

# Multi-Frequency Receivers

## FHCRX-1V2, FHCRX-2V2 and FHRX-2V2 Installation Instructions

Thank you for purchasing an ATA Receiver. Familiarise yourself with the following instructions prior to commencing set up. Store this information in a safe place for future reference. There are 2 types of Multi-Frequency Receivers;

a. The FHCRX-1 or FHCRX-2 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 three modes - pulse, hold or timer. One or both relays can be programmed with any of the three modes.

**NOTE:** Timer mode is select able only with the ATA Programmer. Refer to the Programmer's manual for instructions on setting Timer mode.

b. The FHRX-2 receiver has transistors on board which provide an open collector contact for controlling virtually any electronic garage door or gate.

### SETTING RELAY OPERATING MODES (FHCRX-1V2 and FHCRX-2V2)

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).

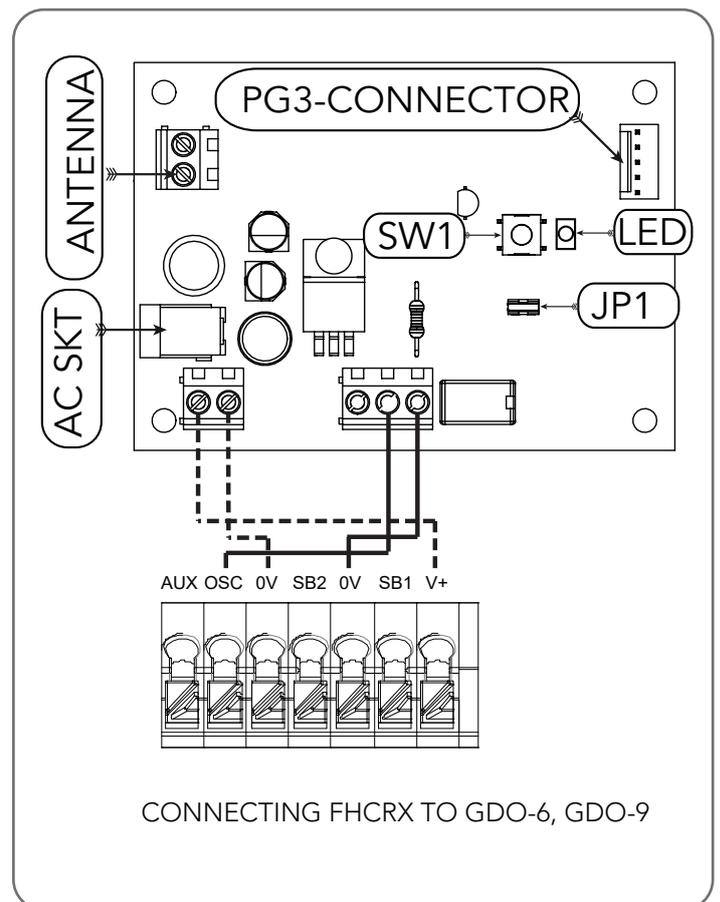
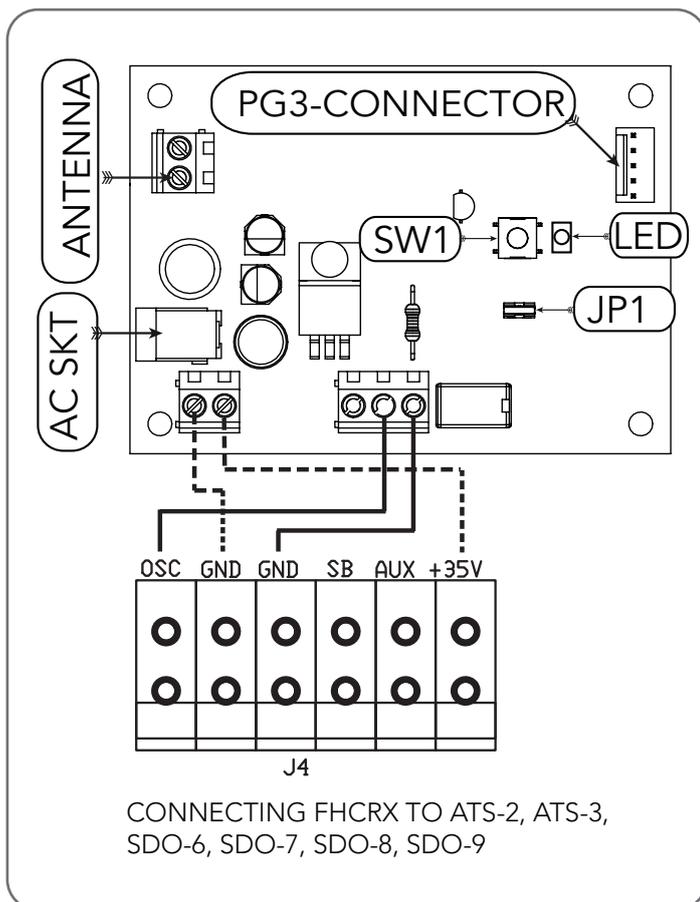
Timer Mode - Relay will remain active for the programmed duration.the timer is adjustable from 0 seconds to 655.34 seconds in .01second steps

