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automatic TECHNOLOGY FHCRX-1 Multi-Frequency Receivers Instruction Manual

Contents

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Multi-Frequency Receivers

The Multi-Frequency Receivers are designed to receive signals from transmitters and operate devices such as garage doors, gates, and other hardware. The FHCRX-1, FHCRX-2, and FHRX-2 models can store up to 250 transmitter codes in their memory. The receivers can be programmed to work with either ATA TrioCodeTM or BNDTri-TranTM transmitters.

Product Specifications

- **Power Supply:** 9 volts to 24 Volts DC ONLY
- **Frequency:** Multi-frequency
- **Memory Capacity:** 250 Transmitters
- **Control Output 1:** Open collector output at pin one for channel one (40 dc volts 100ma max)
- **Control Output 2:** Open collector output at pin four for channel two (40 dc volts 100ma max)

Product Usage Instructions

1. To set the type of transmitters that can be stored into the receiver's memory, the first memory location must be programmed with either ATA TrioCodeTM or BND Tri-TranTM transmitters.
2. To store a transmitter code, follow the steps below:
    1. Press and hold SW1 (for Relay 1) or SW2 (for Relay 2) on the receiver board for FHCRX-1 and FHCRX-2 models OR SW1 (for Channel 1) or SW2 (for Channel 2) on the receiver board for FHRX-2 model. The LED will start to flash.
    2. Press the transmitter button you would like to use to control the device for two (2) seconds. The LED will

start to flash faster.

    3. Release the transmitter button and pause for two (2) seconds. Press the same button again for two (2) seconds. The LED stays on for a second and turns off.

    4. Release SW button.

    5. Press the transmitter button to test operation.

3. To delete a single transmitter's code, follow the steps below:

    1. Press and hold SW1 (for Relay 1) or SW2 (for Relay 2) on the receiver board for FHCRX-1 and FHCRX-2 models OR SW1 (for Channel 1) or SW2 (for Channel 2) on the receiver board for FHRX-2 model. The LED will start to flash.

    2. Press the transmitter button you would like to remove from receiver's memory for two seconds. The LED will start to flash faster.

    3. Release the transmitter button and pause for two seconds. Press the same button again for two seconds. The LED will slowly flash two times.

    4. Release SW button.

    5. Press the transmitter button to confirm that it has been removed.

4. To delete all stored transmitter codes, follow the steps below:

    1. Turn off the power to the receiver.

    2. Press and hold SW1 button.

    3. While holding SW1, turn the power back on. After 15 seconds, the Coding LED will illuminate to indicate that the receiver's memory has been cleared.

    4. Release SW1. All the stored codes should now be deleted. Confirm this by pressing the transmitters previously used to operate the device. There should be no response.

5. An ATA Universal Programmer can be used to set the timer, edit, backup/restore transmitter codes.

6. An optional coaxial antenna is available for use with the receiver in difficult reception areas. Connect the core of coaxial lead to replace the existing antenna wire (outer screw socket). Connect shield to the spare (inner) screw socket.

Installation Instructions

Thank you for purchasing the ATA FHCRX Series Stand Alone Receiver. Familiarise yourself with the following instructions prior to commencing set up. Store this information in a safe place for future reference. The FHCRX series receivers have relays on board which provide normally open or normally closed contact for controlling virtually any electronic device including garage doors and gate openers. The relays can be programmed to any of three modes – pulse, hold or timer. One or both relays can be programmed with any of the three modes.

BRAND OF TRANSMITTERS
First memory location sets the type of transmitters which can be stored into the receivers memory. It either can be ATA TrioCode™ or BND Tri-Tran™ transmitters. For example if first transmitter stored is TrioCode™ then rest of transmitters can only be TrioCode™ type and mixing of TrioCode™,Tri-Tran™ is not possible. By deleting all stored transmitter codes from receivers memory will allow you to choose either TrioCode™ or Tri-Tran™ transmitters.

SETTING RELAY OPERATING MODES

- Pulse Mode – Relay contact is active whilst transmitter button is pressed.
- Hold Mode – Relay changes state at each press of transmitter button. Hold, Release, Hold, etc. (like an on/off switch).

- Timer Mode – Relay will remain active for the programmed duration.the timer is adjustable from 0 seconds to 655.34 seconds in .01second steps
- Note: Timer mode is select able only with the ATA Programmer. Refer to the Programmer's manual for instructions on setting Timer mode.
- RELAY-1 Pulse Mode – Remove JP1 jumper or do not bridge the two pins.
- RELAY-1 Hold Mode – Bridge the two pins on JP1 jumper.
- RELAY-2 Pulse Mode – Remove JP2 jumper or do not bridge the two pins.
- RELAY-2 Hold Mode – Bridge the two pins on JP2 jumper.

