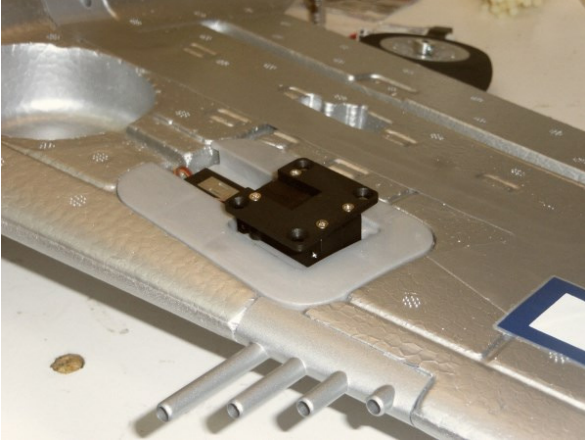


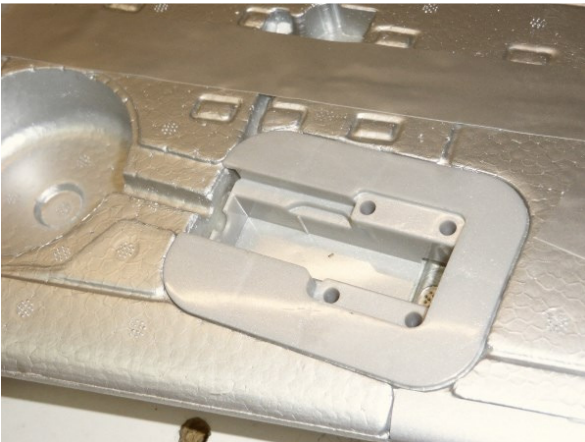
Installing HK Servoless Retracts HKD-312 in Parkzone P-47

The HK retracts will fit the PZ P-47 with some work with a Dremel Tool or other rotary cutter to modify the wing. I have detailed the steps I went through in fitting these retracts to the model.

First thing you notice is the stock retract well is not deep enough for the HK retract and the mount needs to be notched to allow for the front mounting screws.



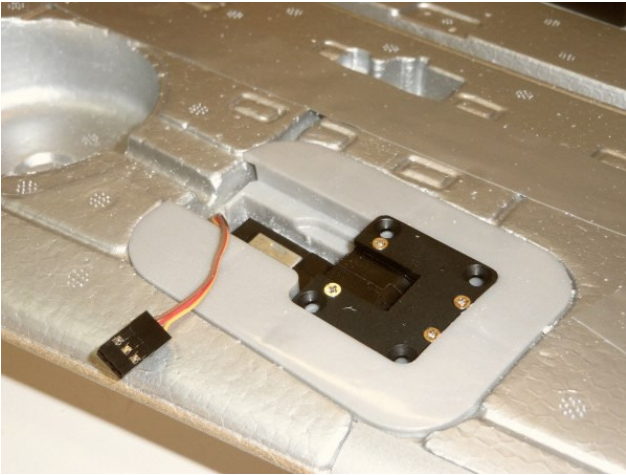
This picture below shows the stock set up, which needs to be cut out.



When properly cut out it should look like this. I used the flat tipped router bits to cut out the well. The depth you need for the retract is 23mm the grooves to clear the screws is 12mm. Don't cut any deeper than you have to because the foam is going to be thin over the top of the retract well, be careful not to cut through the wing.



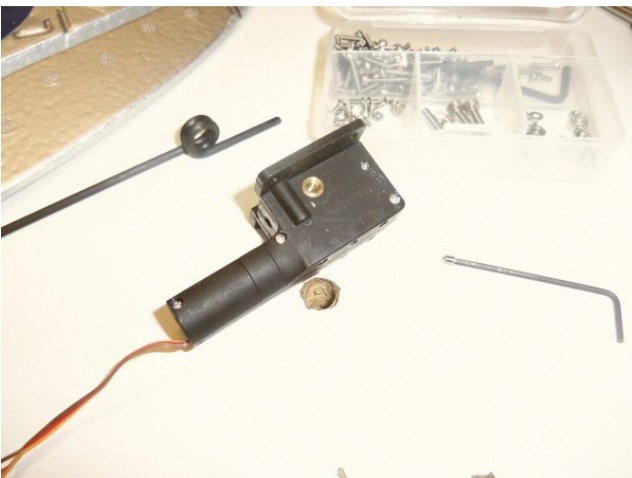
Check the fit and trim more where needed.



