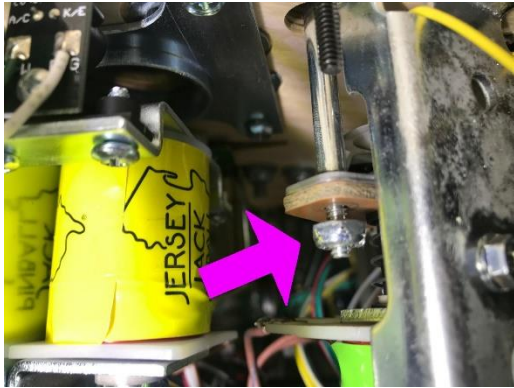


## Installing Cliffys™ Tortuga protector

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Get some basic tools together like magnetic (hopefully) screwdrivers, allen wrenches and nutdrivers. Remove the playfield glass and flip the playfield up.

Underneath, you need to back-off the pop bumper yoke nuts but don't take them all the way off. Disconnect the Spinning Motor harness to get some slack in the wires.



Lower the playfield.

Now, the first time I took the pop bumper cap off. **DON'T DO IT!** The one screw under the arm is a pain to put back in. You just need an allen wrench to go through hole that takes the cap and plate off. Take both outer screws off the motor mount. Next, I removed the screws inside holding the white pop bumper body - just leave the screws inside the body

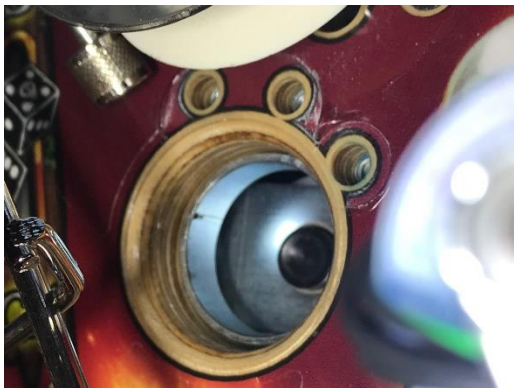


NOTE- you have to be careful with the 2 plastic motor spacers so they don't fall into the back of the playfield. It happened to me the first time and took a while to find the damned things.

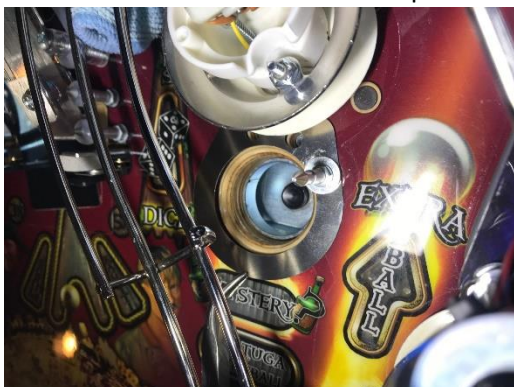
You should now be able to angle the pop assembly to access the kickout deflector screws. Since the deflector is slightly adjustable you may want to mark where the screws are with a Sharpie before removing. Mine was positioned so that a kicked out ball always hit the left flipper



Now use a ¼" deep socket to remove the mini-post. Use the alcohol swab provided in Cliffy's™ kit to wipe around the kickout where the 3M tape will be sticking down. The alcohol is not just a cleaner but also activates the adhesive, along with pressure, so wipe down just when you're ready to install the protector



Ready? Peel the protective clear film on top of the protector and then peel the backing from the adhesive side. Align over the kickout and screw holes and then press hard into place all around the front. I like to use a soft cloth to rub the protector down and clean my fingerprints off at the same time.

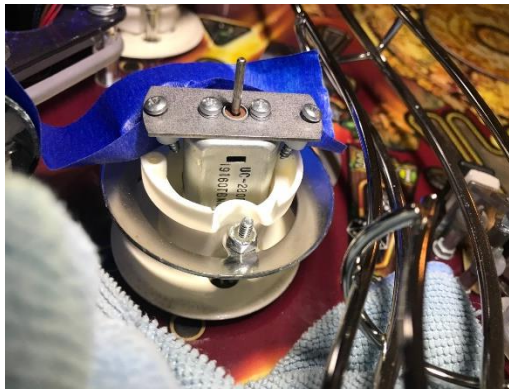


Start reassembly by putting the mini-post back in

Now you can replace the mini-post rubber ring and the kickout deflector

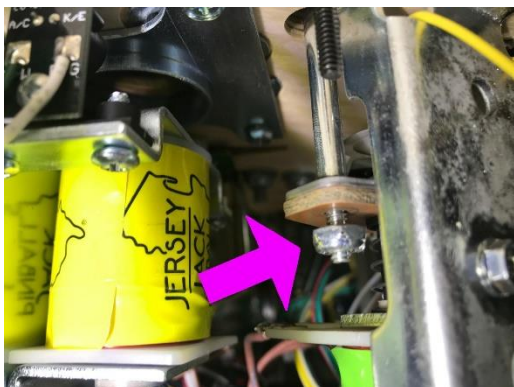


Here comes the fun part 😊 Center the pop assembly back in place and reinstall the two screws in the bottom. Easy. Now I used blue painters tape to hold those stupidly designed white plastic motor spacers to keep them from falling off. Once you get the screws started in the hole you can pull the tape off



Once the motor is tightened you can put the pirate back on top and use the allen wrench to secure him.

Flip the playfield back up and use your nutdriver to retighten the pop bumper yoke nuts and plug the motor connectors back together.



Lower the playfield again and guess what?

You're done with the Tortuga protector installation! Huzzah!