UNIVERSAL PROGRAMMER
An ATA Universal Programmer can be used to set timer (adjustable from 0.00 to 655.34 seconds), Edit, back up /restore transmitters.

STORING TRANSMITTER CODE

- Press and hold;
  - FHCRX-1 and FHCRX-2: SW1 (for Relay 1) or SW2 (for Relay 2) on the receiver board
  - FHRX-2: SW1 (for Channel 1) or SW2 (for Channel 2) on the receiver board. The led will start to flash
- Press the transmitter button you would like to use to control the device for two (2) seconds. The led will start to flash faster.
- Release the transmitter button and pause for two (2) seconds. Press the same button again for two (2) seconds. The led stays on for a second and turns off.
- Release SW button.
- Press the transmitter button to test operation.
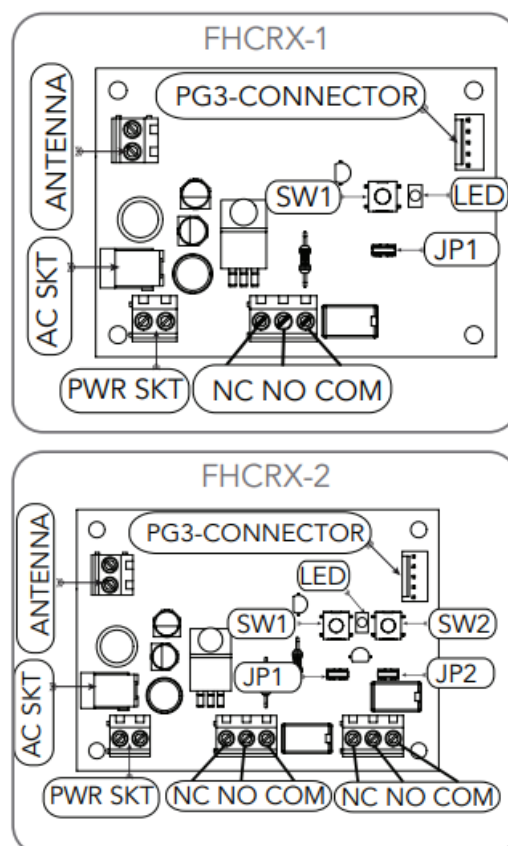
DELETING A SINGLE TRANSMITTER'S CODE

- Press and hold;
  - FHCRX-1 and FHCRX-2: SW1 (for Relay 1) or SW2 (for Relay 2) on the receiver board
  - FHRX-2: SW1 (for Channel 1) or SW2 (for Channel 2) on the receiver board. The led will start to flash
- Press the transmitter button you would like to remove from receivers memory for two seconds. The led will start to flash faster.
- Release the transmitter button and pause for two seconds. Press the same button again for two seconds. The led will slowly flash two times
- Release SW button.
- Press the transmitter button to confirm that it has been removed.

DELETING ALL STORED TRANSMITTER CODES

1. Turn the power off to the receiver.
2. Press and hold SW1 button.
3. Wile holding SW1 turn power on again. After 15 seconds the Coding LED will illuminate to indicate that the receiver's memory has been cleared.
4. Release SW1. All the stored codes should now be deleted. Confirm this by pressing the transmitters previously used to operate the device. There should be no response.
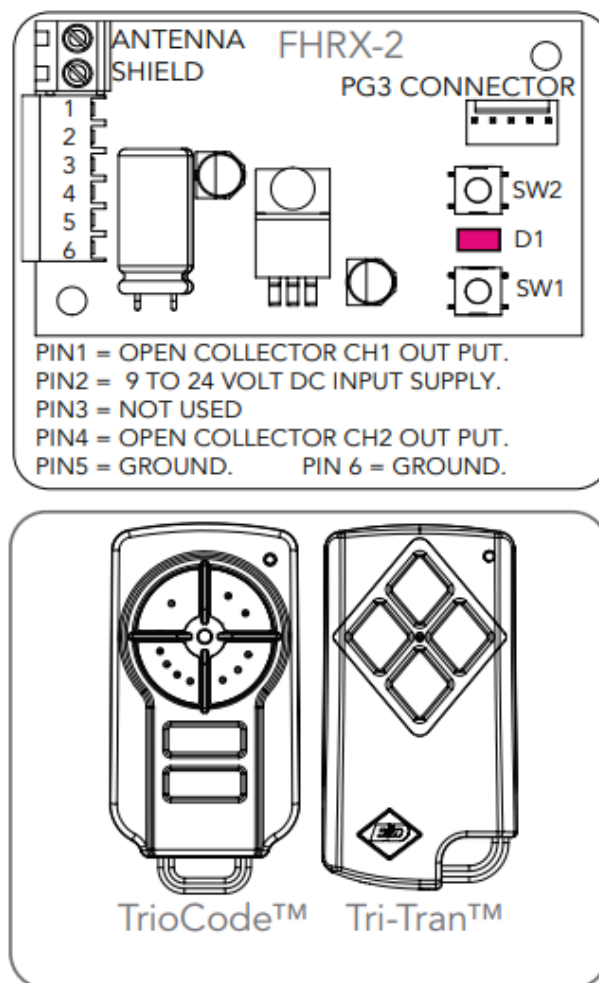
SPECIFICATIONS

