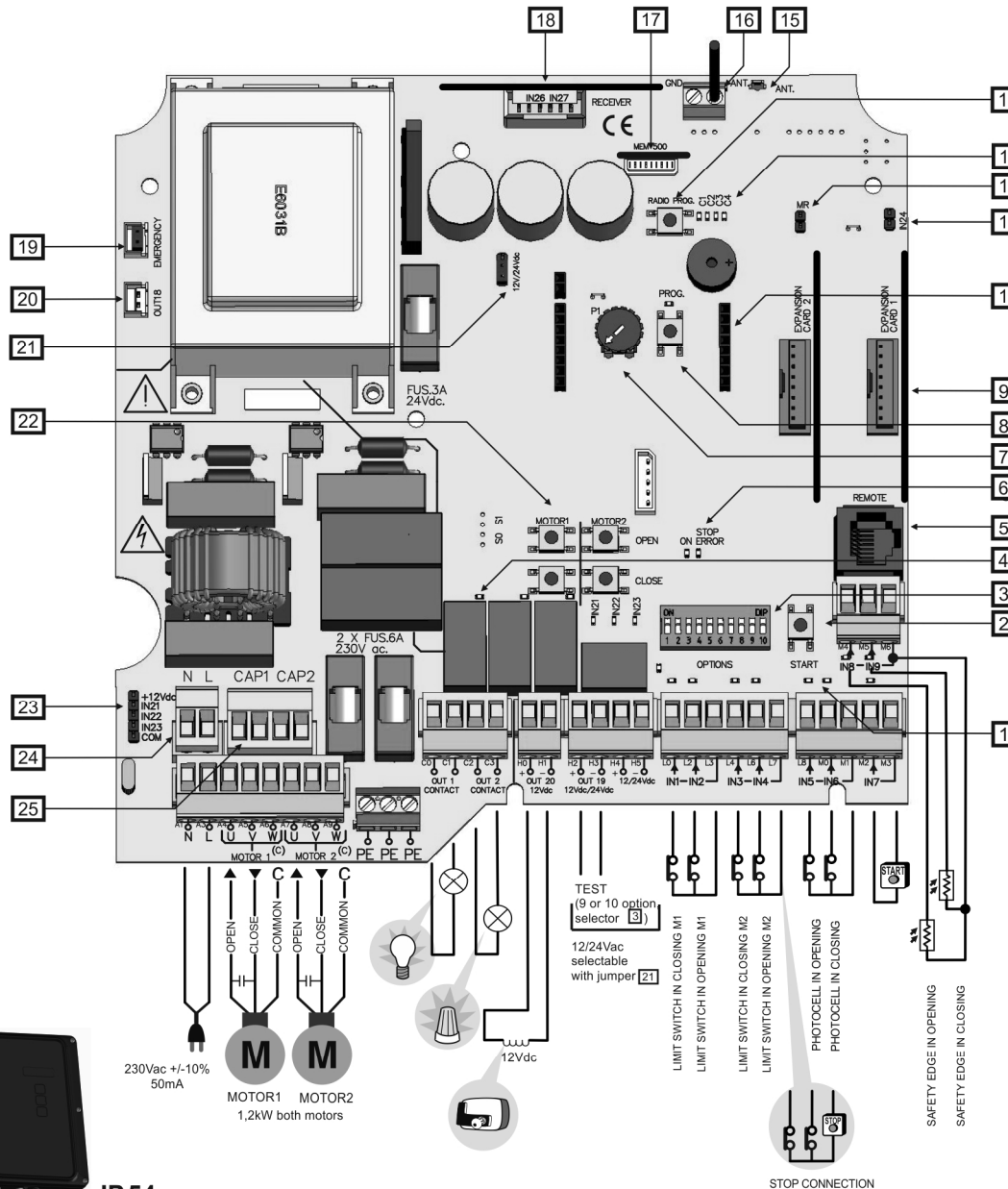


# M22

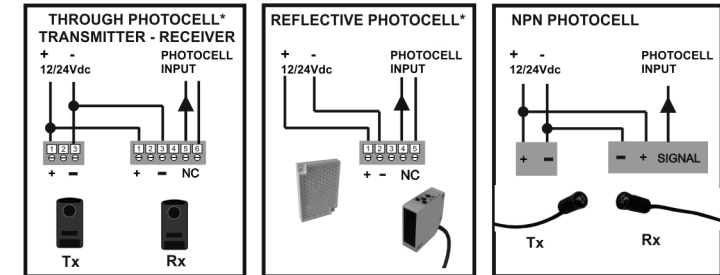
## User's manual

Two motors monophase control panel with soft stop for residential and community use.

