

Augusta 109 helicopter mod (Sound and Points mini board)

Only for Premium/LE/30th Anniversary. Not for a Pro.

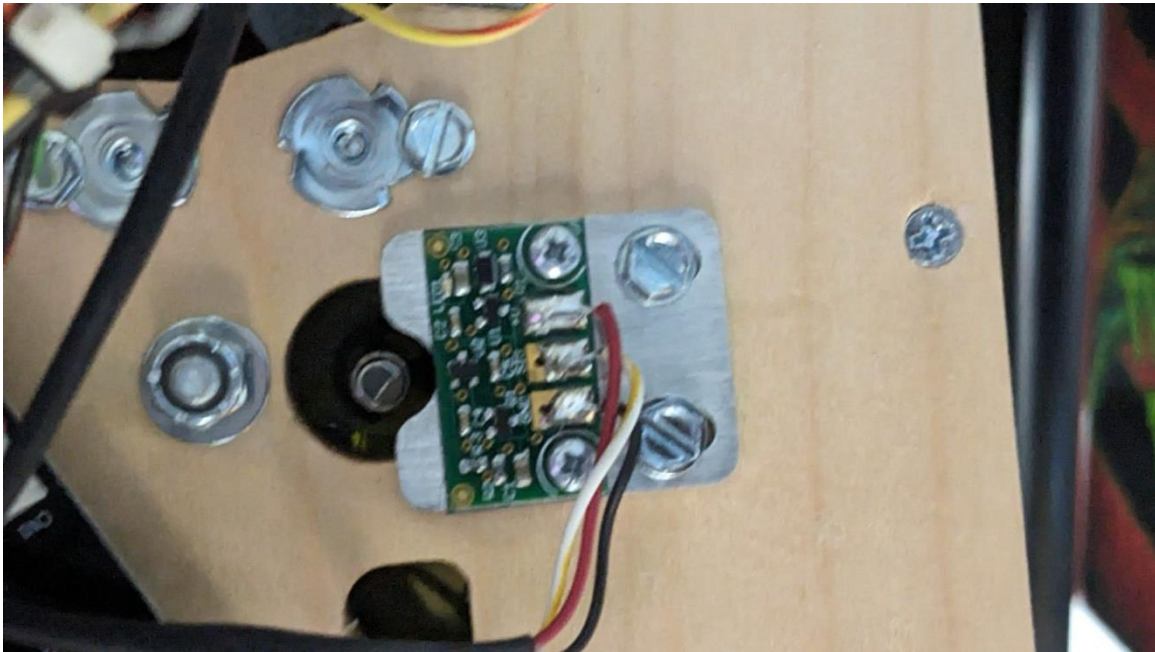
Installation Guide of this Sound and Points mini board

Version 1.1f (24th August 2024, 07:03)



To install the replacement card. All you have to do is replace the small electronic card which is located directly above the original propeller.

See the photo below:

