

INSTALLATION INSTRUCTIONS

WIBAT APPLIQUE Product 230 V AC ou 24 DC

VERSION 3-04

Certificate of Guarantee – Caution Notice

Important safety instructions.

It is important for the safety of all users to follow these instructions; please keep these instructions.

WIBAT APPLIQUE is exclusively designed for opening and closing swing shutters. It must not be used for any purpose other than that specified in these instructions. The manufacturer or supplier shall not be liable for any damage resulting from improper use thereof. The user alone shall be solely liable and assume any risks arising from improper use of the product.

This shutter motor must be installed by persons fully aware of the hazards involved in currents, drilling and chemical sealing who have the requisite qualifications to work on domestic installations in accordance with good practice.

Follow all the instructions because faulty installation can cause injury.

The assembly steps must be followed, as must the operating instructions, and safety rules must always be heeded.

Before installing the shutter motor, check that both the driven part and the entire WIBAT APPLIQUE are in good physical condition and that the structure has the necessary load-bearing capacity for the WIBAT APPLIQUE in its entirety.

The electrical installation must be done according to prevailing national standards and in accordance with all legal obligations and/or prevailing obligations to that effect.

(Electrical compatibility: voltage and frequency as marked on the product and that of the power network where it will be used.) Do not connect the device without first checking that the control circuit is dead.

Check the installation frequently to detect any imbalances or signs of wear or damage. Do not use the device if it needs repairing or adjusting.

Disconnect the power supply when cleaning it or carrying out other maintenance or servicing tasks.

Never modify or fit any additional parts to the device that may compromise safety without MANTION SMT's written permission.

Be very careful not to get your fingers caught when using the device.

The user alone is solely and entirely responsible for any breach of these safety rules, and any damage resulting there from.

The product must be stored indoors in a dry place at a temperature of between 0°C and +45°C. When fitting it, the installation engineer must heed accident prevention instructions and the standards in force in the country.

Do not immerse the gear motor in water or splash it.

Do not dispose of it in fire or bring it into contact with flame or any heat source.

Do not use household products or chemicals to clean it. Only use a moist sponge and soap.

Do not dispose of the packaging in the environment; treat waste according to the standards in force in the country.

Keep products, devices and documentation out of reach of children.

Do not let children play with the fixed control devices. Keep remote controls out of reach of children.

When using a switch without a lock, make sure everyone else is kept at a distance.

Use only the MANTION SMT-approved embedding kit and drilling equipment. The manufacturer or supplier shall not be liable for any damage resulting from the use of other products. If replacing the product, only use MANTION SMT or MANTION SMT-approved products.

Radio control:

Use of the wireless remote control is only authorized if any disturbance in the transmitter or receiver poses no danger to people or animals, or if such hazards are removed by other arrangements.

The user of the wireless control is not protected against interference generated by other telecommunications installations and remote-controlled devices. If there is a high level of interference, contact the organization in charge of measuring wireless interference (radiolocation). Do not use the radio transmitter in places sensitive to radio transmissions (airports, hospitals) or only after taking all the necessary precautions.

The swing shutter remote control may pose risks and for this reason please heed the following points when using it:

1. Make sure no object or person is within range of the swinging shutters.
2. Only operate them when direct visual inspection is possible.

The wireless control is not a toy; do not let children play with it. Keep it out of reach of children and animals.

Terms of the guarantee

MANTION SMT products come with a 5 (five) year guarantee from the date of delivery.

The guarantee is limited, as decided by MANTION SMT, either to replacement or to repair of products MANTION SMT recognizes as faulty, with the proviso that:

1. Subject to MANTION SMT's written permission to return the products, the said products are returned to MANTION SMT forthwith with the details of the fault and a copy of the installation engineer or dealer's bill stating the date of installation.
2. The products have been stored, installed, maintained and used in accordance with MANTION SMT's instructions and specifications.

The guarantee is strictly limited to the provisions of this clause, and any other guarantee or liability, including loss of profits or damage directly or indirectly resulting from the sale or use of the products, is excluded.

MANTION SMT shall on no account be liable for drilling and embedding conditions.

MANTION SMT shall in any event only be liable for the WIBAT APPLIQUE product. The guarantee does not apply in case of overvoltage or short-circuiting resulting for instance from connection errors, weather conditions such as lightning etc. The guarantee does not cover normal wear.

Technical Characteristics

WIBAT APPLIQUE is designed for opening and closing swing shutters (one or two leaves). It is designed for domestic use.

	Product with a 230 V power supply	Product with a 24 V power supply
Minimum width per leaf	0.40 m*	0.40 m*
Maximum width per leaf	0.8 m*	0.8 m*
Maximum area per leaf	1.6 m ² *	1.6 m ² *
Shutter thickness	≤ 40 mm	≤ 40 mm
Maximum weight per leaf	50 Kg	50 Kg
Maximum power rating	100 W	100 W
Supply voltage	230 V CA / 50 Hz	24 V DC ± 10%
Motor voltage	24 V DC	24 V DC
Motor torque	25 Nm	25 Nm
Protection rating	IP54	IP54
End of travel type	Dynamic (stops on an obstacle)	Dynamic (stops on an obstacle)
Opening/closing time	16 s	16 s
Operating temperature	-30/+70 ° C	-30/+70 ° C
Radio frequency	433.92 MHz	433.92 MHz
Colour	White RAL 9010 (other colours available on request)	White RAL 9010 (other colours available on request)

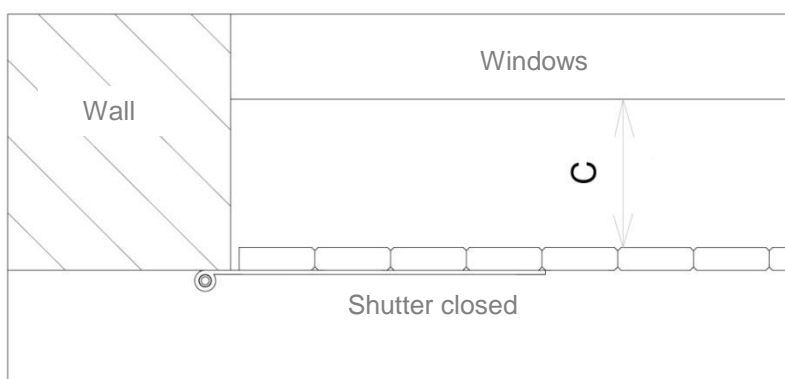
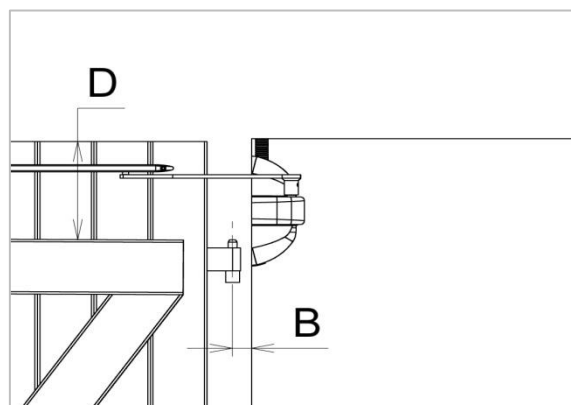
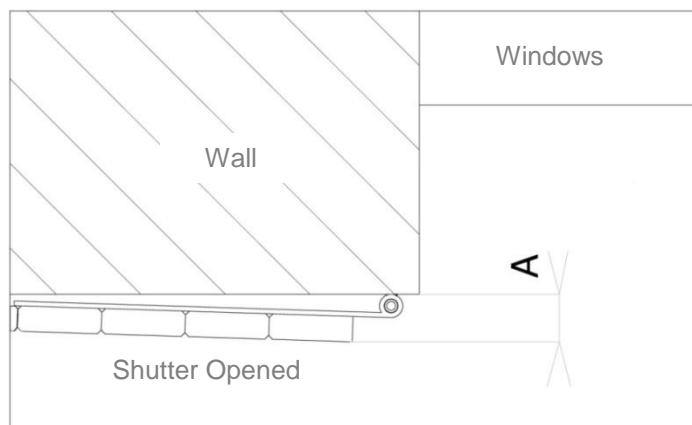
NB: All the data above is provided as a rough guide, subject to particular conditions (wind, condition of the hinges) and does not constitute a firm commitment on the part of MANTION SMT

**please enquire for any other dimensions.*



We recommend you do not operate the WIBAT- APPLIQUE in very strong winds; this could damage the shutters and the device

Dimension to check



Dimension A: Distance between wall and outside of shutter: 65 mm max.

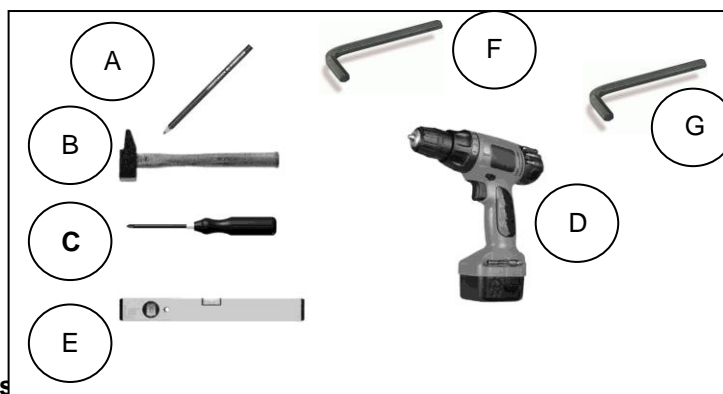
Dimension B: Distance between frame and hinge centreline: 40 mm max.