- 1 INPUT LEDS  
On = Not connected or activated  
Off = Normal State  
Flashing = See error table
- 2 START BUTTON
- 3 OPTIONS SELECTOR  
(see table)
- 4 OUTPUT LEDS  
On = Operating  
Off = Not operating
- 5 PROGRAMMER TOOL CONNECTOR  
(VERSUS-PROG, V-EXPAND)
- 6 ON & STOP/ERROR LEDS  
On = Power on & Stop/Error detection  
Off = Power off & Normal state
- 7 ADJUSTABLE REGULATOR  
(Motor Power)
- 8 PROGRAMMING BUTTON  
DOOR MANEUVER  
(Maximum time: 6min)
- 9 EXPANSION CARD CONNECTOR  
(TL-CARD-V, RSEC3)
- 10 VERSUS LCD CONNECTOR  
(V-DPLAY, V-POT, V-LCD)
- 11 TAMPER CONNECTOR
- 12 MR SELECTOR  
(Reset user receiver)
- 13 RADIO CHANNELS LEDS  
On = Programming/Activation channel  
Off = Normal state
- 14 RADIO PROG BUTTON  
868,35MHz Receiver, 27 Users
- 15 ANTENNA CONNECTOR  
Receiver 433MHz
- 16 ANTENNA CONNECTOR  
INCORPORATED RECEIVER
- 17 500 CODES MEMORY CARD  
CONNECTOR (MEM500)
- 18 PLUG-IN RECEIVER  
CONNECTOR
- 19 EMERGENCY STOP  
CONNECTOR (jumper if not used)
- 20 FRONT BOX COURTESY  
LIGHT CONNECTOR
- 21 12/24Vdc SELECTOR  
(12/24Vdc output selector;  
without jumper 0V)
- 22 OPEN/CLOSE BUTTONS  
FOR EACH MOTOR
- 23 FRONT BOX BUTTONS  
CONNECTOR
- 24 230Vac OUTPUT
- 25 MOTOR CAPACITOR  
CONNECTOR

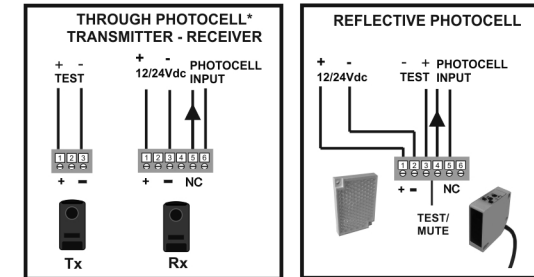


### PHOTOCELL CONNECTION EXAMPLE



\* If autotest not connected, perform a maintenance of the photocells every 6 months.

### CONNECTION WITH AUTOTEST EXAMPLE



### OPERATION

**SAFETY IN OPENING:** Stops and reverse the movement 1s.

**SAFETY IN CLOSING:** Stops and reverse the movement totally. If AUTOCLOSE on, at the end of autoclose time the door will close. If more than 10 consecutive inversions are done, then no autoclose is performed.

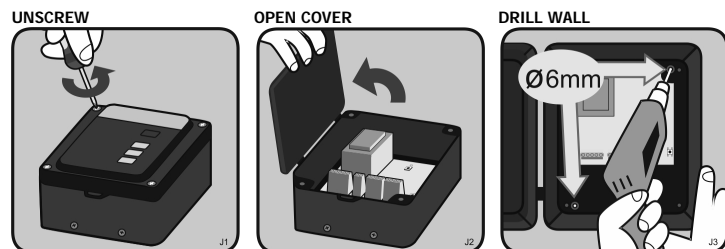
**MOTOR POWER:** If motor power is regulated, it is necessary to program again the control panel.

