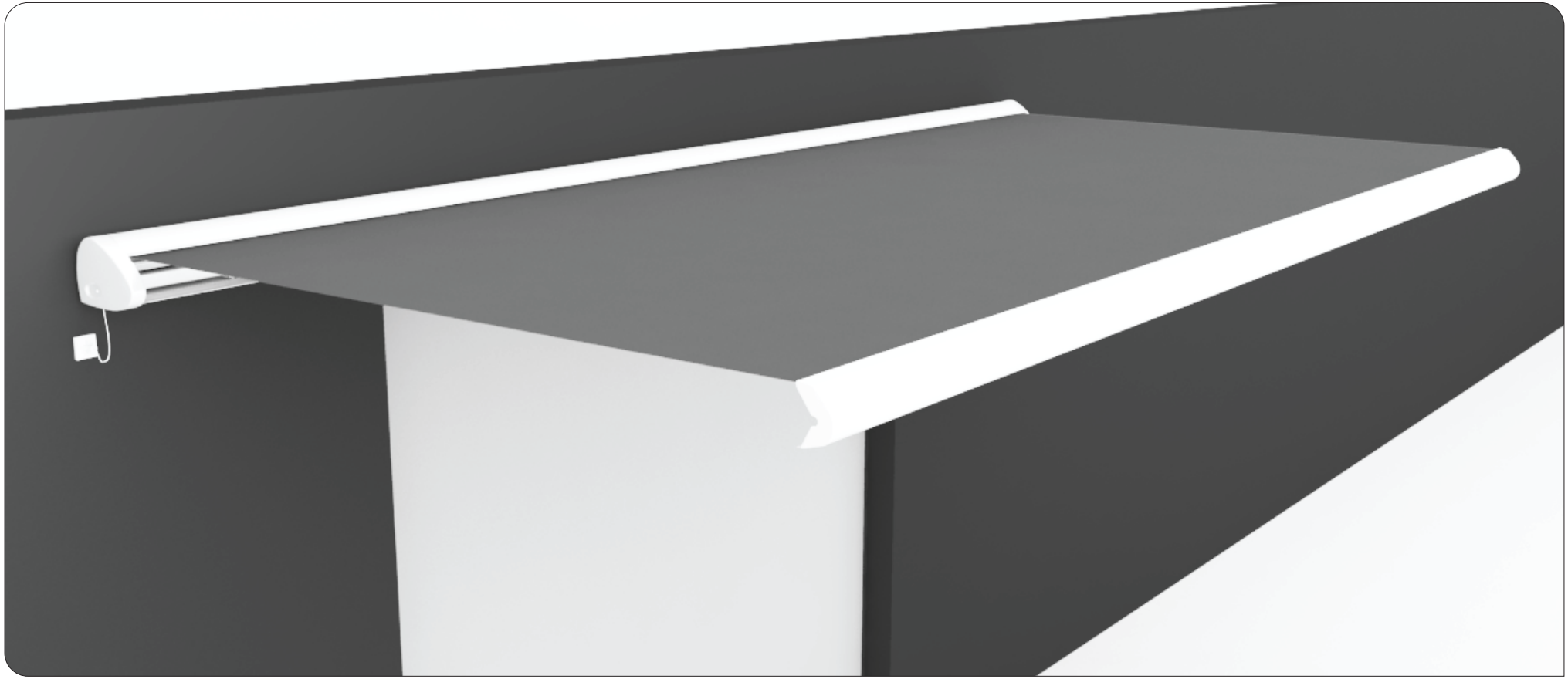
COFRE 600

INSTALLER AND USER'S MANUAL

Motorline® PROFESSIONAL



V1.1
REV. 12/2014

00. CONTENT

▷ INDEX

01. SAFETY INSTRUCTIONS

STANDARDS TO FOLLOW ◁

ATTENTION:

▷ To ensure the safety of people, it is important that you read all the following instructions.Incorrect installation or incorrect use of the product can cause physical injury and material damage.

▷ Keep these instructions in a safe place for future reference.

▷ This product was designed and produced strictly for the use indicated in this manual. Any other use, not expressly indicated here, could compromise the good condition/operation of the product and/or be a source of danger.

▷ **ELECTROCELOS SA** is not responsible for the improper use of the product, or other use than that for which it was designed.

▷ **ELECTROCELOS SA** is not responsible if safety standards were not taken into account when installing the equipment, or for any deformation that may occur to it.

▷ **ELECTROCELOS SA** is not responsible for the safety and proper operation when using components not sold by them.

▷ Do not make any modifications to the operator components and / or their accessories.

▷ Before installation unplug the automatism from the source of power.

▷ Not perform the installation before adverse climatic conditions (wind, rain, snow).

▷ The installer must inform the client how to handle the product in case of emergency and provide this manual to user.

▷ Keep remote controls away from children, to prevent the automated system from being activated involuntarily.

▷ The customer shall not, under any circumstances, attempt to repair or tune the operator. Must call qualified technician only.

▷ Connect the awning to a 230V plug with ground wire.

▷ Do not make any modifications to the operator components and / or their accessories.

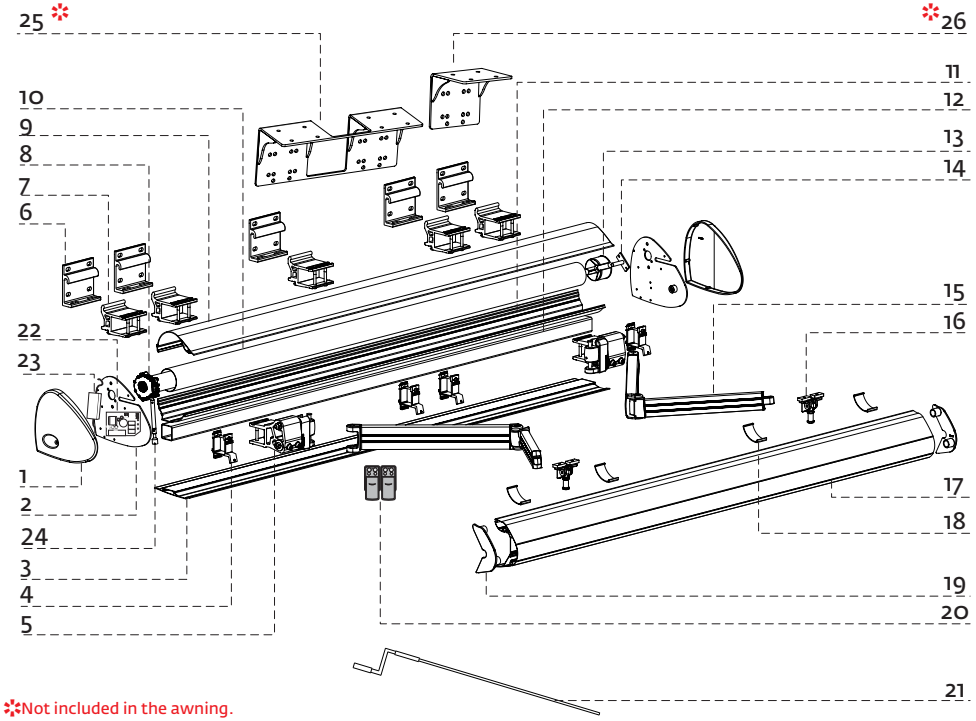
▷ TECHNICAL CHARACTERISTICS

Awning **COFRE 600** is an awning of large size, fully enclosed. It has articulated arms double cable, more robust and strong to give added strength and enable greater projection of the fabric. Optionally, the awning may be provided with an independent lighting kit that can be applied to the area protected by the awning. Allows a maximum incline of 20 °.

