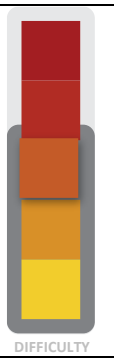
Installation Instructions

PART NUMBER	**154-8289**
PART DESCRIPTION	**INTERNAL TACH PROX UPGRADE**
REV DATE	**10/25/2022**
MACHINE MODELS	**PXS A/B, PX-8 A/B**



TOOLS NEEDED	PARTS
Drill Bits (1/8”, 3/16”, 5/16”, ½”, 1-1/4”) ½” Wrench 3/32” Allen Wrench Phillips Screwdriver 9/16” Wrench Electric Drill Needle-Nose Pliers Blue Loc-Tite	154-8289 INTERNAL TACH PROX UPGRADE

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.

VERY IMPORTANT

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

STEPS

Phoenix 8 pad Lane machine users please consult KEGEL prior to installing this kit. Additional parts may be necessary to complete this upgrade.

1. Remove the bolts securing the tach sensor guard and pull guard off drive shaft. If silicone is present, cut through the silicone to remove the cover.

2. Remove the tach sensor. This can be done by inserting a Phillips screwdriver into the access holes on the left side panel. Remove the screws and unplug the sensor from the cable.

3. Next, remove the actuator sprocket. It will be necessary to slide the main drive shaft to the 10 pin side of the machine, to allow sufficient room for removal. You can do this by loosening the main drive sprocket, the drive wheel closest to the drive sprocket and the stop collar just to the inside of the squeegee lowering arm. It may be necessary to pry the shaft to the 10 pin side. This should allow you enough room to remove the sprocket.

4. While the shaft is still loose, slide the new 15 tooth sprocket onto the drive shaft, teeth first.

5. Cut the template out for marking the new holes that need to be drilled. Remove the guide wheel assembly and reattach with the template secured in place. Using a center punch, mark each of the holes and remove the template.

6. Next, using the template as a reference, carefully drill all the holes that have been marked.

7. Using the two 5/16 x 1-inch bolts with a 5/16 lock washer and 5/16 flat washer, insert bolts from outside through panel holes #85 and 86. Thread the bolts into the Tach sensor pillow block assembly and tighten. The bushing in the pillow block should be in the center of hole #87.

8. Locate the aluminum 5 tooth sensor disc and the three 4-40 x 5/8 screws, with a drop of blue loc-tite screw the disc to the aluminum hub. Slide disc and hub onto small shaft (from kit) hub first and tighten hub on flat spot.

9. Next, slide a nylon washer onto the shaft of the sensor disc assembly and install the shaft through the frame and through the pillow block. Install another nylon washer onto the shaft on the other side of the pillow block. Along with the nylon washer, install the 15 tooth sprocket with the teeth facing towards the center of the machine. Ensuring that the shaft is spinning freely, but with no end play. Tighten the sprocket set screw.

10. With the 4/40 x 1-1/2 inch screws, 4/40 locknut, and the #6 flat washers provided, mount the new tach prox to the side plate. Before tightening, measure a gap between prox and disc of 0.010, then tighten prox. Fasten the cable to the frame by using the clamp and fasteners (8/32 x 3/8 self-tap screws and #8 lock washers) provided.

11. Next, insert the grommet provided into the ½" hole. Insert the prox cable through the grommet. Route the cable up the inside part of the frame and continue on through the white clamps mounted on the frame. (It will be necessary to carefully cut some of the cable ties that hold the existing wire harness). Locate the old sensor cable, and follow it back to the terminal block, for proper wiring. Then, route the new cable and wire it in to the terminal block in place of the old cable. Next, remove the old cable by pulling it through the grommet on the underside of the machine. (Do not throw this away, as it is still a good part). Using the cable ties provided, fasten the new sensor cable to the wire harness.

12. Next, install the chain around the actuator sprocket and the drive sprocket. When properly installed there should be around 3/16” of slack in the chain.

13. Locate the cover for the tach sensor, and secure it in place over the sensor. This is to protect the sensor from any oil or foreign debris. Do this by using two 8/32 x 5/8 ms, flat washers and locknuts.

14. When reinstalling the bolts for the drive shaft pillow block, use a 3/8 flat washer between the pillow block and the new cover plate that will be fastened down along with the bolts. This plate will cover the chain and sprockets. Use the new 3/8 jam nuts.

15. Install new program.