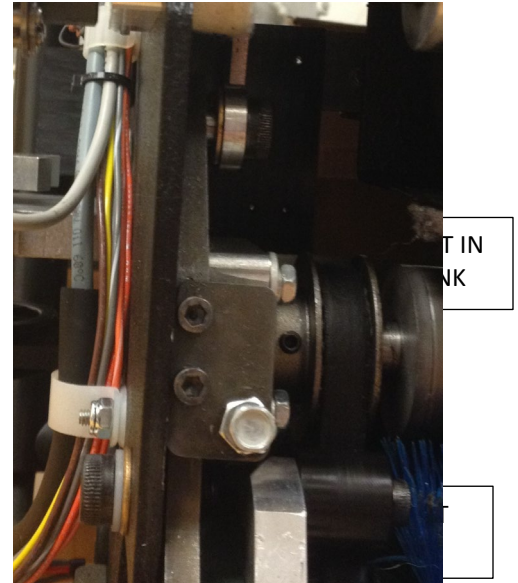
Oil Compartment 7-pin side



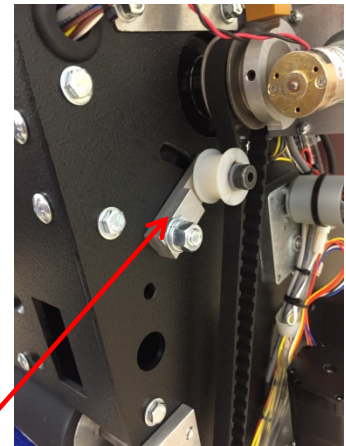
Cleaner Compartment 7-pin side

Removal of Buffer Brush

6. With the machine in the up-right position, use the cut 3/16 allen wrench to remove the shoulder bolt that mounts the lowering link to the plate assembly. Do this for both the 7 and 10-pin side.



7. Loosen the idler pulley for the belt on the right.
(NOTE) If machine has VB you will need to loosen the 2 1/4-20 nuts to move prox sensor to remove belt from motor pulley. You will need to make sure gap is reset to 10 thousandths



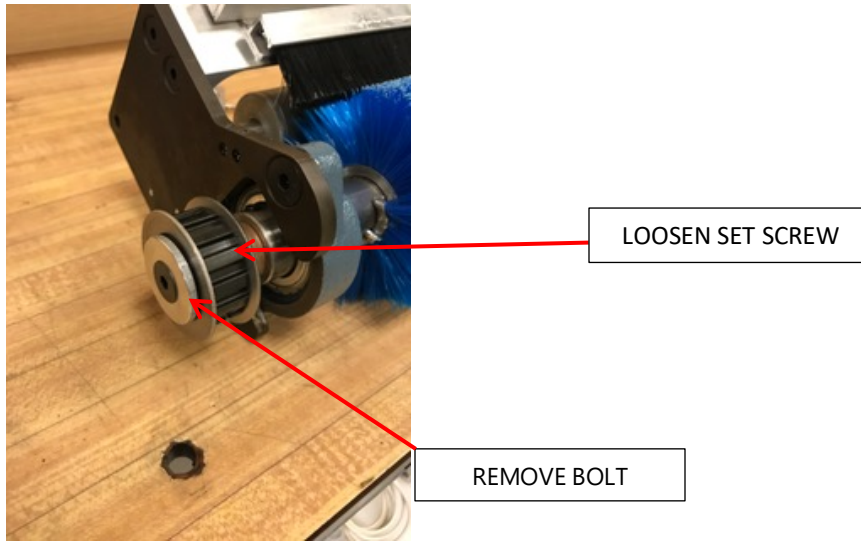
BELT TENSIONER

8. Remove the shoulder bolt that threads into the plate from the outside of the machine (upper pic).
9. After removing both the 7 and 10-pin bolts, you will now have enough slack in the belt on the right side to remove it from the upper pulley.

Changing out the Buffer Brush

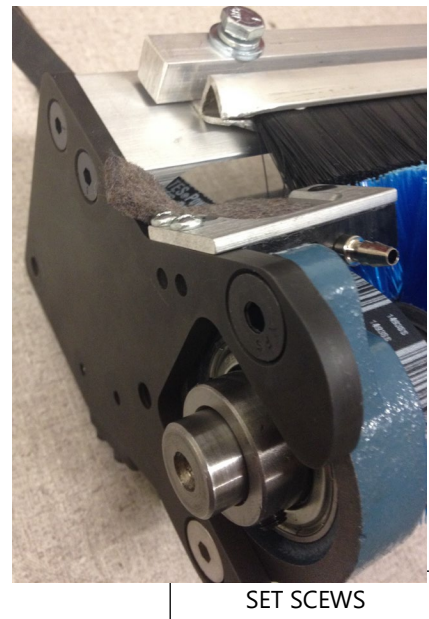
Now that the Buffer/Transfer brush is out of the machine and on a clean workbench, we can disassemble the buffer assembly.

