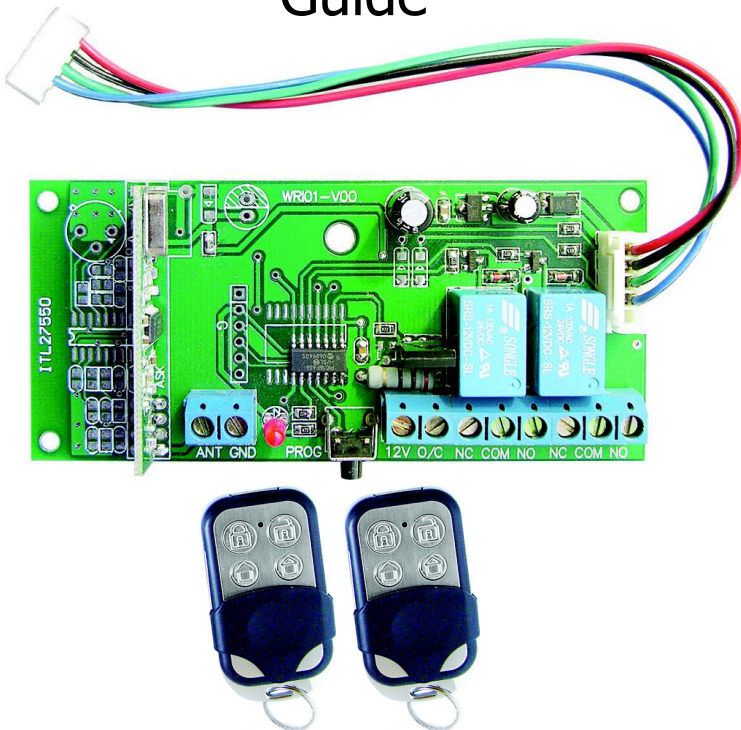




ELECTRONIC ENGINEERING LTD.

Runner Smart Remote Installation & User Guide



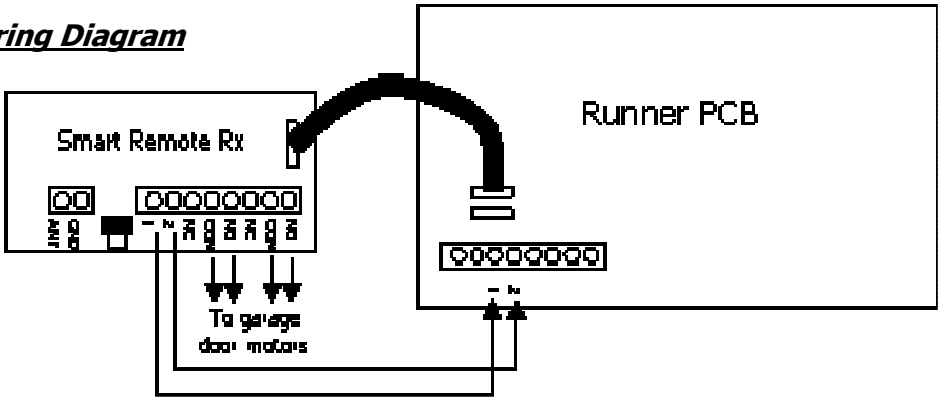
Crow Part # CRRSI01 (Kit as above)

Crow Part # CRRTI01 (Additional Remotes)

Installation

Insert the Smart Remote receiver board into the Crow Runner plastic box using the slots provided to the left of the main PCB. Using the connection lead provided, plug the connectors into the receiver and the Runner PCB keypad BUS jack (White 5 pin socket).

Wiring Diagram



Programming Smart Remote Receiver to Runner

The Smart Remote Receiver gets enrolled into the Runner alarm panel as a User PIN #. You do **Not** need to 'Teach' the remotes into the Runner, They are Pre-Loaded to the Receiver. Up to 25 Smart Remotes can be learned into a single receiver. All Smart Remotes will report to the central station and log into the Runner event memory as this single user.

FIRST we must assign a PIN # to be used for the enrolling of the Smart Receiver.

1. Assign a USER PIN # in the Runner panel. E.g. Program User 10 as 2323 (In **Installer Programming Mode**, Press **PROGRAM** + **1** + **ENTER** + **10** + **ENTER**, **2323** + **ENTER** + **ENTER**. Then exit installer programming mode).