Measure production	Motor used
4,7 x 3,5	TUB 70MT
4,7 x 4,0	TUB 70MT
5,0 x 3,5	TUB 70MT
5,0 x 4,0	TUB 70MT
5,5 x 3,5	TUB 70MT
5,5 x 4,0	TUB 70MT
6,0 x 3,5	TUB 70MT
6,0 x 4,0	TUB 70MT
6,5 x 3,5	TUB 70MT
6,5 x 4,0	TUB 70MT
7,0 x 3,5	TUB 70MT
7,0 x 4,0	TUB 70MT

Technical specifications of motor TUB 70MT	
Voltage	230V AC
Frequency	50Hz
Force	40Nm
Speed	12RPM
Lift up	<70Kgs
Noise	<43dB
Working time	4min.
Diameter	45mm
Weight set	2,60Kgs
Consumption	0.95A

EXPLODED VIEW ◁



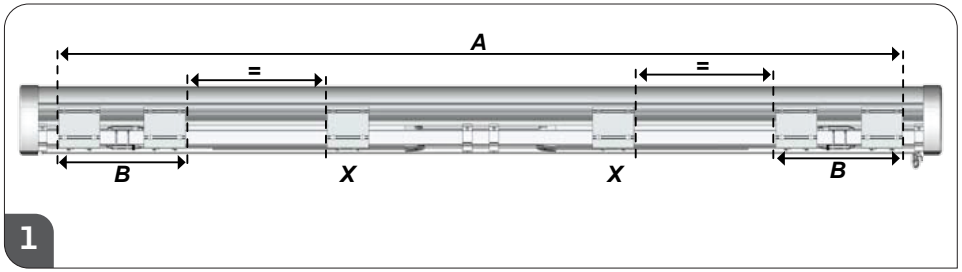
✻Not included in the awning.

1	Top cover
2	Support casing
3	Interior protection profile
4	Square support of awning
5	Set support arm
6	Wall bracket
7	Support casing
8	Motor TUB 70MT
9	Superior profile of the casing
10	Rolling tube ø78mm
11	Inferior profile of the casing
12	Square tube 50x50
13	Bushing for tube

14	Pin of support
15	Articulated arm
16	Terminal
17	Top
18	Protective Plastic
19	Top cover
20	Remote controls MXS4SP
21	Crank
22	Control board MC6
23	Transformer
24	Safety crank
25	Double console
26	Console

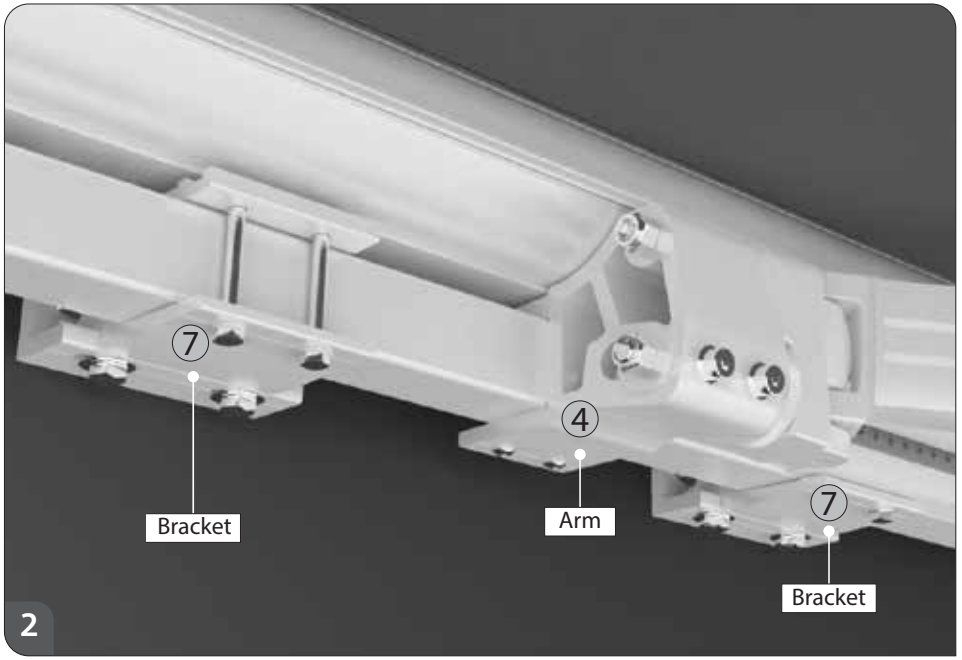
03. INSTALLATION

▷ INFORMATION PRE-INSTALLATION



1

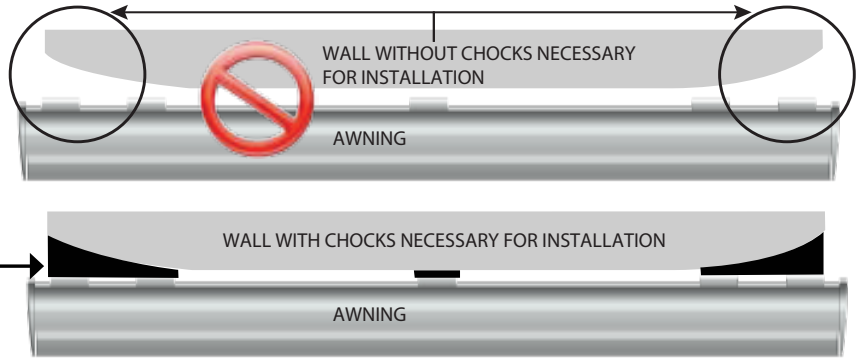
For correct operation of the awning, is obligatory placing the brackets (**nº7**) identicadas zones in the illustration (**B**). Always put one support on each side of the arm (**image 2**) and divide the rest in a balanced way. Never change the placement of the arm brackets (**nº4**)!



2

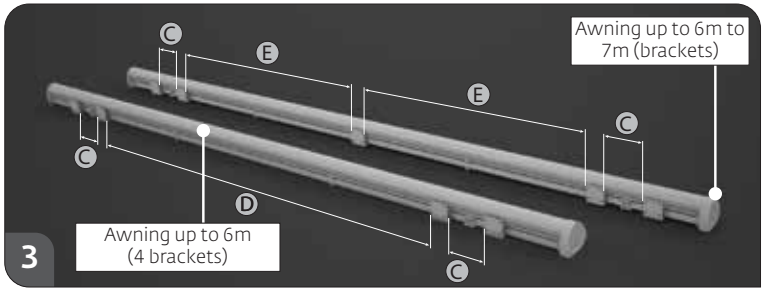
Awning until 6m	Awning between 6m/7m
4 Brackets **nº7**	5 Brackets nº7

03. INSTALLATION



Before starting the installation, check the alignment of the wall. Should this not be flat to create new support fixing, so that the clamping points of the awning to the wall are perfectly aligned and level (above figures). You should also make sure that the metal bushings / bolts are tightened on a solid, resistant surface so there is no risk of loosening and the sheets fall. Never open the safe without the installation is completed it may endanger their physical integrity.
These points are very important for the security and stability awning reside mainly in its fixation!