- **Power Supply:** 9 volts to 24 Volts DC ONLY
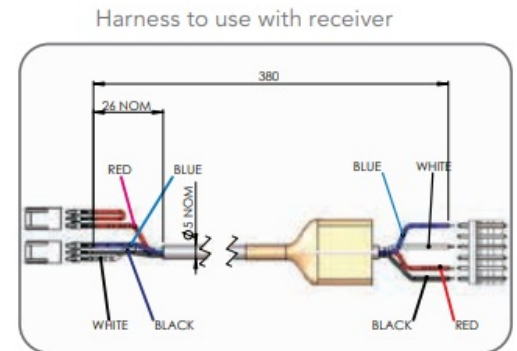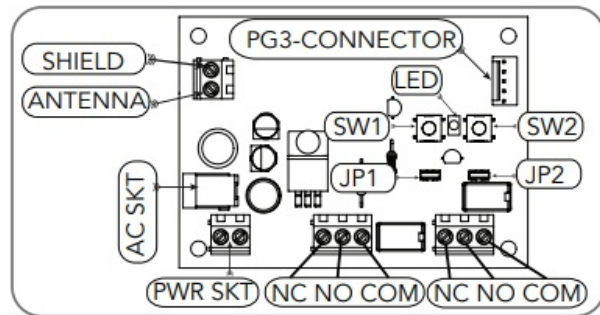- **Frequency:** Multi frequency

- **Memory Capacity:** 250 Transmitters
- **Control Output 1 :** Open collector output at pin one for channel one (40 dc volts 100ma max) Control Output 2 : Open collector output at pin four for channel two (40 dc volts 100ma max)
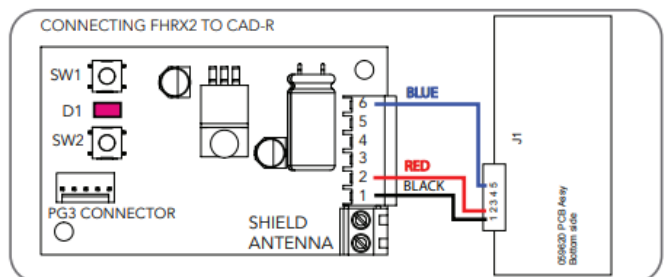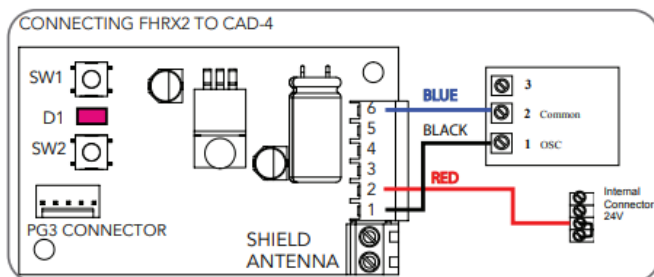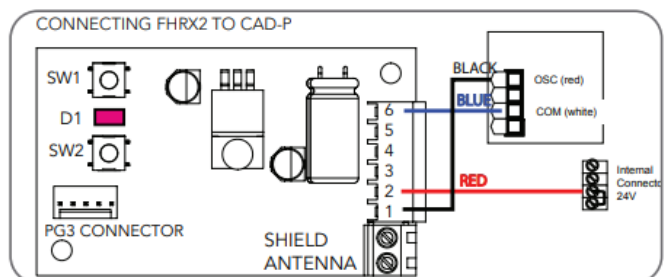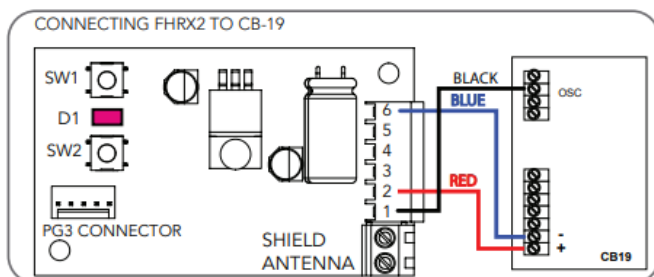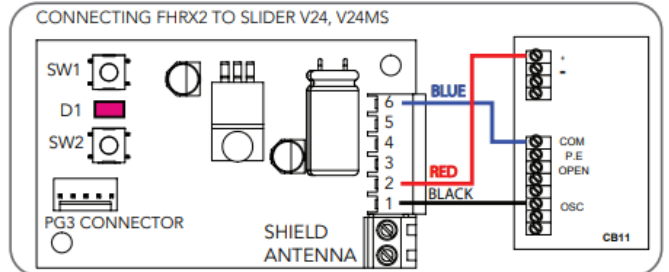
CO-AXIAL CONNECTION

