RXPROR4

Proudly Designed in Australia
Made in Taiwan
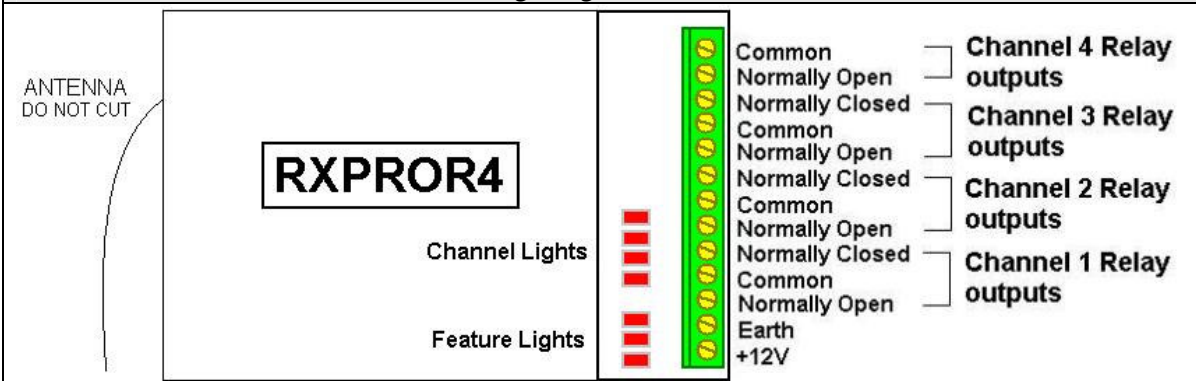
Multi-Function Receiver / Transmitter Set

N517

OVERVIEW

The RXPROR4 is an advanced multi-purpose 4-channel narrow-band UHF receiver/transmitter set with fully programmable relay outputs (1 amp relays). It is supplied as standard with 2 x Code Hopping, 4 Button Remote Controls.

▪	All outputs are individually programmable to suit almost any application (momentary, latched, timed or pulsed).
▪	High Security Code Hopping Remotes (anti-scan, anti-code grabbing)
▪	Compatible with Rhino Wireless Alarm Detectors
▪	Up to 200 meters radio frequency range (line of sight)
▪	Up to 5 Code Hopping remote controls can be used
▪	Up to 4 Wireless Detectors can be used
▪	Step by Step Programming via remote control
▪	Power Supply Requirement: 12VDC @ 500mA

RXPROR4 - 4 Channel Receiver – Wiring Diagram

| ANTENNA DO NOT CUT | RXPROR4 Channel Lights Feature Lights | Common — Channel 4 Relay outputs Normally Open Normally Closed Common — Channel 3 Relay outputs Normally Open Normally Closed Common — Channel 2 Relay outputs Normally Open Normally Closed Common — Channel 1 Relay outputs Normally Open Earth +12V |

Remote Control – 4 Channel Code Hopping Transmitter (Individual Part No RCTX4-U)

Remote Button	Output Activated
1	Channel 1
2	Channel 2
3	Channel 3
4	Channel 4

NOTE: By default all channels are 1-second pulsed outputs (i.e. pressing the button will turn the output on for 1 second and then turn off). See <u>PROGRAMMING</u> for modifying to suit your application.

Antenna Mounting: For maximum operational range the antenna must be made vertical and straight.

---

Optional Programming

The following features are programmable for each individual channel. A description of each feature is included. For programming each feature see the relevant page number in the PROGRAMMING section of this manual.

