

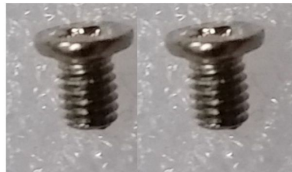


**TAG, replace plastic ramp with NEW stainless steel type.**  
**Application: All proto machines and all machines with headbox protrusion.**  
**10 pages – please DO NOT skip any instructions.**

**(1) Identify all parts supplied.**



Left lower ramp screw  
and plastic washer



Top ramp screws



Under ramp rubber ring post

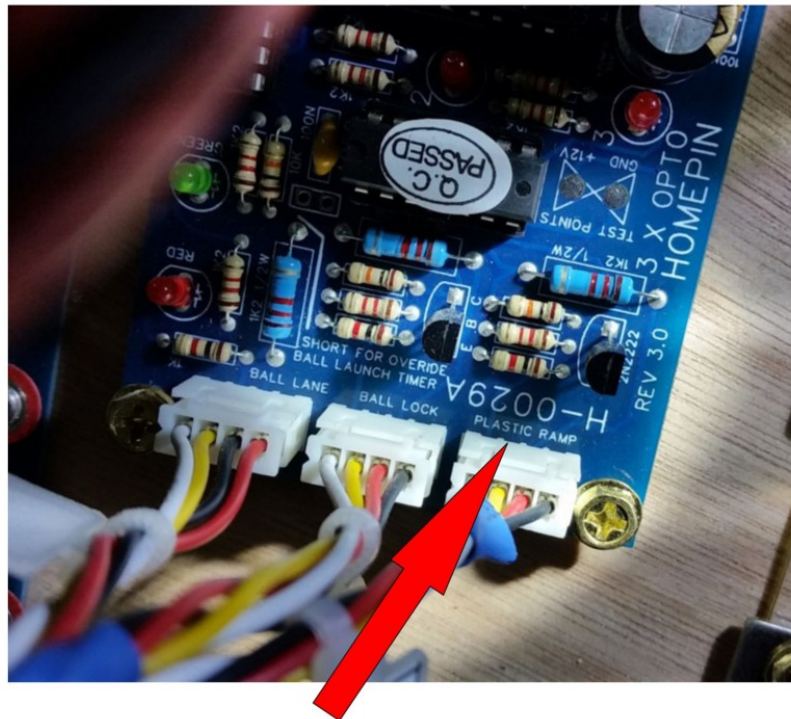


LED assembly



Switch spacer (2mm)

**(2) Locate and unplug the plastic ramp opto from the 3 x opto board, H-0029. Clip any cable ties holding the opto wires back to the ramp. Unscrew and remove the plastic ramp.**