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.

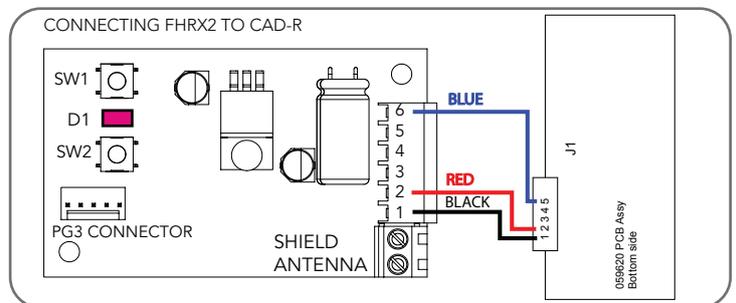
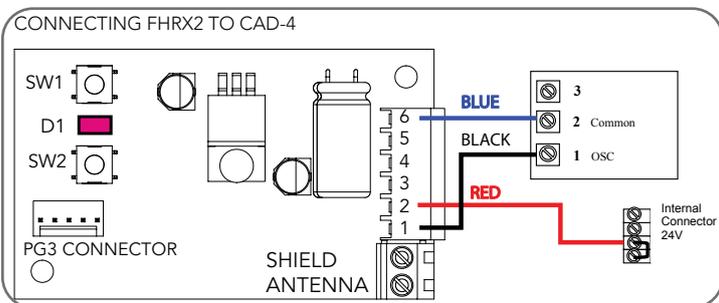
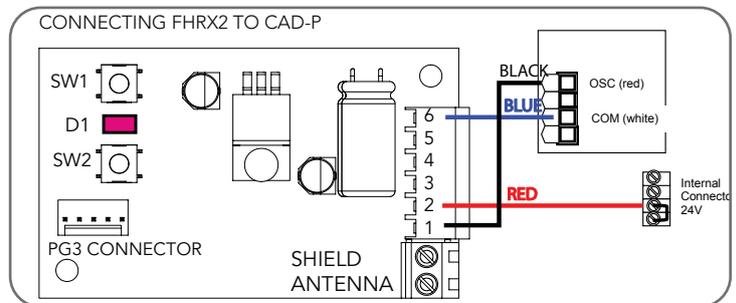
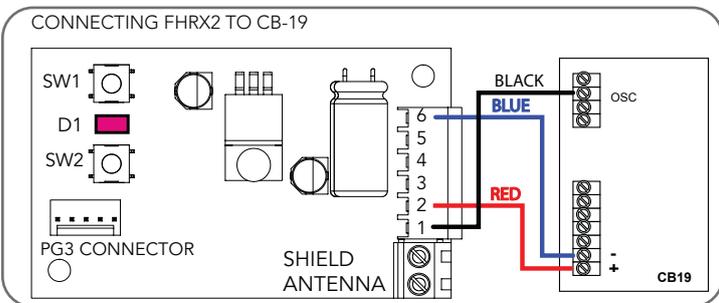
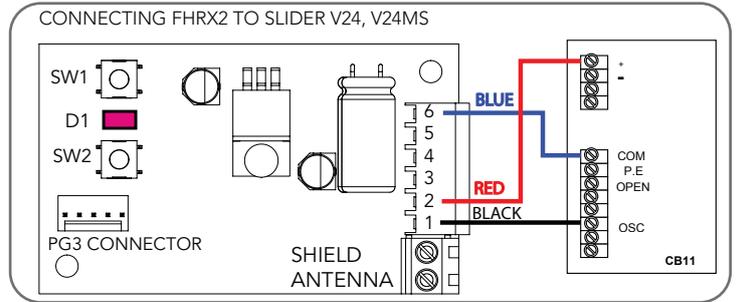
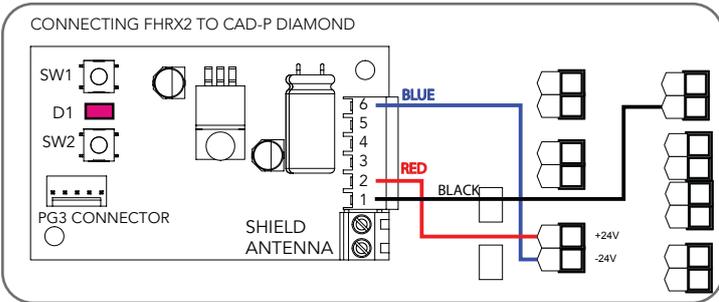
