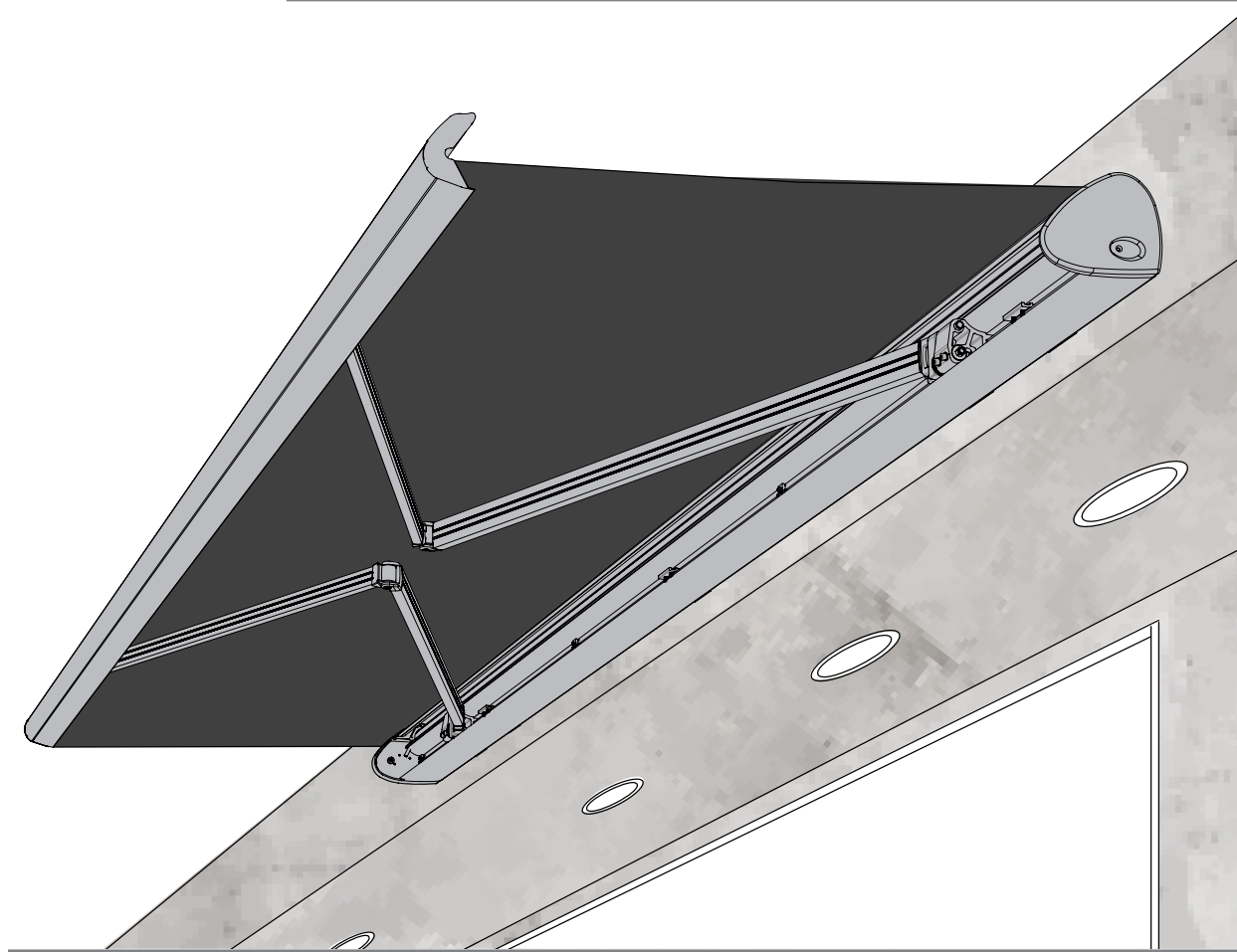




# COFRE 600

INSTALLER AND USER'S MANUAL



**motorline**<sup>®</sup>  
PROFESSIONAL





## 00. CONTENT

### INDEX

<b>01. SAFETY INSTRUCTIONS</b>	<b>1B</b>
<b>02. AWNING</b>	
COFRE 600	4A
TECHNICAL CHARACTERISTICS	4B
<b>03. INSTALLATION</b>	
PRE-INSTALLATION	5A
FIXING ON THE WALL	6A
FIXING ON THE CEILING	7A
<b>04. REGULATION</b>	
SETTING THE ARM JOINT	8A
ADJUSTING THE AWNING TILT	8B
ADJUSTING THE FRONT PROFILE	9A
MANUAL UNLOCKING	9B
ENDS OF COURSE	10A
<b>05. TROUBLESHOOTING</b>	
FINAL CONSUMERS AND SPECIALIZED TECHNICIANS INSTRUCTIONS	11A

## 01. SAFETY INSTRUCTIONS

### ATTENTION:

	This product is certified in accordance with European Community (EC) safety standards.
<b>RoHS</b>	This product complies with Directive 2011/65/EU of the European Parliament and of the Council, of 8 June 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
 	(Applicable in countries with recycling systems). This marking on the product or literature indicates that the product and electronic accessories (eg. Charger, USB cable, electronic material, controls, etc.) should not be disposed of as other household waste at the end of its useful life. To avoid possible harm to the environment or human health resulting from the uncontrolled disposal of waste, separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources. Home users should contact the dealer where they purchased this product or the National Environment Agency for details on where and how they can take these items for environmentally safe recycling. Business users should contact their vendor and check the terms and conditions of the purchase agreement. This product and its electronic accessories should not be mixed with other commercial waste.
	This marking indicates that the product and electronic accessories (eg. charger, USB cable, electronic material, controls, etc.) are susceptible to electric shock by direct or indirect contact with electricity. Be cautious when handling the product and observe all safety procedures in this manual.

