



# INSTALLATION INSTRUCTIONS

PART NUMBER	164-8085
PART DESCRIPTION	Oil Tube Sleeve for Hose Barb Connection
REV DATE	7/22/2020
MACHINE MODELS	FLEX / FLEX WALKER



Basic knowledge of the operation of the lane machine

#### TOOLS NEEDED:

Allen Wrench  
Razor Knife

Dykes / Side Cutters  
Phillips Screwdriver

Rags  
Oil



#### 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)

KEGEL TECH SUPPORT:  
Within USA - 1-800-280-2695  
Outside USA - +1 863-734-0200  
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website [www.kegel.net](http://www.kegel.net)



## Removal of existing Oil Tube & Tip assembly

1. Place shop towels under the lane machine to collect any drips of oil that may fall from the machine.

2. Loosen the thumb screw that holds the Oil Pump Plate assembly in place and remove the Oil Pump Plate assembly out of the machine. Remove the cover for the Oil pump assembly that is attached in front by the two Phillip screws.

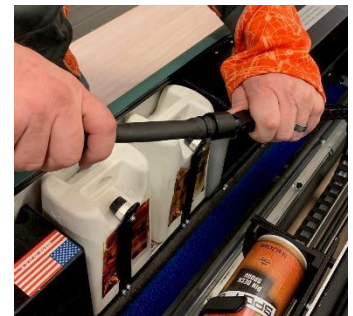


3. Follow the two oil hoses that are going to the oil control valves and remove them from the quick disconnect fittings that they are plugged into.

4. Disconnect the end of the Flex cable carrier from the barbed connection at the top of the Oil Tip assembly, as shown to the right.



5. Remove the Oil Tip & Tube assembly from the machine by pulling it all the way out of the Flex cable carrier. Lay the assy onto a work bench.



6. Using the dykes / side cutters, carefully cut and remove the (2) wire ties securing the old tubing onto the barbed connectors.

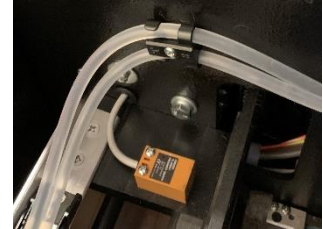
7. Using the razor knife, cut both ends of the old rubber tubing **ONLY** where it is pushed onto the barbed connectors. This will make removing the old sleeve much easier. **Note: be extremely careful not to cut the oil hoses inside the sleeve.**

8. Pull the barbed connector that was attached to the Flex cable carrier off, followed by the old piece of rubber tubing.

## Installing the new Oil Tube Sleeve for Hose Barb Connection

- Slide the new Oil Tube Sleeve for Hose Barb Connection on over the oil hoses. Place a drop or two of oil (or other lubricant) on the barbed portion of the connector, then push the sleeve completely onto the barbed connector. **NOTE: it is important that the oil hoses do not get twisted inside the sleeve when it is being installed.**
- Slide the remaining barbed connector back over the oil hoses. Again, use a small amount of lubricant on the barbed portion, and completely push the connector inside the sleeve. Snap the Flex cable carrier back inside the barbed connector.

- Being careful not to twist them, route the oil hoses back through the Flex Cable carrier, back through the clamps located on the 10-pin side and over to the oil plate assy.



- Plug the oil hoses back into the oil control valve fittings. These are located on the right side of the oil control valve when looking straight at it, as shown. It does not matter which tube goes into either pump. Adjust the hoses so there is a little slack.



- Reinstall the cover assembly with the two Phillip screws.
- Place the Oil Pump Plate back down into the machine and fasten the plate to the rear wall with the thumbscrew. Be sure the 2 Molex plugs are plugged in.
- Once everything is back together, run a few Oil Calibrations to verify they are correct, there are no leaks, and that everything operates as it should. The oil sleeve and tubes should bend / flex properly and not twist or kink in any way. If it does not, simply twist the sleeve slightly on the barbed connectors until it does. Secure the tube onto the barbed connectors as shown using the (2) 8" wire ties supplied. Trim wire tie ends w/ the dykes / side cutters.