Feature	Description	Page
Adding New Remotes	Allows additional Code Hopping Remote Controls to be learnt into the system i.e. Use this for learning in additional remote controls.	4
Latched or Pulsed Output **(Note: The Default Factory Setting For Each Channel is a 1 Second Pulsed Output)**	Latched – activating the channel activates the output, activating the channel again deactivates the output. e.g. If a light was connected to the output, pressing the button once would turn the light on, pressing the button again would turn the light off.	5
	Pulsed Output – Activating the channel will activate the output for only 1 second. e.g. If a light was connected to the output, pressing the button would turn the light on for 1 second, the light will then turn off.	
Normally Open or Normally Closed Outputs	Normally Open – output switches to closed when the channel is activated.	5
	Normally Closed – output switches to open when the channel is activated. i.e. Use on channel 4 when a normally closed circuit is required. Channels 1, 2, and 3 have connections for both normally open and normally closed outputs.	
Timed Output	Output will activate only for a programmed time when the channel is activated. e.g. If a light was connected to the output, pressing the button would turn the light on for the programmed time, the light will then turn off.	6
Momentary Output Enable	Output is activated while button on remote control is held down and deactivates when button is released. e.g. If a light was connected to the output, while pressing the button the light would be on, releasing the button will turn the light off.	7
Adding Wireless Detectors	Allows Wireless Detectors to be learnt into the system to trigger one of the output channels. i.e. Use this for learning in wireless detectors	8
Reed Mode Enable	Output is activated on open and deactivated on close of wireless reed switch. i.e. Use when using wireless reed switches.	9
Low Battery output from Wireless Detector	Output is activated when a wireless detector learnt into any channel transmits a low battery signal. i.e. When the battery in the wireless detector goes low, the output will activate.	9

Programming

During normal operation the display lights on the unit are scrolling from right to left. When the display lights are not scrolling, this indicates the unit is in programming mode.
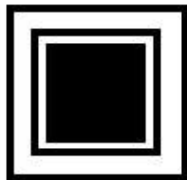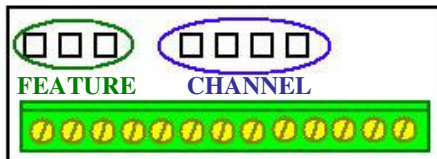
MANUAL SYMBOLOGY
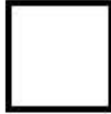
	Light is **OFF**
	Light is **ON** and not flashing
	Light is **FLASHING**
◁◁◀ ◁◁◁◀	Lights are **SCROLLING**
FEATURE CHANNEL	When looking at the receiver with the terminal strip at the bottom: The group of 3 LED Lights on the left are the **FEATURE** lights. The group of 4 LED Lights on the right are the **CHANNEL** Lights .

ENTERING PROGRAMMING MODE

1.		Disconnect 12VDC power from the unit.
2.		Press and hold button 2 on the remote control.
3.		Reconnect 12VDC Power to the unit.
4.	□□■ □□□■	Release button 2 once the display lights stop scrolling. You are now in programming mode.
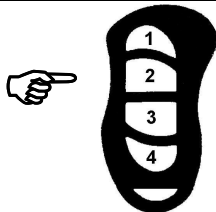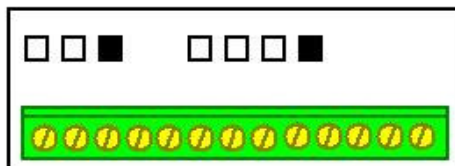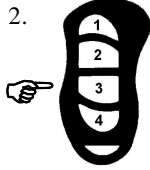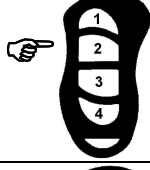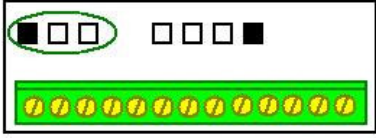
ADDING NEW REMOTES (Your RXPROR4 can utilize a maximum of 5 remotes)

Enter Programming Mode
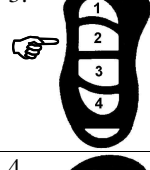
1. See ENTERING PROGRAMMNG MODE (page 3).