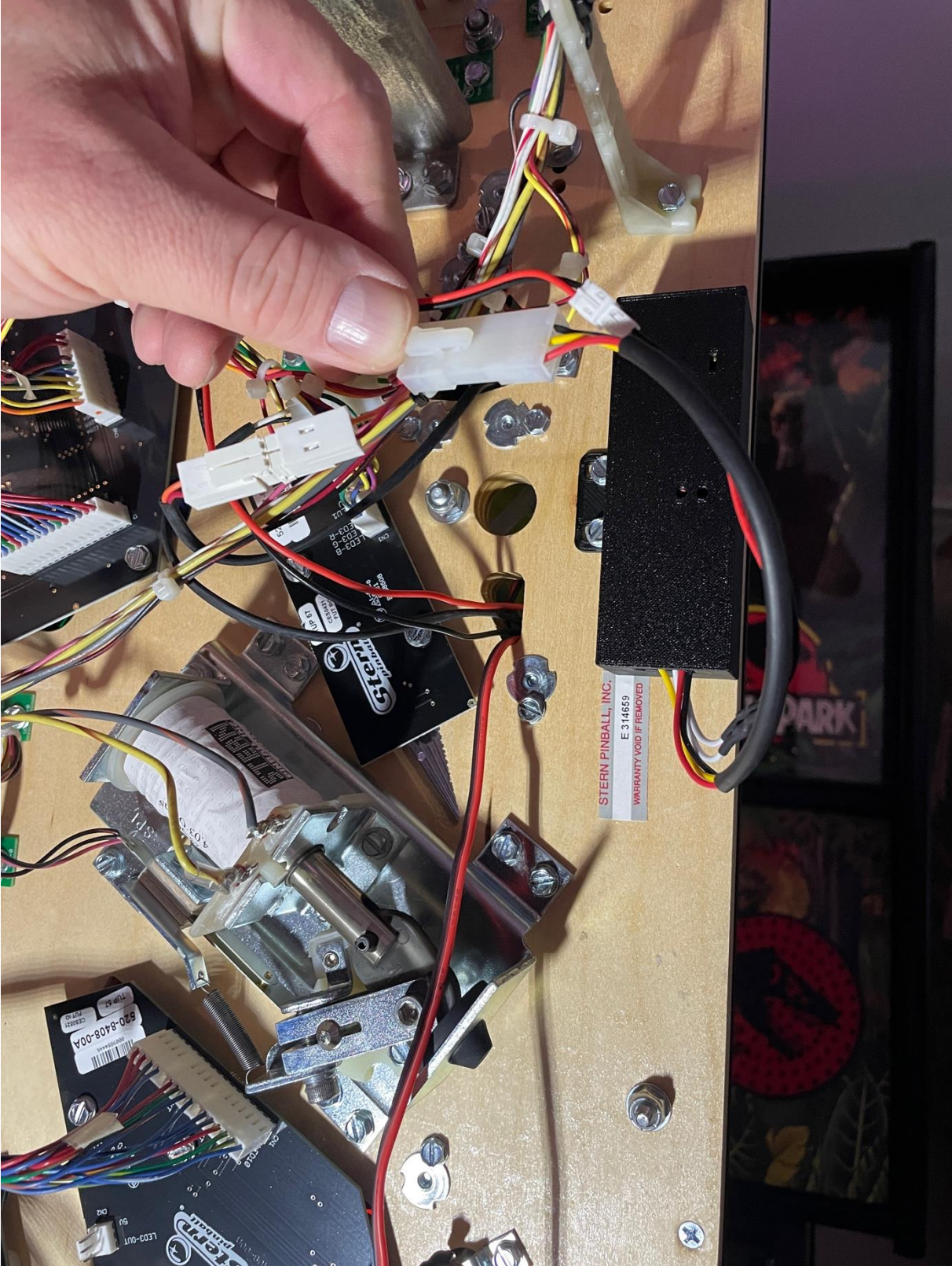


**Unscrew the two small nuts that hold the small card to your tray.
Then disconnect the cable coming from this small card from the connector having 3 wires (red, black and yellow/white).**

Replace this small card using our new card. And take the two screws to fix our card in the same place. Reconnect our card to the same connector.



In this photo you see the 3-wire cable that must be reconnected.



Lower your playfield and look at the switch which triggers the red flasher on the right ramp.

It is located here see photo below :



Unscrew the two small black nuts that hold the microswitch. Once the microswitch has been unmounted, already change the iron tab which acts as contact with the ball. To do that use a very small screwdriver to unmount this small piece of iron. This change will

allow you to have perfect alignment with the other microswitch that you must mount on the original switch. New small, longer screws are provided and will allow the two microswitches to be fixed and aligned one above the other with the same alignment of the two contact tabs.

Secure the two microswitches together with our new screws provided.