Dimension C: Distance between window and closed shutter = 155 mm min.

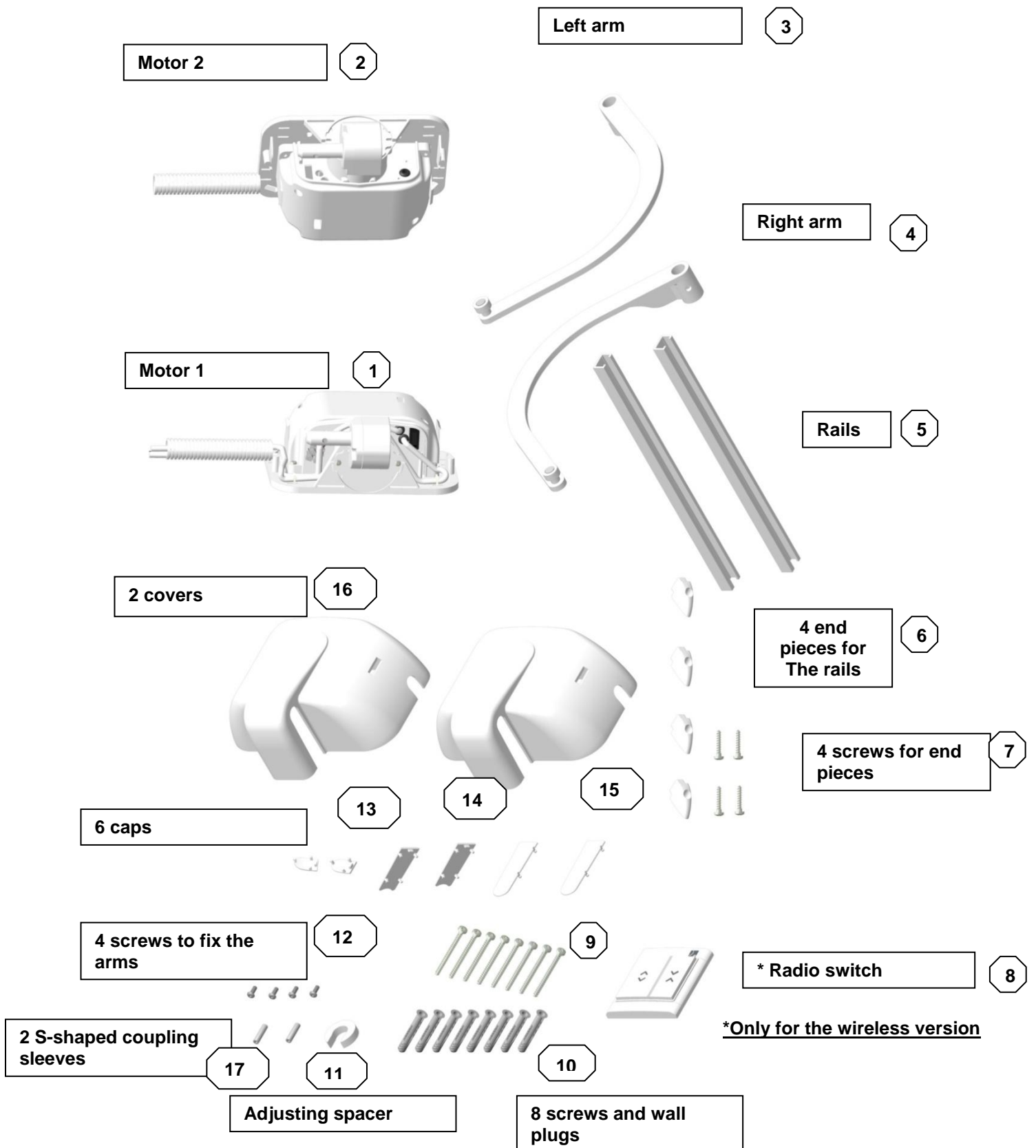
Dimension D: Distance between the top of shutter and horizontal bar = 155 mm min.

Tools needed for fitting:

- A: 1 pencil
- B: 1 hammer
- C: 1 "Pozidriv" screwdriver**
- D: 1 drill + 1 8-mm masonry bit
- E: 1 level
- F: 1 2.5-mm hexagonal male key
- G: 1 Torx key tx 30



Contents of the 2-shutter motor kit:

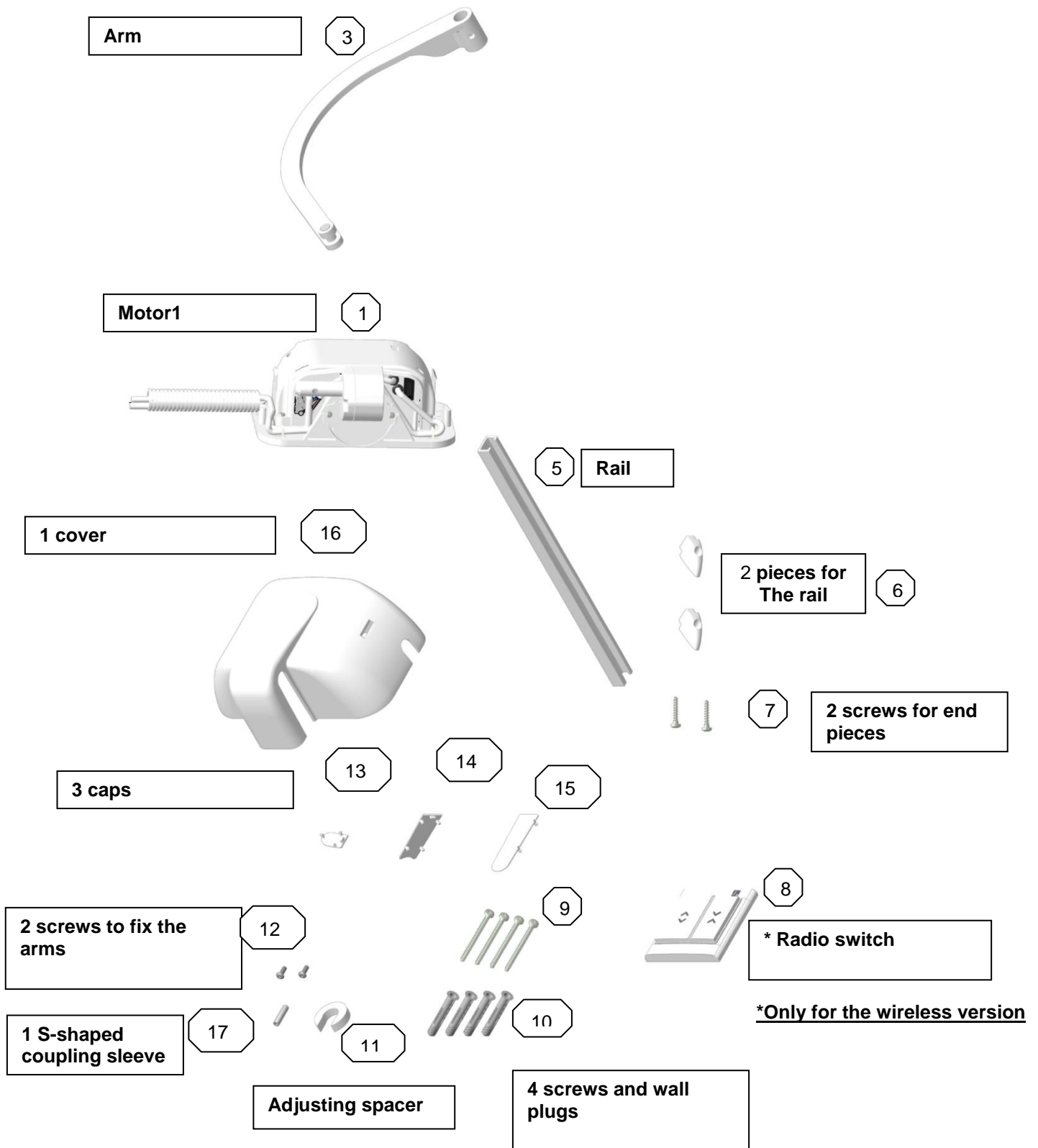


***Only for the wireless version**



The SRX 8-60 wall plugs are supplied only for fixing in concrete, solid and hollow breeze-blocks

Contents of the 1-shutter motor kit:

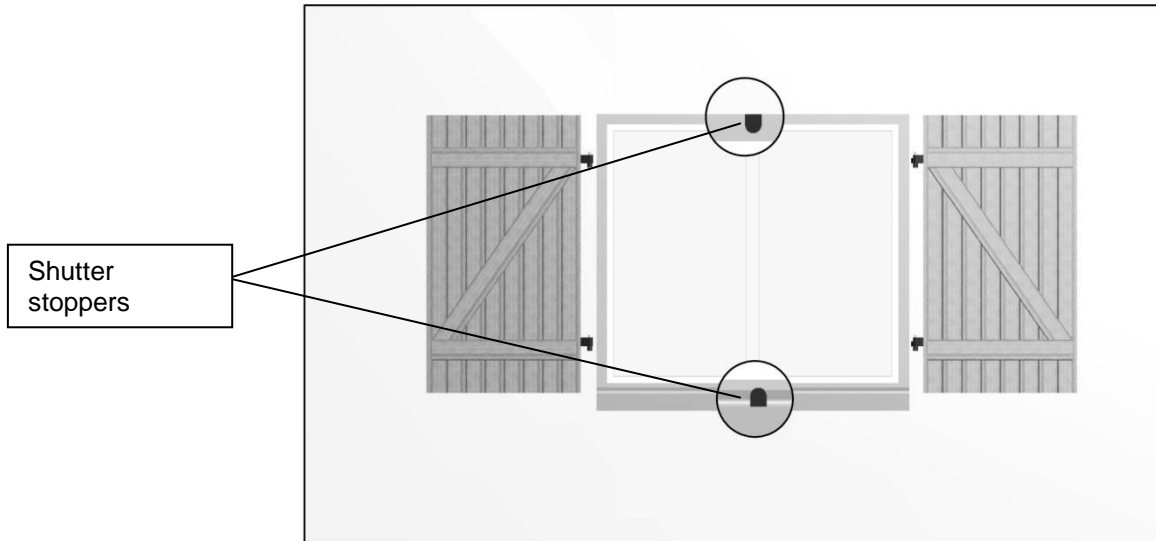


The SRX 8-60 wall plugs are supplied only for fixing in concrete, solid and hollow breeze-blocks

1 - Before fitting

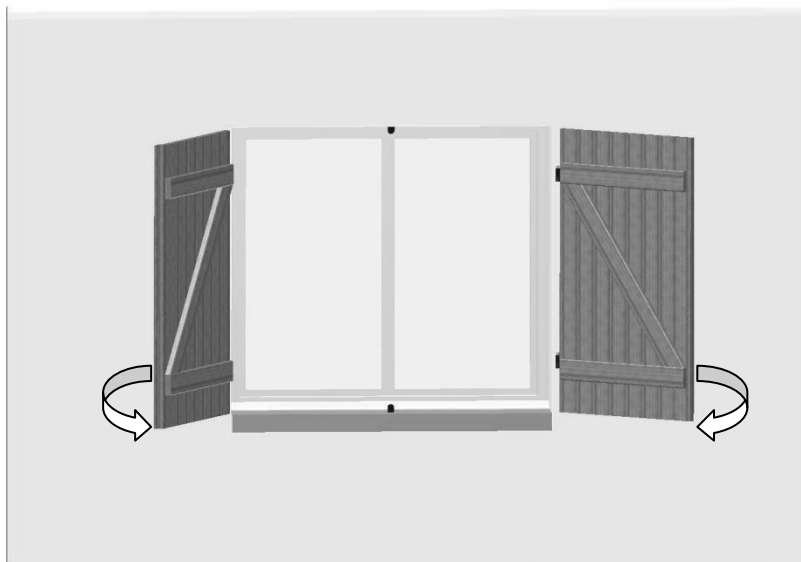
1.1 Verify the presence of high and low shutter stoppers

The presence of high and low shutter stoppers is essential for the proper functioning of the product.



1.2 Make sure the shutters rotate properly.

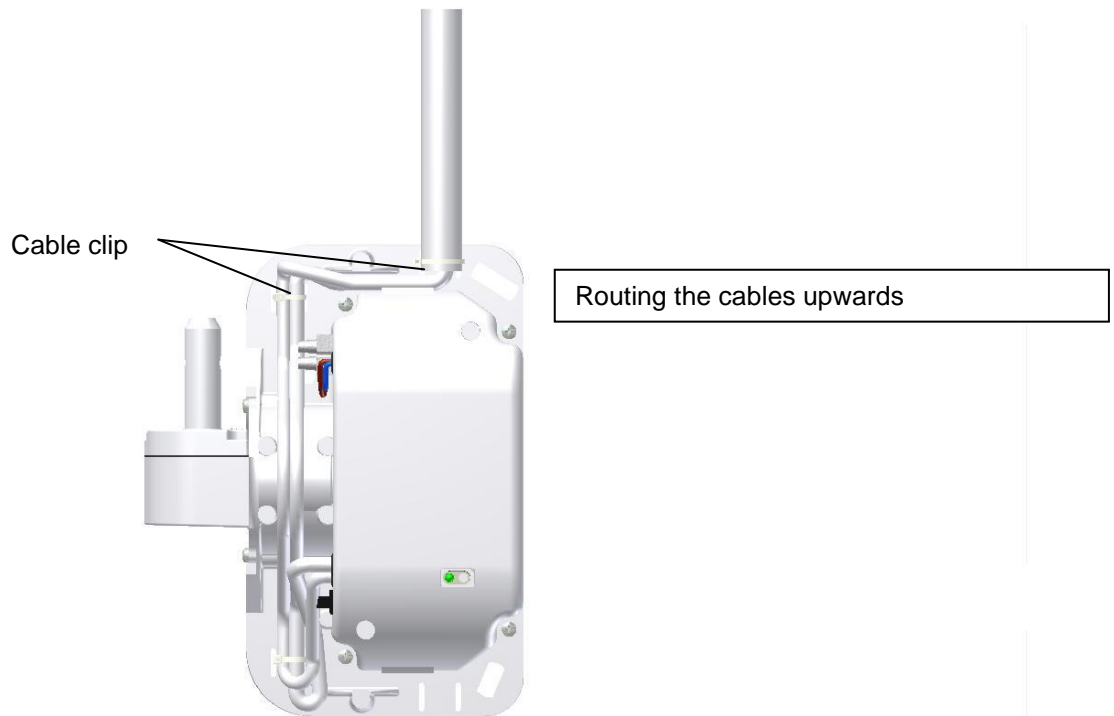
Open the shutters 45°, if they continue moving on their own, they are not plumb.



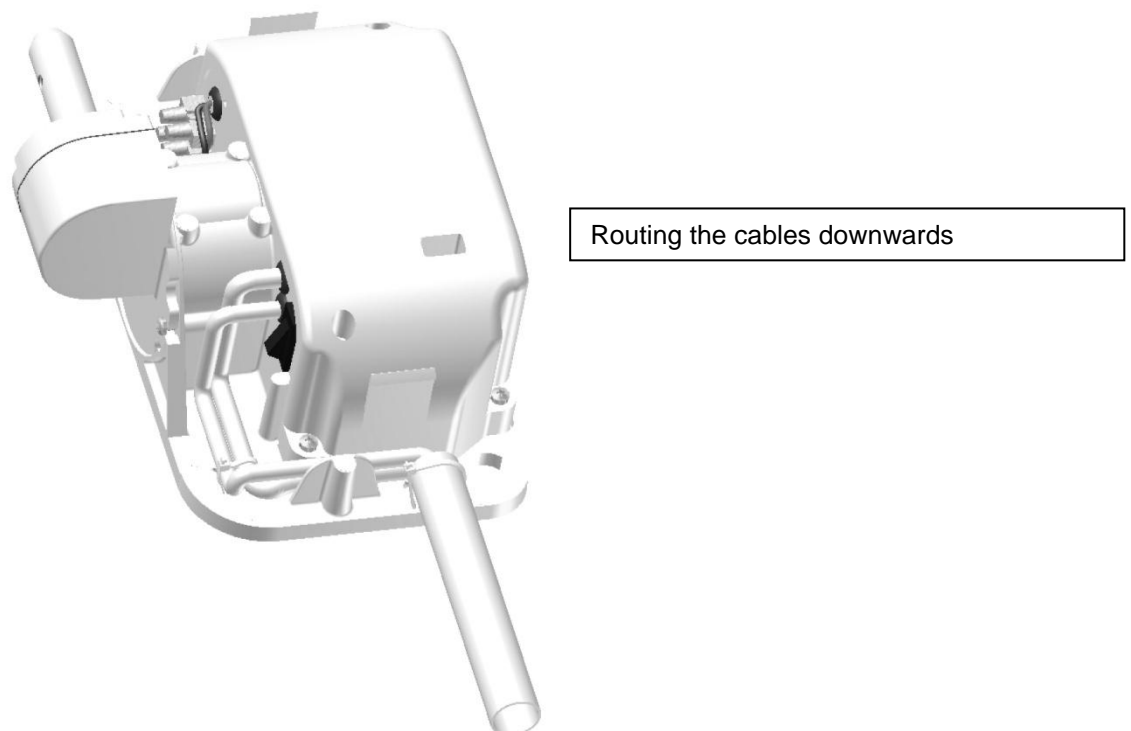
Adjust the strap or hook-and-eye hinges to solve this problem, because this could prevent the WIBAT APPLIQUE from working properly.