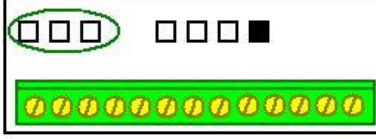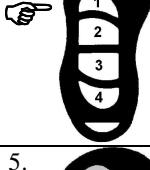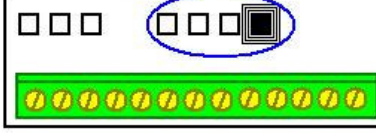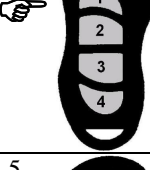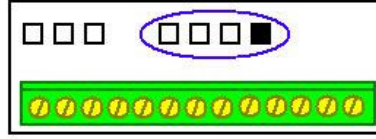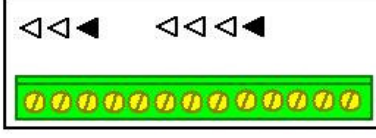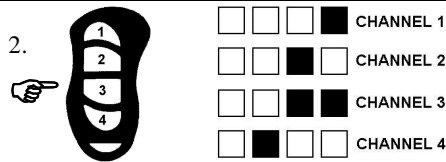|		
2.	CHANNEL 1 CHANNEL 2 CHANNEL 3 CHANNEL 4	Press button 3 repeatedly until the channels lights indicate one of the output channels you wish to program. Select a channel that you wish to operate with a remote control i.e. not a channel that you wish to operate with a wireless detector.
		Press button 2 until the feature lights are on as shown.
4.		Press button 1 to set the feature light(s) to flashing. NOTE: By default the feature light(s) will be flashing, if not press button 1 to set to flashing.
3.		Press button 2 repeatedly until the feature lights are off as shown.
4.		Press and hold button 1 until the channel lights(s) begin to flash.
5.		Immediately press button 1 repeatedly on the new remote control you wish to learn in until the channel light(s) stop flashing.
5.		Press and hold button 2 on the new remote control until the lights start scrolling. The new remote control has now been learnt in.

Erasing Lost Remote Controls: If you lose a remote control or perhaps have your car keys stolen, you can simply erase the lost/stolen remotes by repeating the procedure above 6 times. This will fill the system memory with remotes that only you have in your possession.
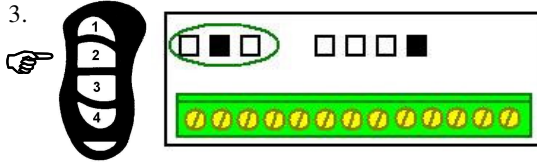
LATCHED OR PULSED OUTPUT
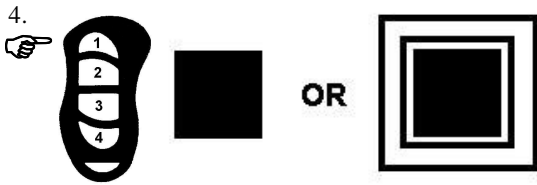
Enter Programming Mode

1. See ENTERING PROGRAMMNG MODE (page 3).

2.	☐☐☐■ CHANNEL 1 ☐☐■☐ CHANNEL 2 ☐☐■■ CHANNEL 3 ☐■☐☐ CHANNEL 4	Press button 3 repeatedly until the channels lights indicate the output channel you wish to program.
3.	☐■☐ ☐☐☐■	Press button 2 repeatedly until the feature lights are on as shown.

4.	■ OR ▣	Press button 1 to swap the feature light(s) between flashing and not flashing.