# 01. SAFETY INSTRUCTIONS

## **GENERAL WARNINGS**

- This manual contains very important safety and usage information. very important. Read all instructions carefully before beginning the installation/usage procedures and keep this manual in a safe place that it can be consulted whenever necessary.
- This product is intended for use only as described in this manual. Any other enforcement or operation that is not mentioned is expressly prohibited, as it may damage the product and put people at risk causing serious injuries.
- This manual is intended firstly for specialized technicians, and does not invalidate the user's responsibility to read the "User Norms" section in order to ensure the correct functioning of the product.
- The installation and repair of this product may be done by qualified and specialized technicians, to assure every procedure are carried out in accordance with applicable rules and norms. Nonprofessional and inexperienced users are expressly prohibited of taking any action, unless explicitly requested by specialized technicians to do so.
- Installations must be frequently inspected for unbalance and the wear signals of the cables, springs, hinges, wheels, supports and other mechanical assembly parts.
- Do not use the product if it is necessary repair or adjustment is required.
- When performing maintenance, cleaning and replacement of parts, the product must be disconnected from power supply. Also including any operation that requires opening the product cover.
- The use, cleaning and maintenance of this product may be carried out by any persons aged eight years old and over and persons whose physical, sensorial or mental capacities are lower, or by persons without any knowledge of the product, provided that these are supervision and instructions given by persons with experienced in terms of usage of the product in a safe manner and who understands the risks and dangers involved.
- Children shouldn't play with the product or opening devices to avoid

the motorized door or gate from being triggered involuntarily.

## **WARNINGS FOR TECHNICIANS**

- Before beginning the installation procedures, make sure that you have all the devices and materials necessary to complete the installation of the product.
- You should note your Protection Index (IP) and operating temperature to ensure that is suitable for the installation site.
- Provide the manual of the product to the user and let them know how to handle it in an emergency.
- If the automatism is installed on a gate with a pedestrian door, a door locking mechanism must be installed while the gate is in motion.
- Do not install the product "upside down" or supported by elements do not support its weight. If necessary, add brackets at strategic points to ensure the safety of the automatism.
- Do not install the product in explosive site.
- Safety devices must protect the possible crushing, cutting, transport and danger areas of the motorized door or gate.
- Verify that the elements to be automated (gates, door, windows, blinds, etc.) are in perfect function, aligned and level. Also verify if the necessary mechanical stops are in the appropriate places.
- The central must be installed on a safe place of any fluid (rain, moisture, etc.), dust and pests.
- You must route the various electrical cables through protective tubes, to protect them against mechanical exertions, essentially on the power supply cable. Please note that all the cables must enter the central from the bottom.
- If the automatism is to be installed at a height of more than 2,5m from the ground or other level of access, the minimum safety and health requirements for the use of work equipment workers at the work of Directive 2009/104/CE of European Parliament and of the Council of 16 September 2009.

## 01. SAFETY INSTRUCTIONS

- Attach the permanent label for the manual release as close as possible to the release mechanism.
- Disconnect means, such as a switch or circuit breaker on the electrical panel, must be provided on the product's fixed power supply leads in accordance with the installation rules.
- If the product to be installed requires power supply of 230Vac or 110Vac, ensure that connection is to an electrical panel with ground connection.
- The product is only powered by low voltage safety with central (only at 24V motors)

### WARNINGS FOR USERS

- Keep this manual in a safe place to be consulted whenever necessary.
- If the product has contact with fluids without being prepared, it must immediately disconnect from the power supply to avoid short circuits, and consult a specialized technician.
- Ensure that technician has provided you the product manual and informed you how to handle the product in an emergency.
- If the system requires any repair or modification, unlock the automatism, turn off the power and do not use it until all safety conditions have been met.
- In the event of tripping of circuits breakers or fuse failure, locate the malfunction and solve it before resetting the circuit breaker or replacing the fuse. If the malfunction is not repairable by consult this manual, contact a technician.
- Keep the operation area of the motorized gate free while the gate in motion, and do not create strength to the gate movement.
- Do not perform any operation on mechanical elements or hinges if the product is in motion.

### RESPONSABILITY

- Supplier disclaims any liability if:
  - Product failure or deformation result from improper installation use or maintenance!
  - Safety norms are not followed in the installation, use and maintenance of the product.
  - Instructions in this manual are not followed.
  - Damaged is caused by unauthorized modifications
  - In these cases, the warranty is voided.

### SYMBOLS LEGEND:



• Important safety notices



• Useful information



• Programming information



• Potentiometer information



• Connectors information



• Buttons information

## 02. AWNING

### COFRE 600

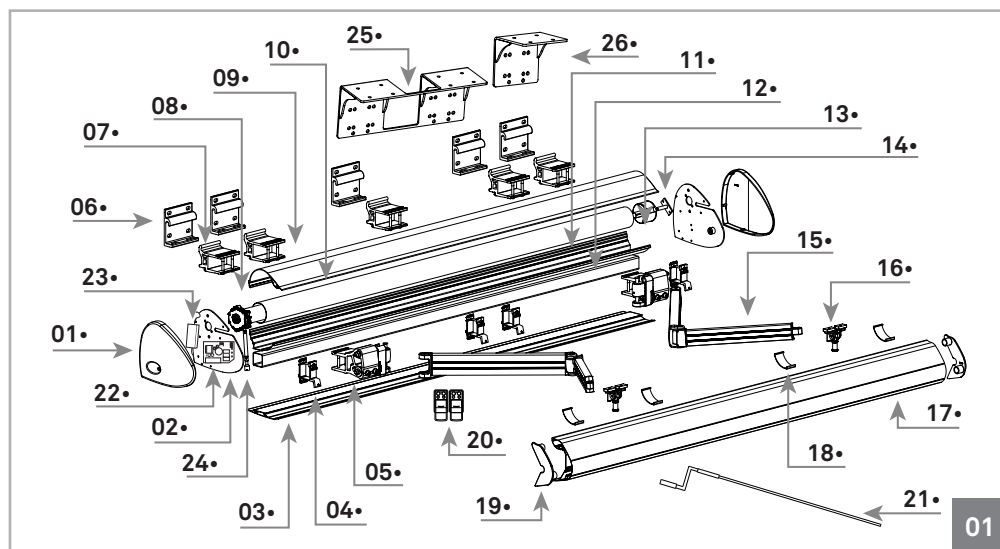
The **COFRE 600** is a large, fully enclosed awning. It has articulated arms of double cable, more robust and strong to confer greater resistance and to allow a greater projection of the fabric. Optionally, the awning can be provided with an independent lighting kit, which can be applied in the area protected by the awning. Allows a maximum slope of 20 °.