1.3 Routing the cables downwards

Wibat–Applique is pre-wired for routing the cables upwards. If you need to route them downwards:
Cut the cable clip holding the sleeve and cables together

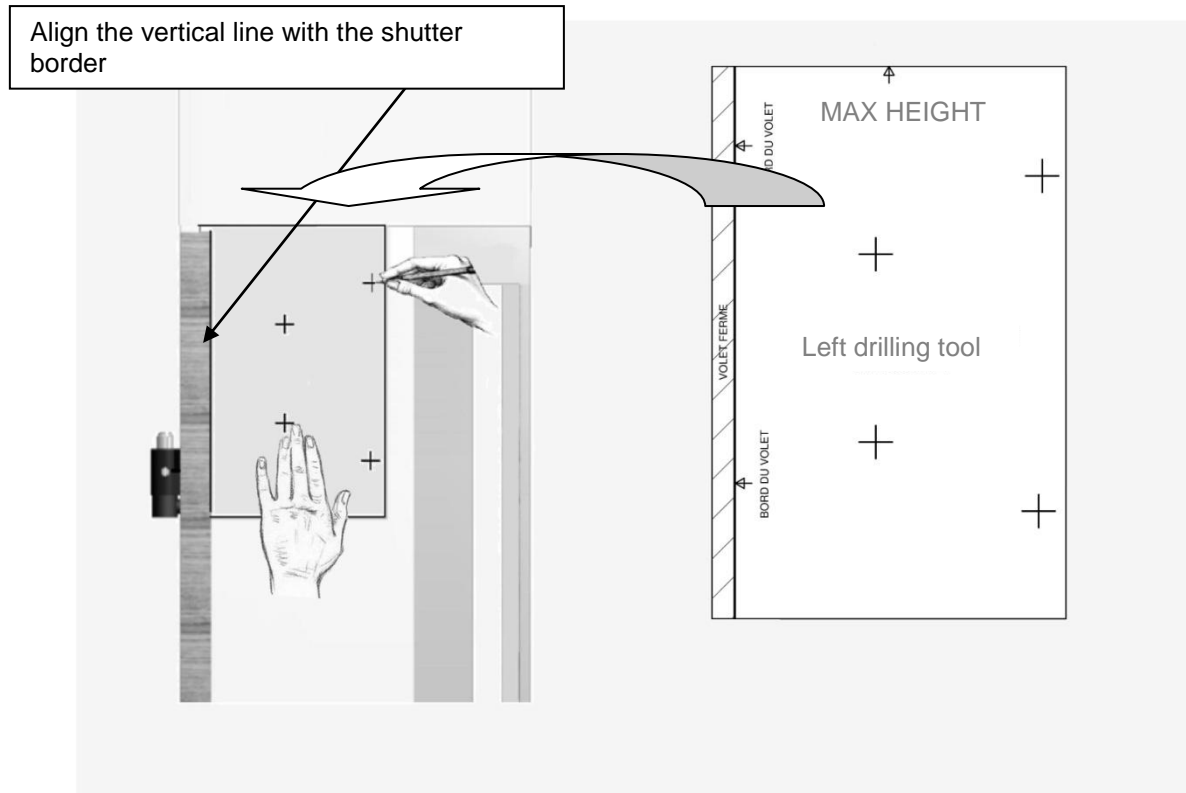


Place the sleeve at the bottom of the plate, thread the cables through the sleeve again and fasten them with the cable clip



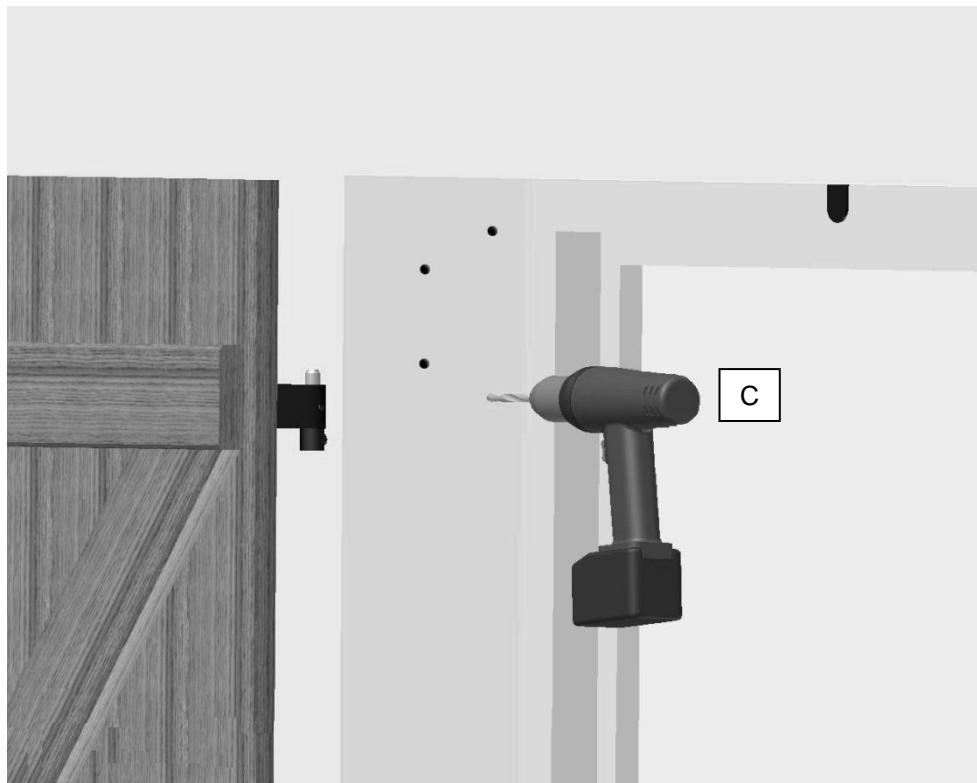
2 –Drilling the reveals

Place the template on the reveal. The vertical line must be opposite the closed shutter