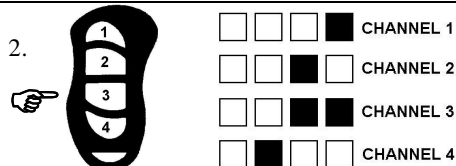| Flashing	Not Flashing
Latched Output. NOTE: Timed output must be turned **OFF** See Timed Output.	Pulsed Output. If Timed Output is turned on then the output will pulse for the programmed time. See Timed Output.
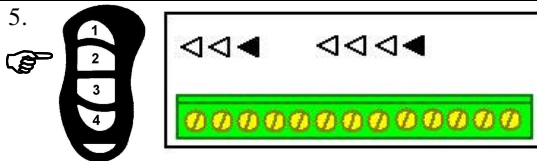
5.	◁◁◀ ◁◁◁◀	Press and hold button 2 on the remote control until the lights start scrolling. The output has now been programmed.

NORMALLY OPEN OR NORMALLY CLOSED OUTPUTS
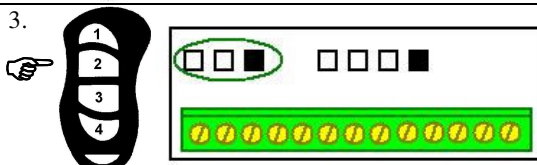
Enter Programming Mode

1. See ENTERING PROGRAMMNG MODE (page 3).

2.	☐☐☐■ CHANNEL 1 ☐☐■☐ CHANNEL 2 ☐☐■■ CHANNEL 3 ☐■☐☐ CHANNEL 4	Press button 3 repeatedly until the channels lights indicate the output channel you wish to program.
3.	☐☐■ ☐☐☐■	Press button 2 repeatedly until the feature lights are on as shown.

4.	■ OR ▣	Press button 1 to swap the feature light(s) between flashing and not flashing.

Flashing	Not Flashing
Normally Open Output	Normally Closed Output
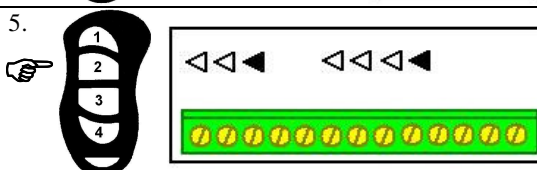
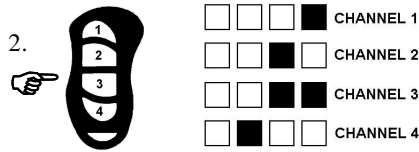|		
5.	◁◁◀ ◁◁◁◀	Press and hold button 2 on the remote control until the lights start scrolling. The output has now been programmed.

TIMED OUTPUT
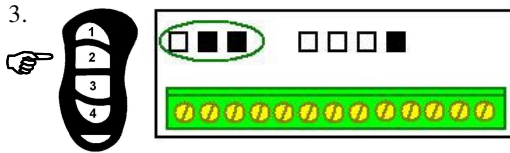
<table>
<tr><td>1.</td><td colspan="2"><p align="center">**Enter Programming Mode**
See <u>ENTERING PROGRAMMNG MODE</u> (page 3).</p></td></tr>
<tr><td>2.</td><td>CHANNEL 1
CHANNEL 2
CHANNEL 3
CHANNEL 4</td><td>Press button 3 repeatedly until the channels lights indicate the output channel you wish to program.</td></tr>
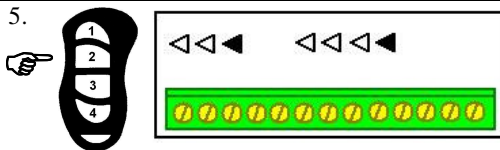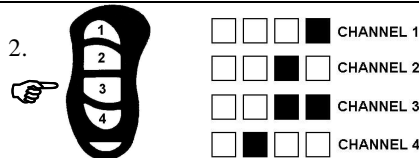<tr><td>3.</td><td></td><td>Press button 2 repeatedly until the feature lights are on as shown.</td></tr>
<tr><td>4.</td><td>OR</td><td>Press button 1 will swap the feature light(s) between flashing and not flashing.</td></tr>
<tr><td>5.</td><td>◁◁◀   ◁◁◁◀</td><td>Press and hold button 2 on the remote control until the lights start scrolling
The output has now been programmed.</td></tr>
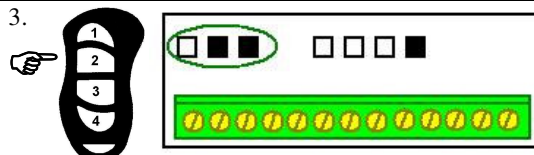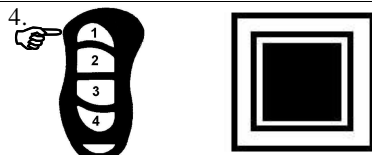</table>

