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End user guide

KEEP THIS MANUAL IN A SAFE PLACE

- Do not allow children to play with the automated garage door. Keep the opener's controls away from children
- Keep watching on the door's movement and do not approach to the door until it's completely open or has come to a complete stop.
- Check regularly the automation operating condition; in particular make sure that cables, springs and fixing brackets do not show signs of wear, damages or imbalance.
- Do not use the automation if repairing or maintenance is needed. Incorrect assembly or improper use may cause serious injury!

A. COMPONENTS LIST

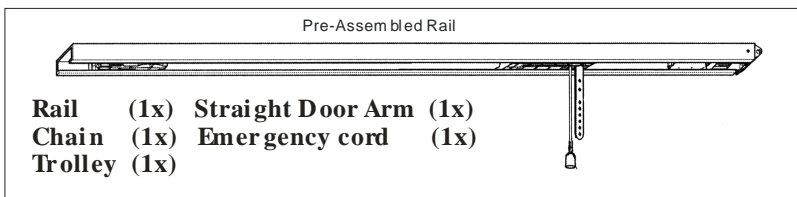
The automation kit consists of two packs, as shown in the tables below:

Garage door opener pack

Description	Q.ty
Gearmotor with incorporated control unit	1
Instructions manual	1
Radio transmitter	1
Bent door arm	1
Mounting bracket	2
Support bracket	1
“U” bracket	3
Front wall fixing bracket	1
Door fixing bracket	1
Hexagon-head driving screw 6x15	8
Screw with hexagonal nut 6x80	1
Inserted pin 8x25	1
Cotter pin 3x20	1
Pinion	1
Rawlplug 6x80	6
Screw with hexagonal nut 8x20	4

Rail pack

Description	Q.ty
Rail (1m)	3
Straight door bracket	1
Chain	1
Emergency release rope	1
Trolley	1



B. RAIL ASSEMBLY

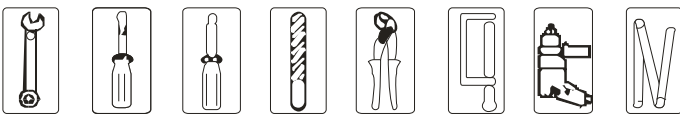
- 1) Open the rail pack
- 2) Unfold the rail on the floor as shown in the picture
- 3) Join the rail parts together through the provided connectors
- 4) Tighten the nut with a Ø13 sleeve
- 5) Adjust distance as shown in the picture

C. INSTALLATION

WARNING: FOLLOW THE MOUNTING INSTRUCTIONS CAREFULLY. A FAULTY INSTALLATION MAY CAUSE SERIOUS INJURIES!

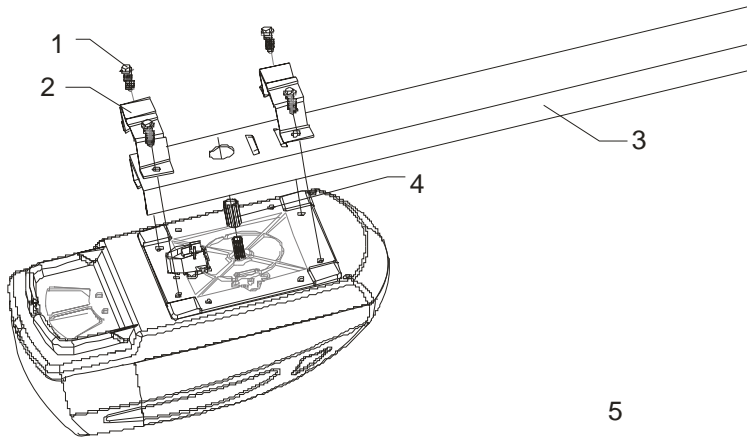
- Before proceeding with the installation, remove all unnecessary packages and disable any unused equipment
- Make sure that the door can be easily opened and closed manually and check that it is in good mechanical condition and properly balanced
- Fix the garage door opener so that the emergency release rope can be reached at an height lower than 1,8m from the floor
- Install any automation system permanent controls within the door sight range but far enough from any moving part and at minimum height of 1,5m
- Affix, in outstanding position or near the permanently mounted controls, warning signals indicating the risk of being caught in the door movement
- Indicate clearly the emergency release system
- Once you have completed the installation, make sure that the mechanical structure is properly adjusted and check that door reverses the closing movement when detecting any obstacle higher than 40cm from the floor
- Make sure that the door movement does not hinder public roads or footpaths
- Make sure that the garage door opener stops any opening moving when a minimum load of 20 Kg is fixed centrally on the bottom edge of the door