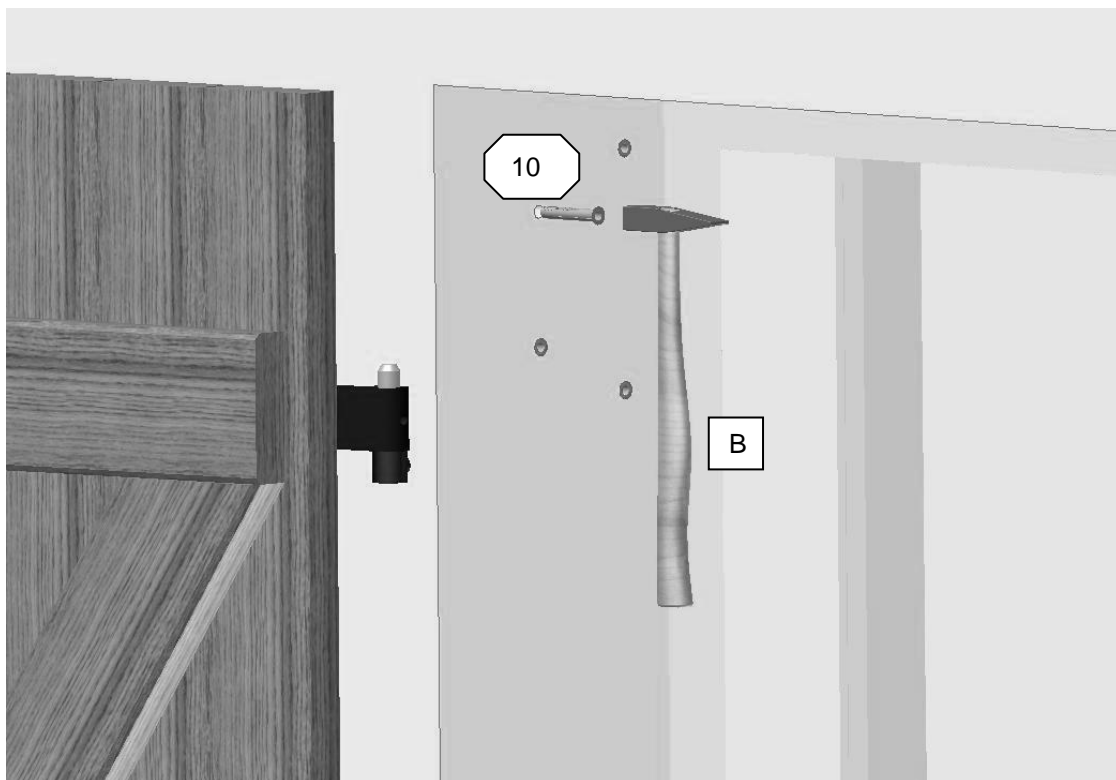


Mark out the 4 points

Drill a 60-mm hole with an 8-mm masonry bit

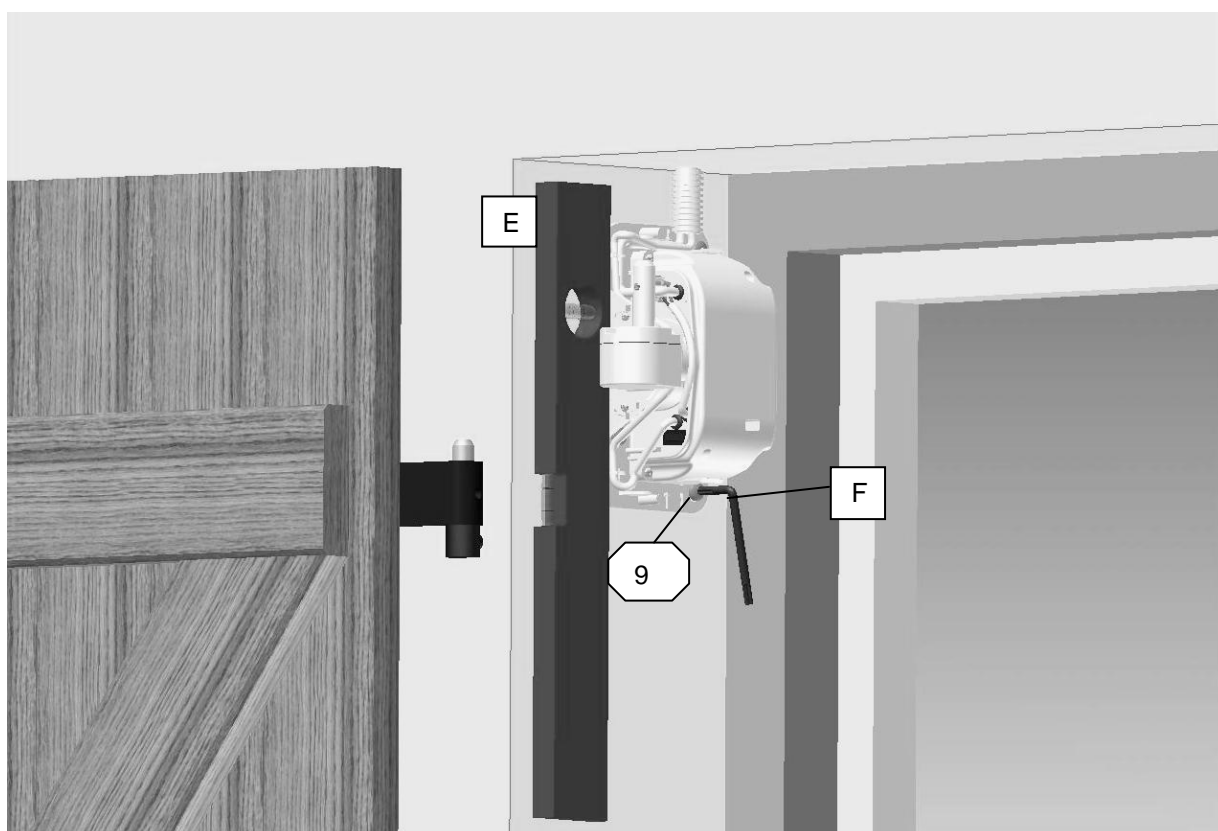


Hammer the SRX 8x60 10 wall plugs into the holes with the aid of hammer B




3 –Mounting the shutter motor.

Mount the WIBAT APPLIQUE with the 4 screws 9 without tightening them.
Place level E on the footing so that the face of the product is vertical.
Tighten the screws with the 2.5-mm hexagonal key. F

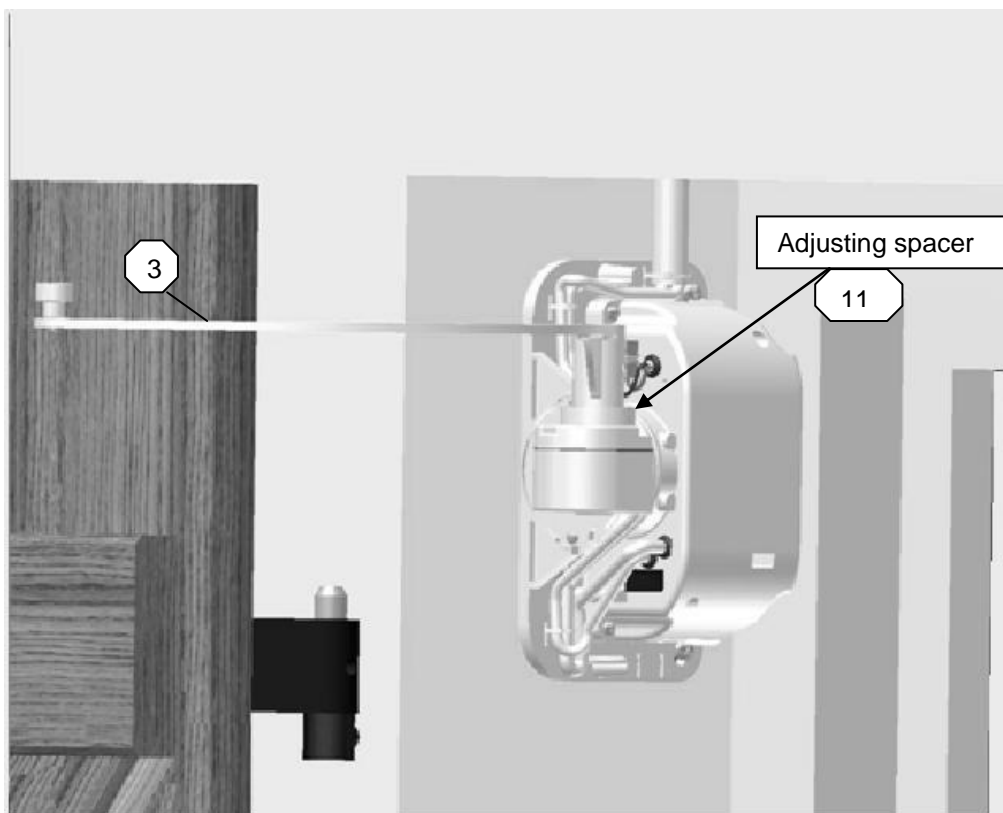


4 –Fitting the guide rail

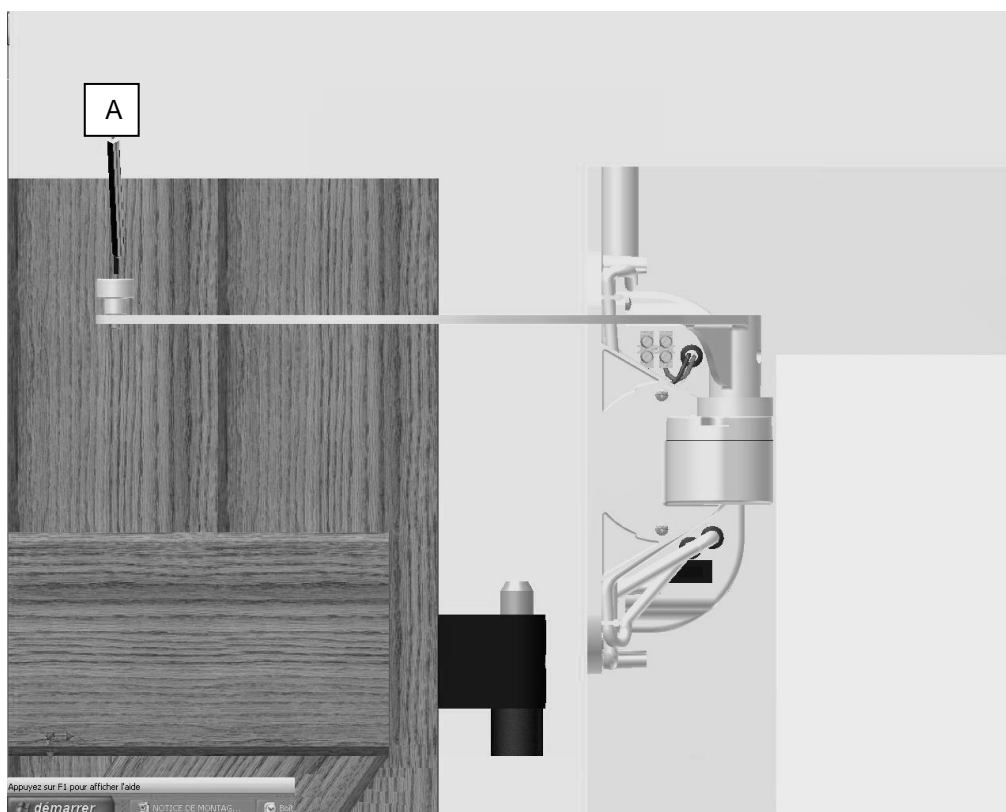
NB: for 400-mm shutters the rail must be placed on the outer edge of the shutter.

Place the adjusting spacer  on the shutter motor hinge.

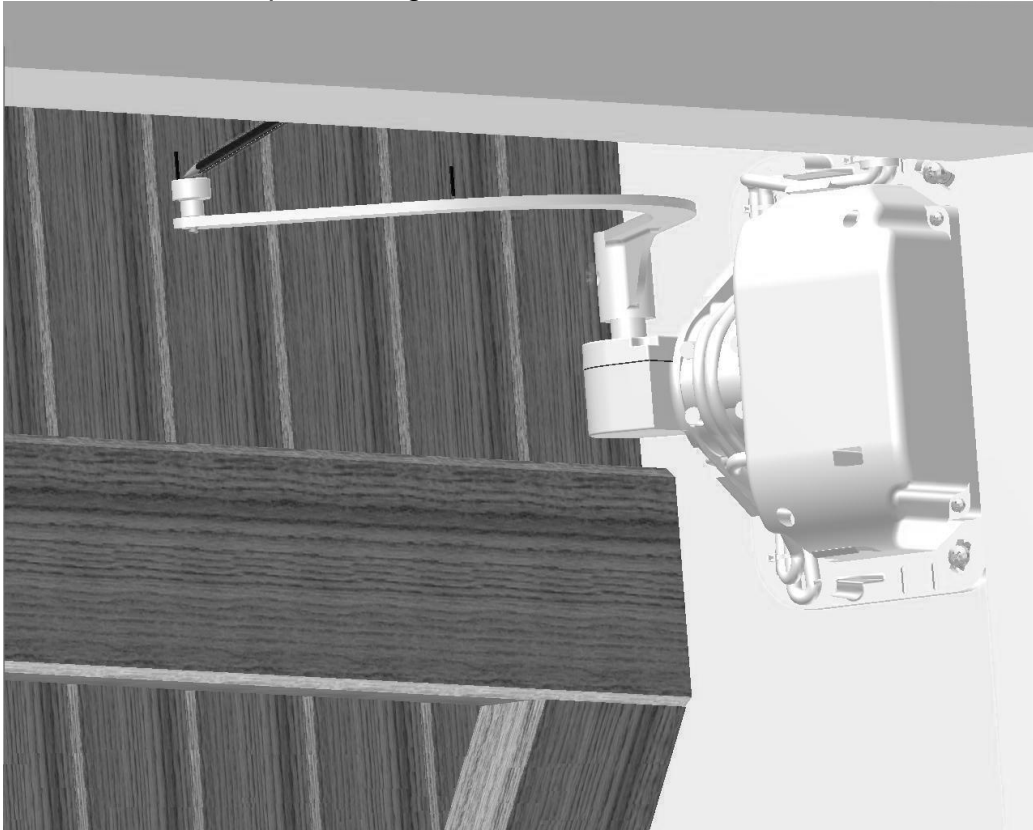
Put the arms  in place without fixing them.




