



## INSTALLATION INSTRUCTIONS

PART NUMBER	154-8672
PART DESCRIPTION	LDS PROX SENSOR UPGRADE
REV DATE	1/20/2005
MACHINE MODELS	STD SE, AC, VB



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

### TOOLS NEEDED:

Phillips Screwdriver

4' Level

1/8" Drill bit

Feeler gauge

Wrenches (1/2", 9/16" & 1/4")

Electric Drill

Allen Wrench set

Rags or Towels

Small flat head screwdriver



### 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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## VERY IMPORTANT

**You must have the ability to upgrade the software at the conclusion of the hardware installation procedure!**

### Disassembly of Machine

1. Disconnect power and lay machine down in the operating position.
2. Open lid over oil compartment and then slide oil head all the way to the right of machine, this will give more room for the splash guard to open.
3. Now to remove the cleaner supply tank from machine, first unscrew the vent valve and unplug hose from tank. (the valve is hard wired to machine so lay aside to install later)
4. Unplug hoses from tank (use rags or towels for spillage) and unbolt from machine and remove. Hold on to all fasteners for later installation.
5. Using a Phillip screwdriver unscrew the two larger screws on the top plate over the LDS center block, this will remove the old sensor. After removing, cut the wire at the plate. Lay the two plates aside for later installation.
6. Remove small cover over timing disc with a Phillip screwdriver, and then remove the standoffs that the cover was screwed to by using a ¼" wrench.
7. Now remove the sensor disc from it's hub by removing the three small Phillip screws. Remember DO NOT remove hub from shaft.
8. Next is to separate the two plates you set aside, with a small Phillips screwdriver unscrew the two plates and pull apart. Hold on to top plate.

### Adding New Components:

1. Locate the aluminum 5 tooth sensor disc and the three 4-40 x 5/8 ms, with a drop of blue loc-tite screw the disc to the aluminum hub.
2. Locate new plate from kit and screw on to top plate the way the other one came off.
3. Run new Prox wire through the hole on top plate and screw the new Prox sensor to plate using two 4-40 x 7/8 screws provided in kit and using a drop of blue loc-tite on threads. Then mount back to center block with old fasteners. Using a feeler gauge make sure there is .0100 between disc and Prox before tightening.



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4. From top of plate measure up wire about 8" and cut it, strip insulation of wire back about 3" and strip each wire ½" to ¾".
5. Take the 3 terminal blocks and end plate out of kit, take the orange one with the mount hole to the left and snap the blue one on the right side of orange one. Then snap the gray one to the right side of the blue one, and take the end plate with the mount hole to the right and snap on to the gray block.
6. Mark two holes 1" apart above the center block between the tanks (making sure it will not interfere with anything). Drill holes with a 1/8" drill bit.
7. Using the two 4/40 x ½" screw and lock nut mount terminal block to inside of rear wall.

### Wiring the Sensor:

1. Now you will need to wire the Prox sensor cable to the terminal block, take the brown wire you stripped earlier and fold the stripped part of wire together so the wire is doubled. On one side of the block, using a small flat head screwdriver push in the top of the orange block and push wire in the side of the block. Release the top and make sure wire is seated properly in block.
2. Do the same for the blue wire in the blue block and the black wire in the gray block.
3. Now strip the old sensor wire insulation back about 3" and cut the pink wire off you do not use this wire, strip the blue, brown and black wire ½" to ¾". Fold the stripped part of wire together so the wire is doubled on all three, then plug the wires into the terminal block across from the same color wire by using a small flat head screwdriver push in the top of the each block and push wires in side of block.
4. Replace cleaner tank and plug hoses back into tank, plug float wire back together. And screw the vent valve back in.
5. Install new program and run on lane to assure proper installation.



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