WALL INSTALLATION ◁

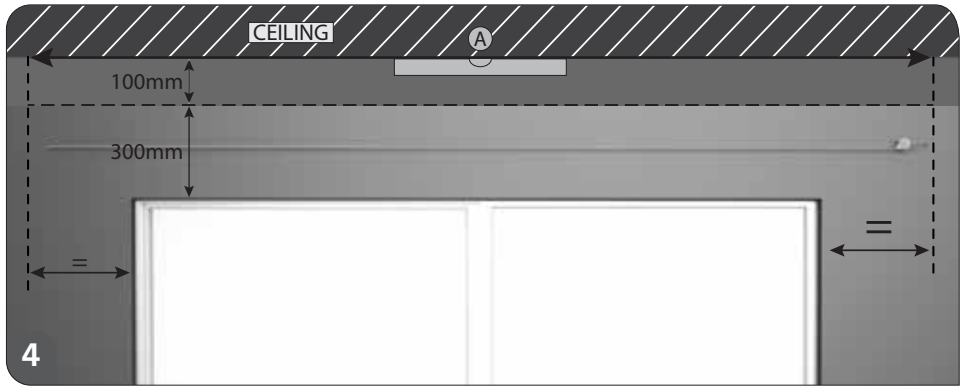


3

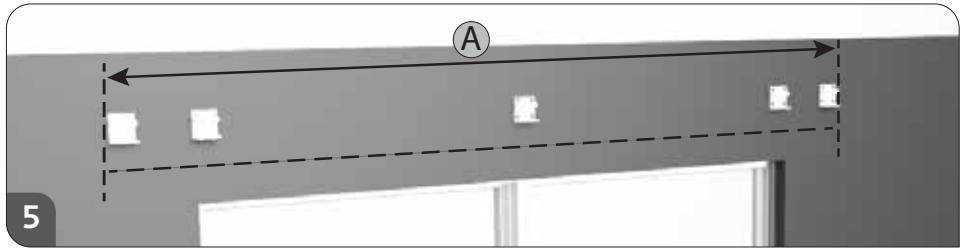
Awning 6m to 7m: Dimension **A** divided by **C** and **E**.

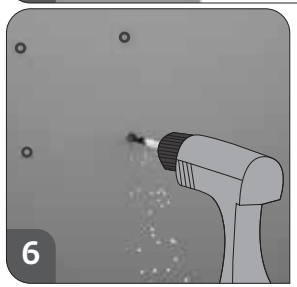
Awning up to 6m: Dimension **A** divided by **C** and **D**.

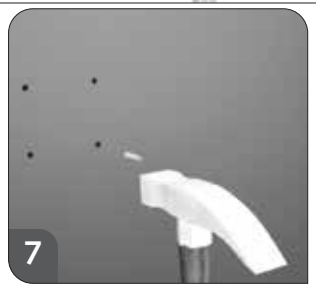
01 - Place the wall brackets (**nº6**) in holders of casing (**nº7**). These must be properly centered.
Make the measurement with supports for the application on the wall is correct.

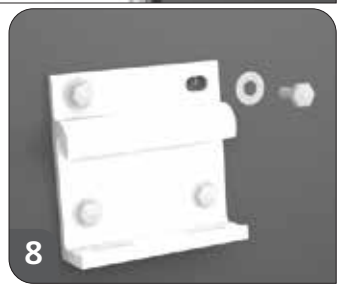


02 - Take the measurement the location where the awning will be applied always on the attention the leveling of wall brackets (**nº6**) for fixing the awning.



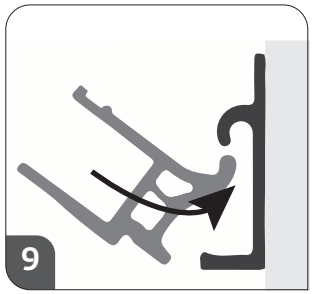


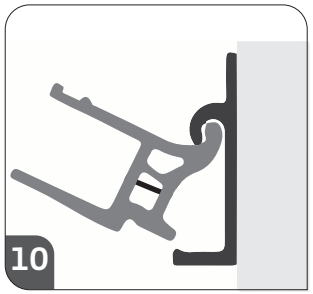


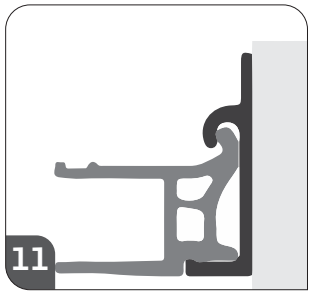


03 - With the help of a pencil or marker, identify the drilling points for the placing of the wall brackets (**nº6**). Make holes with 100mm deep and Ø20mm.

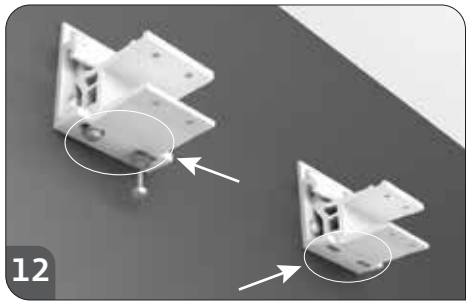
04 - Put **metal bushings M12** in the created holes Ø20mm. Position the wall bracket (**nº6**) in the holes and apply the screws M12x90 with their respective washers (screws, washers and bushings not included in the kit).

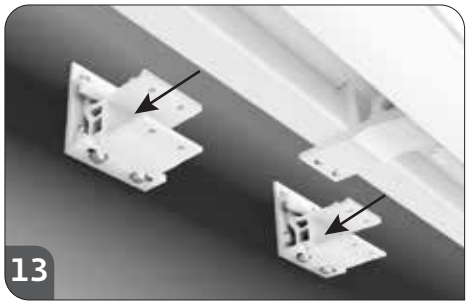






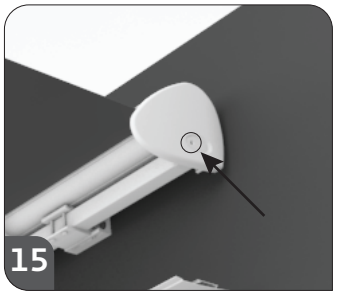
05 - Make the application of safe holders (**nº7**) in the wall bracket (**nº6**).



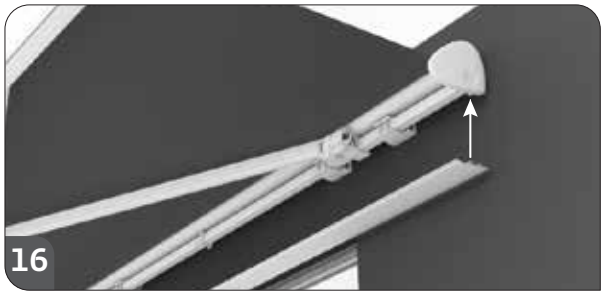


06 - Place the screws ISO 7380 (M10 x 30) with washers to fix the brackets **nº6** to **nº7.**

07 - Fit the awning / square tube the safe (**nº 12**) on the bracket (**nº7**). Apply screws DIN933 M8x75 with washers and tighten until it is completely safe.

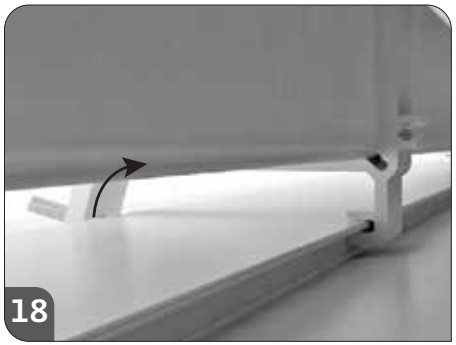


08 - Remove the screw and the cover (**nº1**) on one side.