On the awning you will find the following components:

- |                              |                                     |
|------------------------------|-------------------------------------|
| 01• Cofre Cover              | 14• Support pin                     |
| 02• Side plate               | 15• Articulated arm                 |
| 03• Lower Protection Profile | 16• Terminal                        |
| 04• Lower Profile Support    | 17• Front Profile                   |
| 05• Support arm assembly     | 18• Plastic Protection              |
| 06• Wall Support             | 19• Front Profile Cover             |
| 07• Holder Support           | 20• Commands                        |
| 08• TUB90M8 MT Motor         | 21• Crank                           |
| 09• Top profile              | 22• Central MC65                    |
| 10• Winding tube ø78mm       | 23• Transformer                     |
| 11• Central Vault Profile    | 24• Safety crank                    |
| 12• Square tube 50x50        | 25• Double Ceiling Mounting Bracket |
| 13• Tube socket              | 26• Ceiling Mounting Bracket        |



Both ceiling mount brackets are not included in the awning. They must be purchased separately.



## 02. AWNING

### TECHNICAL CHARACTERISTICS

The technical characteristics of the awning **COFRE 600** are as follows:

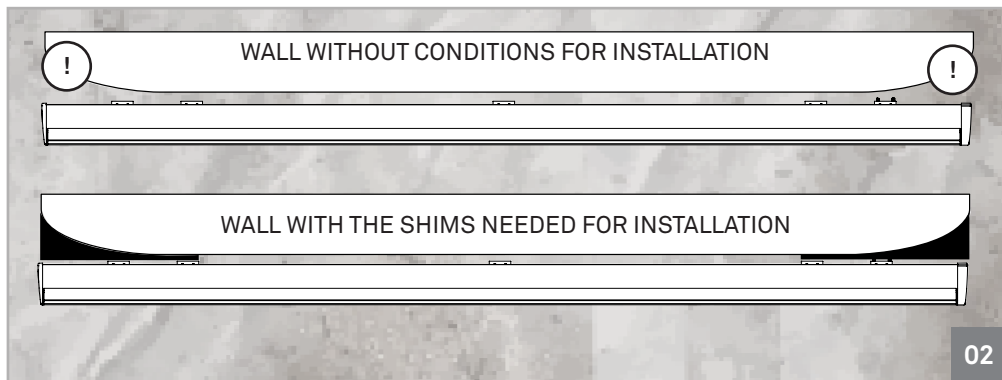
	Production measure	Motor used
Up until 5m	4,7 x 4,0	TUB 90M8 MT
	5,0 x 4,0	TUB 90M8 MT
Up until 6m	5,5 x 4,0	TUB 90M8 MT
	6,0 x 4,0	TUB 90M8 MT
Up until 7m	6,5 x 3,5	TUB 90M8 MT
	6,5 x 4,0	TUB 90M8 MT
	7,0 x 3,5	TUB 90M8 MT
	7,0 x 4,0	TUB 90M8 MT

#### Technical data of the Motor TUB 90M8 MT

• Power Supply	AC 230V 50Hz
• Power	227W
• Speed	12RPM
• Force	40Nm
• Lift up	<90Kgs
• Noise	<43dB
• Working time	4min
• Diameter	ø45mm
• Weight set	3,70Kgs

## 03. INSTALLATION

### PRE-INSTALLATION



Before starting the installation check the wall alignment. If it is not flat, you must create shims, so that the tightening points of the awning to the wall are perfectly aligned and level. You should also make sure that the metal bushings / screws are tightened onto a sturdy surface so there is no risk of loosening and dropping the awning. You should never open the safe without installation being complete as it may endanger your physical integrity. These points are very important because the safety and stability of the awning reside mainly in its fixing!

For correct functioning of the awning, it is mandatory to place the supports in the identified areas. Always place 1 support on each side of the armrest and divide the rest evenly. Never change the placement of the armrests!

Awning between 4200mm and 5500mm	Awning between 5501mm and 6500mm	Awning between 6501mm and 7000mm
4 supports	5 supports	6 supports

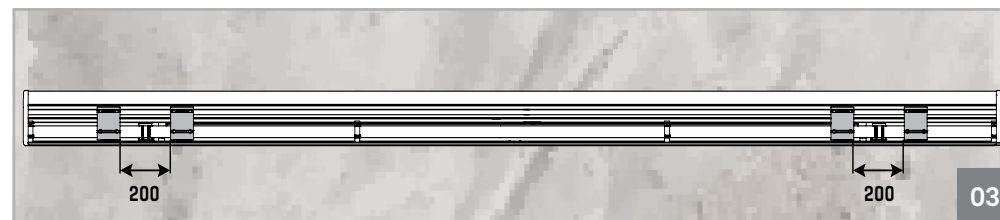


The COFRE brackets are not in the correct installation location when shipped from the factory, proceed as shown in the following images.

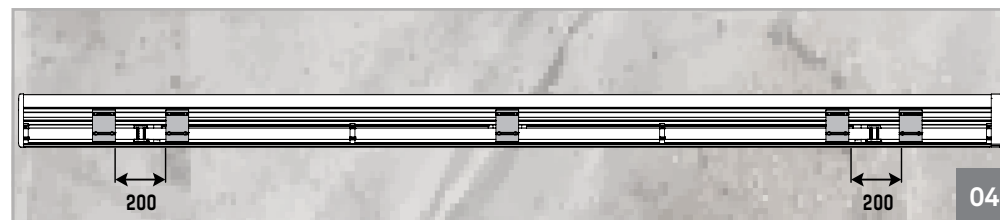
## 03. INSTALLATION

### PRE-INSTALLATION

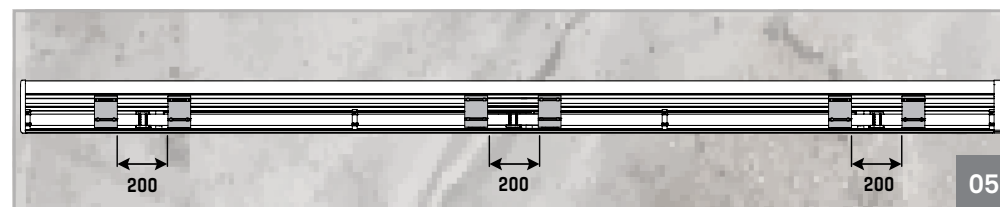
Measure the place where the Awning will be applied, always keeping in mind the leveling of the wall supports for the Awning attachment.