REQUIRED TOOLS



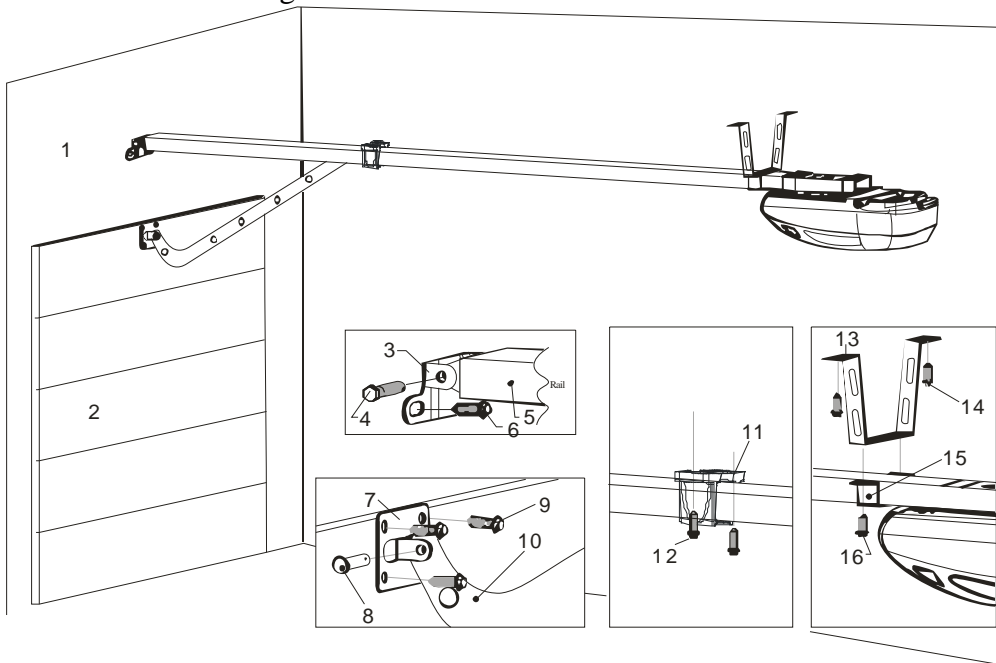
C1. GEARMOTOR ASSEMBLY TO THE RAIL

- 1 Driving screws 6x15
- 2 "U" bracket
- 3 Rail
- 4 Pinion



C2. GEARMOTOR AND RAIL FIXING

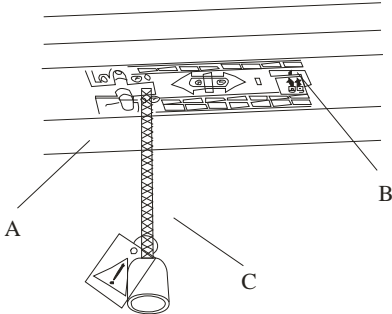
- | | | | |
|---|---------------------------|----|--------------------|
| 1 | Front wall | 8 | Inserted pin 8x25 |
| 2 | Door | 9 | Driving screw 6x15 |
| 3 | Front wall fixing bracket | 10 | Bent door arm |
| 4 | Screw 6x80 | 11 | Support bracket |
| 5 | Rail | 12 | Screw 8x20 |
| 6 | Rawlplug | 13 | "U" bracket |
| 7 | Door fixing bracket | 14 | Screw 8x20 |



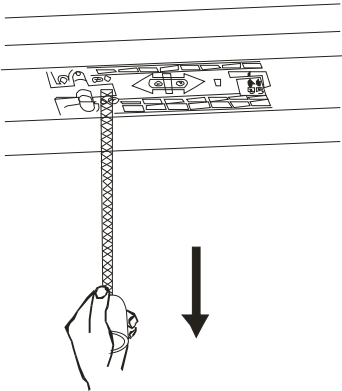
C3. EMERGENCY RELEASE

IN CASE OF POWER FAILURE

1. If door is CLOSED: Pull the rope to release the trolley and easily uplift the door



2. If door is OPEN: Pull the rope once more to manually close the door



WHEN POWER RECOVERS

Give a start impulse to the garage door opener through the radio transmitter or through a permanently mounted control: the trolley clutch will be re-engaged automatically.