Step 4 table:

Flashing	Not Flashing
Timed Output Off.	Timed Output On. Default 0.5 seconds. See <u>Timed Output Programming.</u>

TIMED OUTPUT PROGRAMMING

<table>
<tr><td>1.</td><td colspan="2"><p align="center">**Enter Programming Mode**
See <u>ENTERING PROGRAMMNG MODE</u> (page 3).</p></td></tr>
<tr><td>2.</td><td>CHANNEL 1
CHANNEL 2
CHANNEL 3
CHANNEL 4</td><td>Press button 3 repeatedly until the channels lights indicate the output channel you wish to program.</td></tr>
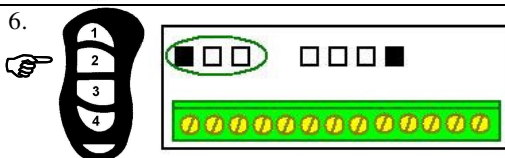<tr><td>3.</td><td></td><td>Press button 2 repeatedly until the feature lights are on as shown.</td></tr>
<tr><td>4.</td><td></td><td>Press button 1 repeatedly (either once or twice) to set the feature light(s) to flashing.</td></tr>
<tr><td>5.</td><td></td><td>To begin recording the desired output time press button 1. The feature light(s) will stop flashing to indicate recording.</td></tr>
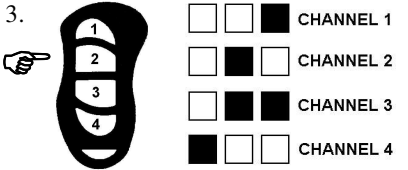<tr><td>6.</td><td></td><td>Once the desired output time has elapsed press button 2 to stop recording. The feature lights will appear as shown to indicate the recording has been confirmed.</td></tr>
</table>

MOMENTARY OUTPUT ENABLE

Enter Programming Mode
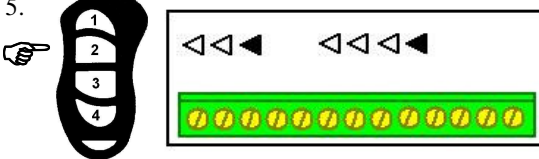
1. See <u>ENTERING PROGRAMMNG MODE</u> (page 3).

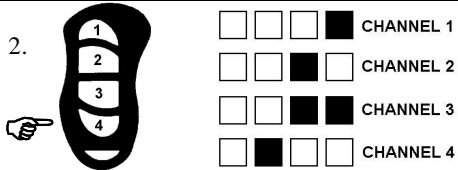|		
2.		Press button 3 repeatedly until the channels lights are all on as shown.
3.	☐☐■ CHANNEL 1 ☐■☐ CHANNEL 2 ☐■■ CHANNEL 3 ■☐☐ CHANNEL 4	Press button 2 repeatedly until the <u>feature</u> lights indicate the desired channel for momentary operation.
4.	■ OR ▣	Press button 1 to swap the feature light(s) between flashing and not flashing.
5.	◁◁◀ ◁◁◁◀	Press and hold button 2 on the remote control until the lights start scrolling. The output has now been programmed.