**INSTALLATION OF COFRE UP TO 5500MM (2 ARMS)** - the 4 supports (B) must be placed 20mm away from the awning arms.



**INSTALLATION OF COFRE FROM 5501MM TO 6500MM (2 ARMS)** - the 5 supports (B) must be fully abutted with a 20mm distance from the awning arms, and also a support centered with the holder .

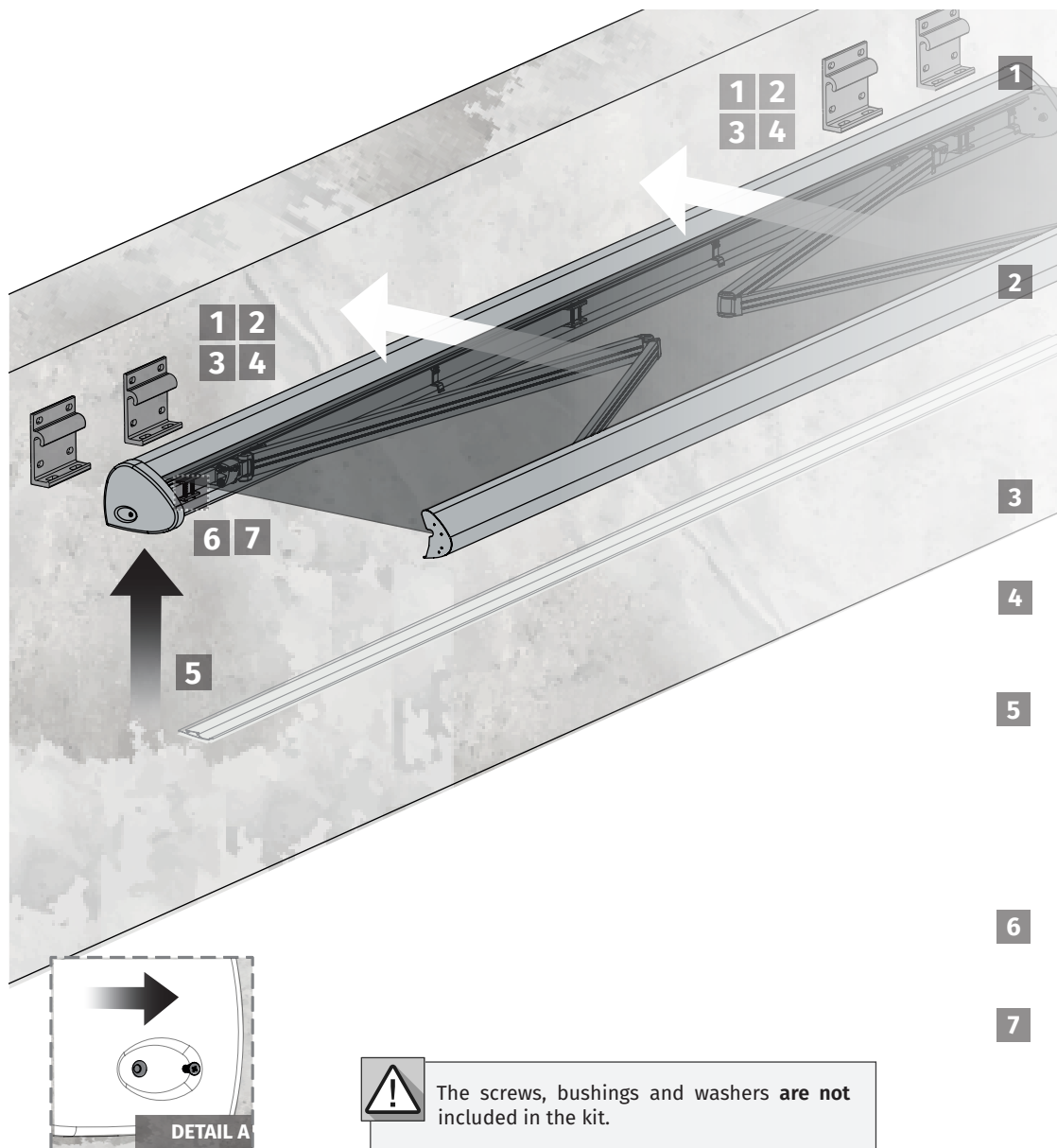


**INSTALLING OF COFRE FROM 6501MM TO 7000MM (3 ARMS)** - the 6 supports (B) must be fully abutted and 20mm away from the awning arm. The awning arm should be centered with the holder .



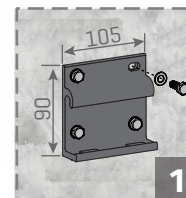
## 03. INSTALLATION

### FIXING ON THE WALL



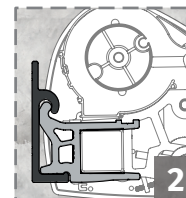
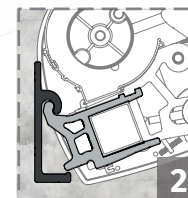
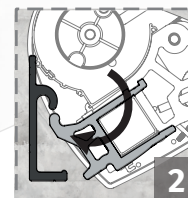
#### 1 FIXING WALL SUPPORT

Identify the drilling points for the placement of the wall supports. Drill holes with **100mm** depth and **Ø20mm**. Place the **M12** metal bushings in the holes created. Position the wall support in the holes and apply the **M12x90** screws with their washers.



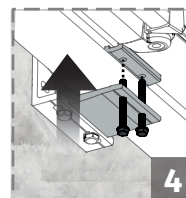
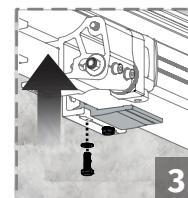
#### 2 APPLY THE COFRE

Apply the holder support to the wall bracket.



