



# Rollerdor

THE ROLLER GARAGE DOOR SPECIALISTS

## RD20X2 Control Box

Installation Guide for Roller Garage Doors

Edition 2022/1





# 1. INSTALLING RECEIVER BOX

- 1 Open the lid of the receiver box by unscrewing the four screws (one in each corner) (**fig.1**).
- 2 Remove the two screws from the bottom of the box (these can be found behind the glands) and the wall mounting plate can be removed from the back (**fig.2 & fig.3**).
- 3 Making sure the fixing plate is square with the screw fixings at the bottom, mark the four fixings points. This should be at a comfortable height to operate the push buttons but out of the easy reach of children - between 1500mm from the floor and 300mm down from the roof/ceiling is recommended. Drill and then secure in place (**fig.4**).
- 4 Hook the top of the receiver box on to the wall fixing plate with the cable glands pointing downwards and secure with the two screws.
- 5 If you have a safety brake with a cable then run the two core cable from the safety brake end across to the same end as the receiver box, making sure to securely fix the cable out of the way of the working mechanism.
- 6 Remove the green 5 terminal block in the bottom left corner (**fig.5**) and you will see letters printed on the circuit board.
- 7 **Wiring as follows:**

#### Mains Power:

N – Neutral / Blue 3 core cable (power)

L – Live / Brown 3 core cable (power)

Earth – connect power cable directly to earth from motor in plastic connector.

#### Motor:

U – Brown 4 core cable (motor)

V – Black 4 core cable (motor)

Earth - connect motor cable directly to earth from motor in plastic connector.

W[c] – Blue 4 core cable (motor)

#### Safety Brake:

Remove black link wire from far right hand side stop terminal, and replace with Brown (2 core cable) and Blue (2 core cable), one each side (**fig.5**).



fig.1



fig.2



fig.3

- 8 Before plugging in, check to make sure that there are no bare cables touching and all wires are securely fixed.
- 9 There is a four dipswitch block at the bottom middle of the receiver board (usually blue or red). Slide dipswitch 2 into the up position (**fig.5**).



fig.4

## DIRECTION OF ROTATION

- 1 Press and hold the bottom close button on the receiver board (**fig.5**). This is located at the bottom right corner of the yellow transformer and the barrel should start turning in the downwards direction. Should the barrel be turning in the upward direction, swap motor wires black to U and brown to V.

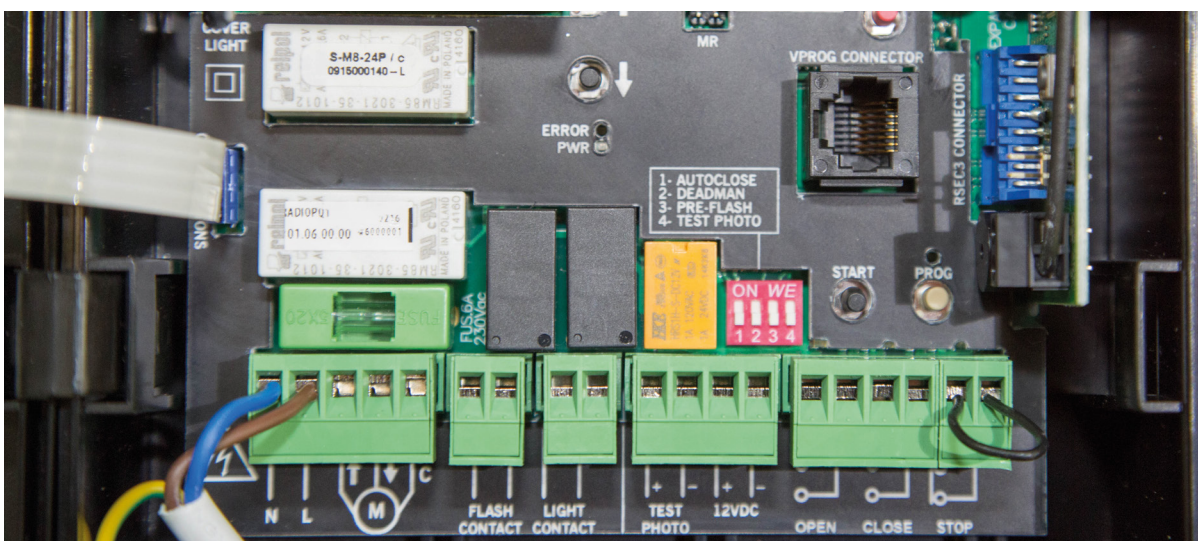


fig.5



## 2. SETTING UP WIRELESS SAFETY EDGE KIT

(RD20X2 OPTICAL SAFETY EDGE)

