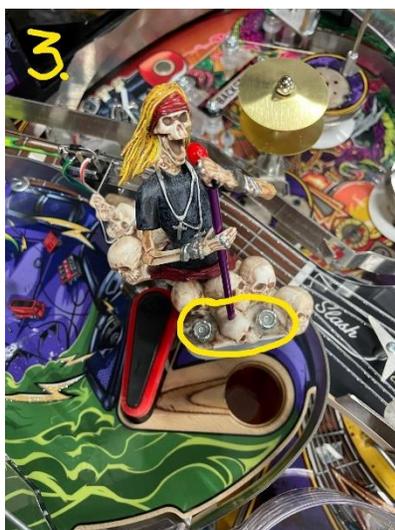


Jersey Jack Pinball™ Guns N Roses™ Cliffy's™ protectors installation

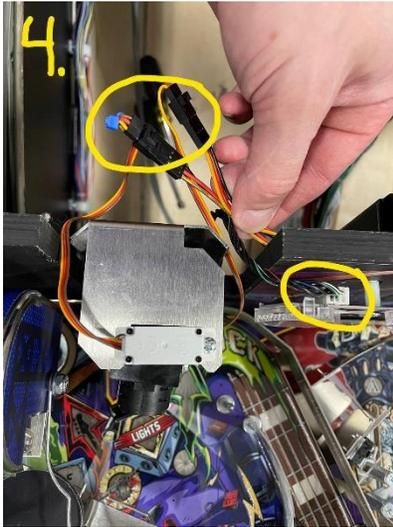


Removing the Upper Mini Playfield (LE & CE):

1. Remove the bass guitar wireform - not going to describe this here as its super straight forward
2. (optional, but easier if needing access to work on song scoop for cliffy install) Remove the left catwalk ramp - also easy so won't describe
3. Remove the two nuts on the Axl sculpture on the upper playfield and remove Axl (see photo)



4. Unplug the leftmost hex light power cable and the two power cables for the spotlight above the upper ramp (see photo)



5. Flip playfield up and locate the wires coming off the upper playfield. Trace them to their corresponding plug locations and unplug them all. Leave them plugged into the upper playfield! (see photo)



6. Locate the 4 machine screws on the upper playfield and remove (see photo)



7. Gently lift off the upper playfield ensuring the wires are feeding up smoothly and not getting snagged

8. Celebrate your victory! Now on to installing Cliffy's™ scoop protectors per Fooflighter's guide.

9. The next part requires some patience there's a yellow and green wire that runs up to a control board also ties into a black and red wire... In order to have enough slack to lift the playfield you'll need to trace this wire from the upper play field to the connection point and unplug it take your time you'll find it. This will require cutting zip ties to give yourself some slack. Make sure to take plenty of pictures. Also, I didn't remove the upper playfield entirely I simply provided enough slack to the cables that were there that, once the playfield is lowered, I was able to lift it up and put a towel underneath to protect the upper playfield from the main.

10. Remove the two screws holding the factory scoop liner in place. Save the screws, we will use them to clamp the tab on the new protector

11. Lower playfield.

12. Carefully lift up on the upper playfield and have a towel at the ready to be able to slide underneath to protect the lower surface from the upper. If you feel resistance stop and make sure that you have clearance on the wires below. You shouldn't have to move it that much we're only trying to get it out of the way so that we can get to the scoop assembly.

13. Next unscrew the two nuts holding the metal guitar shelf guide and remove

14. Unscrew the nut holding the plastic in place which also doubles as a one-way ball gate. You should be able to lift the plastic off now.

15. Using a hex driver, loosen the two posts, one has a bumper ring on it, the other has a larger ring that spans to a post.

16. Unscrew the two screws that are holding the VUK ball guide. You should now be able to remove the two brackets that hold the blue rubber bumpers aka 'blue nubs'

17. Remove the factory inner scoop liner. I did this by pushing down on the front and pulling up on the back working slowly so as to not damage the scoop hole.

18. There will be some adhesive left over on the playfield from the factory guards. I left it in place as it still had enough stickiness to work with Cliffy's protector. I figured why not? Can't hurt!