10. Set the assembly on the bench with the 7-pin side of the brush facing left. This is also the side that has the long buffer belt on the pulley.



11. Remove bolt from end of pulley and loosen setscrew as shown above.

12. Loosen the two set screws on the left bearing (7-pin side) and remove the two bolts that mount the Transfer Brush assembly to the plate. (7-pin side only)
13. Slide the left bearing and plate assembly off the Buffer Brush and transfer roller shaft.

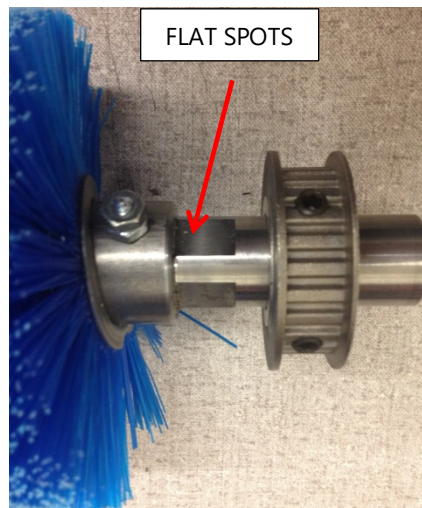


14. Loosen the transfer roller belt tensioner on the 10-pin side.



LOOSEN AND PULL AWAY
FROM THE SHAFT

15. Once removed, slide the buffer brush from the bearing and pulley on the right side. It will be necessary to roll the small belt off the pulley on the buffer assembly while pulling the buffer from the bearing.
16. Now that the Buffer Brush assembly is out of the buffer bearing, remove the small pulley from the old buffer brush.



FLAT SPOTS

17. Take the new Buffer Brush assembly and place it on the workbench with the shaft that is keyed to the left. The right buffer brush shaft will have two flat spots on it for fastening the set screws.

18. Take the Small pulley and slide onto the right side with the set screws over the flat spots on the shaft. Tighten the set screws all the way.

19. Take the Buffer brush and with the small transfer belt around the shaft of the buffer brush, slide it through the right-side bearing assembly. It may be necessary to walk the belt onto the pulley at the same time. Make sure the small transfer belt is around both pulleys before continuing.



20. Ensure the small white fiber washer is slide onto the shaft of the transfer roller assembly as shown in the pic to the right.

21. Line up the Transfer roller bearing on the plate with the transfer roller shaft. Slide the left bearing and plate assembly on to the shafts of the buffer brush and transfer roller assembly.

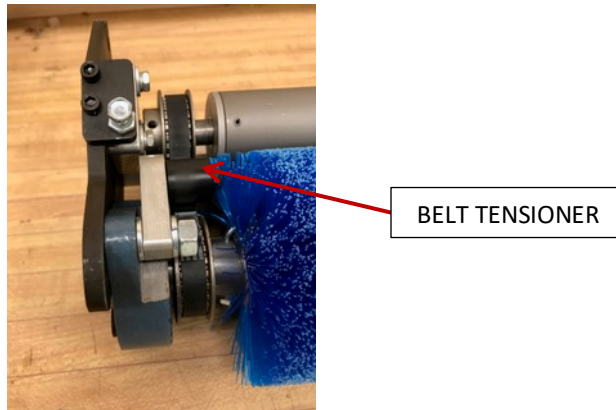


22. With a drop of blue loc-tite on the threads, bolt the Transfer brush assembly back onto the plate and tighten.

23. Reinstall the 2 bolts fastening the buffer bearing.

Installation of Buffer Brush

24. Take the assembly and set it into place inside of the lane machine.
25. Thread the shoulder bolts into the plate from the outside of the machine. Do this to both the left side and right side and tighten all the way.
26. Fasten the lowering link onto the plate by using the remaining shoulder bolts and fasten.
27. Press transfer belt tensioner against belt (not too tight) and tighten tensioner.

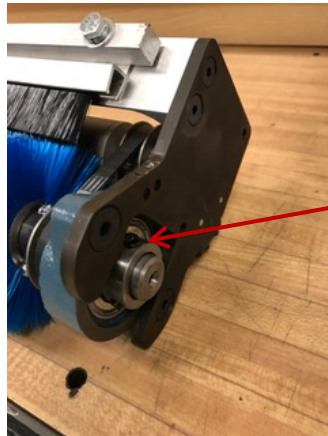


28. Make sure the buffer up/down motor is in the up position and reinstall the buffer belt.
29. Once buffer belt is installed, put the buffer up/down motor back in the down position before adjusting belt tensioner.
30. Adjust tensioner so there is a little slack in belt but not overtightened.
31. Before tightening the setscrews, line up the buffer brush pulley with the motor pulley.

Reinstall the Side Guards

32. Follow the steps in reverse order for installing the side.

Prior to operating the lane machine on the lane, go to the Test Outputs and check that the function of the buffer brush is working properly.



TIGHTEN SCREWS IN
BOTH PLATES