### PROGRAMMING BASE RAIL UNIT

- 1** The control box is currently in hold to run operation for open and close, if the limits of the motor have not been set then please use the open and close buttons that can be found at the bottom right corner of the yellow transformer (**Fig.6**) to set these limits..
- 2** Once installation is complete, slide back down dip switch '2' in the control panel, this can be found on the four dipswitch block at the bottom middle of the receiver board (usually blue or red) (**fig.6**).
- 3** For access to the base rail unit on the right side (where the writing is), push at the end of the grey cover and slide to the left. This will give access to the board (**fig.7**).
- 4** Remove the plastic tab from the batteries and the LEDs will blink on the safety edge unit.
- 5** Inside the receiver box press and hold the "PROG" button on the receiver card (this is the card plugged onto the board) until you hear a single beep (**fig.9**), then within 5 seconds press and hold the "PROG" button on the wireless safety edge (**fig.8**) and you will hear another beep from the receiver box.
- 6** Wait several seconds until you hear 2 beeps from the receiver box and pairing is complete.

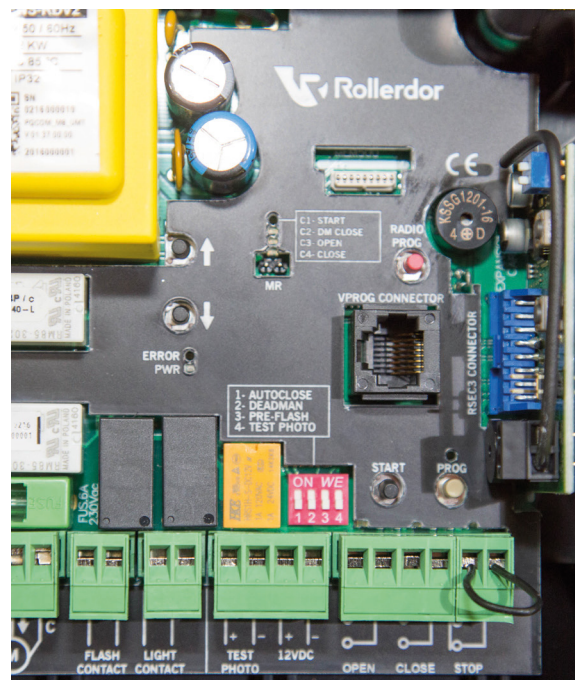


fig.6



fig.7

## PROGRAMMING RUN TIMERS & LIMITS



Please be aware! During set up the motor may reach thermal cut out. If this occurs you will need to wind the curtain down manually to allow air to pass over the barrel and cool. This can take up to 45 mins.

If the curtain stops (due to thermal cut out), or once completed the error light is on or flashing, then you will need to clear the memory of the base rail unit and handsets before restarting the whole procedure (**refer to page 7 to clear memory**).

- 1** The curtain must be all the way down in the closed position before starting.
- 2** Press and hold the white "PROG" button on the main receiver board for 2 seconds until the red LED lights up and stays on, this is next to the start button (**fig.10**).
- 3** Press & release the "START" button (next to "PROG" button) (**fig.10**) the receiver box will now start a setup process.
  - (1)** The curtain will open slightly and close again.
  - (2)** The curtain will then open and fully stop.
  - (3)** Press & release the "START" button again (**fig.10**) and the curtain will close fully.
  - (4)** Wait for several seconds and the "PROG" light will turn off.
- 4** Run timer setup is complete.

