



INSTALLATION INSTRUCTIONS

PART NUMBER	154-1214
PART DESCRIPTION	FLUID METERING PUMP ASSY
REV DATE	2/7/2014
MACHINE MODELS	ALL SANCTION LANE MACHINES



Basic knowledge on ALL aspects of the lane machine, including mechanical, electrical and operating software

TOOLS NEEDED:

Phillip Screwdriver

3/32" Allen Wrench

Rags



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. With power removed, lower the machine down into the operating position.
2. Disconnect the plug to the Oil pump motor assembly
3. Remove the aluminum guard covering the pulleys & belt
4. Disconnect the tubing going to and from the fluid metering pump assembly
5. Using the Allen tool, loosen the two setscrews that secure the belt pulley to the Oil Pump shaft.
6. Slide the pulley and belt off the Pump shaft, set both aside for re-installment later.
7. Using a clean rag, wipe up any oil that may have drained from the fittings.
8. Before removing the pump, make a mark where it is located so the new pump can be installed in the same position. With the Phillips screwdriver, remove the two screws from the bottom of the pump mount angle that secure the pump.
9. **Because the metering pump is used for several different oil pump applications, it is necessary to install the metering pump sticker included, on the pump in the SAME MANNER as the sticker is installed on the old pump. Loosen the knurl-head screw on the new pump and remove the ring. Peel the backing off the new sticker and install on the lip around the new pump, again, making sure it is installed exactly the way the sticker was installed on the old pump. Once the new sticker has been adhered on the lip, place the ring back on the new pump before installing in machine.**
10. Remove the defective Pump and install the new Pump. Insert the new pump so that the side of the pump with the "RHOCKC" sticker is facing to the right.
11. Install the new pump into the same location as the old one, and thread the screws back in and fasten.
12. Slide the belt and pulley back on the pump shaft until the bottom of the pulley is flush with the shaft. Align one of the setscrews on the pulley with the flat spot on the shaft and tighten both setscrews. **DO NOT OVER TIGHTEN THE BELT!**
13. Add a small amount of lane conditioner into one of the ports on the metering pump. Spin the belt (by hand) in the appropriate direction to circulate the conditioner into the pump to lubricate the ceramic piston inside.
14. Replace both elbows into the corresponding sides of the Pump and tighten the caps on both compression fittings.



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15. Re-install guard over pulleys & belt.
16. Re-connect power to the machine and run a few rev. tests from the Operators MENU to remove air from the lines.

**THE PUMP IS NOT CALIBRATED FROM THE FACTORY!
VOLUME OUTPUT MAY BE EXTREMELY HIGH AT FIRST.
USE A LARGE COLLECTION DEVICE UNTIL PUMP IS CALIBRATED. AFTER THE
PUMP HAS BEEN ADJUSTED THE STANDARD GRADUATED CYLINDER SHOULD
BE USED**

17. After running the rev. tests and venting all air from the lines, the calibration needs to be checked on the machine. Do a calibration check and set the Pump at the correct setting.
18. Refer to your OPERATOR'S MANUAL to get exact instructions on how to perform the two previous operations.



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