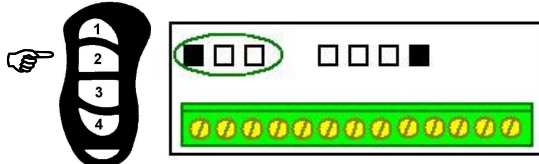| Flashing	Not Flashing
Momentary Output off.	Momentary Output on.

ADDING WIRELESS DETECTORS

WIRELESS PIR, REED, SMOKE DETECTOR, EMERGENCY PENDANT.

Enter Programming Mode

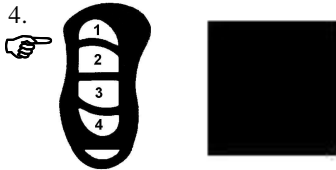1. See ENTERING PROGRAMMNG MODE (page 3).

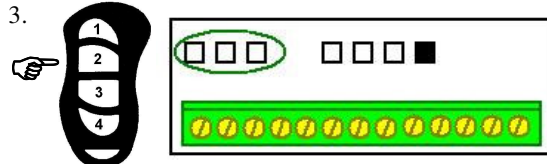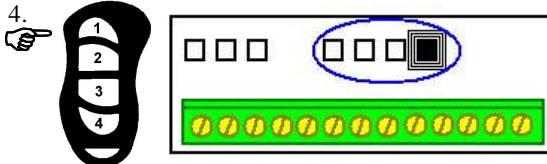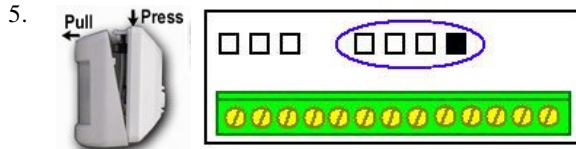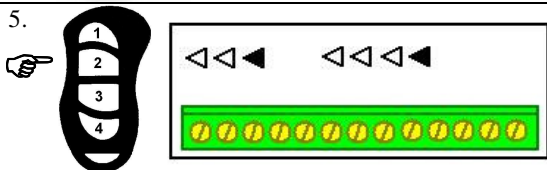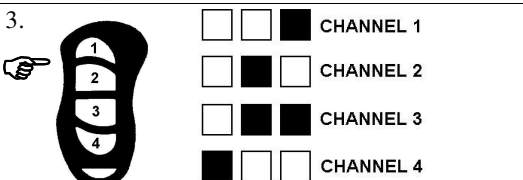|		
2.	CHANNEL 1 CHANNEL 2 CHANNEL 3 CHANNEL 4	Press button 3 repeatedly until the channels lights indicate the output channel you wish to program. Select the channel that you wish to be activated by the detector.
		Press button 2 repeatedly until the feature lights are on as shown.
4.		Press button 1 to set the feature light(s) to not flashing. NOTE: By default the feature light(s) will be flashing, if not do not press button 1.
3.		Press button 2 repeatedly until the feature lights are off as shown.
4.		Press and hold button 1 until the channel light(s) begin to flash.
5.	Pull ↓Press	Now trigger the new detector; the channel light(s) should stop flashing. Note that detectors are high-powered and should be triggered at least 5 meters away from the unit.
5.	◁◁◀ ◁◁◁◀	Press and hold button 2 on the remote control until the lights start scrolling. The detector has now been learnt in.

REED MODE ENABLE – if using Wireless Reed Switches this mode should be enabled. When the wireless reed switch sends "open" i.e. when your door or window is opened, then the channel output will be latched on. When door is closed the output turns off.
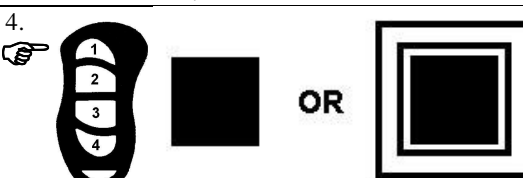
Enter Programming Mode

1.	See <u>ENTERING PROGRAMMNG MODE</u> (page 3).
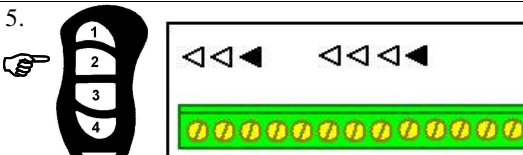
2.		Press button 3 repeatedly until the channels lights are on as shown.
3.	CHANNEL 1 CHANNEL 2 CHANNEL 3 CHANNEL 4	Press button 2 repeatedly until the <u>feature</u> lights indicate the desired channel for reed operation.