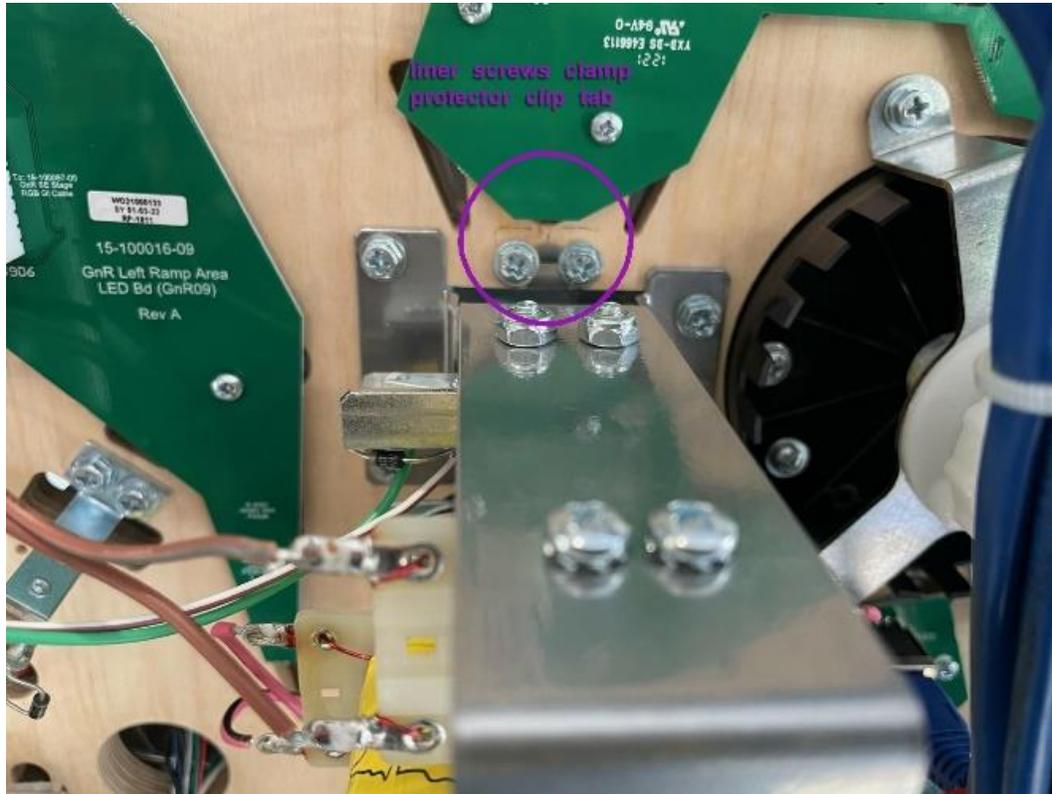
19. Insert the new Cliffy protector by putting the front end in first. The clip tab should spring to the playfield and the sides may need to be slightly squeezed but it should just pop right in.



20. Install the back wall Cliffy protector over the top of the main protector lining up the holes

21. Make sure you have clearance with the two ball lock posts before you screw everything back together. All good? Tighten the two screws holding the back of the protector assembly.

22. Flip the playfield up and use the 2 screws from the old liner to clamp the protector's tab (thanks to Ben Partington!)



23. Now just reassemble everything in reverse order starting with the VUK ball guide followed by the two rubber bumper brackets and then the posts.

24. Once you've reassembled the top playfield lift it up again and resecure all the wires that you loosened and cut zip ties for.

25. Make sure none of your wires are crossing the VUK, and also make sure you have slack on your left spotlight so that it can move freely.

That's it... It sounds a lot worse than it actually is Just be sure to take your time take lots of pictures label stuff if you're not sure don't rush This is definitely not something you're going to knock out in about 30 minutes. It took me about three hours due to stopping to write these steps down 😊