D. GEARMOTOR AND CONTROL UNIT

Courtesy light
Key for radio transmitter coding
Operating menu key
Display
Commissioning key
Commissioning key

Door control key

D1 MAIN FEATURES

<u>Door operating</u>	The start of the open-stop-close-stop cycle can be given by single impulse of the radio transmitter. Courtesy lamp automatically lights on and it lights off in 3 minutes
<u>Motor</u>	Control unit's soft-start and soft-stop functions assure maximum noiselessness and long lasting service
<u>Self Diagnosis</u>	The digital display on the garage door opener allows operational monitoring and easy troubleshooting L= Normal F=Interrupted H=Failure in reading A=Photocells status
<u>Alert function</u>	If the door stays open for more than 10minutes an alert sound can be heard. The alarm automatically stops when the door is re-closed
<u>Power failure</u>	The door can be open manually by pulling down on the emergency release rope
<u>Accessory devices</u>	A photocell connection is available on the control unit
<u>Automatic closing</u>	Automatic closing time can be set from 30 to 240 seconds
<u>2000 cycles alarm</u>	When the garage door opener has run 2000 cycles, an alarm can be heard to remind the user to perform the required maintenance

D2 TECHNICAL FEATURES

MODEL & RECOMMENDED USE

Model	Volts	Door size	Working temperature
LIBRA	180-240	<=10	-20° - 50°C
LIBRA Plus	180-240	<=16	-20° - 50°C

GARAGE DOOR OPENER TECHNICAL FEATURES

	LIBRA	LIBRA Plus
Motor Power	100W	150W
Stand-by mode	4W when the motor and the light are off	
Pulling force	700N	1100N
Motor power supply	24V dc	
Courtesy light	25W (1x); E14	
Opening speed	11cm/sec.	
Fuse model	Power fuse 1:2,5A	Light fuse 2:2,5A
Radio transmitting frequency	433Mhz	
Driving system	Chain	

RAIL MODELS

Model	Total length	Rail stroke	Door height in opening
SK-3000	3020mm	2500mm	<2200mm
SK-3300	3320mm	2800mm	<2500mm

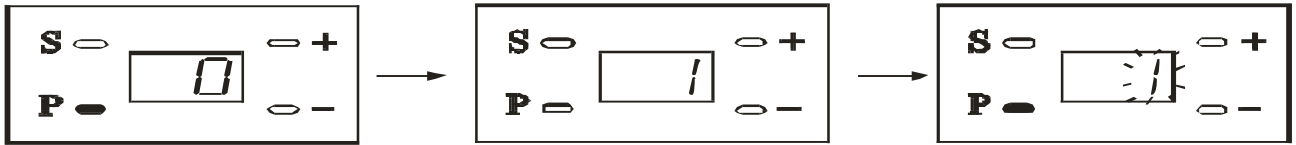
E. COMMISSIONING

PRELIMINARY PROCEDURE

- Lock the clutch and then gently move the door to the closed position
- Power the garage door opener: the courtesy light will turn on, the display shows "0" and the control unit will "beep" once

If no instruction is given for more than 2 minutes the control unit automatically exits from commissioning mode and any previous adjustment will be deleted.

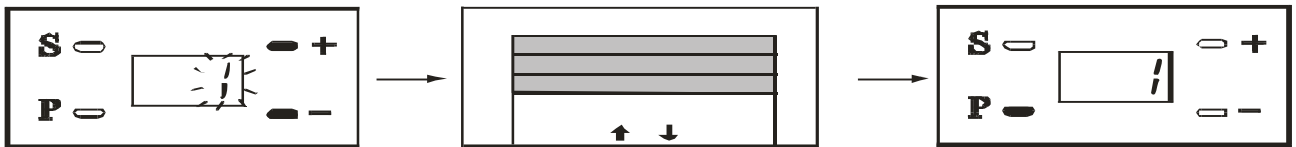
E1. DOOR'S OPENING LIMIT SETTING



Keep pressing "P" key
(about 8 seconds)

