



# INSTALLATION INSTRUCTIONS

<b>PART NUMBER</b>	<b>154-8883</b>
<b>PART DESCRIPTION</b>	<b>UNIVERSAL OIL TIP ASSEMBLY</b>
<b>REV DATE</b>	<b>03/09/2004</b>
<b>MACHINE MODELS</b>	<b>PAINTED ST MACHINES WITH ROLLER ASSEMBLY</b>



Basic knowledge of the lane machine including mechanical and electrical

### TOOLS NEEDED:

Phillips Screwdriver  
11/32" Wrench

Pliers  
1/4" Wrench

Rags  
Drill

Crescent type wrench  
11/64" Drill Bit



### 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)



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**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)



If you have a light blue Standard machine and your machine does not have the hose clamp that is located on the splash guard, you will have to drill a new hole to add the clamp. You will first need to disconnect both pieces of hose attached to the splash guard (set hose spring aside for re-installation). Next, loosen both ¼" bolts that secure the splashguard to the machine. Loosening these bolts will allow you to slide the entire splash guard assembly out of the machine. Remove the quick disconnect fitting from the splash guard and discard. Now you need to measure 2 inches over (toward center of splash guard) from the center of the hole that contained the quick disconnect and use a center punch to mark the spot. Make sure you do this measurement on the painted side of the splash guard. Drill the hole using an 11/64" drill bit. Replace the splash guard in the machine and tighten fasteners back down to secure. Follow the remaining steps that are applicable to you.

1. Disconnect power from the machine. Lay machine down in the operating position.
2. Locate Oil Head assembly. Follow hose from assembly back to splash guard (this end will be inserted into a large spring). Remove this end of the hose from quick-disconnect fitting on splash guard. Use a rag to wipe up any oil that may drip from hose or fitting.
3. Slide hose out of spring, set spring aside for re-installation later.
4. Move back to Oil-Head assembly. Hold Pencil Tip assembly by the top collar. Press assembly down and turn counter-clockwise to release Pencil Tip assembly. Remove Pencil Tip assembly from Oil Head assembly. Discard assembly.
5. Next you will need to remove the fasteners that attach the hose clamp to the splash guard (the first part of this step does not apply to light blue machines). Once removed, insert new 8-32 screw and washer provided through splash guard. Slide clamp back on new screw and secure with new washer and locknut.
6. You will now need to disconnect the oil hose from the other side of the quick disconnect fitting on the splash guard. Follow the hose up to where it connects to the valve assembly, disconnect hose here also and discard this piece of hose.
7. The next step is to remove the quick disconnect fitting from the splashguard. This can be accomplished by using a wrench and/or pair of pliers. Discard this fitting. Insert the new grommet provided in the hole where the quick disconnect fitting was.
8. Inert NEW Tip holder assembly into Oil Head assembly. Press Tip Holder assembly down and turn clockwise until Holder assembly stops.
9. Place other end of hose back through spring and clamp on splash guard. As you have noticed the new hose is longer. Feed hose through grommet in splash guard and back up to the valve assembly. Press hose firmly into fitting.
10. Tighten clamp back down onto hose spring (make sure clamp is secured over the black tape area of the spring).
11. Run a few test lanes with machine to ensure proper operation.



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