#### 3 FIXING HOLDER SUPPORT

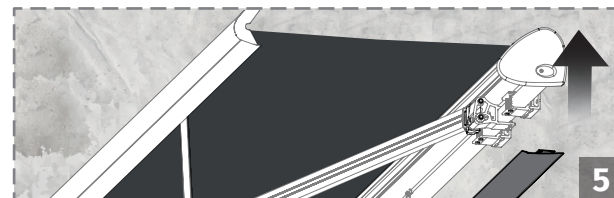
Attach the **ISO7380** screws (**M10 x 30**) with the washers to secure the supports.



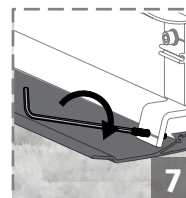
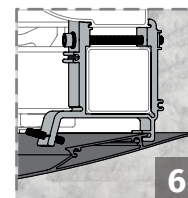
Apply **DIN933** screws (**M8x75**) with the washers and tighten until fully secured.

#### 5 APPLY INFERIOR PROTECTION PROFILE

Remove the screw and the cover from one side (see detail A). Open the awning with the crank at 500mm and apply the inferior protection profile.



Attach the profile into the slot. Raise the profile until it is possible to tighten the screw.



Finally, replace the cover on the sides of the cofre with the screws.

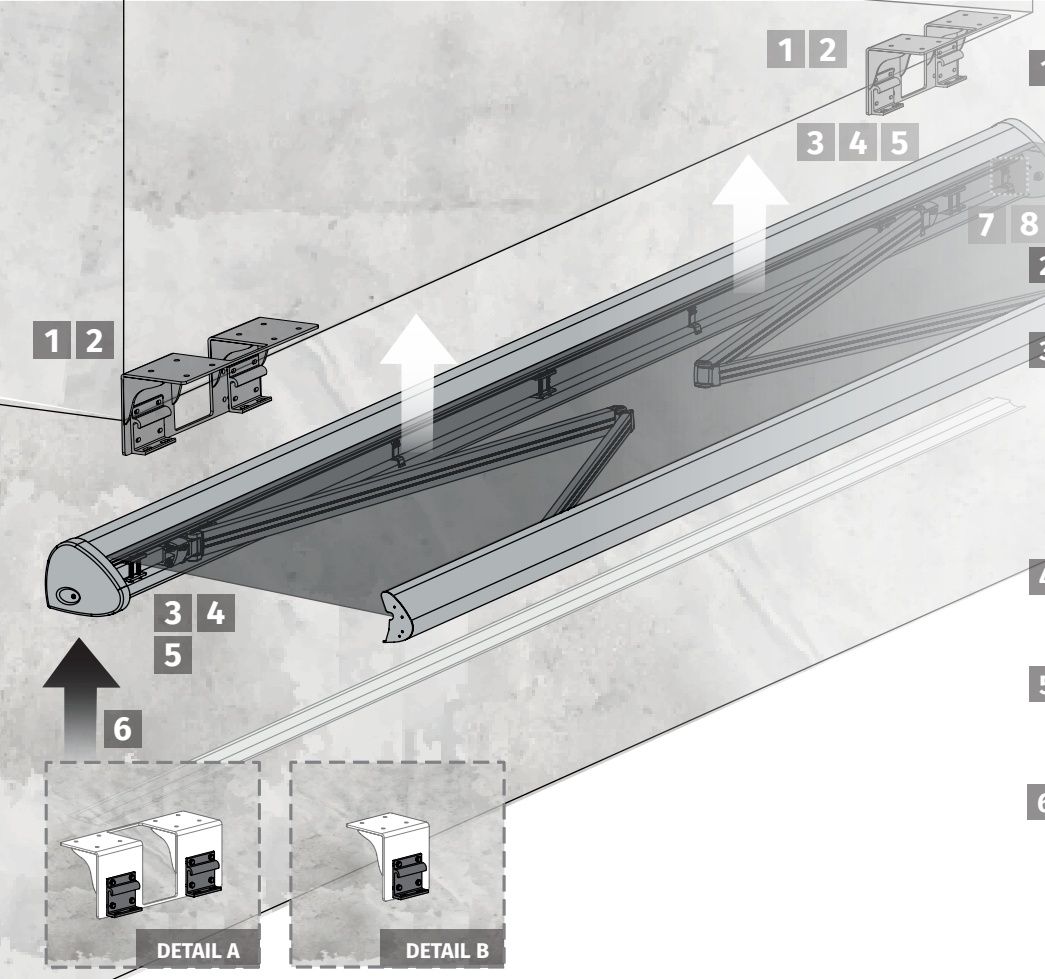


The screws, bushings and washers **are not** included in the kit.

DETAIL A

## 03. INSTALLATION

### FIXING ON THE CEILING



**1** **FIXING HOLDER SUPPORT**  
Fasten to double consoles using M12 bolts with washers (another option see detail A).

**2** Fasten to individual console using M12 bolts with washers (another option see detail B).

**3** **APPLY THE COFRE**  
Apply the holder support to the wall bracket.

**4** **FIXING HOLDER SUPPORT**  
Attach the ISO7380 screws (M10 x 30) with the washers to secure the supports.

**5** Apply DIN933 screws (M8x75) with the washers and tighten until fully secured.

**6** **APPLY INFERIOR PROTECTION PROFILE**  
Remove the screw and the cover from one side (see detail C). Open the awning with the crank at 500mm and apply the inferior protection profile.