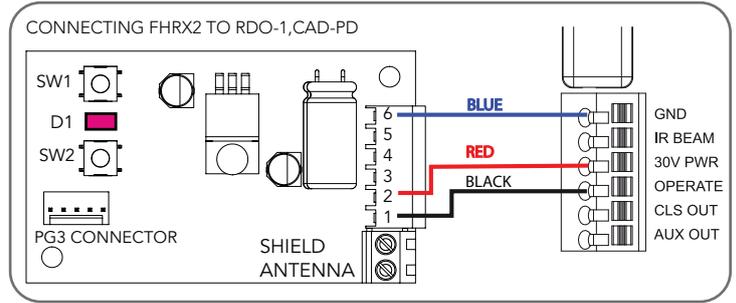
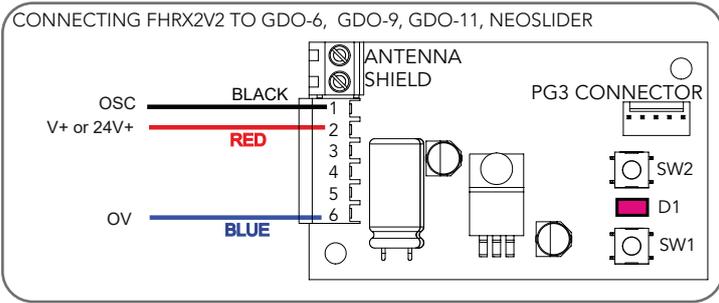
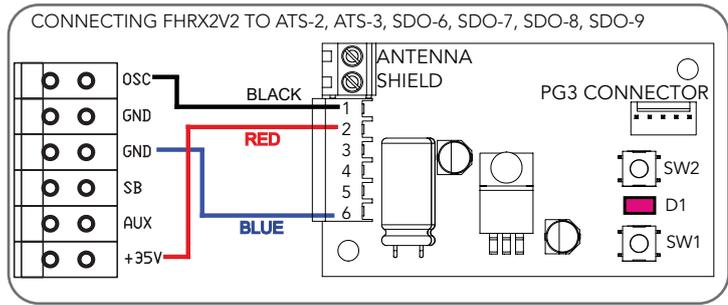
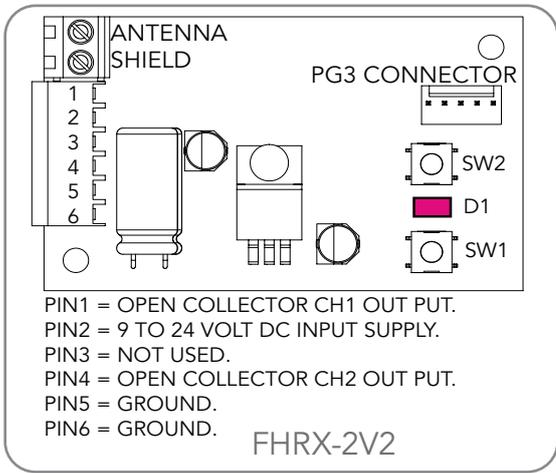
RELAY-2 Pulse Mode - Remove JP2 jumper or do not bridge the two pins.

RELAY-2 Hold Mode - Bridge the two pins on JP2 jumper.