### OPTIONS SELECTOR

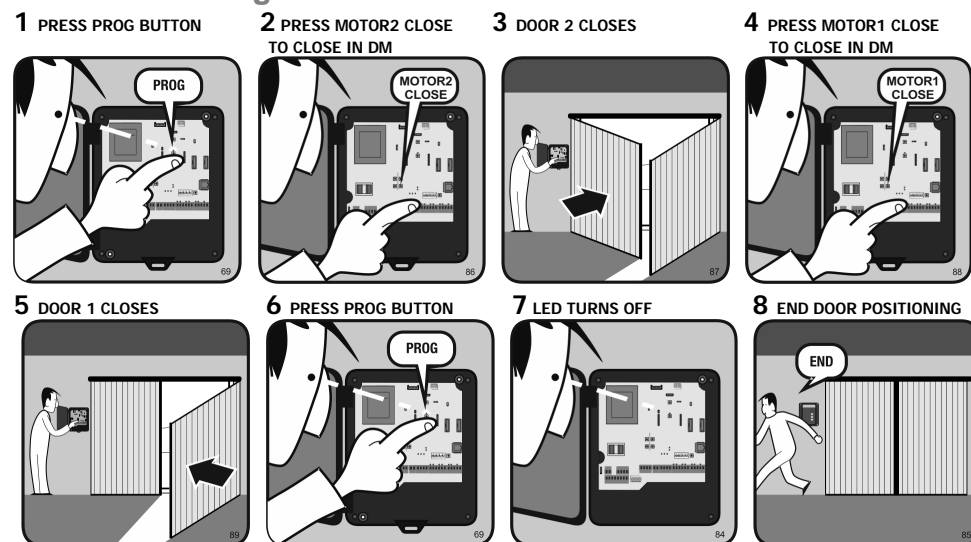
3		OFF	ON
		1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10
1	AUTOCLOSE	Do not close automatically	Close automatically
2	SLOW SPEED	Normal speed in all the manoeuvre	Slow speed available at the end of the manoeuvre
3	PRE-FLASH	Pre-flash disabled	3s pre-flash enabled
4	REVERSE STRIKE	Normal opening	Performs a reverse strike 2s before opening the door
5	CLOSE BY CSEG	The safety contact performs its formal function	The safety contact operates as a close button once the vehicle has passed
6	TWO MOTORS MODE	One motor (M1) operating	Both motors operating (M1 and M2)
7	NO REVERSE AT OPEN	Start button performs an stop at opening	Start button opens until total opening
8	ELECTRO	The electrolock is activated 2s before opening the door + 1s during the opening	The electrolock is disabled
9	TEST CSEG OPEN	Test safety contact in opening disabled	Test safety contact in opening enabled
10	TEST CSEG CLOSE	Test safety contact in closing disabled	Test safety contact in closing enabled

## Starting up

### Installation without support



### Door Positioning



#### Considerations:

- In step 2, if MOTOR2 CLOSE is pressed and the door opens, reverse the motor 2 wires, and return to step 1.
- In step 4, if MOTOR1 CLOSE is pressed and the door opens, reverse the motor 1 wires, and return to step 1.

## Maintenance

### Important safety instructions for installation



**Disconnect the power supply whenever you proceed to the installation or repair of the control panel.**

- **The panel must be installed while the power is disconnected.**
- Before installing the panel, remove all unnecessary ropes or chains and disable any equipment such as locks that is not necessary for the automatic operation.
- Before installing the panel, check that the door is in good mechanical condition, correctly balanced and that it opens and closes correctly.
- Install the manual unlocking device at a height lower than 1.8m.
- Install any permanent control next to the door away from any moving part and at a minimum height of 1.5m.
- For permanently connected equipment, an easily accessible power disconnection device must be incorporated into the wiring. It is recommended that this be of the emergency switch type.
- If the control panel is supplied without emergency stop button, this will be incorporated in the installation, connecting it to the STOP terminal.
- For correct use of the security edge, this must never be activated when the door is fully closed. It is wise to install the ends of run before activating the edge.
- This equipment can only be handled by a specialist fitter, by maintenance staff or by a suitably trained operator.
- To connect the power supply and motor wiring, 2.5 mm<sup>2</sup> section terminals must be used.
- **Use protective goggles when handling the equipment.**
- Fuses must only be handled when the appliance is disconnected from the mains.
- The instructions for using this equipment must remain in the possession of the user.
- If the control panel is password protected, it must be given to the owner.
- European door normative EN 12453 and EN 12445 specify the following minimum protection and door safety levels:
  - for single-family dwellings, prevent the door from making contact with any object or limit the force of contact (e.g. safety band), and in the case of automatic closing, it is necessary to complement this with a presence detector (e.g. photocell).
  - for communal and public installations, prevent the door from making contact with any object or limit the force of contact (e.g. safety band), and complement this with a presence detector (e.g. Photocell).

