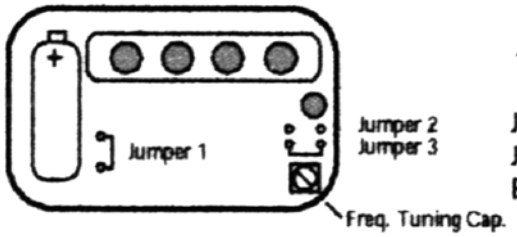
# Learning Procedure for Rhino PTX Remote Control

The Rhino PTX Remote Control can duplicate a majority of 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.
The remote has four buttons so that it will universally suit most alarms i.e. some remotes have just one button for arming/disarming, where others may have separate buttons for multiple functions. The same code can be copied onto multiple buttons if desired. If your original remote has a function controlled by pressing multiple buttons together, you must duplicate that code to a single button on your Rhino PTX.

**PROCEDURE TO DUPLICATE YOUR REMOTE:**

**1.** Place the PTX and original transmitter right next to one another, on a flat non-metallic surface.
**2.** Press & hold down the button on the original remote that you wish to program onto button 1 on the PTX, and then press & hold down button 1 on the PTX Remote. The green PTX LED should glow. Hold both buttons down until you see the green LED pulse three times. This should only take a few seconds. If you do not see the three pulses, you have not successfully duplicated the code from the original remote.
**3.** Repeat step 2 for buttons 2,3 & 4 on the PTX if required.
**4.** Open the case of the PTX.
**5.** Remove Jumper 1 near the battery. The remote will now transmit.




Jumper 1 - On =Learn
Off = Transmit

Jumper 2 On, Jumper 3 Off - Freq. Range 255 - 295mHz
Jumper 3 On, Jumper 2 Off - Freq. Range 295 - 355mHz
Both Jumpers Off - Freq. Range 355 - 500mHz

**6.** Replace the case and screw closed. Do not over tighten. The procedure is now complete.
Note: If you successfully follow the above procedure, but the remote does not work with your alarm, there are only two factors to consider: Firstly, your existing remote might not be fixed code. Secondly, you must transmit on the correct frequency. The frequency is factory preset to 304mHz Which is the standard for alarms in Australia. The frequency can be changed to anywhere between 255 & 500mHz if required. Refer to instructions below.

**TO ADJUST FREQUENCY, CAREFULLY FOLLOW THESE STEPS:**

**1.** Re-open the case of the PTX. Replace Jumper 1 (Learn Mode).
**2.** Identify the frequency tuning capacitor (FTC). Refer to Diagram.
**3.** Place the remotes together press and hold down a matching button on each remote using fingers from one hand. Now part your fingers so as to increase the distance between the remotes to the point where the green LED becomes weakest. Using the tuning tool provided, turn the FTC very slowly clockwise and anti-clockwise until the LED glows brightest.
**4.** Replace Jumper 1 and test. If remote still does not work, try another Freq. Range by changing configuration of Jumpers 2&3.
**5.** 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.
**6.** Replace the case and screw closed. Do not over tighten. The procedure is now complete.