09 - Open the awning with the crank (**nº21**) in 500mm and apply the inferior protection profile.

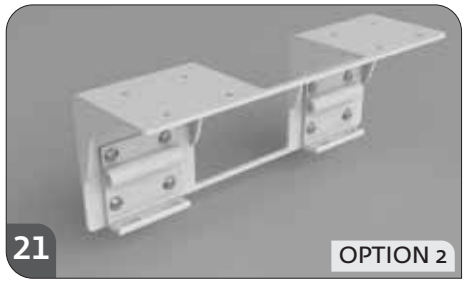
10 - Insert the profile into the slot.



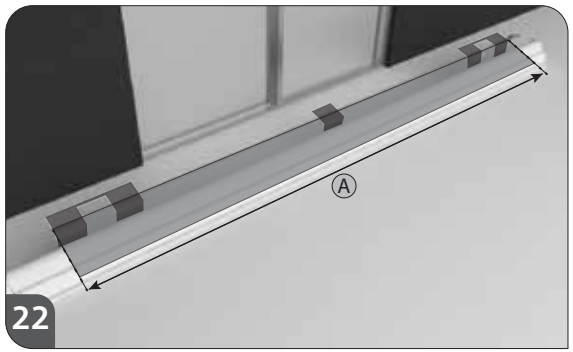
11 - Raise the profile until it is possible to tighten the screw as shown in **picture 19.**

12 - Finally, replace the cover in safe the tops of together with the respective screws (**image 15**).

INSTALLATION ON CEILING ◁



Make fixation on consoles (**nº25**) using one of the two options identified in the images 20 and 21 (use M12 screws with washers).

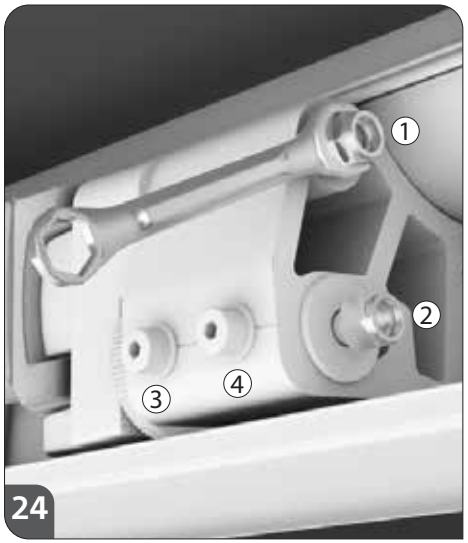


Put the wall brackets (**nº6**) in holders of the casing (**nº7**) and measure (**A**) with supports. Transport this measure (**A**) to the ceiling where will fix.
From here, follow all the steps used in the wall installation (**page 03.B**) using in this case the brackets (**nº25**) for the safe fixation in the area **B** of the **image 1.**

Double Console (**nº25**) to be used in zone **B** of **image 1** (page 03.A)

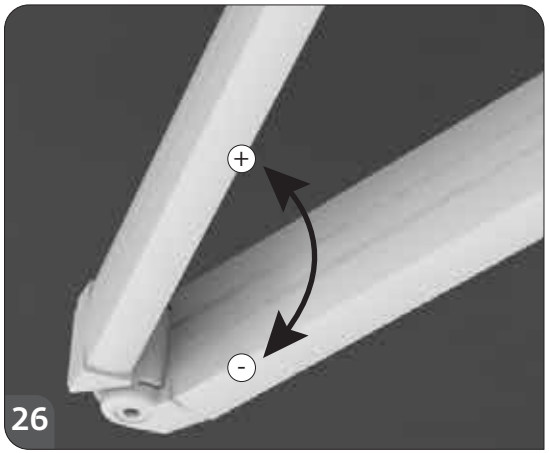
Console (**nº26**) to be applied in zone **X** of **image 1** (page 03.A)

▷ ADJUSTMENT THE ARTICULATION



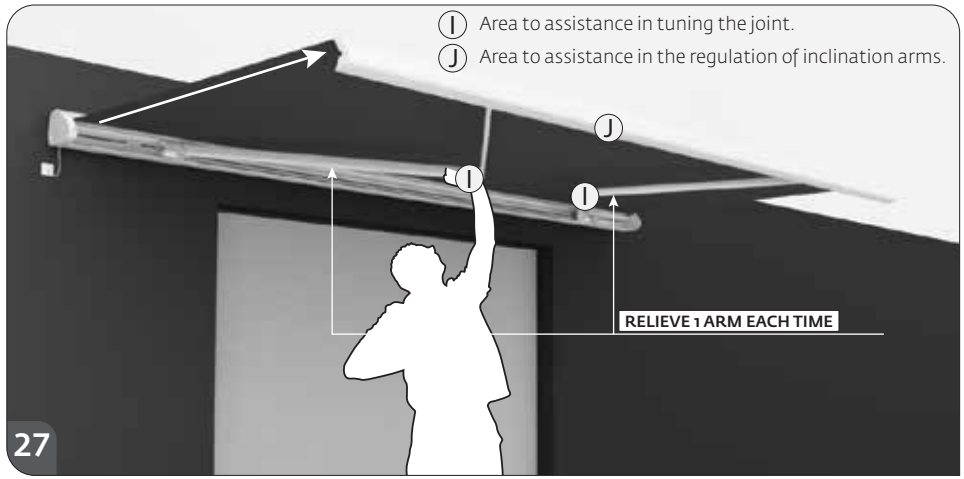
01 - With open awning in about 500 mm, slightly loosen the screws ①②③④ shown on **image 24** (must assist the arm as shown in the **image 27** of **06.B page** until finished tuning).

02 - To move up and down the joint, turn the wheel one way or another.



While performing the operations on the **image 25** the articulation will start the ascent or descent changes.

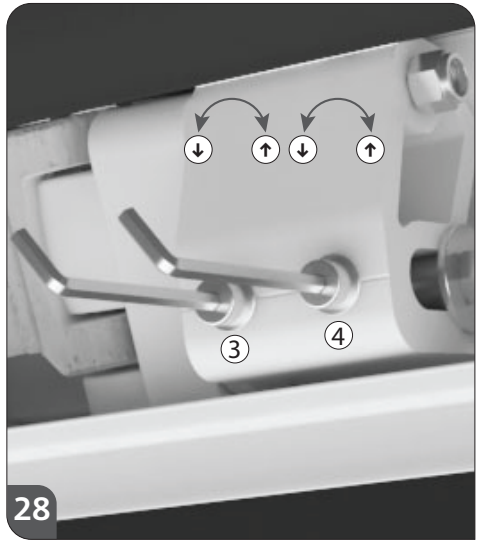
REGULATION OF INCLINATION OF ARMS ◁



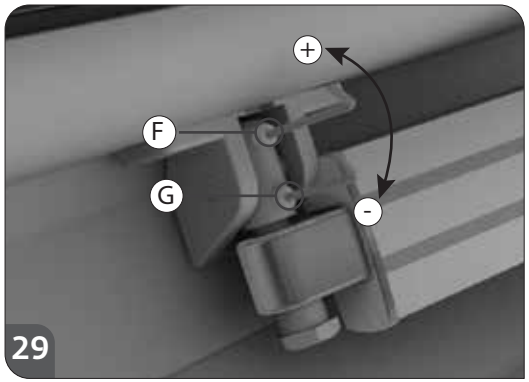
01 - To start the regulation of the inclination arms, place the awning in full open. Is to help the arms by hand in the whole process (**J**).