See what you should get as a result by looking at the following

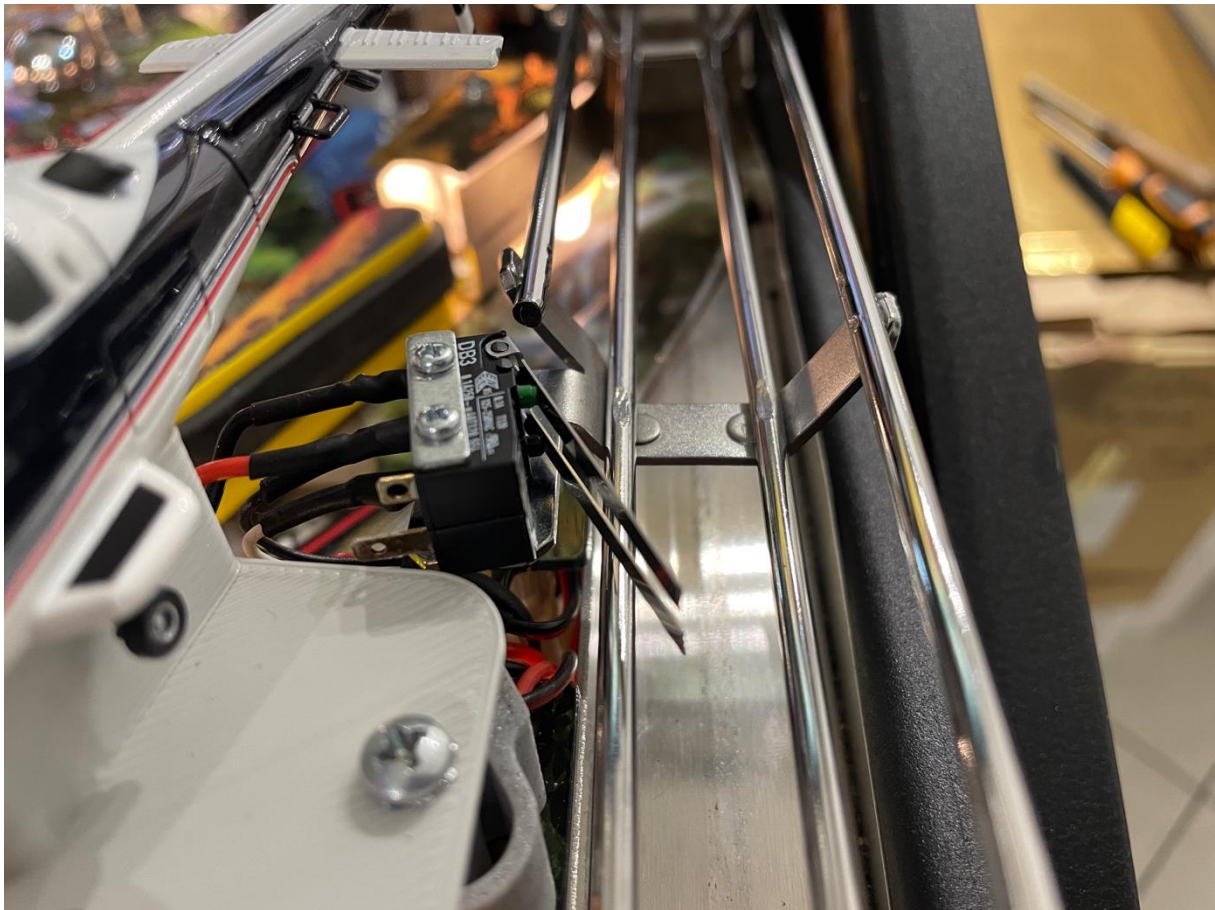


photo :

Another image of the result :

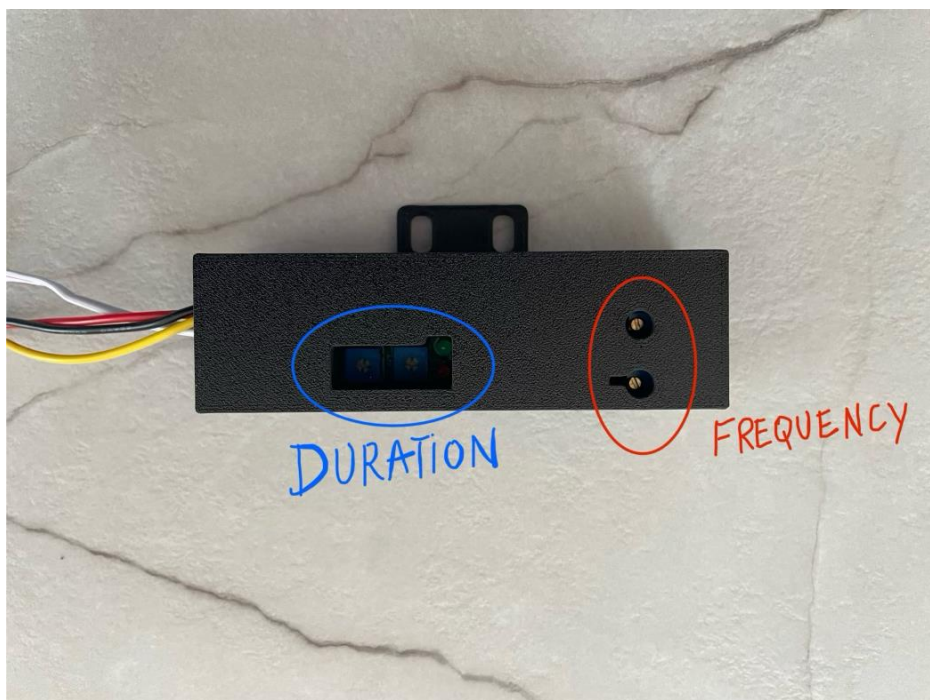


All you have to do is pass the cable coming from our microswitch through the playfield, passing through the same small hole as the microswitch cable which is fitted as standard on your pinball machine. Once the cable has been passed, lift your playfield again and make the connection to the other small blue connector remaining available on the small replacement card that you have attached.

When your ball passes on the ramp it will contact the two microswitches at the same time. Our microswitch will trigger a standard 7 second delay and send the signal to the pinball motherboard to simulate 12 propeller turns.

Which will generate the sound and associated points.