Called “plastic ramp” on the 3 opto PCB

**(3) Unscrew original opto mounting bracket and set it aside.**



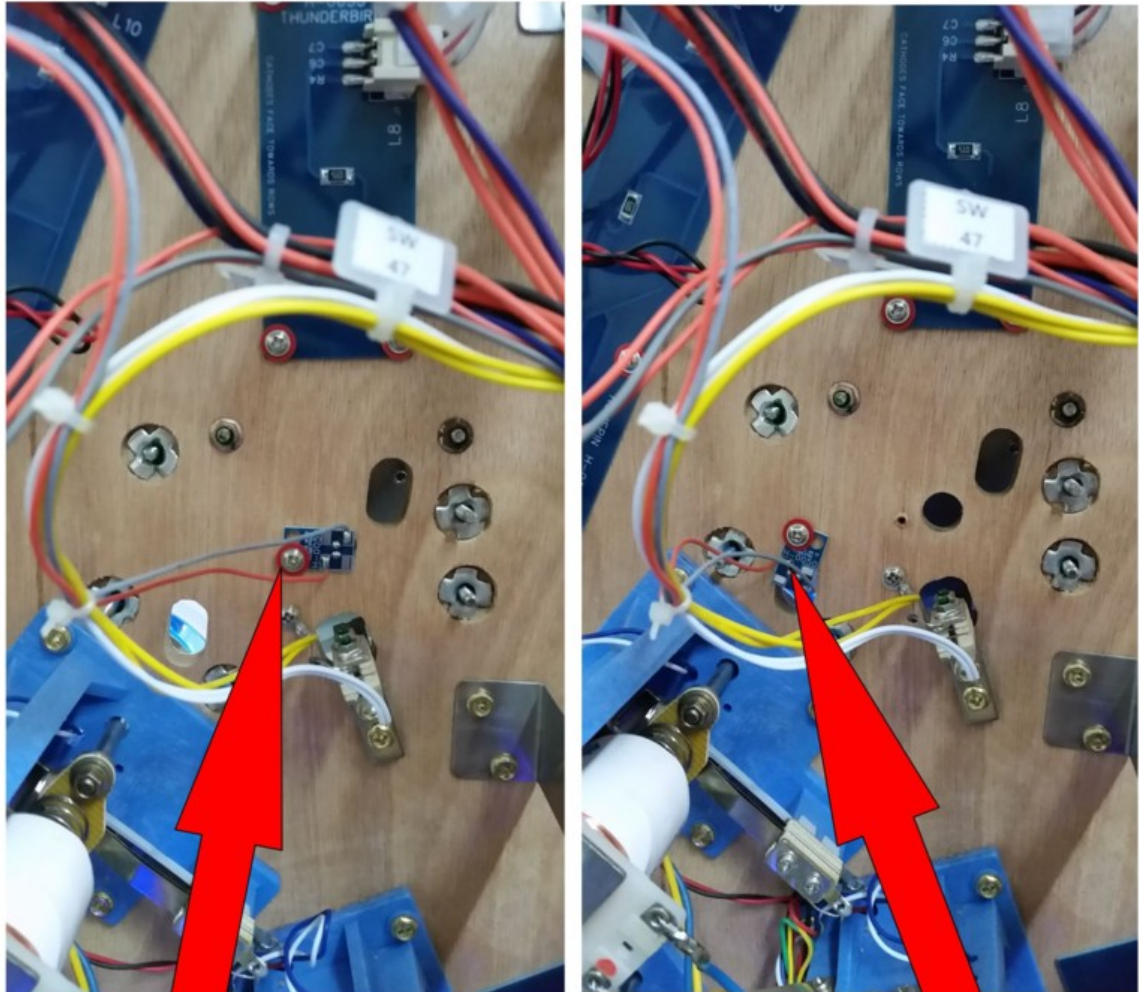
Original opto mount bracket



Bracket removed. Screws refitted



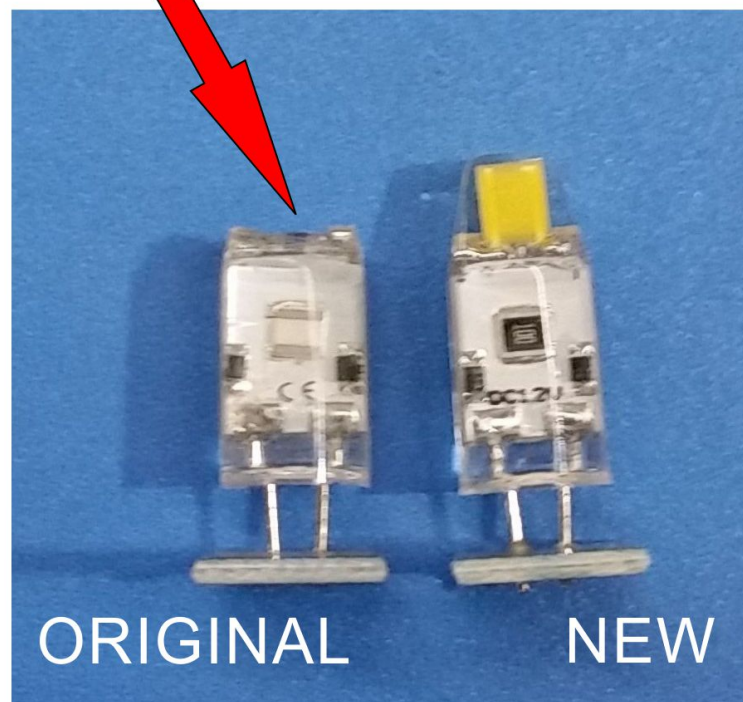
**(4) Relocate the small lamp board mounted under the ramp as shown**