02 - Adjust screw ③ and ④ until the desired inclination. Rotating clockwise the awning up ↑, rotating to the left down ↓. Make this operation on one arm and only then in the other. Should not loosen the two arms at the same time.

03 - Tighten the screws ① and ② (**image 24**).



▷ REGULATION THE TOP

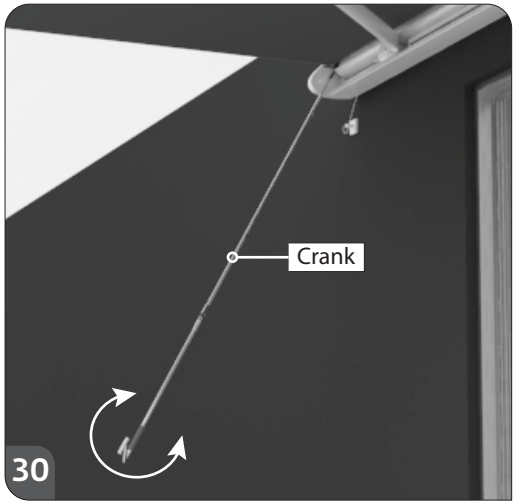


To optimize the awning closure is necessary to adjust the inclination of top (**nº17**),
as a function of arm inclination (**nº15**).
Put the open awning in about 500mm:
tighten or loosen the screws (**F**, **G**), shown in the **image 29**, until the desired tuning is found.

This regulation is only necessary when the arm inclination is changed.

⚠ Never loosen the screws in its totality!
Adjustment of the top badly executed, can cause damage during awning closing!
One too low or too high positioning of the articulation can cause deterioration of the canvas or the top, where the awning is closed!

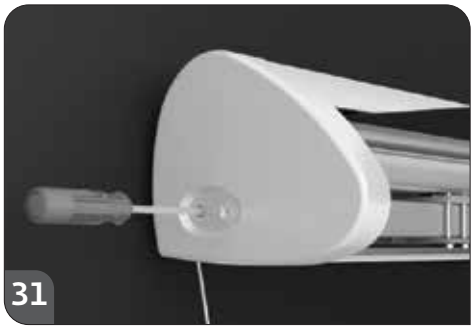
▷ MANUAL RELEASE



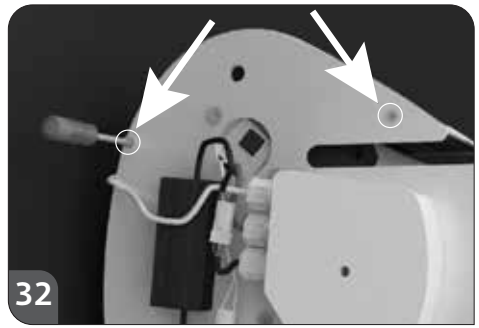
The awning is prepared for, in case of power failure or other situation that prevents the electrical operation of the equipment, be possible to make the opening or closing awning manually by using the crank (**nº21**).

Place the handle as shown in the **image 30** and turn it to open / close the awning.

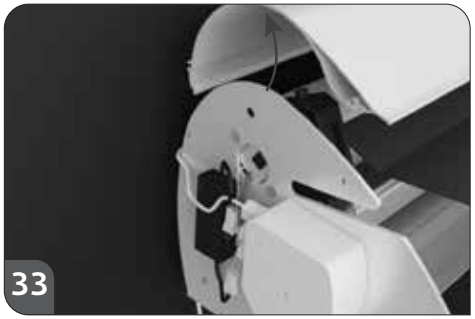
ADJUSTMENT THE MOTOR LIMIT SWITCH ◁



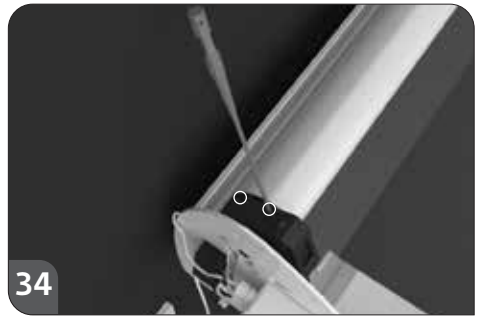
01 - Loosen the screws and remove the covers (**nº1**) on the left and right side.



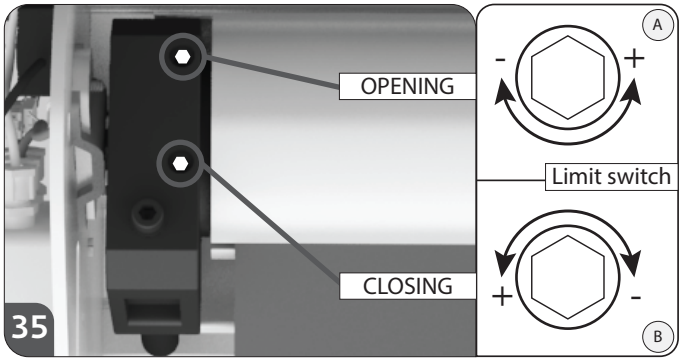
02 - Loosen completely the 2 screws identified in the **image 32**, the left and right side.



03 - Remove the superior profile of the safe (nº9).



04 - The tuning can be carried out.



Ⓐ **Limit switch of Opening**
Controls of the opening course the motor

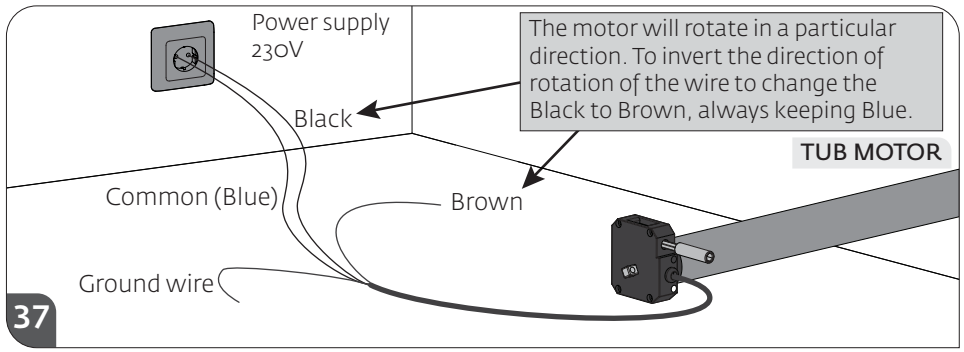
Ⓑ **Limit switch of Closing**
Controls of the closing course the motor

03. INSTALLATION

▷ REGULATION OF THE FABRIC

If you detect any abnormalities in the fabric winding (closing in an entire side only), make the opening of the awning and place plastic chocks in place identified in the **image 36** (the side that does not close).
The chocks should be positioned between the fabric and the winding tube.
If necessary, add more shims until the fabric shows the correct conditions.