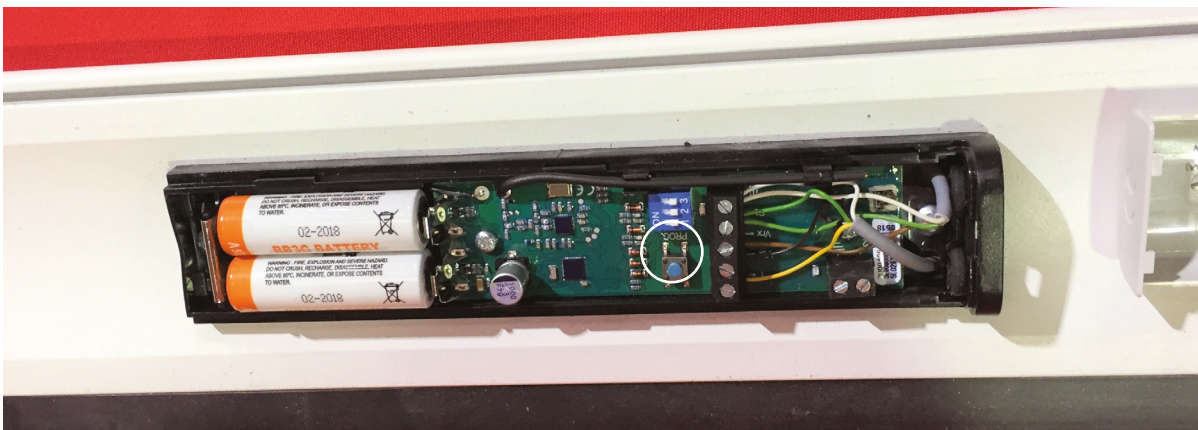


fig.8

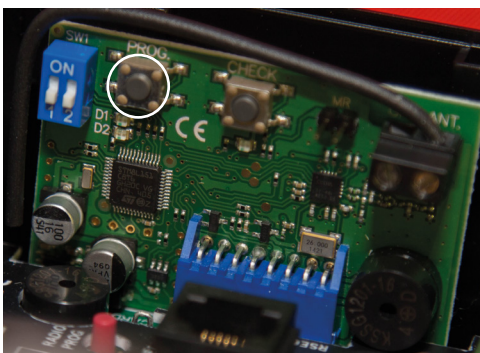


fig.9

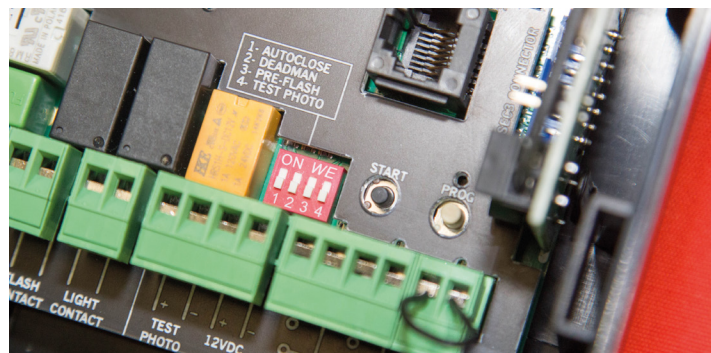


fig.10



## 3. PROGRAMMING OF REMOTE CONTROL HANDSETS

### SEQUENTIAL OPERATION

- 1 Press and hold the “RADIO PROG” button (fig.11A). You will hear a beep and the red LED alongside “C1” will illuminated (fig.11B). Then release the “RADIO PROG” button.
- 2 Press top button on handset (fig.11A). The panel will beep to confirm it has accepted. Repeat for all other handsets.
- 3 Leave for several seconds and the receiver box will beep twice to confirm end of programming.

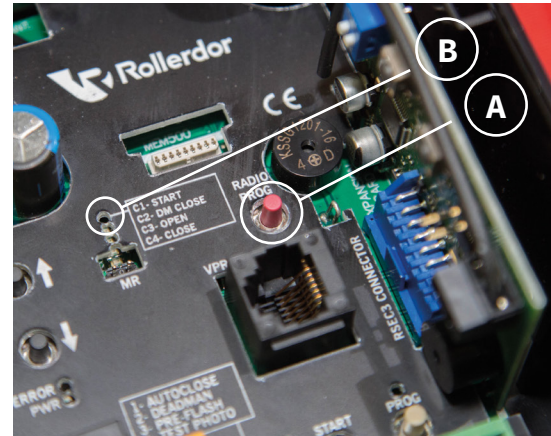


fig.11

### INDEPENDENT BUTTON OPERATION

- 1 Press and hold the “RADIO PROG” button (fig.11A) until you hear 3 beeps and the red LED alongside “C3” will illuminate then release the button.
- 2 Press top button on handset (fig.12A). The panel will beep to confirm it has accepted. Repeat for all other handsets.
- 3 Leave for several seconds and the receiver box will beep twice to confirm end of programming.
- 4 Press and hold the “RADIO PROG” button (fig.11A) until you hear 4 beeps and the red LED alongside “C4” will illuminate then release the button.
- 5 Press bottom button on handset (fig.12B). The panel will beep to confirm it has accepted. Repeat for all other handsets.
- 6 Leave for several seconds and the receiver box will beep twice to confirm end of programming.

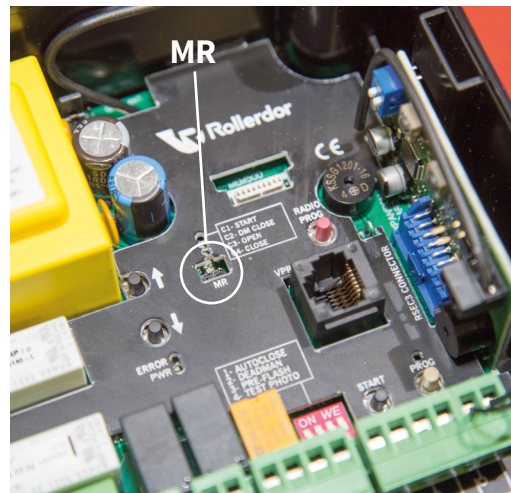


fig.12

## CLEARING MEMORY OF REMOTE CONTROL HANDSETS

- 1 Press and hold the “RADIO PROG” button (**fig.13**). You will hear a beep and the red LED alongside “C1” will illuminate.
- 2 Insert screwdriver between the 2 pin terminals on the board (MR) to bridge between them (**fig.13**).
- 3 Press and hold the “RADIO PROG” button (**fig.13**). The panel will beep 8 times and then go into 1 continuous beep. As soon as you hear this, release “RADIO PROG” button and then remove screwdriver from terminals and board will stop beeping.
- 4 Leave for several seconds and the receiver box will beep twice to confirm end of programming.

