

Neatrol Holdings Pty. Ltd. trading as:

NEATROL SYSTEMS

ABN 20 056 432 118

25B Harland Avenue, Malaga, W.A. 6090.

Postal Address: P.O. Box 3271, Malaga, W.A. 6945.

Telephone: (08) 9248 1646, 1300 55 5856 (Outside WA) Fax: (08) 9248 2003

Web: <http://www.neatrol.com.au> E-mail: neatrol@neatrol.com.au

AKRX42-P Plug in receiver Instructions

Description

The AKRX42-P is a self-contained 433.92MHz rolling key receiver designed to be directly plugged into door and gate controls configured to accept standard ELSEMA / ATA plug-in receiver boards in either 1 or 2 channel configuration.

Channel Setting

The receiver can learn up to 340 unique (2 or 4 button) transmitters and can be used in either a one or two output configuration.

With the **2CH** link installed, the receiver will operate in a two-output mode. Installing links on any two of the **L1 / L2 / L3 / L4** pins will determine which buttons are active.

*Example: With links on **L1** and **L2**, the top left (#1) button (left hand button of an AKTX2) will operate the primary output, while the top right (#2) button (right hand button of an AKTX2) will operate the secondary output.*

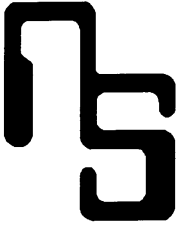
*Example: With links on **L3** and **L4**, the bottom left (#3) button will operate the primary output, while the bottom right (#4) button will operate the secondary output. In this case neither button of a 2 button AKTX2 will operate the receiver.*

With the **2CH** link **not** installed, the receiver will operate in a single output mode. Installing links on any of the **L1 / L2 / L3 / L4** pins will limit operation to the selected buttons only.

*Example: A link on **L1** only will operate on the top left (#1) button only (left hand button of an AKTX2).*

*Example: A link on **L1** and **L4** will cause the receiver to operate on the top left (#1) and bottom right (#4) buttons (left hand button only of an AKTX2).*

With no links installed at all, the receiver operates in a single output configuration and will respond to any of the buttons of any 2 or 4 button learnt Airkey.



25B Harland Avenue, Malaga, W.A. 6090.

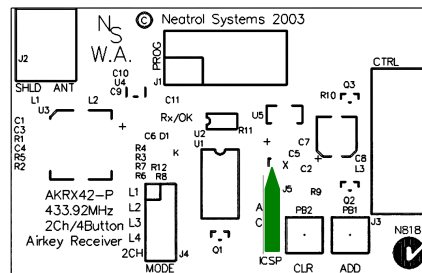
Postal Address: P.O. Box 3271, Malaga, W.A. 6945.

Telephone: (08) 9248 1646, 1300 55 5856 (Outside WA) Fax: (08) 9248 2003

Web: <http://www.neatrol.com.au> E-mail: neatrol@neatrol.com.au

Programming

All Airkey receivers with date codes from 1st June 2008 have been enhanced with a remote learning function allowing users to add new Airkeys into a receiver without direct access to the receiver itself. This function is invoked when the 5 pin green socket is plugged into the 5 pin ICSP header with the bevelled end pointing towards the centre of the receiver as below:



The remote learning socket must be removed before connecting an Airkey Programmer, Airkey Manager or using the manual ADD or CLEAR buttons.

The remote learning socket comes pre-fitted in the factory and can be removed at any time to either disable the remote learning feature of the Airkey receiver or when connecting other peripherals. The learning socket should be fitted when power to the receiver has been disconnected. If this is not convenient, simply press and hold the ADD button while carefully installing the remote programming socket.

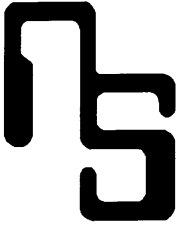
Local programming with the remote learning socket removed

Before any transmitters are learnt into the receiver for the first time, press and hold the **CLR** button on the receiver for about 5 seconds. The red light on the receiver will illuminate to indicate that all memory locations have been cleared and the receiver is ready to accept transmitters.

Next press and hold the **ADD** button. The red light will illuminate for as long as the **ADD** button is depressed. To learn in transmitters, simply press one of the buttons of the transmitters to be added. If the transmitter is newly learnt, the red light will blink off for half a second to indicate a successful learn. If the transmitter has already been learnt or is faulty, the light will not blink and that transmitter will not be added. Up to 340 transmitters in total can be added if and when required. A new transmitter can be added at any time by simply pressing the **ADD** button and one of the transmitter's buttons. An alternative method of adding transmitters is to fit a jumper or dry contact switch across pins 2 and 3 (labelled **A**) on the **ICSP** connector.

Remote programming with the remote learning socket fitted

Once at least one Airkey has been learnt into the receiver by the local programming method as above, it and any other learnt Airkeys can be used to facilitate the learning-in of additional Airkeys without having to gain direct access to the receiver.



Neatrol Holdings Pty. Ltd. trading as:

NEATROL SYSTEMS

ABN 20 056 432 118

25B Harland Avenue, Malaga, W.A. 6090.

Postal Address: P.O. Box 3271, Malaga, W.A. 6945.

Telephone: (08) 9248 1646, 1300 55 5856 (Outside WA) Fax: (08) 9248 2003

Web: <http://www.neatrol.com.au> E-mail: neatrol@neatrol.com.au

While within the operational range of the Airkey receiver, simultaneously (and briefly) press buttons 1 and 2 of an already learnt Airkey and then press any one button of a new Airkey within 2 seconds to learn the new key into the receiver. If further Airkeys need to be programmed, simply repeat the fore mentioned procedure until all the Airkeys are learned.

Automatic Replace *

If an Airkey has been lost or stolen, a replacement can be ordered provided the serial number of the original Airkey is known. A near identical Airkey can then be supplied such that when it is used, it will automatically replace the lost Airkey and continue to operate without loss of continuity and without needing to access the receiver. After being automatically replaced, the lost Airkey is permanently deleted from the receiver memory and cannot be re-used.

Antenna

An ideal antenna for this receiver is an insulated wire 160mm in length connected to the **ANT** terminal of the receiver.

* Available as a standard feature for all receivers manufactured from 1st October 2005.