### Important safety instructions for use

- Do not allow children to play with the door controls.
- Keep the remote controls out of the reach of children.
- Watch the door movement and keep people away until the door is fully open or closed.
- Precaution when operating the manual unlocking device, as the door may suddenly fall due to the bad condition of the springs or door unbalance. Details on how to use the manual unlocking device must be provided by the manufacturer or the device installer.
- Examine the installation frequently, especially the cables, springs and supports, to detect signs of wear, damage or unbalance. Do not use the door if repair work or adjustments are required, as this may cause damage.

### Use of the equipment

Designed for automation of garage doors, in accordance with the general description. Not guaranteed for other uses. The manufacturer reserves the right to alter equipment specifications without prior notification.

**JCM TECHNOLOGIES** declares herewith that the product **M22** complies with the relevant fundamental requirements of the Machine Directive 2006/42/EC, as well as with those of the Electromagnetic Compatibility 2004/108/EC and Low Voltage 2006/95/EEC, insofar as the product is used correctly.

### EC declaration of conformity

See website: [www.jcm-tech.com](http://www.jcm-tech.com)



# Mantenimiento

	Error	ERROR Led	Description	Solution
<b>Er-09</b>	PROG TIME MAX	10 slow flashes 9 quick flashes	Programming time maximum	Program a maneuver below the maximum allowed time
<b>Er-12</b>	S.EDGE.CL ERROR	1 slow flashes 2 quick flashes	Closing safety edge error	Verify the security edge band connections when closing
<b>Er-13</b>	S.EDGE.OP ERROR	1 slow flashes 3 quick flashes	Opening safety edge error	Verify the security edge band connections when opening
<b>Er-19</b>	TEST.CL ERROR	1 slow flashes 9 quick flashes	Closing auto test error	Verify that the security device connected to the security connection when closing is in good conditions and correctly installed
<b>Er-20</b>	TEST.OP ERROR	2 slow flashes 10 quick flashes	Opening auto test error	Verify that the security device connected to the security connection when opening is in good conditions and correctly installed
<b>Er-21</b>	RSENS NC WHEN PROG	2 slow flashes 1 quick flashes	Control panel programmed without RSENS connected	Connect the RSEC card and program the control panel again
<b>Er-22</b>	RSENS NOT FOUND	2 slow flashes 2 quick flashes	Control panel programmed with RSENS connected and now it is not connected	Program the control panel again without RSEC or connect the RSEC again that was programmed to the control panel previously
<b>Er-23</b>	RSENS PROG ERROR	2 slow flashes 3 quick flashes	RSENS programming error, are R and T paired?	Program the transmitter RSENS to the RSEC receiver card
<b>Er-26</b>	STOP	2 slow flashes 6 quick flashes	Control panel stopped by an STOP	Verify that the STOP input has been activated
<b>Er-29</b>	DOOR LOCKED RSENS	2 slow flashes 9 quick flashes	Closed door latch	Open the door's latch before the opening man oeuvre
<b>Er-30</b>	RBAND NOT FOUND	3 slow flashes 10 quick flashes	Control panel programmed with RBAND connected and now it is not connected	Program the control panel again without using RBAND or connect the RBAND that was connected to the control panel previously
<b>Er-31</b>	RBAND NC WHEN PROG	3 slow flashes 1 quick flashes	Control panel not programmed with RBAND connected	Connect the RBAND card and program the control panel again
<b>Er-32</b>	FC NOT LEARN	3 slow flashes 2 quick flashes	End of course learning error	Verify the intern motor limit switches
<b>Er-33</b>	ERROR SYNC RSENS	3 slow flashes 3 quick flashes	Synchronization error between the receiver and the transmitter	Program the transmitter RSENS to the RSEC receiver card
<b>Er-36</b>	RSENS RADIO ERROR	3 slow flashes 6 quick flashes	Detection through opening current	Verify the batteries of the RSENS emitter id they are charged, verify the radio signal with the Check function
<b>Er-39</b>	CTROL PANEL BLOCKED	3 slow flashes 9 quick flashes	Control panel cannot enter programming because it is blocked.	Enter the password with V-DPLAY or VERSUS-PROG for unlocking the control panel.