An optional coaxial antenna is available for use with the receiver in difficult reception areas. The antenna has to be mounted as high as possible so that it is not obstructed, e.g. on top of a fence, or on a wall at the front of a garage, etc. Connect the core of coaxial lead to replace the existing antenna wire (outer screw socket). Connect shield to the spare (inner) screw socket.

HARNESS

The harness to connect receiver to the opener can be bought from ATA (Order code #01905). User may have to cut and strip wires to connect to different openers. Cut and leave white wire if the second channel is not used.

HOW TO CONNECT RECEIVER WITH ATA HARNESS TO DOOR/GATE OPENERS

CONNECTING FHRX2 TO GDO-6, GDO-9

SW1 D1 SW2 PG3 CONN SHIELD ANTENNA

6 5 4 3 2 1

RED
BLUE
BLACK

24V 0V PE LGT OSC COM

CONNECTING FHRX2 TO RDO-1, CAD-PD

SW1 D1 SW2 PG3 CONNECTOR SHIELD ANTENNA

6 5 4 3 2 1

BLUE
RED
BLACK

GND IR BEAM 30V PWR OPERATE CLS OUT AUX OUT
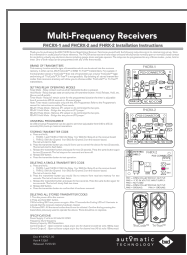
CONNECTING FHRX2 TO CAD-P DIAMOND

SW1 D1 SW2 PG3 CONNECTOR SHIELD ANTENNA

6 5 4 3 2 1

BLUE
RED
BLACK

+24V -24V

CONNECTING FHRX2 TO SLIDER V24, V24MS

SW1 D1 SW2 PG3 CONNECTOR SHIELD ANTENNA

6 5 4 3 2 1

BLUE
RED
BLACK

COM P.E OPEN OSC

CB11

CONNECTING FHRX2 TO CB-19

SW1 D1 SW2 PG3 CONNECTOR SHIELD ANTENNA

6 5 4 3 2 1

BLACK BLUE RED

OSC

- +

CB19

CONNECTING FHRX2 TO CAD-P

SW1 D1 SW2 PG3 CONNECTOR SHIELD ANTENNA

6 5 4 3 2 1

BLACK BLUE RED

OSC (red) COM (white)

Internal Connector 24V

CONNECTING FHRX2 TO CAD-4

SW1 D1 SW2 PG3 CONNECTOR SHIELD ANTENNA

6 5 4 3 2 1

BLUE BLACK RED

3 2 Common 1 OSC

Internal Connector 24V

CONNECTING FHRX2 TO CAD-R

SW1 D1 SW2 PG3 CONNECTOR SHIELD ANTENNA

6 5 4 3 2 1

BLUE RED BLACK

J1

1 2 3 4 5

059620 PCB Assy Bottom side

Documents / Resources

automatic TECHNOLOGY FHCRX-1 Multi-Frequency Receivers [pdf] Instruction Manual
FHCRX-1, FHCRX-2, FHRX-2, FHCRX-1 Multi-Frequency Receivers, FHCRX-1, Multi-Frequency Receivers, Receivers

References

- 🌐 **aust.com.au - This website is for sale! - aust Resources and Information.**
- 💡 **Automatic Garage Door Openers and Gate Openers - Repairs - ATA**