Till the control unit beeps once
and the display shows "1"

Press "P" again, "1" must flash



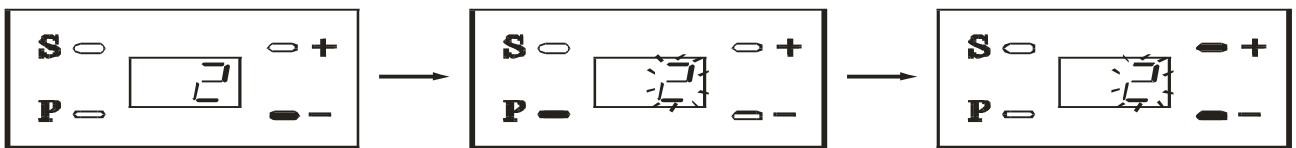
Keep pressing "+" key

Till the door has come to
the complete open position

Then press "P" key again
to save the setting

The saved information has no effect if this procedure is followed to set door's closing limit.

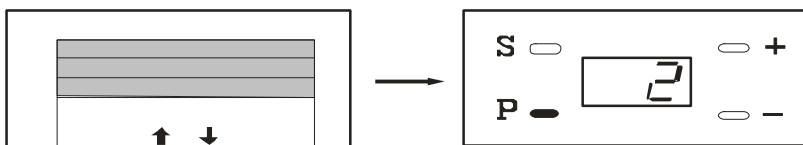
E2. DOOR'S CLOSING LIMIT SETTING



Press "-" key till the display
shows "2"

Press "P", "2" must flash

Keep pressing "-" key

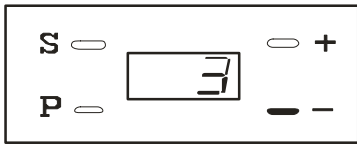


Till the door has come to
the complete closed position

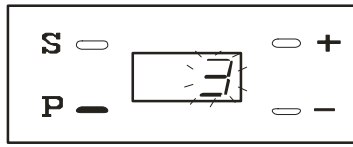
Then press "P" key to save the setting

The saved information has no effect if this procedure is followed to set door's opening limit.

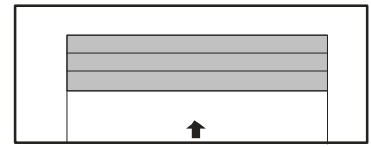
E3. FORCE SETTING



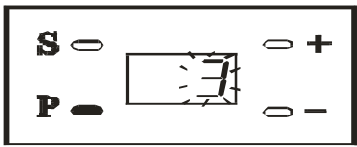
Press “-” key till the display shows “3”



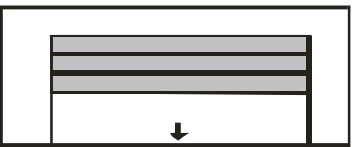
Press “P” , “3” must flash



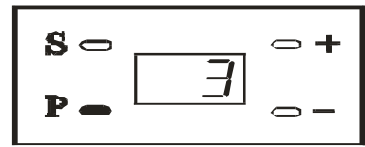
The door automatically opens



When the door stops, press “P” key twice



The door automatically closes



Then press “P” key to save the setting

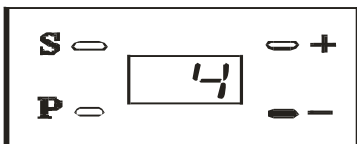
Once the full cycle has finished, you can press “+” key to select menu “1” and then keep pressing “P” key till the display shows “0”. Now the basic commissioning procedure has been completed.

E4. PHOTOCELLS SETTING

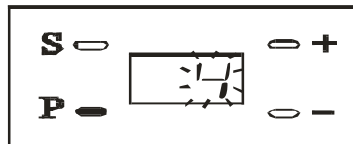
This function is normally inactive from factory settings.

If you don’t want to install any photocell you don’t need to carry out this procedure.