**7** Attach the profile into the slot. Raise the profile until it is possible to tighten the screw.

**8** Finally, replace the cover on the sides of the cofre with the screws.

**DETAIL A**

**DETAIL B**

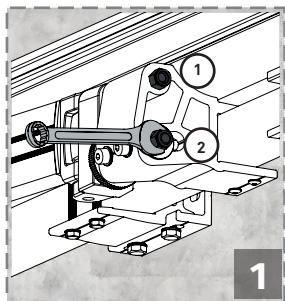
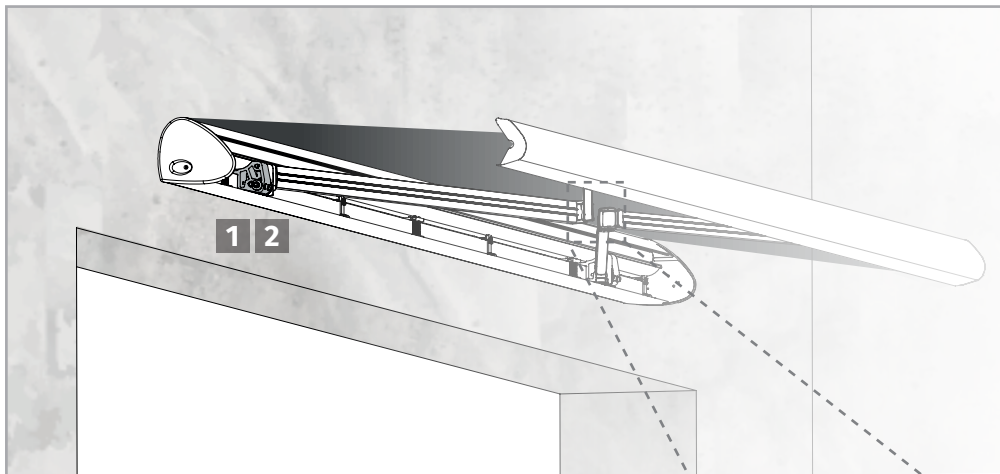
**DETAIL C**

Double and individual consoles as well as screws, washers and bushings are **not** included in the kit.



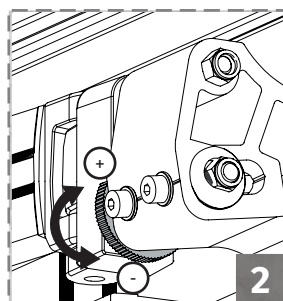
## 04.REGULATION

### SETTING THE ARM JOINT



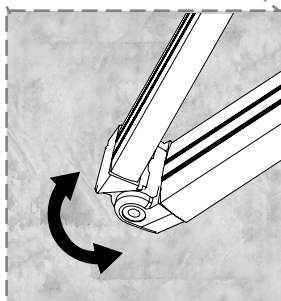
#### 1 LOOSEN SCREWS

With the awning open at about 500mm, loosen screws 1 and 2 slightly.



#### 2 AFFECT THE ARTICULATION

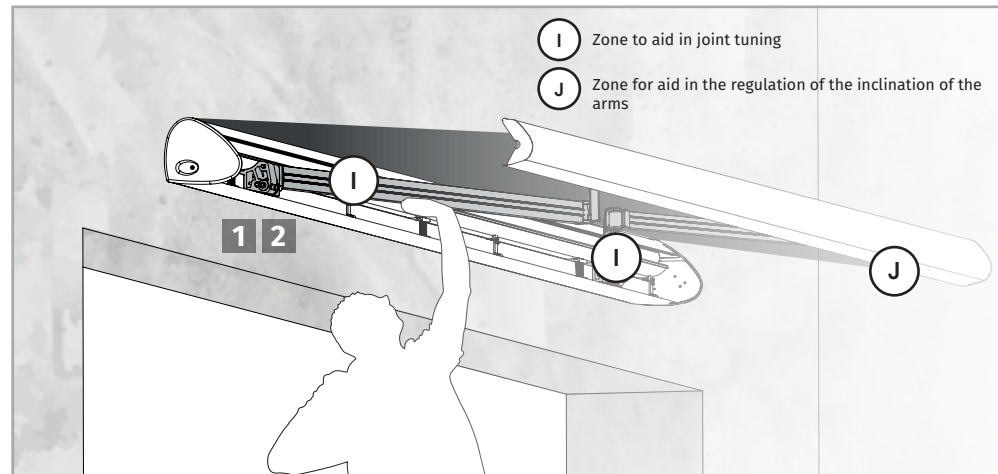
To raise or lower the joint, rotate the wheel in one direction or the other.



While performing the operations, the joint will initiate the changes of ascent or descent.

## 04.REGULATION

### ADJUSTING THE AWNING TILT



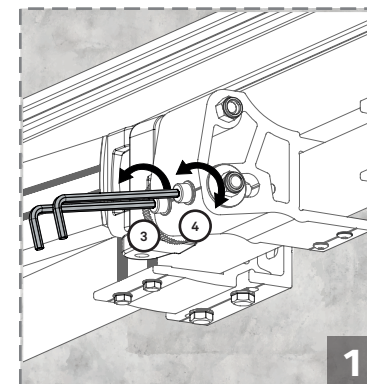
#### 1 REGULAR AWNING

To start adjusting the slope of the Awning, place it fully open. You should assist the arms with the hand throughout the process.

#### 2

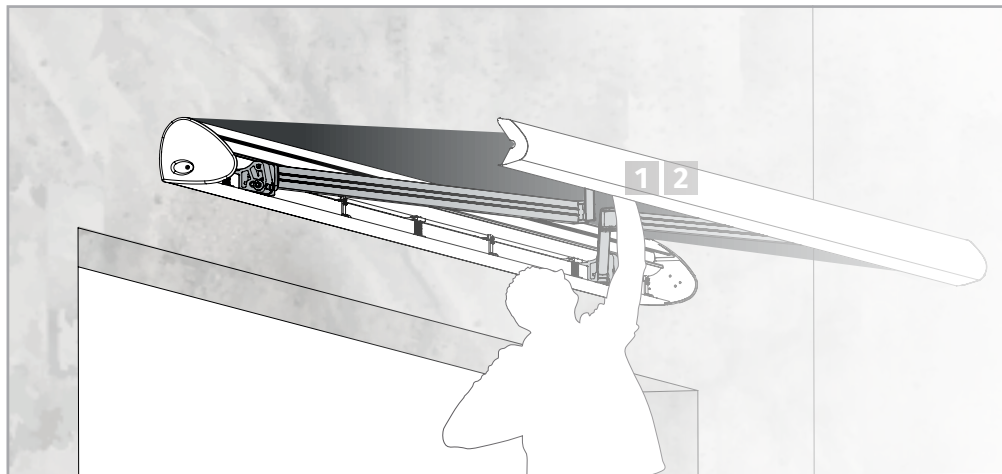
Unlock the screw 3 and loosen the screws 4 alternately until you find the desired incline. Turning to the right the arm goes up, turning to the left the arm descends. Do this operation in one arm and then in the other. **Do not unscrew both arms at the same time.**

Retighten screw 3 when you are satisfied with the slope of the Awning.