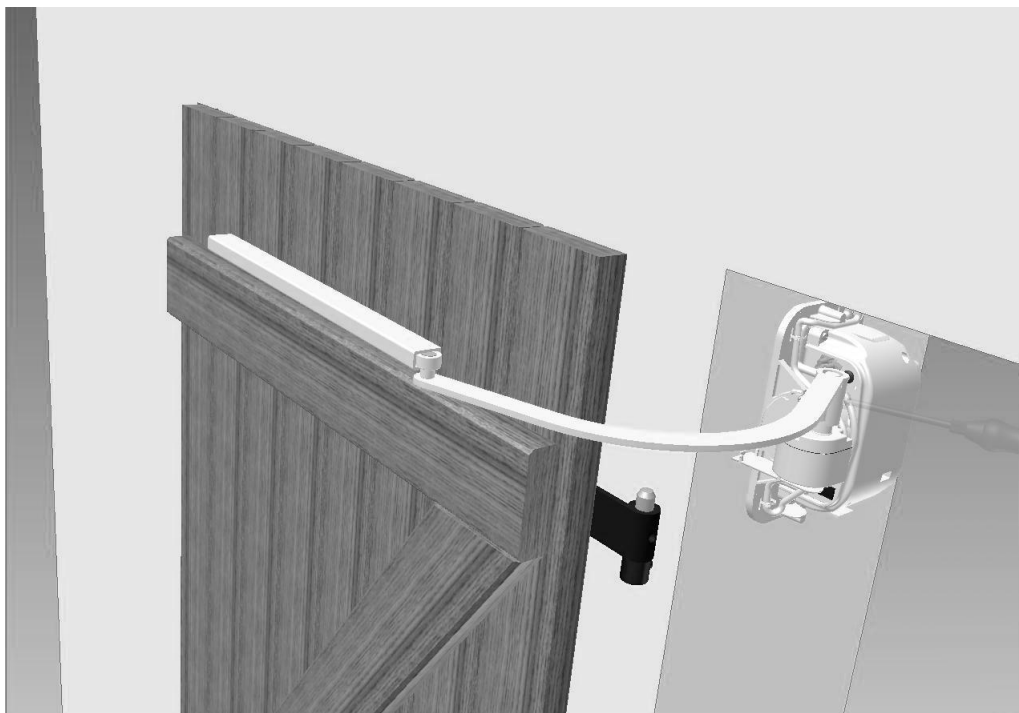
With pencil A, mark the position of the centreline of the roller on the open shutter.




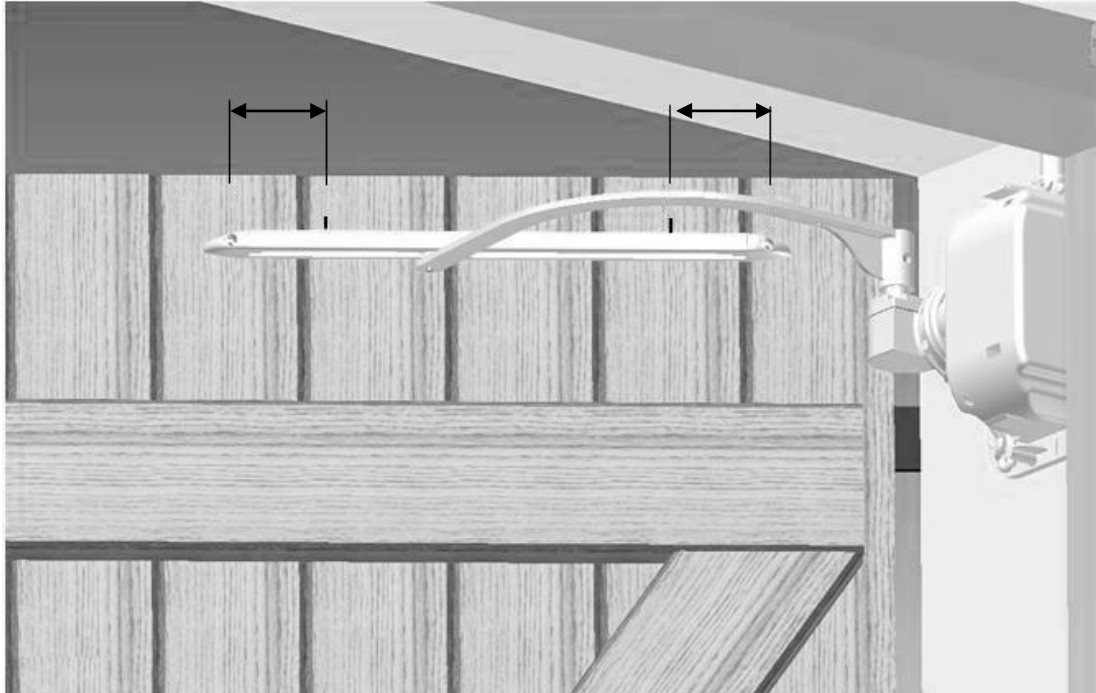
Close the shutter and mark the position again.