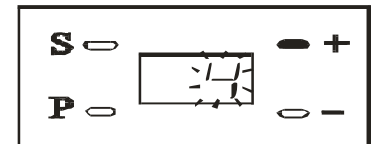
You can skip to the next setting menu by pressing “-“ key twice



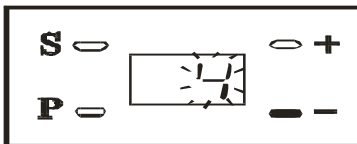
Press “-” key till the display shows “4”



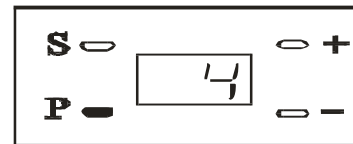
Press “P” , “4” must flash



Press “+” key to activate the photocell function; the control unit will beep once



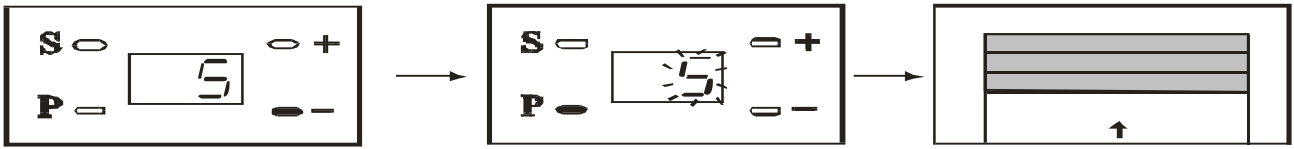
Press “-” key to turn off the photocell function; the control unit will beep twice



Then press “P” key to save the setting

E5. PHOTOCELLS TESTING

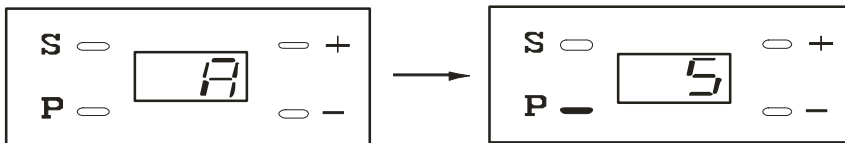
Note: Do not carry out this test if there is no photocell connection.
 Press “-” key twice to skip to the next setting menu



Press “-” key till the display shows “5”

Press “P”, “5” must flash

The door automatically opens

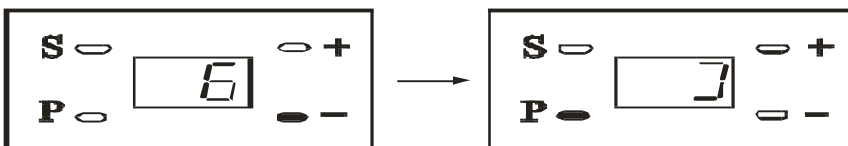


Break the photocells beam.
 If the display shows an “A” then photocells have been connected properly. If “A” does not appear on the display you have to check again the photocells connection

Then press “P” key to save the setting

E6. OBSTACLE DETECTION SETTING

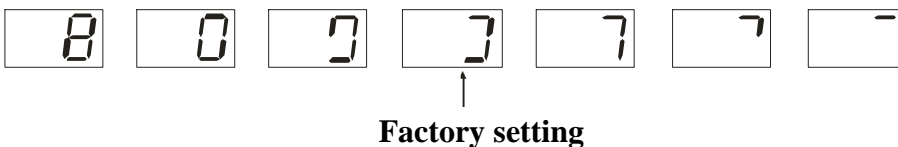
Factory setting is 3, resetting by end user should not be required



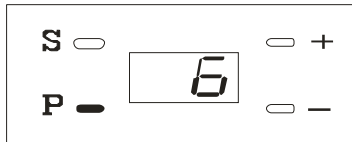
Press “-” key till the display shows “6”

Press “P”, “3” appears on the display

Press “+” key to scroll the menu below and use “-” key to select the desired level



Obstacle detection sensitivity from low to high according to the arrow direction



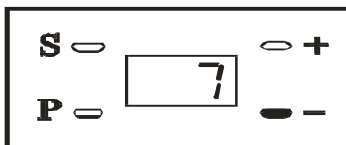
Then press “P” key to save the setting

Setting the obstacle detection sensitivity to high may affect the correct door operating (I.e. the door will reverse the movement)

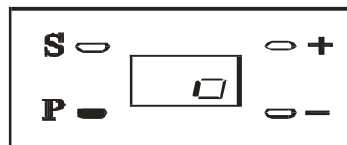
E7. DOOR OPEN ALARM SETTING

The factory setting is “OFF”.

