

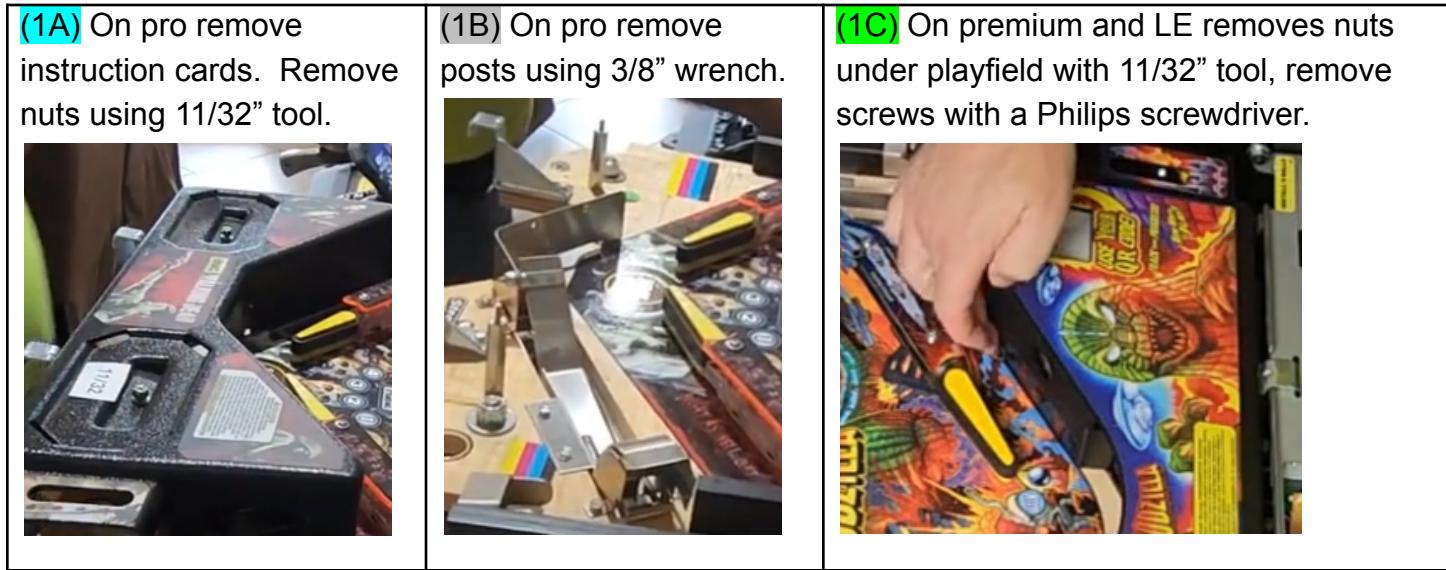


## Stern Lighted Apron installation instructions for pro, premium and LE.

If you want to transfer your apron to another game later, we do sell the graphics and magnet shooter graphics separately. The graphics are removed with eight 1/4" nuts.

The video is much more detailed on instructions. It is on youtube.com named “Stern Lighted Apron Arch Mod Installation”. QR code to right will take you to it.

1. Remove glass and lockdown bar and store in safe location.
2. Lift playfield 8 inches and rest on supports or rails
3. Remove the apron.



4. On a pro remove the instruction cards, use a 11/32" tool to remove nuts, raise apron and use a 3/8" wrench to remove posts. (1A) (1B)
5. On a LE or premium there are two bolts that go down around the middle of the 45-degree ball path. You can see them from above. Go under your playfield and use an 11/32" tool to remove the nuts under the playfield. (1C)
6. On a LE or premium unscrews the screws securing apron to the playfield hanger brackets.
7. These parts will not be reused for Lighted Apron installation, save them with your original apron.
8. After this the Lighted Apron installation is the same on a pro, premium or LE
9. If you have an LE (before QR code reader) you may have a light on the right side under your original apron, you will need to remove them. You can keep it wired and store it under the playfield; some games have a bulb near the shooter lane; this will need to be removed. Any other lights that will interfere with the placement of the white light panel also need to be removed. You will have a 1/4" clearance under the white light panel, some zip ties may need to be clipped or turned so they are only 1/4" high.
10. Make sure your playfield is elevated out of your game on posts or rails or your playfield will fall when you remove brackets. With 1/4" tool remove 4 bolts that hold the playfield brackets on the playfield. (2A) (2B)

(2A) The playfield must be raised up.