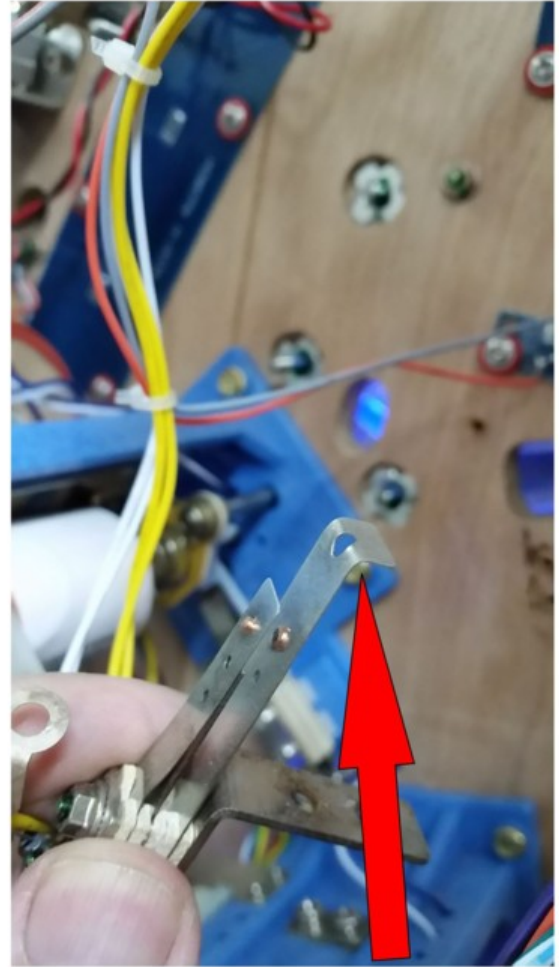
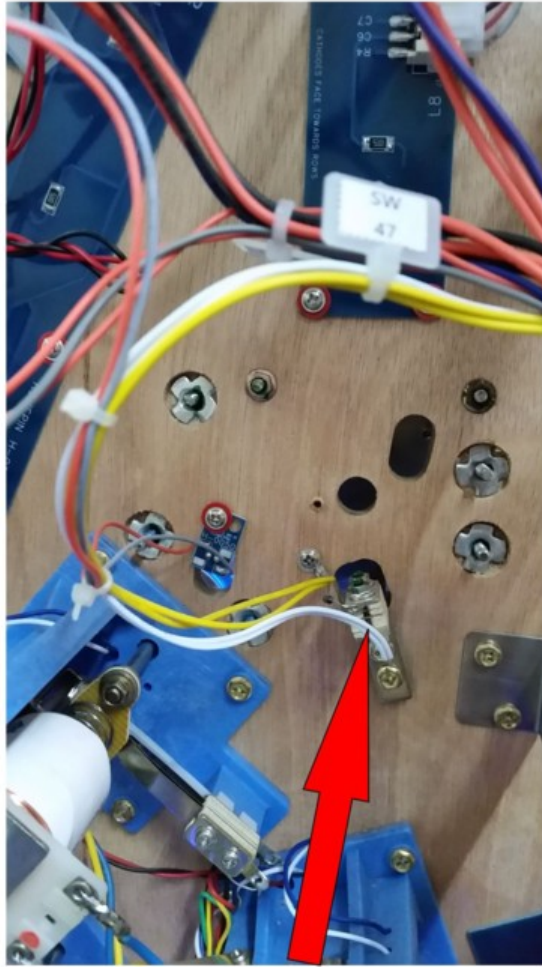
Relocate the lamp board  
under ramp entrance  
From here.....to here

**NOTE: Please check the LED before relocating it. Living under the plastic ramp, some have been broken by the ball running up the ramp. Replace the LED if yours is broken.**

Top of LED broken off



**(5) Remove switch 47 and bend the top of the large blade as shown and also bend both contact blades forward as you will be moving the actuating rubber slightly. Refit the switch ensuring a 2mm spacer is between it and the wooden playfield.**



Remove SW47 and bend top of leaf as shown so it doesn't touch the new metal ramp.

Refit the switch using a 2mm spacer.

NOTE: Both sw. leaves will need bending forward because we will relocate the rubber that it rests on.



**(6) Drill a 3mm hole as shown and screw in the new post. The exact position isn't critical but you need to move the rubber forward slightly so the ball won't get stuck under the new ramp.**

**CAUTION: Drill through the PETG surface ONLY – do NOT drill further or the new post won't screw into the wood.**

**NOTE: Ensure your new post placement won't foul the new ramp when it is in position.**



Drill a 3mm hole and screw in the new post  
with the blue plastic sleeves  
Refit the rubber and check adjustment of SW47

**(7) Reuse the aluminium cable cover from the old opto bracket and fit it to the bottom of the new ramp.**



Use the original aluminium wire cover and fit it under the new ramp optos

**(8) Snuggle the new ramp into place and fit the front mounting screw with plastic washer and then the rubber post assembly.**



Refit front left mounting screw and  
right side guard post



**(9) Fit the top screws. It might be that only one will fit your bracket depending on the hole spacings of the bracket in your machine. You can remove the bracket and drill a new hole but it really isn't required. The stiffness of the new assembly means a single mounting screw will suffice.**



Fit rear mounting screws - it may only be possible to fit one.  
If so, fit the left side one.

- (10) Ensure you thread the new opto wires through the playfield and plug them in to the 3 opto board ('plastic ramp' position).**
- (11) Enjoy your new stainless steel ramp!**



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