THEN we must enroll the 2323 User-10 Code PIN # into the Smart Remote Receiver.

2. Press the program button 'PROG' on the Smart Remote receiver board for one second (**There is a 20Sec Timeout Limit for this PROG Mode**), LED illuminates indicating the receiver is ready to learn the PIN # from the Runner Panel.
3. From the Runner Keypad, Arm & Disarm the system by using the 2323 (User-10) PIN Code (i.e.: **2323** (User-10) PIN + **Enter** and **repeat** same **again**). The LED on the Smart Remote Receiver will extinguish indicating successful enrolling of the PIN # into the receiver. **If unable to perform steps-2 & 3 before the Receiver's 20Sec Timeout Limit of the 'PROG' Mode, then Power Down the system and remove the Smart Remote Receiver from the panel and connect it to the white Loom Wire Connector at the Rear of the Keypad. Then Power-up the system, Perform steps-2 & 3. Power Down the system and re-fit the Smart Remote Receiver back into the panel.**

Programming Smart Remotes to Smart Receiver

The Smart Remote receiver can enroll up to 25 x 4 channel remote controls.

1. Press and hold the program button PROG on the receiver for one second; LED on.
2. Press button 1 to learn **(You must learn the remote in by pressing button 1 or the receiver will not function correctly)**. LED flashes 3 times and stays on for 4s then off. Done.
3. To enroll more remote controls into the receiver repeat process.

Disabling the Remotes

Change the User-10 Code (2323) PIN # to which the Remote is enrolled with.

Delete all Remotes

Press and hold program button PROG on the receiver for 5 seconds till LED turns off. LED flashes 10 times. Done.

Delete a single Remote

1. Press and hold program button PROG on the receiver for 1 second; LED on.
2. Press Button 1 and Button 2 simultaneously; LED flashes 5 times and off. Successfully deleting the next registered Remote.

Button Operation

Button 1: Press 0.5 second = Away; press 3 seconds = Stay

Button 2: Disarm from Away, Stay and Panic

Button 3: Relay 1 – momentary

Button 4: Relay 2 – momentary

Button 1&2: Press for 3 seconds = panic

The Smart Remote receiver has two on board relays that can be used to operate garage door or control other switchable devices.

Relay 1 can be programmed for momentary, Latching or delay operation.

When enrolling remotes into receiver, press button 2 to learn for latching operation.

When enrolling remotes into receiver, press button 3 to learn for 15s delay operation.

[Set Arm/Disarm Chirps/Flashes](#)

Siren Chirps

1. Connect Open Collector Output 1 (on the receiver board) to Output 1 in parallel with the sirens on the Runner Panel.
2. Arm: the siren beeps once; Disarm: siren beeps twice

Strobe Flashes

1. Connect Open Collector Output 2 (on the receiver) to Output 2 in parallel with the strobe on the Runner Panel.
2. Arm: the strobe flashes once; Disarm: the strobe flashes three times.

NB: The new combination siren & strobe unit with the strobe light made up of high intensity LED's must be used in conjunction with this feature for accurate flash counting.

[Specifications:](#)

Transmitter

- Operating Range: A minimum of 200m (open air)
- 433.92 MHz Keeloq Code Hopping; 4.3 billion combination
- SAW resonator (filter) locked (+/- 75KHz)
- Transmitting power: <10mW
- Operating Voltage: 6 V supplied by two 3 VDC lithium batteries
- Battery Life: A minimum of 4 years under normal operating conditions with the recommended battery types: CR2032 from Everyday, Duracell, Malak or Panasonic
- Current: 1uA standby; 12mA operating
- Low battery indication: LED on the remote flashes when the button is pressed
- Auto shutoff: the remote stops transmitting if a button gets pressed for 25s.

Receiver

- Operating voltage: 9-15VDC
- ASK Superhet technology
- Outputs:
 - Data – Arm (away), Arm (stay), Disarm and Panic. 4-wire harness provided
 - Two programmable Relays; rating 1A 24VDC or 120VAC
 - Two Switch to Ground outputs to verify Arm/Disarm; rating 1A
- LED indication
- Reverse power connection protection
- Standard capacity: 25 remotes. Larger capacity version available on request