(2B) These are the 4 bolts that need to be removed but leave brackets in place. The white light panel goes over those brackets.



11. Verify that nothing else on the playfield will interfere with the white light panel installation.

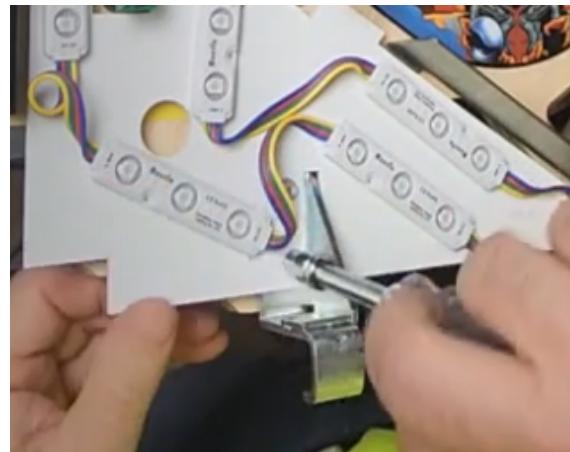
**12. The white light panel will install ON TOP of your playfield hanging brackets.**

13. Install 4 bolts holding the white light panel and the playfield brackets. The white light panel will be over the playfield hanger brackets. (3A) (3B)

(3A) Use original bolts to secure white light panel above brackets.



(3B) Secure white light panel and playfield hanger brackets with original bolts.



14. The power cord for the lights will hang down the front middle to under your playfield.

15. You will get a separate sheet on how to install your power tap specifically for your game. Make sure your game is off and install the power tap.

16. Depending on the location on your power tap you will have an extension cable. Run the extension cable from your power tap to the LED controller. (4A)

17. Coming out of your LED controller there is a 4-pin connection, this will plug into the 4-pin connection on the wire from the white light panel. Both connectors have a small arrow, match up the arrows when you plug them together, and wrap the connection with tape so it does not separate. (4B)

(4A) Plug power tap into the LED controller.

(4B) Connect both 4 pin connectors with arrows matching.



18. Turn the game on and use remote to test connections, **it will be BRIGHT**. The remote will control the color and brightness. The lighted apron will turn on and off with your game.
19. Place apron about  $\frac{1}{2}$ " towards the back box compared to the final position. Make sure the apron is setting on the playfield. Slide the playfield toward the front of the game. The two tongues on the apron should go under the white light panel. You may get caught up near the ball shooter, or the two tabs in the back of the apron. If that happens, just remove the apron and push those wires down.

**(5A)**

**(5A)** Wires are a potential hang-up spot on back of apron to these.



**(5B)** Hold nuts in with finger and tighten screws.



**(5C)** Use supplied screws through these holes with lock nut on the inside.



20. When apron is in position, use supplied bolts and put through the holes in the playfield hanging brackets. Hold the lock nut under the apron with a finger. Tighten screw with a screwdriver until lock nut starts to spin. Now use an  $11/32^{\text{nd}}$  inch wrench to secure the nut and tighten the screw. **These need to be tightened completely** or if they come forward, they will get under your lockdown receiver bar, and you will have difficulties removing the playfield later. **(5B) (5C)**

21. If you have a QR code reader and you purchased the optional QR code reader coin door mount. Un-plug the existing ethernet cable from the node board under the front left of your playfield. Connect the supplied 5-meter ethernet cable to that port. **(6A) (6B)**
22. Secure the ethernet under your playfield, then run it to the back of your game leave some slack and run that ethernet cable to your coin door. You will want slack at the back end of your game, so you have slack to raise and lower your playfield.

(6A) Unplug ethernet cable from node board and plug 5-meter ethernet cable to same plug.



(6B) Optional QR coder reader coin door mounts.



(6C) Location of QR coder reader door mount.



23. Remove QR code reader form your original apron with 2 nuts. You will use these nuts again. (6B)
24. Using the optional QR coin door mount that came with your game, secure the QR coder reader to the mount.
25. Remove solid panel from your coin door and replace it with QR code reader mount. (6C)
26. Lower playfield. Install glass and lockdown bar and you will be finished.