# Starting up

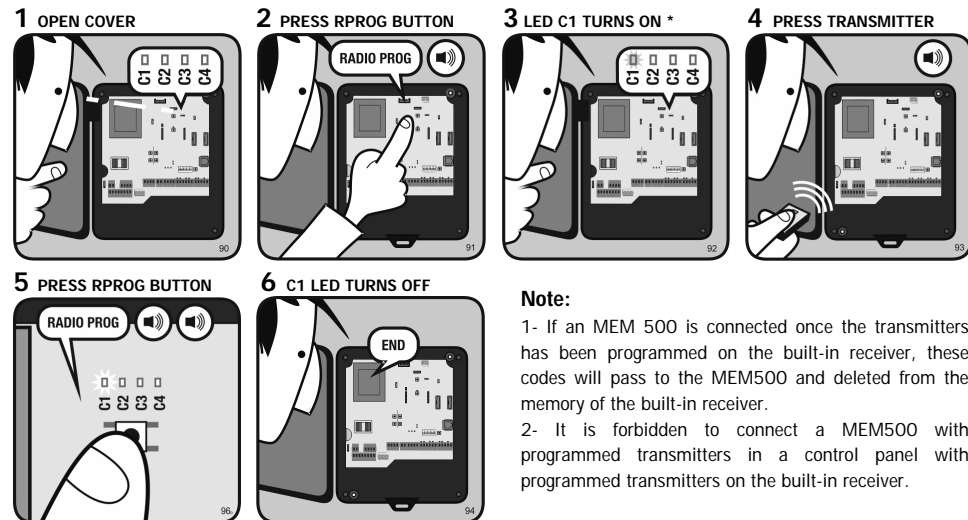
## Radio channels

Built-in receiver 868 MHz, with memory for 27 users. Plug-in card with 500 users available.

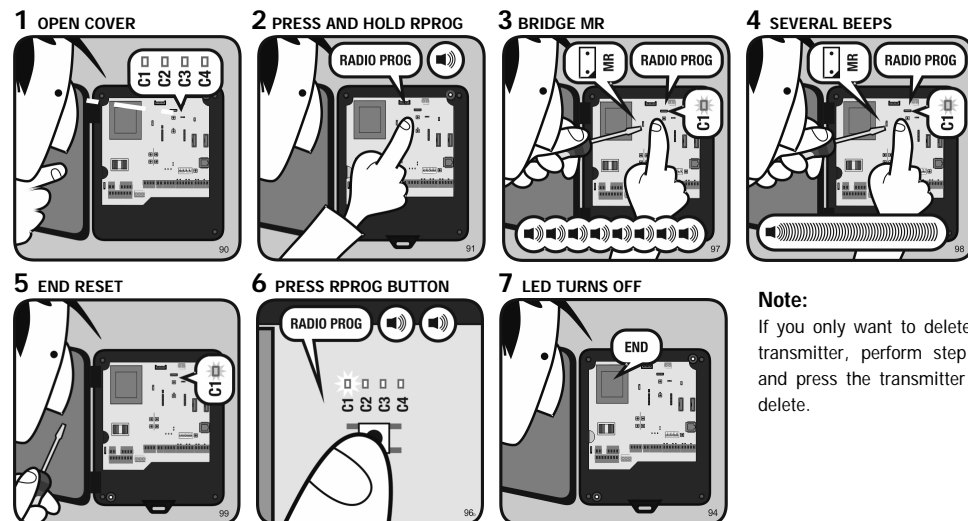
Channel	Function (by default)	
<b>C1</b>	Start	Open - Stop - Close - Open
<b>C2</b>	Pedestrian	It performs the same function as the Start button but only for a sheet.
<b>C3</b>	Open	Open. If you press when the door is closing, stops and reverses movement.
<b>C4</b>	Close	Close. If you press when the door is opening, stops the movement.