**To clear memory you will need a small screwdriver.**

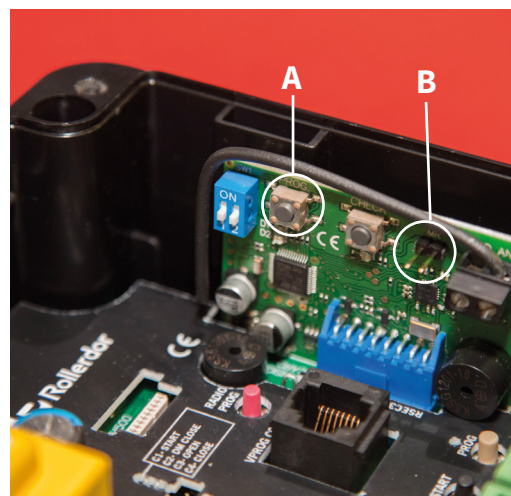


**fig.13**

## CLEARING MEMORY OF BASE RAIL UNIT

- 1 Press and hold the “PROG” button (**fig.14A**) on the receiver card (this is the card plugged onto the board) until you hear a single beep.
- 2 Insert screwdriver between the 2 terminals on the board (forks below “PROG” button) to bridge between them (**fig.14B**).
- 3 Press and hold the “PROG” button, the panel will beep 8 times and then go into 1 continuous beep. As soon as you hear this release “PROG” button and then remove screwdriver from terminals and board will stop beeping.
- 4 Leave for several seconds and the receiver box will beep twice to confirm end of programming.

**To clear memory you will need a small screwdriver.**



**fig.14**





## WIRELESS KEY PAD

### INSTALLATION

Fit directly to the wall using the 2 fixings making sure it is level and square with the writing at the bottom.

### PROGRAMMING CODES

#### Master Code:

- 1** Press and hold the \* button (fig.18A). For 3 seconds until the LED issues a slow red flashing light.
- 2** Enter the master code (factory issue 12345678) and press OK (fig.18B). The red LED will flash faster.
- 3** Press the \* button (fig.18A) then enter the new master code followed by the \* button. The LED will flash green.
- 4** Enter the new master code again followed by the \* button (fig.18A). The LED will have a permanent green light for 2 seconds then go out. This means it has been programmed. If the second entry doesn't match the first, the LED will flash red and it has not been programmed.

#### Access Code

- 1** Press and hold the \* button (fig.18A) for 3 seconds until the LED issues a slow red flashing light.
- 2** Enter the master code and press OK (fig.18B). The red LED will flash faster.
- 3** Enter your new access code (1 to 8 numbers long) followed by the channel number from 1 to 4 (e.g. 5555 is the number and 1 for the channel so 55551) and press OK (fig.18B).
- 4** The LED will have a permanent green light for 2 seconds then go out. This means it has been programmed. If you wish for more than 1 access code, then it must be programmed to a separate channel otherwise it will just replace the already stored code.

### PROGRAMMING TO RECEIVER BOX

- 1** Press and hold the "RADIO PROG" button (fig.15A). You will hear a beep and the red LED alongside "C1" (fig.15B) will illuminate, then release the "RADIO PROG" button.
- 2** Enter the access code and press OK (fig.18B). The panel will beep to confirm it has accepted the unit.
- 3** Leave for several seconds and the receiver box will beep twice to confirm end of programming.

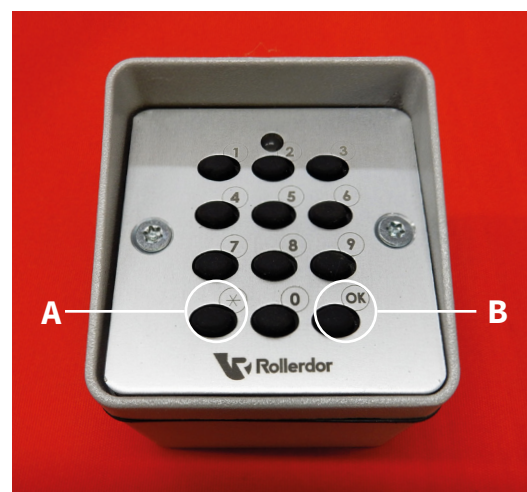


fig.18

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