FHCRX-1V2 shown

## HOW TO CONNECT FHRX-2V2 RECEIVER WITH ATA HARNESS TO DOOR/GATE OPENERS:



## TRIOCODE™128 & TRI-TRAN+ TECHNOLOGY

Only transmitters with the TrioCode™128 or Tri-Tran+ Technology can operate with the latest Receivers, reducing the chance of interference from other radio frequency sources. TrioCode™128 and Tri-Tran+ transmitters have the ability to code into earlier model receivers.

## 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

- a. Press and hold;
  - i. FHCX-1 and FHCX-2: SW1 (for Relay 1) or SW2 (for Relay 2) on the receiver board
  - ii. FHRX-2: SW1 (for Channel 1) or SW2 (for Channel 2) on the receiver board.

The led will start to flash

- b. Press the transmitter button you would like to use to control the device for two (2) seconds. The led will start to flash faster.
- c. 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.
- d. Release SW button.
- e. Press the transmitter button to test operation.

## DELETING ALL STORED TRANSMITTER CODES

- a. Turn the power off to the receiver.
- b. Press and hold SW1 button.
- c. While holding SW1 turn power on again. After 15 seconds the Coding LED will illuminate to indicate that the receivers memory has been cleared.
- d. 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

Technical Specifications	FHCX-1V2 and FHCX-2V2	FHRX-2V2
Power supply	12V - 24V AC or DC	9V - 24V DC ONLY
Frequency	Multi Frequency	Multi Frequency
Memory Capacity	250 Transmitters	250 Transmitters
Programmable Modes:	Pulse, Hold, Timer*	
Controlling Outputs	FHCX-1V2 1 x Common 1 x Normally Open 1 x Normally Closed FHCX-2V2 2 x Common 2 x Normally Open 2 x Normally Closed	Output 1: Open collector output at pin one for channel one (40 dc volts 100 ma max) Output 2: Open collector output at pin four for channel two (40 dc volts 100ma max)
Relay Contact Rating	1 amp @ 24 volts DC	N/A
Antenna Wire Length**	170mm	170mm

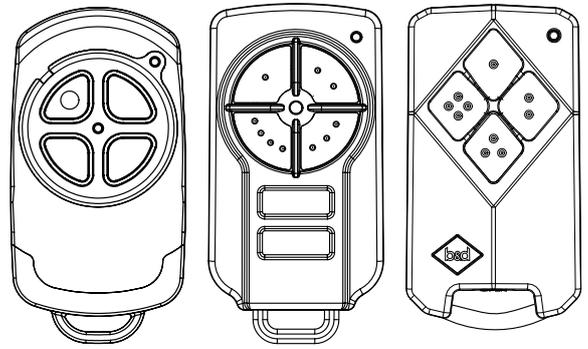
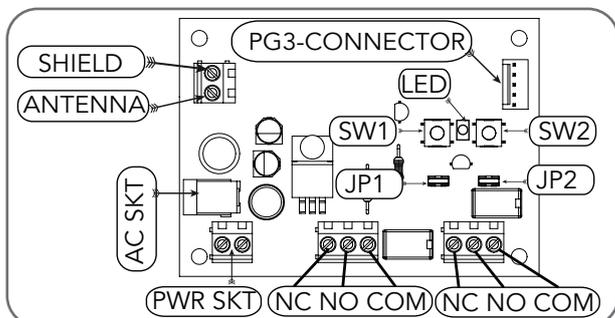
\*Timer mode available with ATA's Universal Programmer.

\*\* An optional co-axial 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 co-axial lead to replace the existing antenna wire (inner screw socket). Connect shield to the spare (outer) screw socket.

## OPTIONAL EXTRAS

### 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.



TrioCode™128 and Tri-Tran+

## DELETING A SINGLE TRANSMITTER'S CODE

- a. Press and hold;
  - i. FHCX-1 and FHCX-2: SW1 (for Relay 1) or SW2 (for Relay 2) on the receiver board
  - ii. FHRX-2: SW1 (for Channel 1) or SW2 (for Channel 2) on the receiver board.

The led will start to flash

- b. Press the transmitter button you would like to remove from receivers memory for two seconds. The led will start to flash faster.
- c. Release the transmitter button and pause for two seconds. Press the same button again for two seconds. The led will slowly flash two times
- d. Release SW button.
- e. Press the transmitter button to confirm that it has been removed.

## 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.