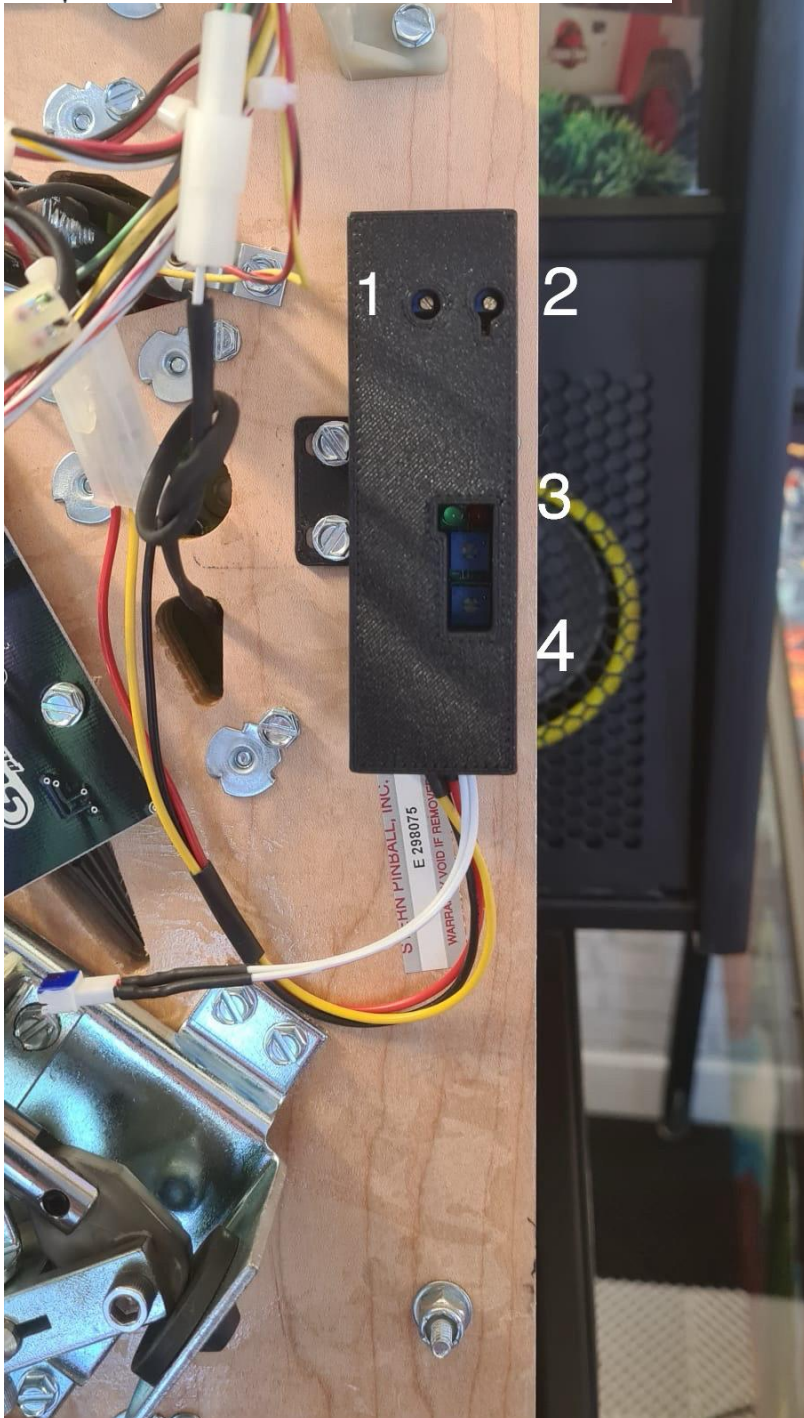
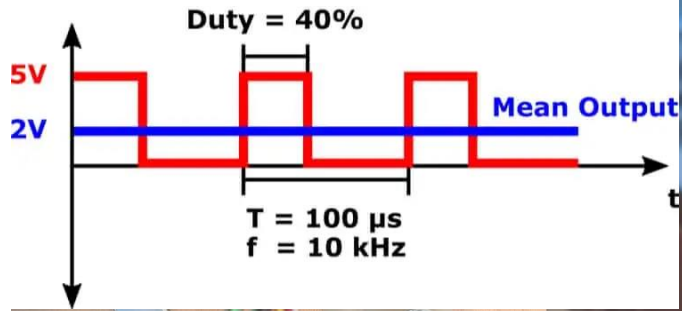
You can adjust the time delay and the number of revolutions using the small potentiometers on our card. See the photo below:



For a better understanding about the settings:

- 1.Clockwise, frequency increase**
- 2.Clockwise, duty cycle decreases**
- 3.N/A**
- 4.Clockwise, duration (turn on time) increases**

PWM SIGNAL



And now your option is installed! Enjoy it !