



## INSTALLATION INSTRUCTIONS

PART NUMBER	158-8434C
PART DESCRIPTION	10 GALLON RECOVERY TANK CONVERSATION
REV DATE	12/15/2008
MACHINE MODELS	ALL PAINTED MACHINES



Should only be performed by a Kegel Certified Level 1 technician

### TOOLS NEEDED:

Right Angle Electric Drill  
9/16" Wrench  
Phillips Screwdriver  
.010" Feeler Gauge

Tape Measure  
Allen Wrench Cluster  
Round file  
¼" Wrench

25/64" Drill Bit  
Needlenose Pliers  
Snap Ring Pliers



### 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](http://www.youtube.com/user/KegelBowling81)



Take full control of your  
lane machine at  
[My.kegel.net](http://My.kegel.net)

- Place orders with Distributor
- Maintenance reminders on phone
- Software updates
- How to videos

**Kegel's Lane Maintenance Central:**  
Within USA - 1-800-280-2695  
Outside USA - +1 863-734-0200  
via e-mail at [LMC@Kegel.net](mailto:LMC@Kegel.net)  
website [www.kegel.net](http://www.kegel.net)



Rev. 3.14

1. Disconnect power to the machine & remove the old Recovery tank from the duster compartment.
2. Using the Allen wrench cluster, loosen and remove the drive shaft timing star from the right side (7-pin) of the machine.
3. Using the needle-nose pliers, remove the retaining clip from the main drive chain master link and remove chain from around the drive shaft.
4. Using the 9/16" wrench, remove the (4) bolts that secure the drive shaft wall pillowblocks to both the left and right side plates.
5. If you have an Ion, remove the charger plate and PC plate. If you have a Kustodian Plus remove the PC Plate. Now remove the (4) 3/8-16 x 1-1/4" bolts that secure the drive shaft pillowblocks to the Center Tank wall (from inside the electrical compartment).
6. Remove the drive shaft from the machine.
7. Drill (4) new 25/64" pillowblock mounting holes in the Tank & Vacuum Wall at the following locations:
  - a. 14-5/8" in from the left side (10-pin) @ 1" up from bottom flange
  - b. 14-5/8" in from the left side (10-pin) @ 2" up from bottom flange
  - c. 37-13/16" in from the left side (10-pin) @ 1" up from bottom flange
  - d. 37-13/16" in from the left side (10-pin) @ 2" up from bottom flange
8. NOTE: Be very careful not to drill through any wires or components behind the Tank & Vacuum Wall, inside the electrical compartment
9. Remove any burrs from the backside of the Tank & Vacuum Wall from the drilling process.
10. Remove the old pillowblocks from the drive shaft and install the new 158-8435 Drive Shaft Pillowblocks included in the upgrade, making sure the two 8-32 tapped holes in the blocks are towards the top of the blocks when mounted.
11. Re-install the drive shaft back into the machine, but do not completely tighten the mounting bolts yet.
12. Completely tighten the (4) bolts that secure the drive shaft wall pillowblocks to both the left and right side plates.



Take full control of your  
lane machine at  
[My.kegel.net](http://My.kegel.net)

- Place orders with Distributor
- Maintenance reminders on phone
- Software updates
- How to videos

**Kegel's Lane Maintenance Central:**  
**Within USA - 1-800-280-2695**  
**Outside USA - +1 863-734-0200**  
 via e-mail at [LMC@Kegel.net](mailto:LMC@Kegel.net)  
 website [www.kegel.net](http://www.kegel.net)



13. Completely tighten the (4) bolts that secure the drive shaft pillowblocks to the Center Tank wall (from inside the electrical compartment). Spin the shaft to make sure it spins freely. If the shaft doesn't spin freely, open the newly drilled holes a little more using the round file until the shaft does spin freely.
14. Re-install the drive shaft timing disk onto the right side (7-pin) of the drive shaft. Push the disk up against the shaft and tighten the set screw.
15. Center the timing disk to the proximity switch target. Slide the drive shaft collars against the pillowblocks & tighten set screws completely. Again, make sure the shaft spins freely.
16. Make sure the timing disk is not hitting the proximity sensor and that there is a .010" gap between them.
17. Place the drive chain back around the drive shaft sprocket and re-install the master link.
18. Install the (2) 154-6881 Recovery Tank Support Bars on top of the new pillowblocks using the (4) 153-2806 8-32 x 5/8" FHMS included in the upgrade.
19. Re-install the battery charger and/or PC plate back into the machine. Plug the machine in and turn the drive motor output on to ensure proper operation. If chain "pops", loosen the drive shaft sprocket and adjust it to the the left or right as applicable. Remember to re-tighten the sprocket set screw.
20. Install the new 158-8434 Recovery Tank Assy in the duster compartment, making sure all hoses are re-connected properly to the tank.



Take full control of your  
lane machine at  
[My.kegel.net](http://My.kegel.net)

- Place orders with Distributor
- Maintenance reminders on phone
- Software updates
- How to videos

**Kegel's Lane Maintenance Central:**  
**Within USA - 1-800-280-2695**  
**Outside USA - +1 863-734-0200**  
via e-mail at [LMC@Kegel.net](mailto:LMC@Kegel.net)  
website [www.kegel.net](http://www.kegel.net)



Rev. 3.14