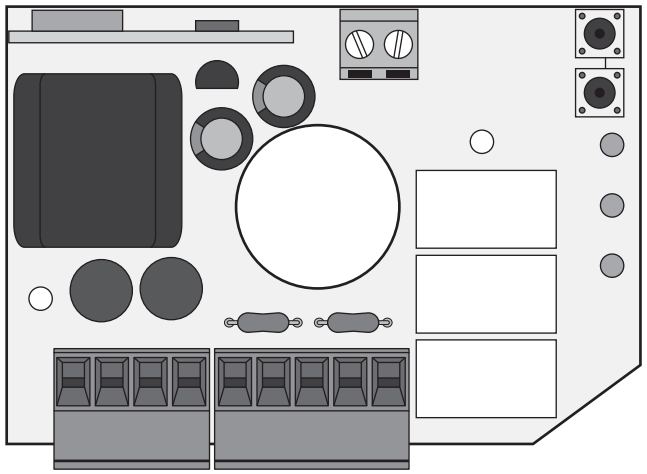
▷ SCHEME DIRECT CONNECTION OF THE MOTOR TO POWER



To detect possible problems in the motor, it will be necessary to conduct tests with direct connection to a power supply to 230V.
In the scheme shown how it should be done this connection and how to connect different wires.
▷ To make the tests do not need to remove the location of the automatism where it is installed, because this way you can see if the automatism connected directly to the current can function properly.
▷ The common must always be connected to the power supply.
▷ To invert the operating direction of the automation just need replace the wire by of **Black** to **Brown** wire the automatism in direct connection to the power supply.

04. CONTROL BOARD

TECHNICAL SPECIFICATIONS ◁



Control board MC6, for automation of awnings, with the possibility of connecting the timer light presence, with operation via remote control and Sensor Wireless (sun / wind / rain).

▷ Power supply	AC 230V 50/60Hz 1000W máx.
▷ Motor output	230V~ 500W máx.
▷ Output courtensy light	230V ~ 500W máx.
▷ Working temperature	-20÷55°C
▷ Radio receiver	433,92 MHz
▷ Compatible radio commanders	12-18 Bit - Rolling Code
▷ Number of radio commands for memorize	5 máx.
▷ Number of sensors Wireless for memorize	1 máx.

04. CONTROL BOARD

▷ CONNECTIONS OF PLATE

CN1	01 ▷ Input connection Earth. 02 ▷ Input connection Earth. 03 ▷ Input line 230v~(FASE) 04 ▷ Input line 230V~(NEUTRO) 05 ▷ Output motor Rise / Closing 06 ▷ Output motor Common 07 ▷ Output motor Descent / Opening 08 ▷ Output present light 230V ~ (FASE) 09 ▷ Output present light 230V ~ (NEUTRAL)
CN2	Input massa antenna. Input pole control board antenna.

▷ CENTRALIZATION GROUP OR GENERAL

▷ Centralization via radio through remote control

The centralization of two or more control boards via radio allows simultaneous movement of ascent or descent of more awnings.
The centralization carried out by entering the same codes (keys) of a remote control to all boards or a group that meets at a maximum distance of 20 meters from the point of command in order to get the general or partial motion more automations. For a radio centralization that is satisfactory, should carefully choose the location of installation. The scope is not only connected with the technical characteristics of the device, but may vary in accordance with the radio conditions of the location.

▷ Operation Present Light with remote control

It is also possible to program a channel of remote control to turn on or off a lamp 230Vac at a distance, connected to connectors of the board (8-9) CN1.

▷ The end of automatic course to phase opening / closing

Is present in the control board an automatic system limit switch to the use of the awning. Whenever during operation of ascent / closing, is identified an excessive

Sempre que for efectuada uma subida/fecho completa do toldo, a central apaga a luz de permanência.

FUNCTIONS ◁

current absorption (by a one parte of motor) due to the possible presence of an obstacle or full movement opening / closing, the control board to immediately stop this movement and relieves.

▷ Buttons of programming and indicator LEDs

SE key: selects the type of function to be memorized, the choice is indicated by the flashing of the LED. Pressing the button more times, it is possible to position yourself in the desired function. The flashing LED indicates that the selection is active, but the duration is 15 seconds. At the end of this period, the control board resumes its normal status.

SET button: makes the programming chosen with the SEL button.
LED signaling
LED on: memorized option.
LED off: no memorized option.
Intermittent LED: option selected.

▷ Main menu

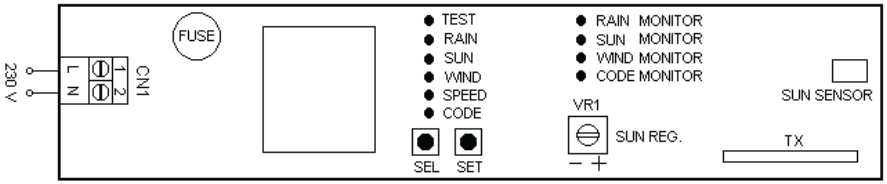
Ref. LED	LED off	LED on
CODE	No code	Programmed code
CODE LAMP.	No code	Code of permanent light programmed
T.MOT	Time engine 3 min	Time of motor programmed

CODE (Programming the remote control for operation of awning Wind Sensor and Wireless)
CODE LAMP (Programming the remote control to operate the lamp of awning)
T.MOT (Programming of time the work / motor)

▷ Programming the remote control 1 or 2 keys and Wireless Sensor

The programming codes for transmission of remote control is performed as follows: press the SEL button and CODE LED will blink. At the same time, send the first code (closing) selected with the desired remote control. The LED CODE will flash rapidly. Send the second code (opening) to be memorized, the LED CODE will remain on and programming finish. If the second code is not sent within 10 seconds, the unit exits the programming phase, selecting operation, leaving only a button on the remote control to work step by step (open / stop / close).

▷ Programming sensor wireless (sun / wind / rain)



If you want to memorize a wireless sensor, follow these steps:

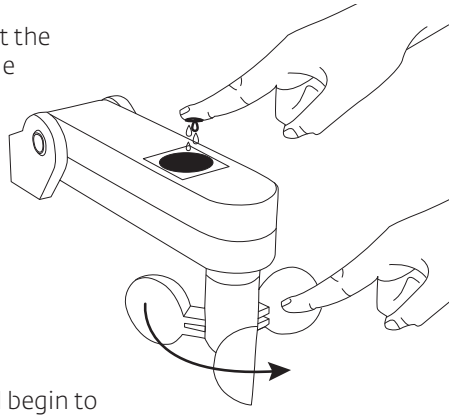
1º Power the sensor;

2º Open the memory of the control board MC6. For this step we have two options. **(option 1)** - Open the control board as follows: position with the SEL button flashing LED CODE. **(option 2)** - With open awning and lighting off, continually press the channel's opening remote controls memorized for more than 10 seconds until that the light the awning flashes one time;

After opening the memory control board, has 10 seconds to send the order of sensor the control board.

3º (Sensor) Position with the SEL button flashing LED CODE, immediately press the SET button sensor so that it emits a rapid flashing of the LED CODE until that the light the awning flashes one time;

4º With the SEL button sensor must now select the functions you want to leave assets in sensor the sun / wind / rain. Press SEL repeatedly until the desired function LED flashes. With the LED flashing, press the SET button for more than 1 second until it is fixed (LED lit - active function).
To disable any function, repeat point 4 but press the SET button at least 1 second and the LED goes out, leaving the function disabled.



5º To test the sensor should follow the next instructions.
With the SEL button position the LED TEST will begin to flash this. Press the SET button for more than 1 second and the LED stays on.