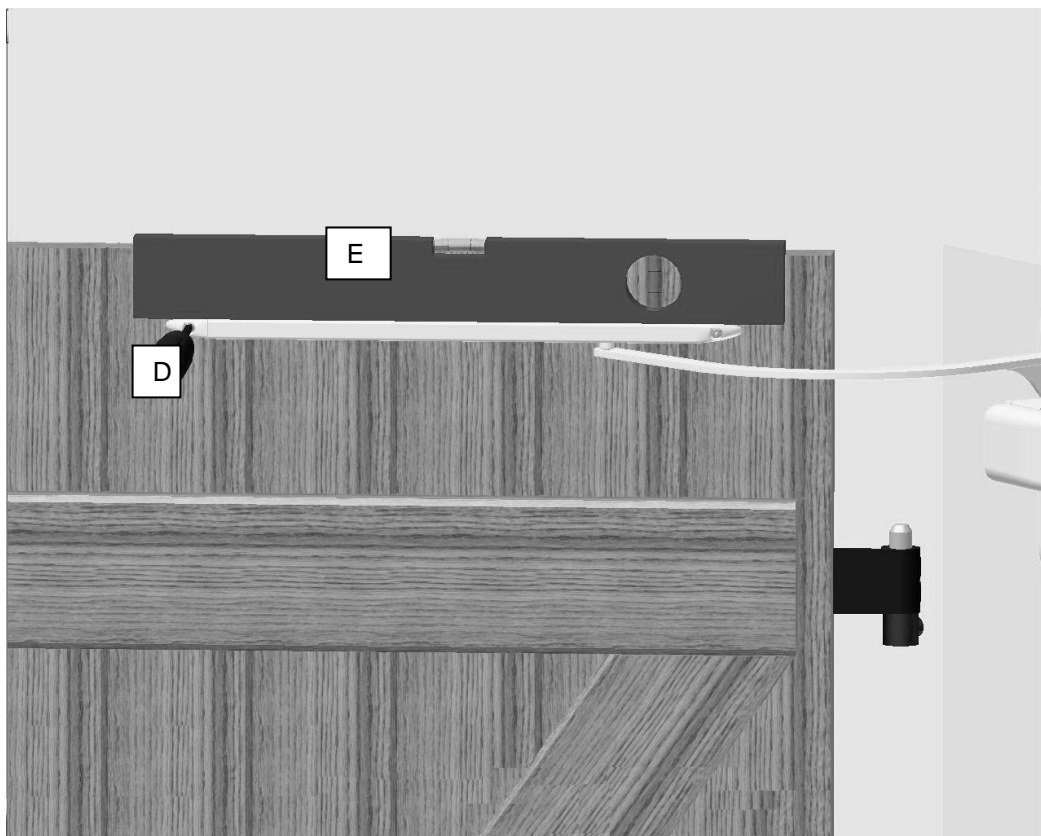
Slide the roller in the rail 



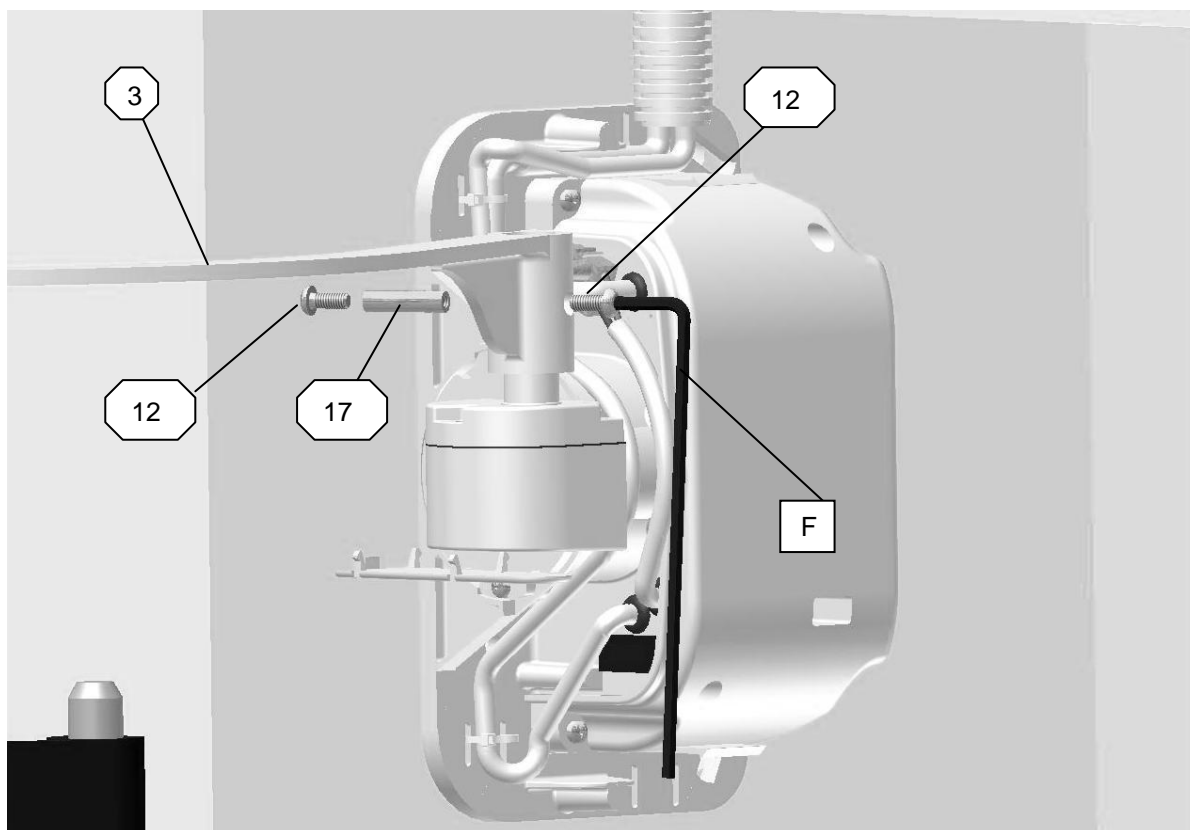
Mount the 2 end pieces  and bring the shutter close to the rail.
Position the rail in such a way that the distance between the marks and the screw holes is the same on either side.



Make sure the rail is level then tighten the screws. 



Check that the shutter rotates properly. The shutter should open and close smoothly.
Remove the spacer and fit the sleeve **17** with the 2 M4 screws **12**



5 – Repeat steps 2, 3 and 4 for the second shutter

ELECTRICAL CONNECTION



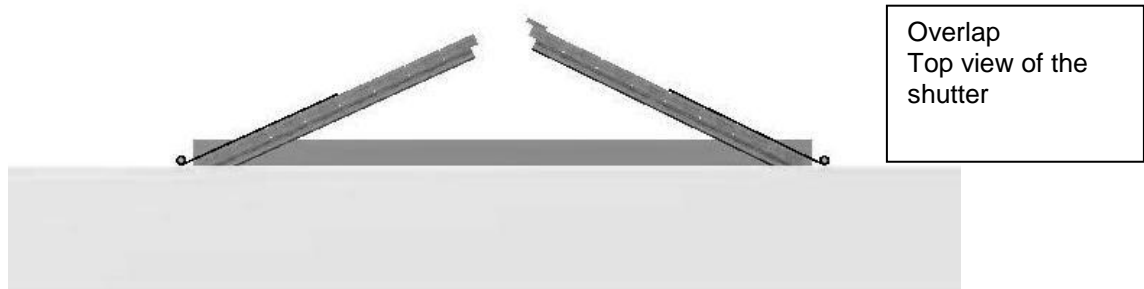
Pay attention to your safety:

- The electrical installation must be carried out in accordance with the national standards in force, as well as any obligations foreseen by the law and/or by all obligations in force, laid down for this purpose.
- Electrical connection must take place without voltage: Do not connect the sector before having disconnected all assembly operations.
- Do not use any switches other than those supplied in the kit (4)
- If the cables are damaged, contact our after-sale department.

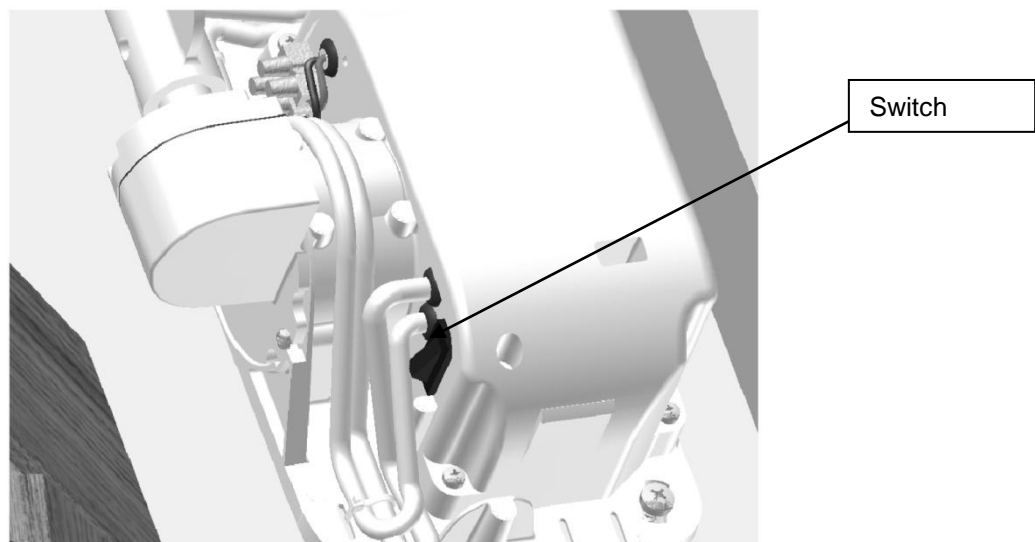
Identification of motors.

The leaf with the overlap is the first to open.

As standard the WIBAT APPLIQUE is prepared for shutters with an overlap as shown in the figure below.



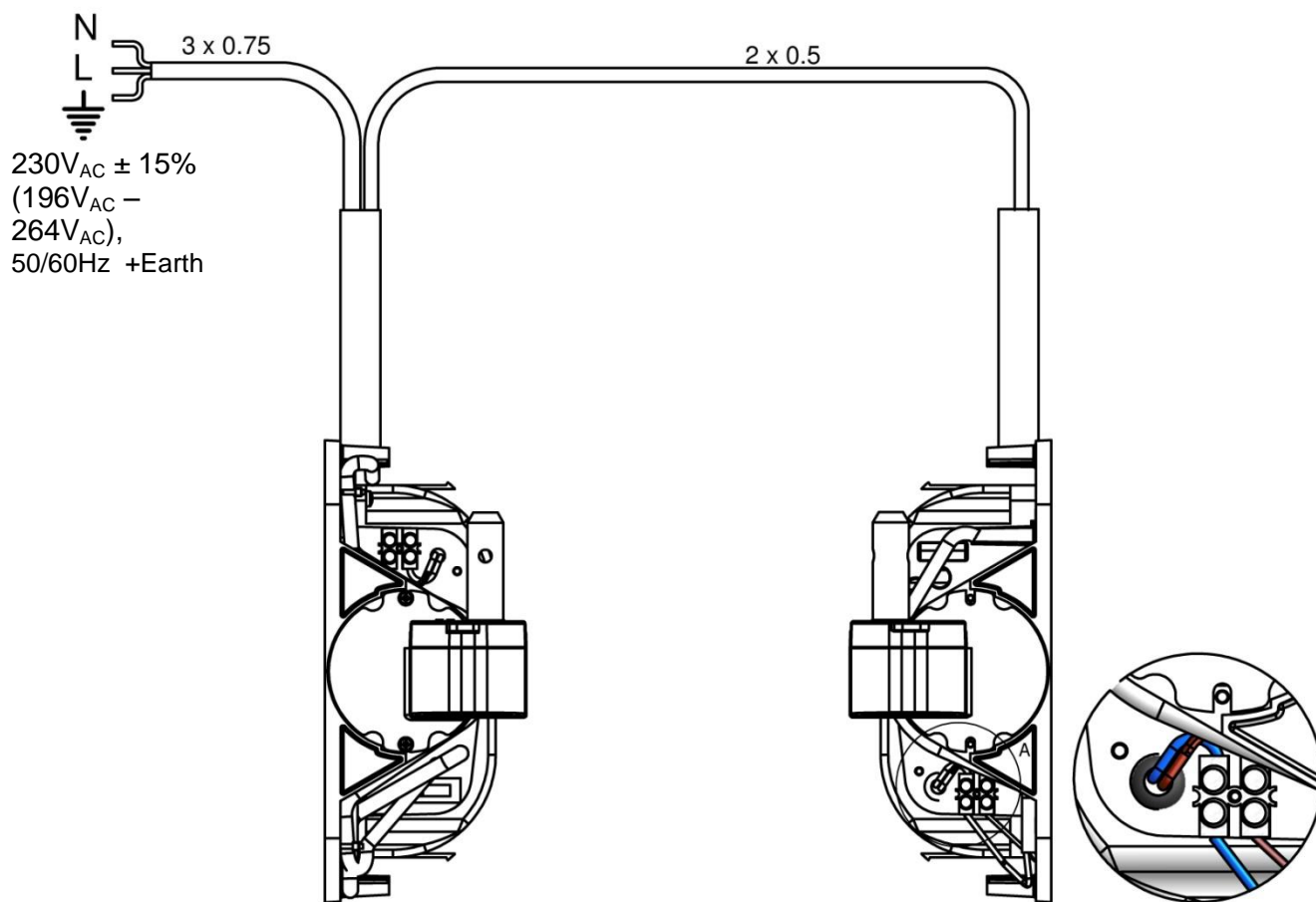
If the overlap is on the other leaf, you need to invert the switch.