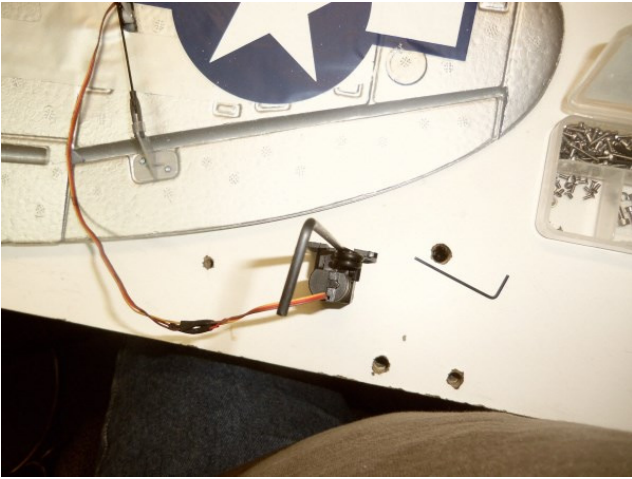
You are going to have to lengthen the retract wires or use a servo extension. I lengthened the wires using a lead from a couple of old damaged servos. I cut off the plug and soldered the longer wires on and insulated using small 3mm heat shrink.



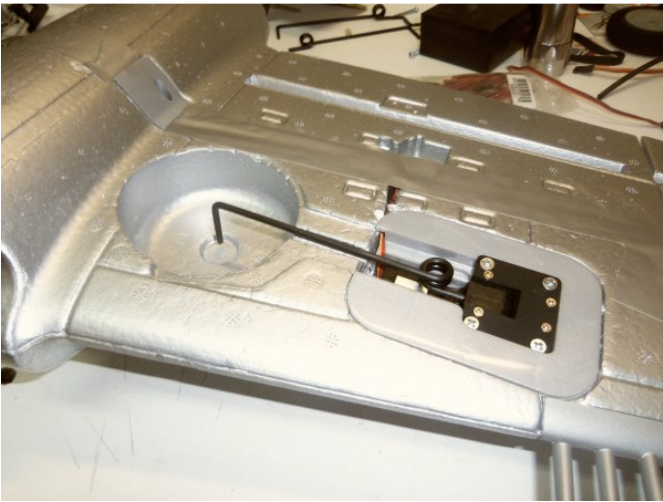
The landing gear wires I used are the Eflite wires for the P-47. I tried modifying the fixed wires but they were too short when you cut them off at the bend. Also note there is a right and a left to wire struts and the coil fits on top and the wheels are not toed in. You will need a couple of set screws for each gear since none come with the retracts.



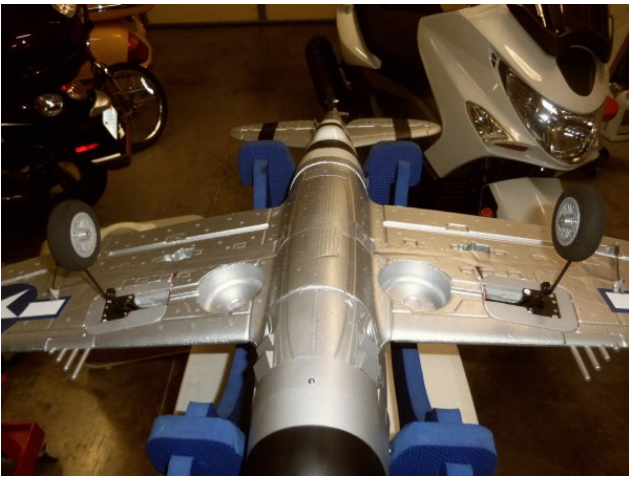
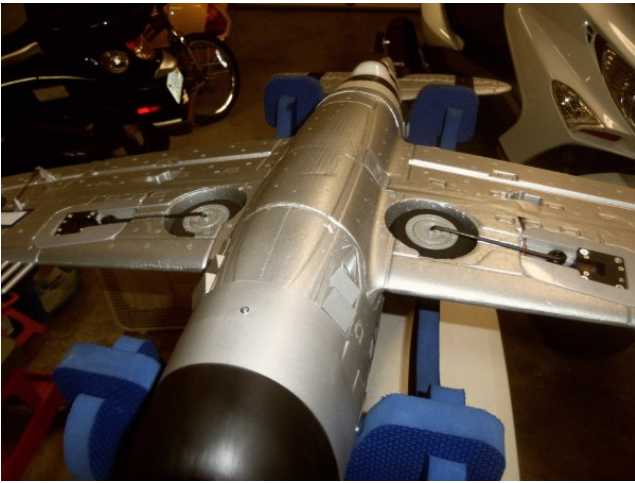
LG wire struts will be in at a bit of an angle to allow for proper alignment when gear is deployed.



You are now ready to bolt in the retracts and test. Note the center of the axle must be centered in the wheel well. Check this before installing the screws and wheels, because you have to pull out the retracts in order to adjust the set screws holding the wire struts. Note how the spring coil fits right in the notch in the retract mount.



Add the wheels, mount the wing and you are ready to fly. I have dozens of flights on have had no issues with the retracts and I am flying off a grass runway.



Takes a few hours of work, but it beats spending 4 times that amount for the Eflite retracts.