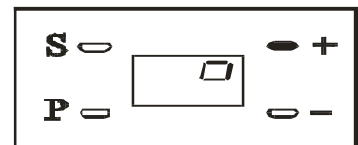
If you don’t want to activate this function, press “-“ key twice to skip to the next setting menu



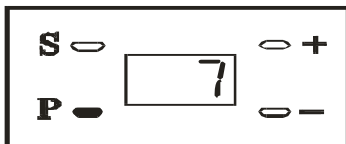
Press “-“ key till the display shows “7”



Press “P”



Then press “+” to set the alarm function ON or press “-“ to set the alarm function OFF



Then press “P” key again to save the setting

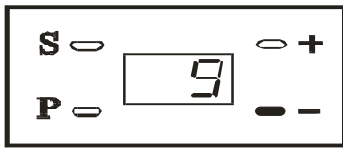
E8.

Setting menu position not used

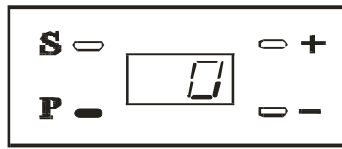
Please press “-“ key twice to skip to the next setting menu

E9. AUTOMATIC CLOSING TIME SETTING

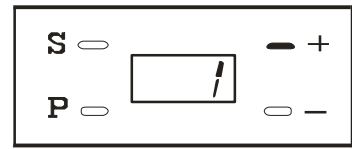
This function is normally OFF from factory settings.



Press “-” key till the display shows “9”

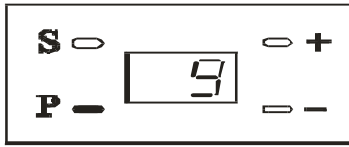
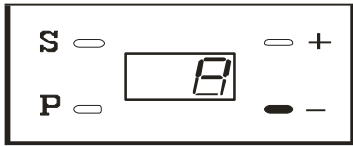
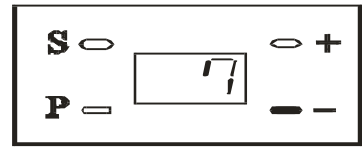
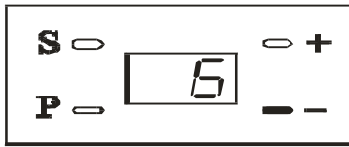
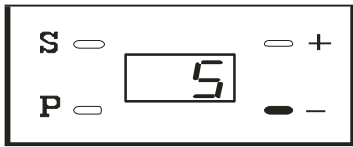
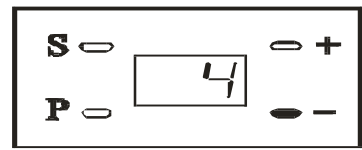
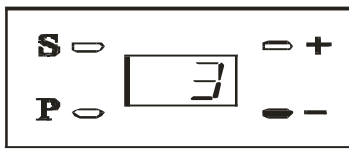
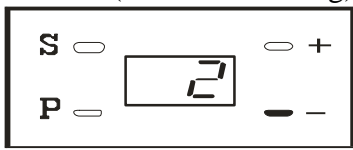


Press “P” key till the display shows “0” to set the automatic closing function ON



Press “+” till the display shows “1” to set the automatic closing time at 30 seconds

Press “+” or “-” to set the automatic closing time according to the following chart: 8 means 240 seconds (maximum setting), 7 means 210 seconds and so on...



Press “P” till the display shows “9” to exit the menu once the automatic closing time has been selected

E10.