4.	OR	Press button 1 to swap the feature light(s) between flashing and not flashing.
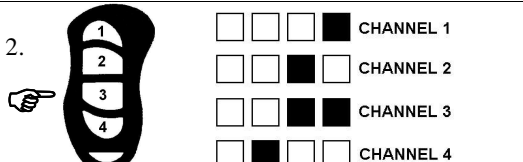
Flashing	Not Flashing
Reed Switch Mode disabled.	Reed Switch Mode enabled.

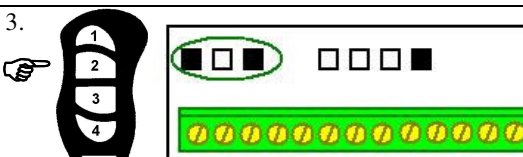|		
5.	◁◁◀ ◁◁◁◀	Press and hold button 2 on the remote control until the lights start scrolling. Reed mode has now been programmed.

LOW BATTERY OUTPUT FROM WIRELESS DEVICES If this mode is enabled, if ANY wireless detector programmed into ANY channel sends a low battery signal then the selected channel output will be activated.
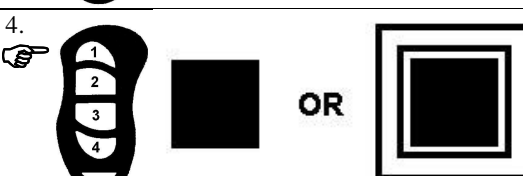
Enter Programming Mode

1.	See <u>ENTERING PROGRAMMNG MODE</u> (page 3).

2.	CHANNEL 1 CHANNEL 2 CHANNEL 3 CHANNEL 4	Press button 3 repeatedly until the channels lights indicate the output channel you wish to program. The channel you select will activate whenever a low battery signal is transmitted by any of the learnt in detectors.
3.		Press button 2 repeatedly until the feature lights are on as shown.

4.	OR	Press button 1 to swap the feature light(s) between flashing and not flashing.

Flashing	Not Flashing
No Output on low battery.	Output on low battery.
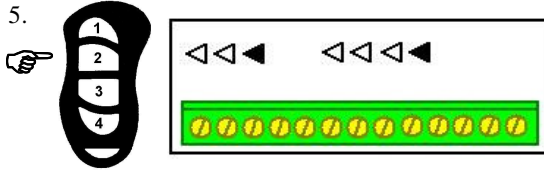
| 5. | | Press and hold button 2 on the remote control until the lights start scrolling |

RESETTING THE RXPROR4 – This erases all remotes and detectors and returns the programming settings to the factory defaults i.e. 1 sec pulse output for all channels.

| 1. | | Disconnect power from the unit. |

| 2. | | Using a piece of wire or metal tweezers, short (link) the top solder pad on the far right channel LED to the square bottom solder pad on the bottom right hand corner of the circuit board as shown. Keep the short on. |

| 3. | | Press and hold button 1 on the remote control. |

| 4. | | Power up the unit and then remove the short. |

| 5. | | When the lights start scrolling release the button on the remote control. The device has now been reset, and the first remote control is learnt in. You may now learn additional remotes as per the standard procedure. |
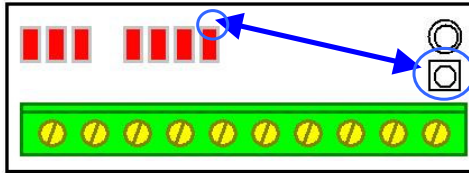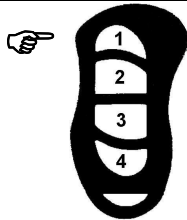
The table below shows the button conversion if you wish to utilize other styles of Rhino Code Hopping Remotes with your RXPROR4.

