

# *Learning Procedure for Rhino PTX Remote Control*



## **A. Introduction**

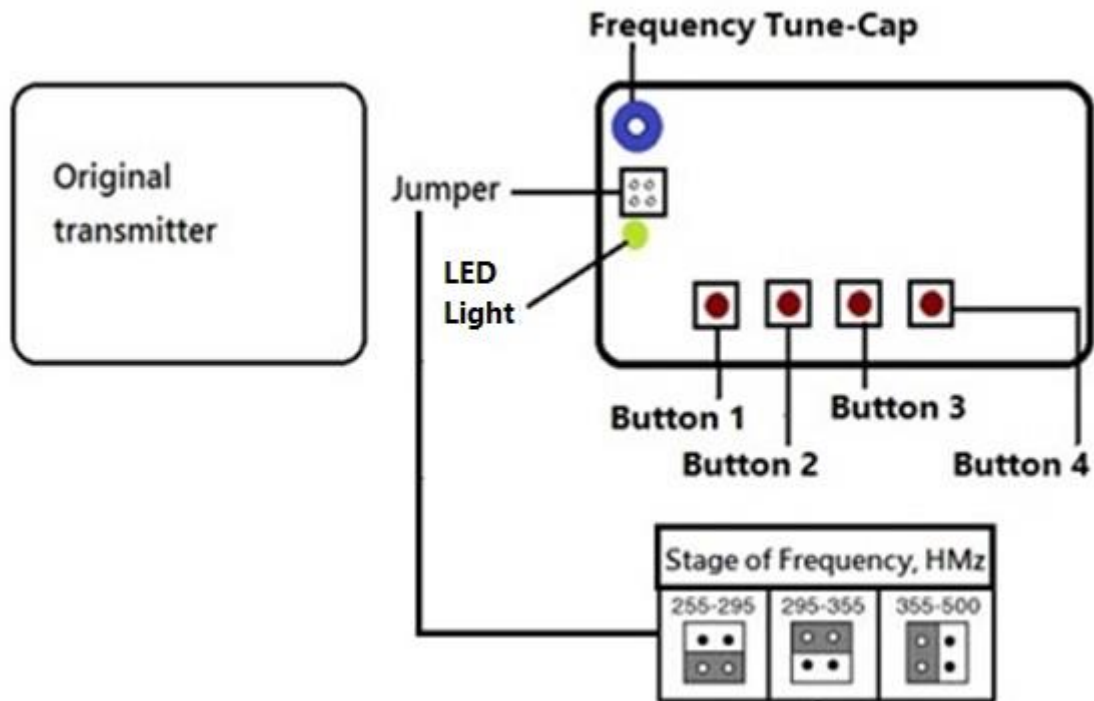
The Rhino new PTX PC technology remote control can duplicate most of the fixed code remote controls. This means that each time the remote control is pressed, the same code is transmitted each time. It is not possible to copy any remote that utilises code hopping or anti-code grabbing technology. This is because these types of remotes send a different code each time the remote is pressed.

## **B. Description & Functional**

- There are 4 buttons on the PTX, and each button corresponds to a channel.
- Buttons from Top Down (counting down from the Light of the PTX).
- **Please note:** Button 1 will be used to "enter program" mode when duplicating code.

## **C. Adjust the frequency and duplicate channel 2 (button 2) first (easily in progress)**

1. Remove the jumper lid from the jumper slot on the PTX.
2. Place the PTX and the original remote facing each other on a flat, non-metallic surface.
3. Press buttons 1 and 2 on the PTX together at the same time, the light on the PTX should flash 4 times.
4. Release button 1 while continuing to hold button 2 on the PTX.
5. Press and hold button 2 on the original remote and observe if the light on the PTX flashes.  
\* If the PTX light does not flash, adjust the frequency on the PTX by tuning the tune-cap until the PTX light flashes 3 times, indicating that the PTX has matched the frequency of the original remote.
6. Continue holding down button 2 on both the PTX and the original remote. Slowly slide the original remote away from the PTX to increase the distance between them while adjusting the frequency until the PTX light reaches maximum brightness when the remotes are 30mm apart.
7. Channel 2 of the PTX (button 2) has now successfully duplicated the code from the original remote.
8. Identify the frequency tuning capacitor (FTC). Refer to figure shown below.
9. Replace jumper lid and test. If the remote still does not work, try another frequency range by changing the configuration of jumper slots.
10. Once successful, operating range can be maximised by moving to the furthest distance where the PTX functions. Take two steps backwards and minutely adjust the FTC until the alarm arms again. Repeat this procedure until maximum range is achieved.



**Please note:**

If you have a frequency counter, you can adjust the frequency of the PTX to the correct frequency directly using the frequency counter, place the jumper lid to match the frequency of the jumper slot as shown on the figure above.

**D. Duplicate the code to channel 1, 3 and 4 (button 1, 3 and 4)**

**Channel 1 (button 1)**

1. Place the PTX and the original remote facing each other up to 20mm on the flat surface.
2. Press buttons 1 and 2 on the PTX at the same time until the PTX light flashes 4 times.
3. Release button 2 on the PTX while continuing to hold button 1 on the PTX.
4. Press and keep holding button 1 on the original remote until the light of PTX flashes 3 times.
5. Now the code for channel 1 (button 1) is duplicated.

**Channel 3 (button 3)**

1. Repeat step 1 above.
2. Press buttons 1 and 3 on the PTX at the same time until the PTX light flashes 4 times.
3. Release button 1 on the PTX while continuing to hold button 3 on the PTX.
4. Press and keep holding button 3 on the original remote until the light of PTX flashes 3 times.
5. Now the code for channel 3 (button 3) is duplicated.

**Channel 4 (button 4)**

1. Repeat step 1 above.
2. Press buttons 1 and 4 on the PTX at the same time until the PTX light flashes 4 times.
3. Release button 1 on the PTX while continuing to hold button 4 on the PTX.
4. Press and keep holding button 4 on the original remote until the light of PTX flashes 3 times.
5. Now the code for channel 4 (button 4) is duplicated.