TEST RAIN SENSOR Pass a wet finger over the sensor until the awning begins to close (the awning will close during 5 seconds).
TEST WIND SENSOR Turn the propeller. The awning will close for 5 seconds.
TEST SUN SENSOR Turn VR1 clockwise (+) and the awning will open for 5 seconds. Turn the VR1 anticlockwise (-) and the awning will close for 5 seconds.
If the awning perform the indicated operations successfully, the sensor is programmed and the test finished.

Return to deactivate the LED TEST that in case of emergency, close the awning in its entirety. If the LED TEST stay on, the awning only will close during 5 seconds.

When the awning close by order of sensor, we can see what the order is to be sent, checking that the LED of the sensor is on within the monitor.
For more information on how to adjust the wind speed, sensitivity and illuminance sensor, read the manual of sensor Wiweather.
To reset the sensor, simultaneously press the SEL and SET buttons of sensor for 2 seconds. LEDs light on and all the sensor back to the factory programming.

▷ Deactivation of functions (sun / rain) via remote control

If you want to disable the **Sun / Rain** functions, begin by opening order and without allowing the awning to finish the opening by the end of the course, press the remote control, the awning will stop immediately and turn off the **Sun / Rain** functions. However, whenever the awning does not open fully, having been stopped opening with the remote control, the **Sun / Rain** functions are disabled and the Wind function remains active.
For the functions being re-activated, leave the awning open the whole its course.

▷ Maximum number of memorable Wireless Sensors

The control board allows memorize only 1 Sensor Wireless. Programming a new Wireless Sensor annuls definitely the previously memorized code.

▷ Poor communication Sensor

In case of poor of communication between the Wireless Sensor and control board MC6, after 30 minutes activates automatically ascent / closing the awning. If poor of communication continues, other remote controls makes that the control board to keep in a state of security not allowing the opening of the awning (when receive opening order opens a little bit and returns to the point of closed). If the sensor is active with 3 functions (sun, rain and wind), where there sun, 10 minutes after sends the awning open. When the sun finished 10 minutes later sends the awning collapse. During the time that the awning is open, in case of rain or wind the awning collects.

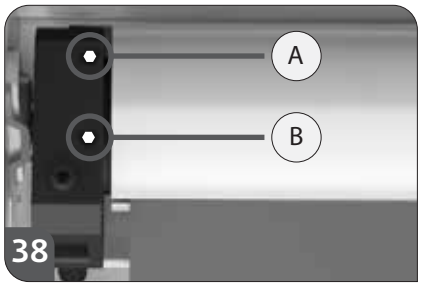
CODE LAMP (Programming the remote control for operating the light inside of the awning)
The programming the channels of the remote control is performed as follows: position with the SEL button flashing LED CODE LAMP. Then send the desired channel of remote control. LED CODE LAMP remains lit and programming is completed.

T. MOT. (Programming time motor - 4 minutes max.)
The control board is supplied with LED T.MOT. OFF means that the motor time is 3 minutes. With T.MOT LED. OFF and the remote control programmed we can move the awning in the sense of opening / closing until make tuning of limit switches. Follow the signs. Always should be set working time / motor.

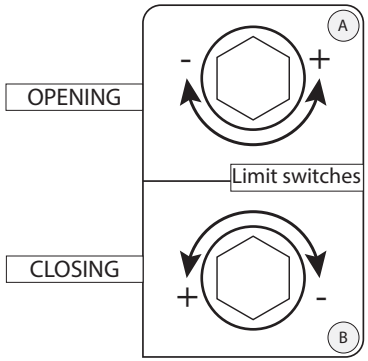
The programming the time of the motor must be performed during the closing of the awning

Programming time of the motor with limit switches only in opening and closing by effort is performed as follows:
Untune completely the closing limit switches for the awning close to maximum and stop by effort.

Programming time of motor is performed as follows:
With open awning and already with the limit switch opening limiter set, position the SEL button to LED T. MOT and then press continuously the SET button and closing starts. When the awning close in full and the motor off, release the SET button, getting right now defined working time / motor and the LED T.MOT stays on.
When it is intended that the awning stop on opening and closing by limit switch, with the open awning and the two limit switches regulated opening / closing, with the SEL button, position the LED T.MOT flash and press continually SET button until the awning close and the motor stops by limit switch. Wait more 2 seconds and release the SET button. LED T.MOT will illuminate and time of the motor will be programmed.



See how to access the motor on the page 07.B



▷ Menu Extensive 1

The control board is supplied by the manufacturer with the possibility of selecting only the main menu functions.
To enable the functions described in menu 1, proceed as follows: press the SET button continuously for 5 seconds and then there is the alternating flashing of the LEDs CODE LAMP and LED T. MOT, in this mode, you have 30 seconds to select the 1 menu functions through the use of SEL and SET buttons, after 30 seconds, the control board returns to the main menu.

MENU Extensive 1		
Ref. LED	LED OFF	LED ON
CODE	PGM distance = ON	PGM distance = OFF
CODE LAMP.	Intermittent ON/OFF	
T.MOT	Intermittent ON/OFF	

CODE PGM
Programming a new remote control or Wireless Sensor
The control board allows programming of another remote control, without intervening directly in the SEL of the control board, performing an operation at a distance.
The programming code of a remote control on distance, is carried out as follows: with the open awning and the lighting of the awning is off press continuously, for longer than 10 seconds, the opening of a channel remote control previously memorized. After 10 seconds the control board goes into programming mode (indicated by the flashing of the awning lighting the lamp). Press the closing channel of the new remote control until the awning illumination light flashes one time, and then press the release channel until the awning illumination light flashes 1 time (successfully programming).

Programming the remote control, button of illumination the awning
With the illumination on, press continuously the lighting channel of a remote control previously memorized, for longer than 10 seconds until the awning illumination light flashes 1 time. Press the channel of new remote control to memorize until the awning illumination light flashes 1 time (successfully programming).

Programming the wireless sensor without access to control board
With open awning and the lighting of the awning off, press continuously the opening channel remote control that a previously memorired, for longer than 10 seconds until the awning illumination light flashes 1 time. Position with the SEL button flash to LED CODE sensor, and then press the sensor SET button to this issue a quick flashing of the LED CODE until the awning illumination light flashes 1 time (successfully programming).

04. CONTROL BOARD

▹ Cancellation Codes

The cancellation of all codes memorized for the functioning of awning (remote controls and Wireless Sensor), proceed as follows: press the SEL button, LED CODE will flash, and then press the SET button for less than 1 second, LED CODE turns off and the procedure ends.

The cancellation of all codes memorized for the operation of the permanence of light, is carried out as follows, press the SEL button until the flashing of the LED CODE LAMP, and next, press the SET button in less than 1 second, LED CODE LAMP switches off and the procedure ends.

If necessary restore the control board to the initial factory settings, press the SEL and SET buttons at the same time and the LED display will be lit temporarily, confirming the success of the operation.

If you have been reached the memory limit (5 codes), repeating the programming operation, all indicator LEDs will flash quickly, signaling that are not possible other memorizations.

▹ Menu Extensive 2

The control board is supplied by the manufacturer with the possibility of selecting only the main menu functions.
To enable the functions described in menu 2, proceed as follows: press the SET button continuously for 5 seconds and then there is the alternating flashing of the LEDs CODE LAMP and LED T. MOT, in this mode, you have 30 seconds to select the 2 menu functions through the use of SEL and SET buttons, after 30 seconds, the control board returns to the main menu.