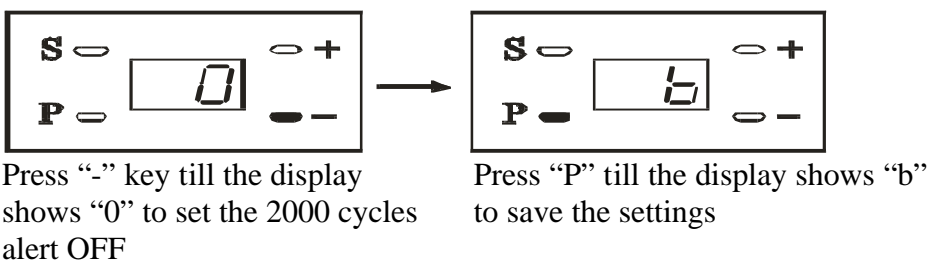
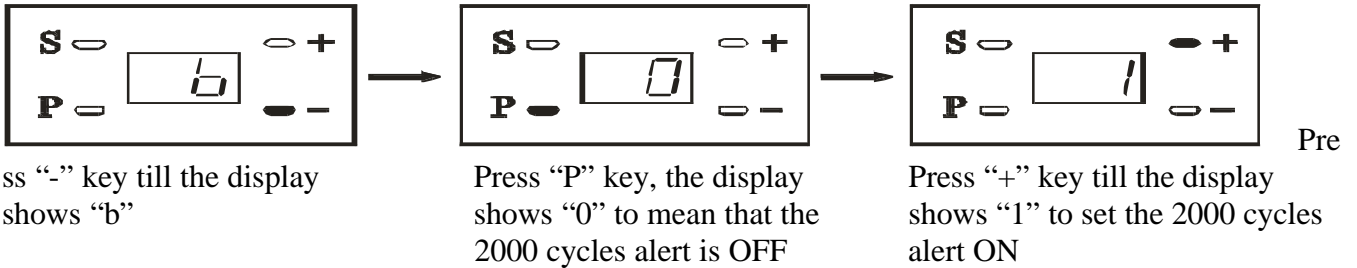
Setting menu position not used

Please press “-” key twice to skip to the next menu

E11. 2000 CYCLES ALERT SETTING

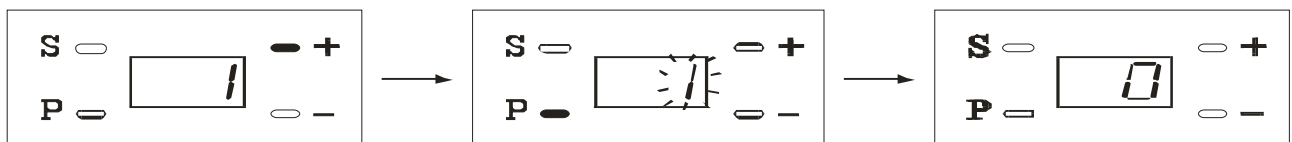
This function is normally OFF from factory settings.

To set a warning sound when the garage door opener reaches 2000 cycles, please carry out the following procedure:



Exit way to alert sound down: cut off the power supply and then turn it on again

E12. COMMISSIONING FINALIZING



Press “+” to select “1”

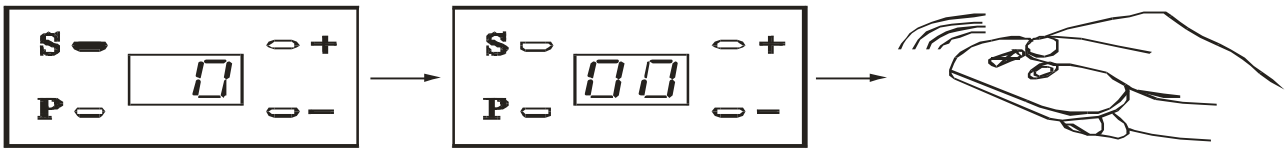
Keep pressing “p” for 8 seconds

The display shows “0” and control unit exit the commissioning mode.

N.B. You must carry out this finalizing procedure, otherwise all the previous settings will be lost.

F. RADIO TRANSMITTERS PROGRAMMING

F1. CODING



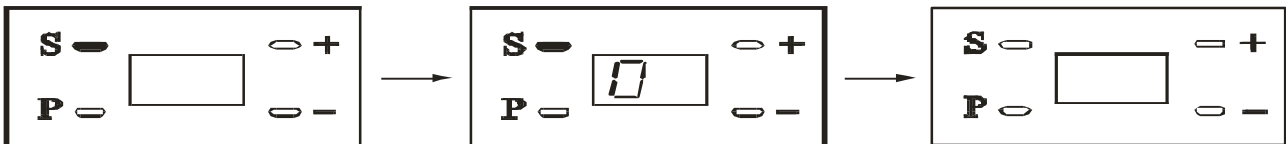
Keep pressing “S“ till a “0” appears in the left side of display

Press any key of the radio transmitter twice before the “0” disappears

Now the coding procedure is completed. Make sure that the radio transmitter has been successfully code by pressing the radio transmitter key: the door should move.

