



INSTALLATION INSTRUCTIONS

PART NUMBER	154-1809D & 154-1809E
PART DESCRIPTION	BALDOR MOTOR SEAL REPLACEMENT
REV DATE	5/10/2012
MACHINE MODELS	ALL BALDOR DRIVE & BUFFER MOTORS



Basic knowledge of the operation of the lane machine

TOOLS NEEDED:

7/16" Wrench
Flathead Screwdriver
5/16" Nut Driver

½" Wrench
Small Funnel
Rags

3/16" Allen Wrench
5/32" Allen Wrench

PART(S) NEEDED:

(1) 154-1809D Seal – Rear Drive Housing End / (1) 154-1809E Seal – Front Shaft End

NOTE:

**TO REPLACE THE 154-1809D SEAL – REAR DRIVE HOUSING END, COMPLETE STEPS #1 - 15.
TO REPLACE THE 154-1809E SEAL – FRONT SHAFT END, COMPLETE STEPS #16 - 24**



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



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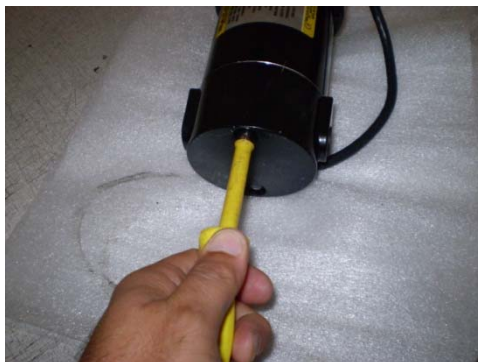
1. Disconnect power & lay machine down in the operating position.
2. Remove motor from machine
3. Scribe a line from the gear box to the back of the motor. The line will assist when re-assembling the motor.



4. Unscrew caps & remove the carbon brushes



5. Loosen & remove the two long screws in the very end of the motor that secures the gearbox onto the motor housing.



6. Take the motor apart to access the back of the gearbox.



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7. Remove the large snap ring on the back of the gearbox. Pull the armature and shaft from the gearbox. You might have to wiggle and pull on the shaft slightly to get it to come out.



8. Remove the rear seal (154-1809D). Install the replacement seal. Inspect the armature & shaft for wear marks, which might indicate that the issue with gear oil getting into the back part of the motor will/might happen again in the future.



9. Drain the gearbox oil from motor.
10. Slide the armature and shaft back into the gearbox and re-install the snap ring.
11. Completely clean the electrical part of the motor with non-flammable contact cleaner and blow out gently.
12. Re-assemble the motor in the same manner it was taken apart, making sure to line up the scribed lines so the motor runs in the correct direction once assembled. This step can be slightly difficult due to the long mounting screws passing by the magnets inside the motor housing. Make sure the screws are both seated properly into the threaded holes in the gearbox before tightening completely.
13. Inspect the 154-1809E Seal – Front Shaft End located in the front part of the motor where the shaft comes out of the gearbox to make sure it is not leaking. If it appears to be leaking, this is a good time to replace this seal as well.
14. Using a 5/32" Allen wrench, remove the threaded plug on the top of the motor gearbox (the plug looks like a set screw). Add exactly 6.750 oz. of 75W-90 synthetic gear oil into



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the gearbox (when you lay the motor assembly on its side you will just start to see oil come out of the threaded hole where you removed the plug). Screw plug back into top of gearbox.



15. Re-install motor in machine, and using proper test output, run motor to check for proper operation.
16. Disconnect power & lay machine down in the operating position.
17. Remove motor from machine
18. Sit the motor upright on the workbench, so the shaft is at the top, facing straight up.
19. Loosen & remove the four screws from the front of the motor. Remove the front portion of the motor from the gearbox.



21. Pull the shaft out of the housing.



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22. Using a flathead screwdriver, carefully pry the 154-1809E Seal – Front Shaft End out of the front of the housing. Install the new seal.



22. Push the shaft completely back into the housing & seal, making sure the end of the shaft goes through the washer that is inside the gearbox.
23. Properly position the housing back onto the gearbox and secure w/ the four screws removed in step #19. Tighten screws completely.
24. Re-install motor in machine, and using proper test output, run motor to check for proper operation.



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