MENU Extensive 2		
Ref. LED	LED OFF	LED ON
CODE	12RPM Motor	17RPM Motor
CODE LAMP.	Intermittent ON/OFF	
T.MOT	Intermittent ON/OFF	

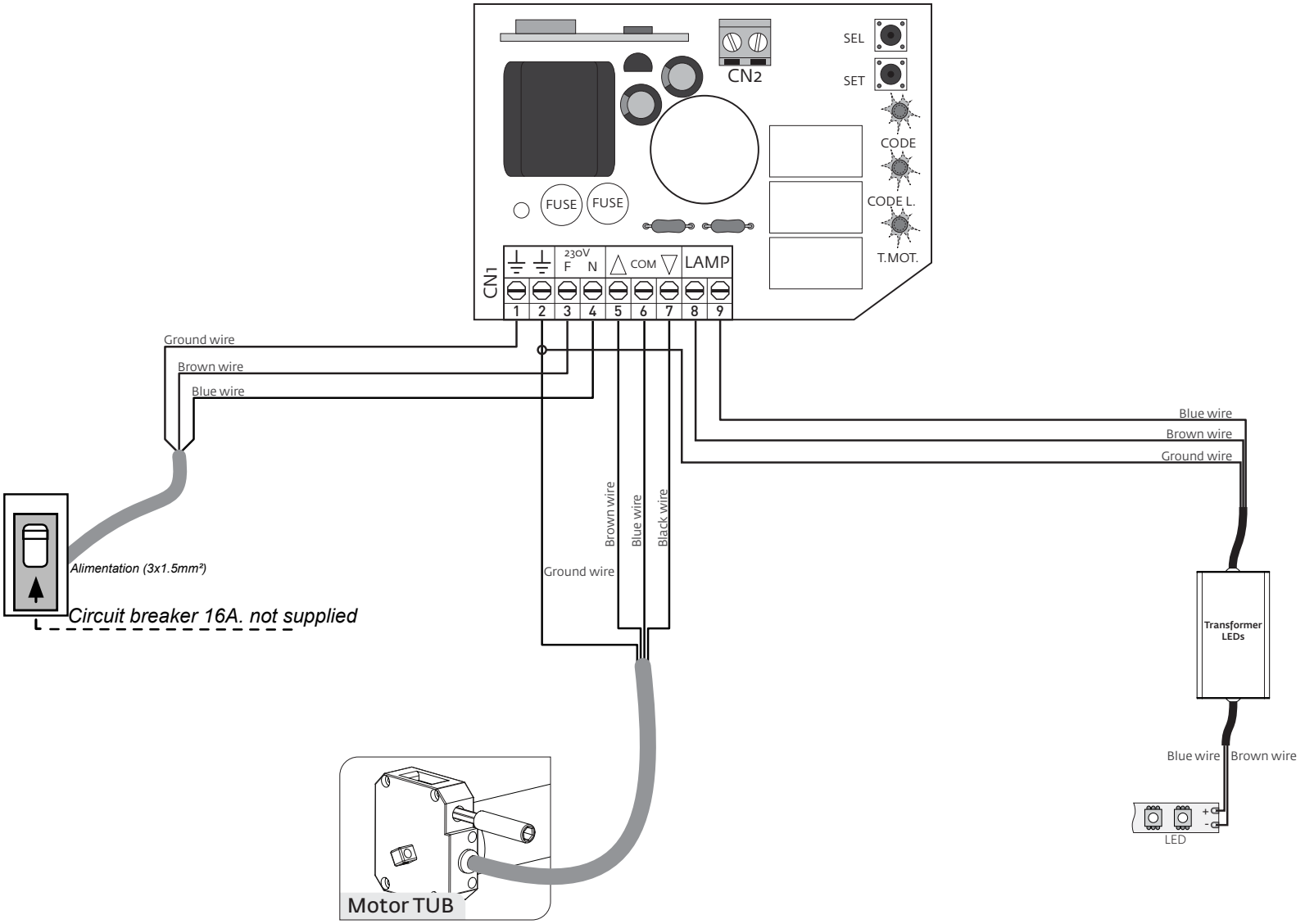
The control board is supplied by the manufacturer with programming for motor 12 RPM. This function the extensive menu 2 allows be changed. When it comes to awning, to close, if not use the limit switch of the motor to control board analyzes that the awning closed and entered into effort and automatic turn off the motor after turning off the motor reverses direction by thousandths of a second so you do not get to effort the fabric too much..
This inversion time is selected through the extensive menu 2, in accordance with the motor installed in the case of a motor 17 or 12 rotations to that the awning not reverse too much time.

05. TROUBLESHOOTING

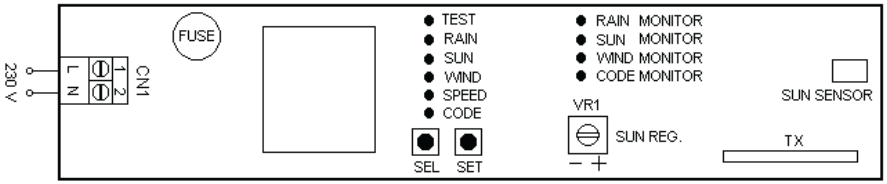
Problems	Causes	Solutions
The awning does not hold correctly on the wall.	The screws are not suitable for the wall structure.	▹ Check the installation dimensions which are on the pages **páginas 03 B and 04 A**. ▹ Verify if the quantity of screws is sufficient and are indicated in this manual (**page 04.A**).
The awning not stay leveling after opening.	Changes in the awning after several maneuvers. Improper adjustment on top or the articulated arms.	▹ Check the level of wall brackets (**nº 6**). ▹ Check the level of the square tube (**nº12**). ▹ Correct the arms inclination considering the manual's instructions (**06.B page**).
The top does not close completely.	Detuning the top or limit switch.	▹ Adjust the arms (**06.B page**). ▹ Adjust the top inclination (**page 07A**). ▹ Adjust the limit switches of the motor (**page 07.B and 11.A**).
The top does not close on one side.	Natural extension of the fabric.	▹ Put a plastic shim, on the side where the fabric suffers the changes between the tube and the fabric. If necessary add more shims until the fabric to meet with the normal extension (**image 36**).
The awning does not work and the motor does not make noise.	The motor goes into thermal protection after 2 openings and 1 closure.	▹ Wait 20 minutes.
The awning does not work and the motor does not make noise.	Problem of protection.	▹ Check the motor connection. ▹ Check the operation of the motor, connecting directly into electric current (**image 37**).

06. CONNECTIONS TO CONTROL BOARD

▷ SCHEME OF CONNECTIONS (CONTROL BOARD MC6)



▷ Programming sensor wireless (sun / wind / rain)



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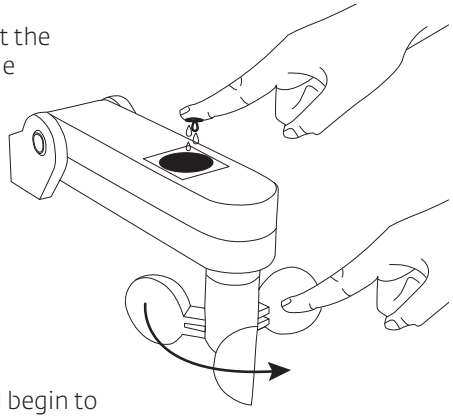

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