Further radio transmitters can be coded repeating the same procedure

F2. DECODING



Keep pressing “S”

till “0” appears in the left side of display

Hold on pressing “S” till the “0” disappears from the display

All radio transmitters have now been decoded.

To operate again the garage door opener you need to re-code radio transmitters

For security reason all transmitters have to be decoded if one of them went lost.

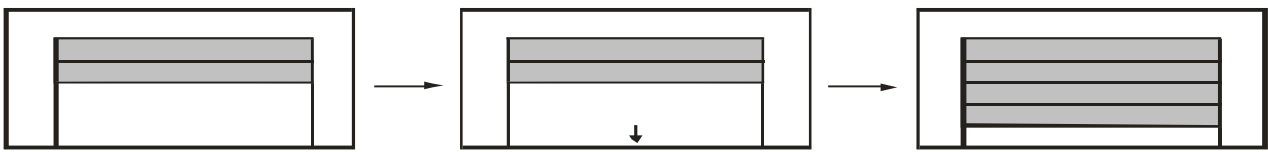
END USER GUIDE

MAINTENANCE

- a) LIBRA and LIBRA Plus garage door openers are environment friendly products and they generally require minimum maintenance care for normal use
- b) Before using the garage door opener make sure that the driving system slides fluently (release the trolley clutch and then open and close the door manually)
- c) Check regularly the correct open and closed position of the door and make sure that springs can correctly lift up the door. Periodically lubricate all moving mechanical parts

EMERGENCY RELEASE

In case of power failure, the door will act as follows:



When the power fails, the doors stops

When the power recovers, give an opening impulse with the radio transmitter: the door closes

The door reach the closed position, as previously set, and stops still

In case of power failure, the door can be opened or closed manually after releasing the trolley clutch (see pag.3)

TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE	POSSIBLE SOLUTION
The garage door opener doesn't work	<ul style="list-style-type: none">- Power is not properly plugged- The fuse is blown	<ul style="list-style-type: none">- Call for a professional installer- Ask a professional to replace the fuse
The door doesn't move	<ul style="list-style-type: none">- No radio transmitter code	<ul style="list-style-type: none">- Code the radio transmitter again- Replace the radio transmitter battery
Radio transmitter range is too short	<ul style="list-style-type: none">- The radio transmitter battery is not powerful enough	<ul style="list-style-type: none">- Replace with a new one of the same model
The chain slides, but the Door doesn't move	<ul style="list-style-type: none">- The trolley clutch may not be properly engaged	<ul style="list-style-type: none">- Engage the trolley clutch (pag.5)
The alert keeps sounding	<ul style="list-style-type: none">- The door has been left open- The opener has reached 2000 cycles	<ul style="list-style-type: none">- Close the door- Cut the power off and then power the garage door opener again
The door doesn't open or close properly	<ul style="list-style-type: none">- Error in setting procedure	<ul style="list-style-type: none">- Perform the setting procedure again
The door doesn't work properly and the display shows "H"	<ul style="list-style-type: none">- Problem of dampness in the control unit	<ul style="list-style-type: none">- Dry the control unit (by a professional)
The door suddenly stops or bounces and the display shows "F"	<ul style="list-style-type: none">- The pulling spring is distorted- The door finds some obstacle	<ul style="list-style-type: none">- Ask a professional to repair the spring- Remove the obstacle or adjust the obstacle detection settings till the "F" disappear from the display
When the garage door opener is working a grating sound can be heard	<ul style="list-style-type: none">- Lack of lubricant between the rail and the trolley clutch	<ul style="list-style-type: none">- Add a suitable quantity of lubricant between the rail and the trolley clutch
Chain has come loose and noisy	<ul style="list-style-type: none">- Looseness of the chain because it has been used for long time without suitable lubricant	<ul style="list-style-type: none">- Properly fasten the bolt on the spring put the chain in the correct position and lubricate it