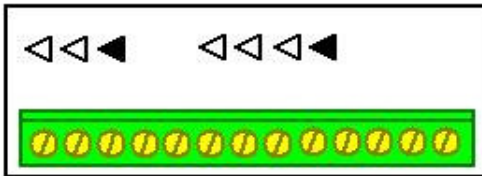| PRE-DEFINED CHANNELS FOR RHINO CODE HOPPING REMOTE CONTROLS			
Output Channel			
	GTTX	RCTX3-T	RCTX4-U
1	1	Bottom	1
2	2	Left	2
3	NA	Right	3
4	1+2	Bottom + Left	4

Optional Extras Available

- Wireless PIR Detectors - for detecting the movement of humans inside your building (PIRW3)
- Wireless Reed Switches - for detecting the opening of doors or windows (WREEDi)
- Wireless Smoke Detectors - for detecting a fire (SMODETW)
- Wireless Emergency Pendants - worn around the neck, this special remote device needs to be pressed on both sides to activate the alarm system. Particularly suited for the elderly, ill, or incapacitated user. (WPANIC)
- Additional Code Hopping Remote Controls – if more than the standard two remote controls are required, 3 additional remotes can be added i.e. 5 x Code Hopping remotes in total can be used with the RXPROR4.
- Remote Control a Rhino Car Alarm or Engine Immobiliser via your RXPROR4 remote control. Various models are available, so please contact your Rhino Dealer for further information.
- Use your Rhino Model JAG/RAv2 car alarm remote control to open your garage door via your RXPROR4.

LIMITED WARRANTY

Cornick Pty Ltd (ABN 74 001 621 610) (Seller), warrants its products to be in conformance with its own plans and specifications and to be free from defects in materials and workmanship under normal use and service for twelve months from the date of original purchase. Sellers obligation shall be limited to repairing or replacing, at its option, free of charge for materials or labour, any part which is proved not in compliance with Sellers specifications or proves defective in materials or workmanship under normal use and service. Seller shall have no obligation under this Limited Warranty or otherwise if the product is altered or improperly repaired or serviced by anyone other than Seller. For warranty service, return transportation prepaid, to 9 Hannabus Place McGraths Hill NSW 2756. Seller has no obligation to attend the buyer's location to retrieve the goods or make repairs onsite.

There are no warranties, expressed or implied, of merchant ability, or fitness for a particular purpose or otherwise, which extend beyond the description on the face hereof. In no case shall Seller be liable to anyone for any consequential or incidental damages for breach of this or any other warranty, express or implied, or upon any other basis of liability whatsoever, even the loss or damage is caused by its own negligence or fault.

Seller does not represent that the products it sells may not be compromised or circumvented; that the products will prevent any personal injury or property loss by burglary, robbery, fire or otherwise; or that the products will in all cases provide adequate warning or protection. Customer understands that a properly installed and maintained alarm system may only reduce the risk of a burglary, robbery, or fire without warning, but it is not insurance or a guarantee that such will not occur or that there will be no personal injury or property loss as a result.

Consequently, Seller shall have no liability for any personal injury; property damage or other loss based on a claim the product failed to give any warning. However, if Seller is held liable, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regard less of cause or origin, Seller's maximum liability shall not in any case exceed the purchase price of the product, which shall be the complete and exclusive remedy against Seller.

This warranty replaces any previous warranties and is the only warranty made by Seller on this product. No increase or alteration, written or verbal, of the obligations of this Limited Warranty is authorised.