## 04.REGULATION

### ADJUSTING FRONT PROFILE

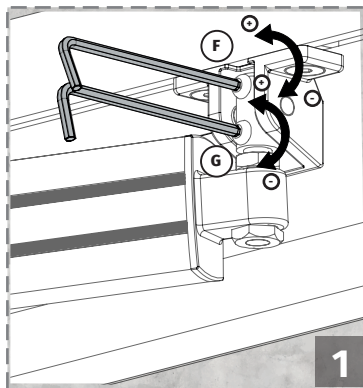


The Awning is already out of the factory tuned. This adjustment is only necessary when the arm inclination is changed.

#### 1 REGULATE FRONT PROFILE

In order to optimize the closing of the awning, it is necessary to adjust the inclination of the front profile according to the inclination of the arm. Place the awning open at about 500mm.

- 2 Tighten or unscrew the screws (F, G) until the desired setting is found.

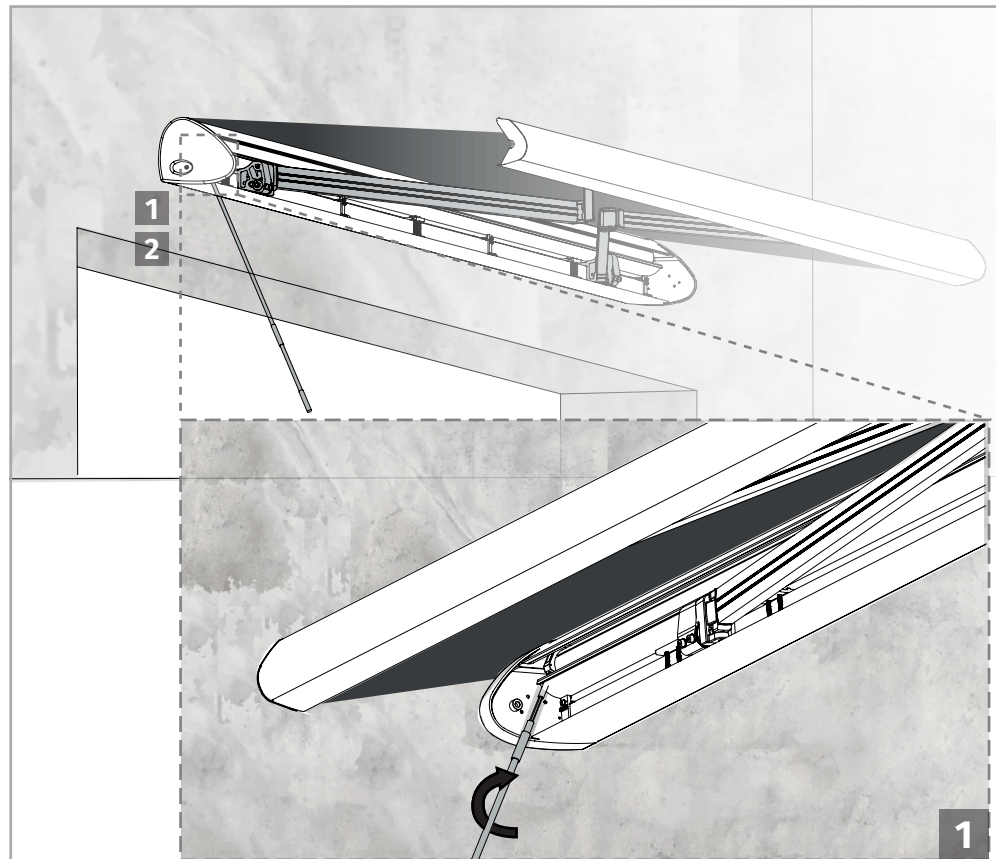


**Never loosen the screws in their entirety!**

Improper front profile adjustment can cause damage when closing the awning! Too low or too high positioning of the hinge can cause tarpaulin or top deterioration whenever the awning is closed!