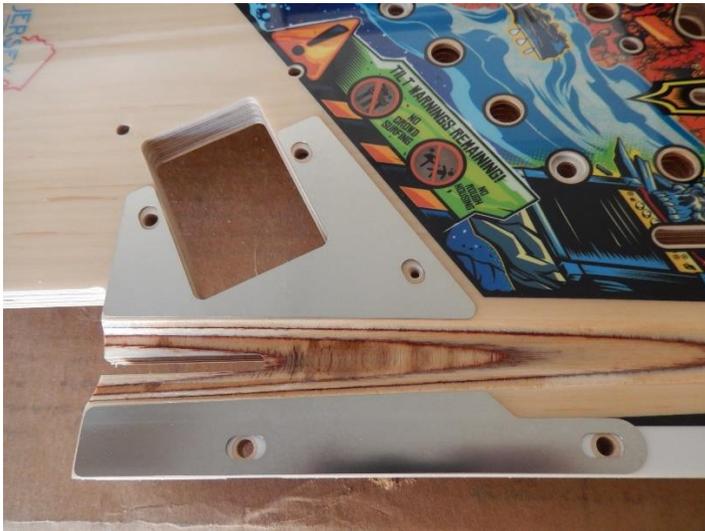
A couple of notes that I did as extras:

I put a couple drops of blue Loctite on the two scoop ball guide screws

I noticed where the wires crossed in front of the metal frame housing for the left spotlight so I put some mylar there to protect the wires from the frame. Maybe overkill but I'd rather have a little overkill protection than have to send away for a new assembly due to cut wires

Hope this helps – fooflighter 4/2021

Next- the shooter lane gets protected!



Cliffy's™ Shooter eject protectors:

Trough or 'chute' side

1. Lift playfield to 2nd position
2. Place towel on playfield left
3. Remove apron nuts (2) on bottom and 2 screws at the front
4. Lift apron and set down lightly on left side - don't scratch anything
5. Unscrew passive ball stop (2 screws) and the other screw on opposite side of the chute
6. Remove inner ball guide screw and just loosen the upper 2 screws.
7. Pull up on the guide slightly so you can insert Cliffy's shooter eject protector underneath the guide.
8. Position Cliffy protector lining up everything precisely. Align to the groove edge but not overhanging the groove (test with a ball for clearance)

9. Reinstall the screws (do not overtighten or you will warp the protector)

10. Secure the inner guide rail - make sure alignment is straight. There should be a slight washer indentation that shows the old positioning.

On to the right side....

Right side shooter eject

1. Remove 4 screws and remove autolauncher.

2. Set on playfield support bracket handle (I used a clamp to keep it in place but you could also use a zip tie - this is just to make sure the assembly doesn't drop taking wires and connectors with it should you bump it off the rail while you're working)

3. Remove 4 nuts holding the right siderail

4. CAREFULLY lift rail up in order to slip the Cliffy protector under the first 2 screws

5. Alignment of the Cliffy protector on my game was exactly even with the playfield end which positioned the protector just shy of the shooter lane groove edge and spot on when the rail was tightened

6. Reattach rail nuts on the bottom starting with the one closest to the front - make sure protector stays aligned before final tightening.

7. Reinstall the autolauncher making sure alignment and rollover switch are centered

8. Reinstall the apron

That's it- DONE and perfectly protected!



Outhole (drain)



You gotta lose eventually and every ball ends up down the drain!

1. Lift the playfield out to its rests.
2. Remove the 2 apron nuts on bottom and 2 screws at the front and set apron off to the side
3. Loosen the nuts holding the ball trough to the playfield from underneath
4. Pull down on the trough to create enough gap to allow the protector's clip tab to fit between playfield and trough
5. Snap the protector in from the top by tilting the protector bottom clip tab first and then rotating the top onto the playfield surface. Make certain the protector is aligned as in pic above
6. Retighten the trough nuts
7. Reinstall the apron. Done!

Carbon Fiber Microphone Magnet Ring



This ring protects the wood around the microphone magnet at the top of the rollover lanes.

Wipe the area around the magnet with included alcohol swab, peel backing from ring, center over magnet and press down **HARD** to insure good adhesion.

Carbon Fiber Actuating Rod Protector (optional)



On the very earliest games the actuating rod to upper playfield could fall off if the nut came loose. This would damage the playfield as seen above. Remove upper playfield as in steps above and install the carbon fiber to cover and prevent further damage

Switch Slots for the ramp drops (optional)



Mylar is great for scuffing but not impact. These are. 3 ramp drops, 3 switch slots, 3 protectors

Thanks to Ben Partington, Derek Stutsman, Les Nyznik, Jason Cummins, Craig Hughes, Nicholas Vit, Lionel Martin and especially Barry Engler for all the help in creating the protectors and install guide- you're the best of the best!