## Radio programming

Select the desired program by pressing RADIO PROG button until the LED of the desired channel turns on. The button pressed on the transmitter will be associated with the selected channel and will perform its function.



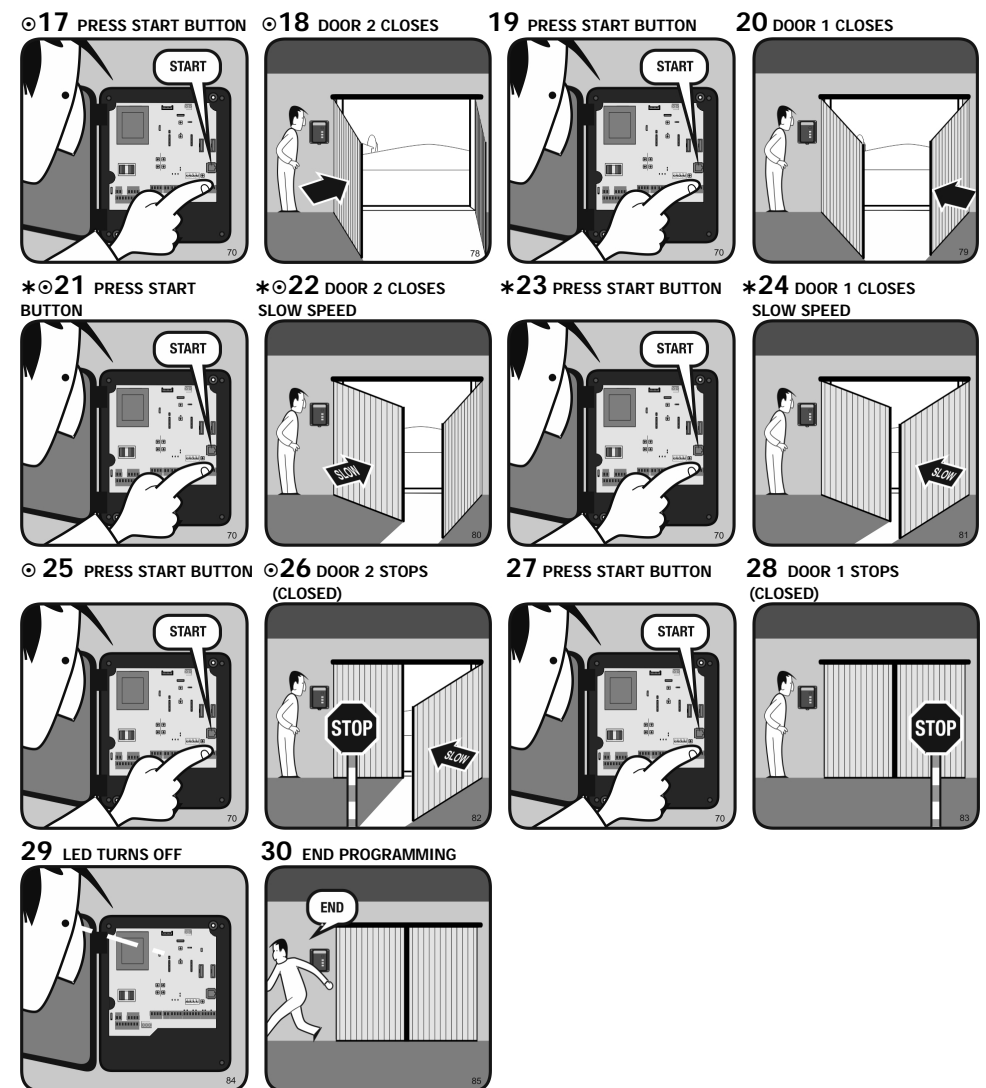
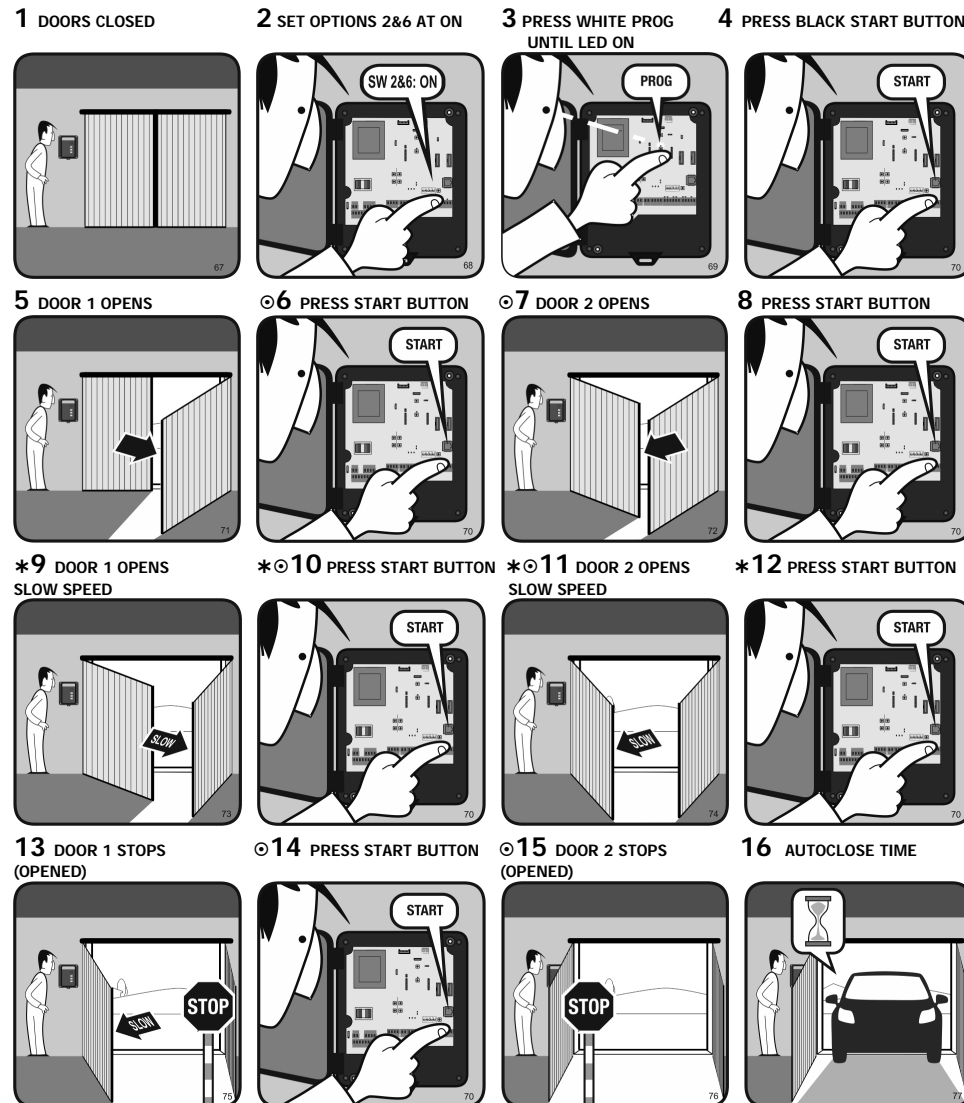
## Reset of transmitters codes



# Starting up

## Manual programming with two motors with slow speed

To program the door maneuver is necessary to use the PROG button to start programming and the START button to perform each step in the sequence.



## Manual programming with two motors without slow speed

In step 2, set only the 6 option at ON.

Follow the above sequence without performing the steps marked with '\*'.

## Manual programming with one motor with slow speed

In step 2, set only the 2 option at ON.

Follow the above sequence without performing the steps marked with '⊙'.

## Manual programming with one motor without slow speed

In step 2, set options 2 and 6 at OFF.

Follow the above sequence without performing the steps marked with '\* and/or ⊙'.