## 04.REGULATION

### MANUAL UNLOCKING



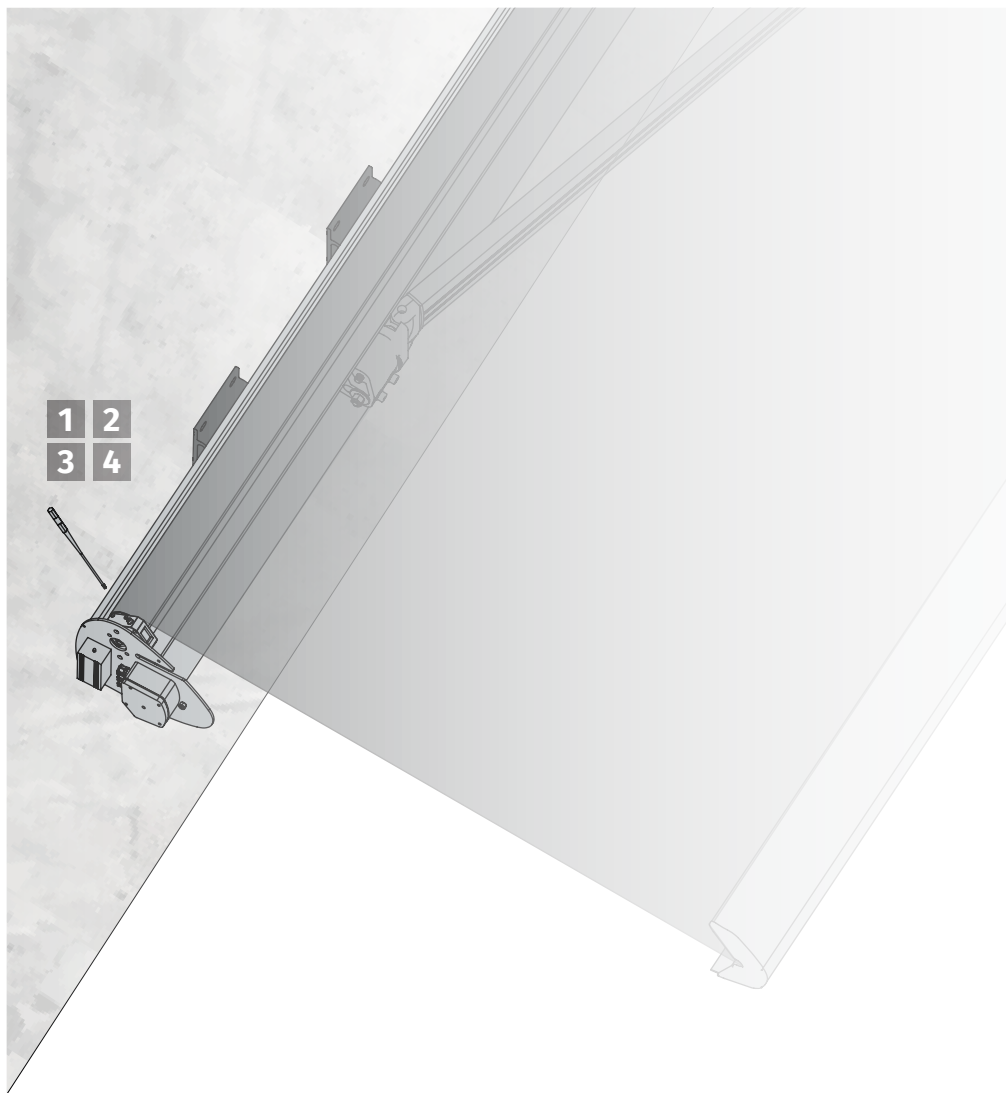
#### 1 UNLOCKING AWNING

The awning is arranged so that, in case of power failure or other situation that prevents the electrical operation of the equipment, it is possible to open or close the awning manually by means of the crank.

- 2 Put the crank and turn it to open / close the awning.

## 04.REGULATION

### ENDS OF COURSE

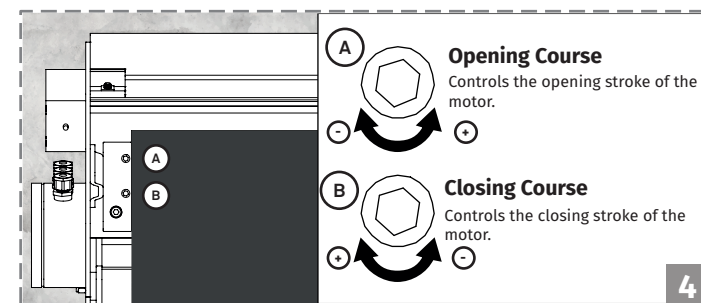
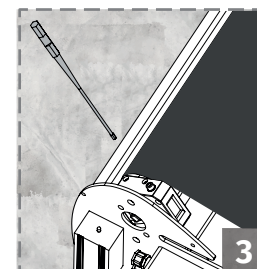
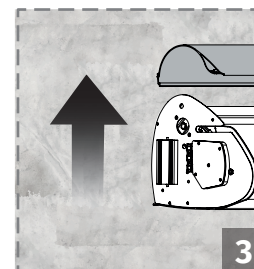
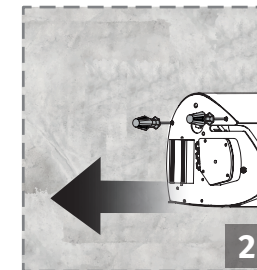
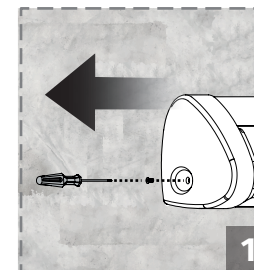


**1 UNLOCK THE SCREWS**  
Unscrew the screws and remove the covers on the left and right side.

**2 Fully loosen the 4 screws that secure the upper profile to the two covers.**

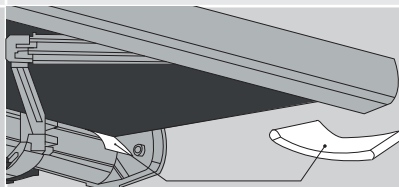
**3 REMOVE THE PROFILE**  
Remove the top profile from the cofre.

**4 START THE ENGINE**  
The tuning can be performed according to the image below.  
At the end, reinstall the profile and cover to close the awning.



## 05. TROUBLESHOOTING

### FINAL CONSUMERS AND SPECIALIZED TECHNICIANS INSTRUCTIONS

Problems	Behavior	Procedure
The awning is not secure properly on the wall.	<ul style="list-style-type: none"> <li>The screws are not suitable for the wall structure.</li> </ul>	<ul style="list-style-type: none"> <li>Check the installation measures.</li> <li>Check that the number of screws is sufficient and that they are indicated in this manual.</li> </ul>
The awning does not remain level after opening.	<ul style="list-style-type: none"> <li>Changes to the tarpaulin after several maneuvers.</li> <li>Incorrect adjustment of the top or articulated arms.</li> </ul>	<ul style="list-style-type: none"> <li>Check the level of the wall brackets.</li> <li>Check the level of the square tube.</li> <li>Correct the inclination of the arms taking into account the instructions in the manual.</li> </ul>
The top does not close in full.	<ul style="list-style-type: none"> <li>Defacing the top or limit switch.</li> </ul>	<ul style="list-style-type: none"> <li>Adjust the arms.</li> <li>Adjust the top slope.</li> <li>Tune the motor limit switches.</li> </ul>
The top does not close on one side.	<ul style="list-style-type: none"> <li>Natural screen extension.</li> </ul>	 <ul style="list-style-type: none"> <li>Open the awning.</li> <li>Place a folded plastic can in 4, on the side where the screen changes, between the tube and the screen. If necessary add more shims until the screen is normal. If the latch still does not fit, fold the plastic latch further to gain thickness and redo the same operations.</li> </ul>
The awning does not work and the motor makes no noise.	<ul style="list-style-type: none"> <li>The motor enters thermal protection after 2 openings and 1 lock.</li> </ul>	<ul style="list-style-type: none"> <li>Wait 20 minutes.</li> </ul>
The awning does not work and the motor makes no noise.	<ul style="list-style-type: none"> <li>Protection problem.</li> </ul>	<ul style="list-style-type: none"> <li>Check the motor connection.</li> <li>Check engine operation by connecting directly to mains.</li> </ul>