230V radio control version

The installation must be equipped (L, N) with a two-pole external circuit-breaker (or selector switch) on the primary side, in order to isolate the product if necessary.

Recommended external protection: Thermal magnetic circuit-breaker 4A, curve C or equivalent




1 Connect the second motor to the "Motor 2" connector with the 2 x 0.5 cable, matching the colours of the wires already connected to the connector. (Blue on blue and brown on brown).

Only for the two-shutter version. For the single shutter version (left or right), this cable does not exist.

2 Connect the power supply.

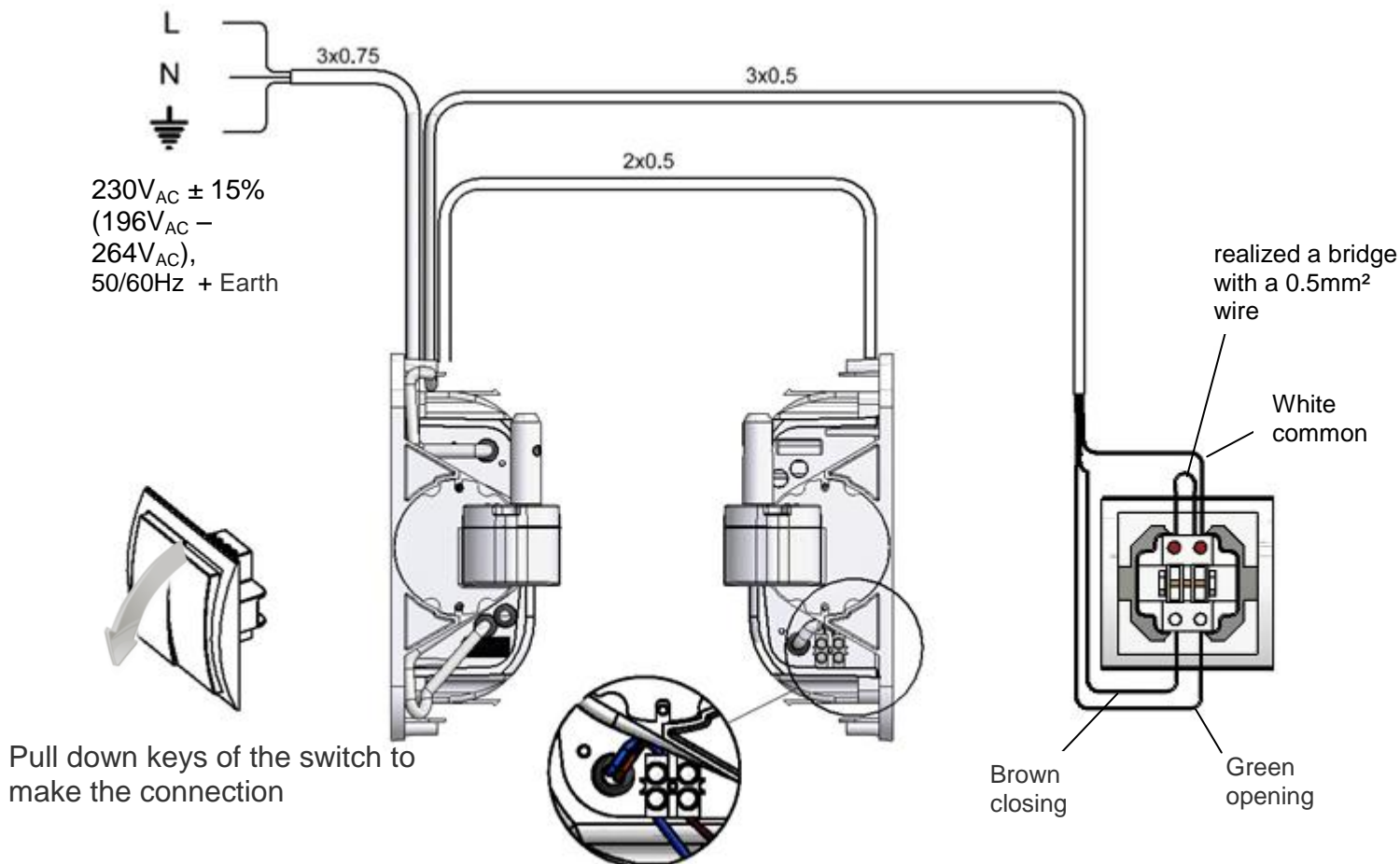
For your safety: check that the installation is powered down when connecting.

Terminals	Phases	Colour
L	Phase	Brown
N	Neutral	Blue
	Earth	Yellow/Green

230V wired version

The installation must be equipped (L, N) with a two-pole external circuit-breaker (or selector switch) on the primary side, in order to isolate the product if necessary.

Recommended external protection: Thermal magnetic circuit-breaker 4A, curve C or equivalent




1 Connect the second motor to the "Motor 2" connector with the 2 x 0.5 cable, matching the colours of the wires already connected to the connector. (Blue on blue and brown on brown).
Only for the two-shutter version. For the single shutter version (left or right), this cable does not exist.

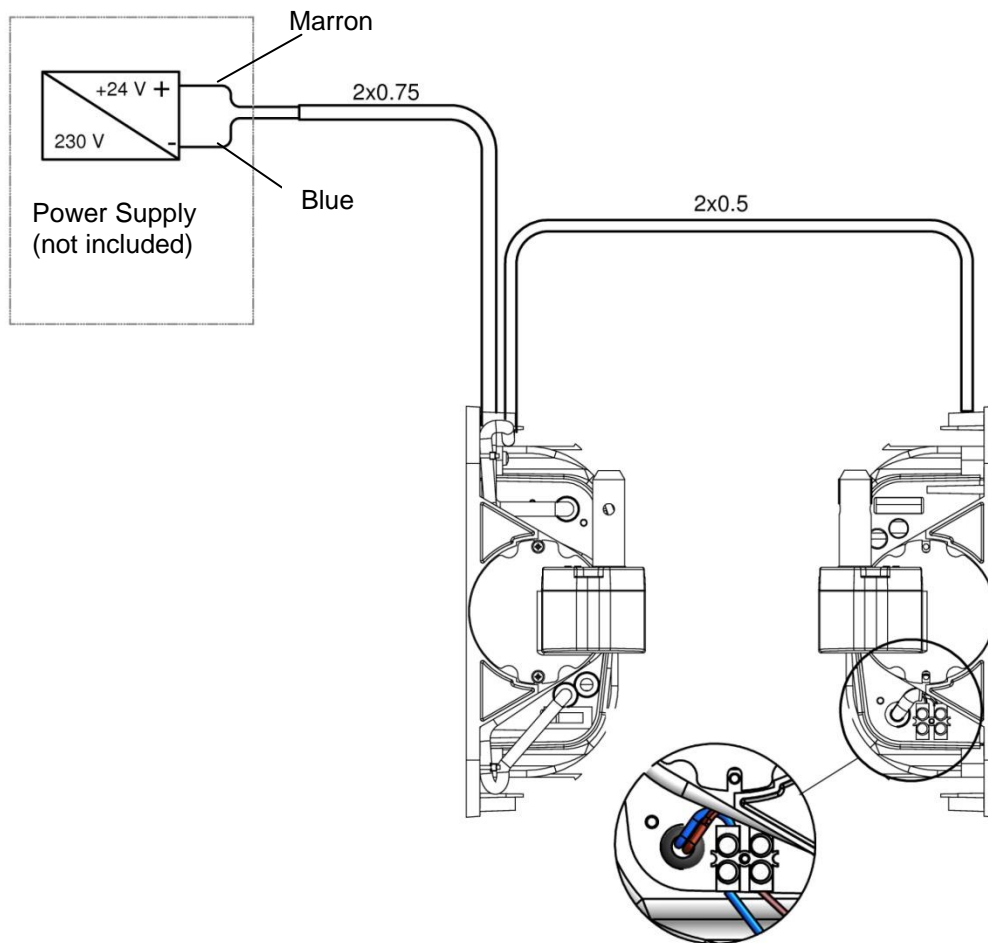
2 Connect the switch.

3 Connect the power supply.

For your safety: check that the installation is powered down when connecting.

Terminals	Phases	Colour
L	Phase	Brown
N	Neutral	Blue
	Earth	Yellow/Green

24V DC radio control version



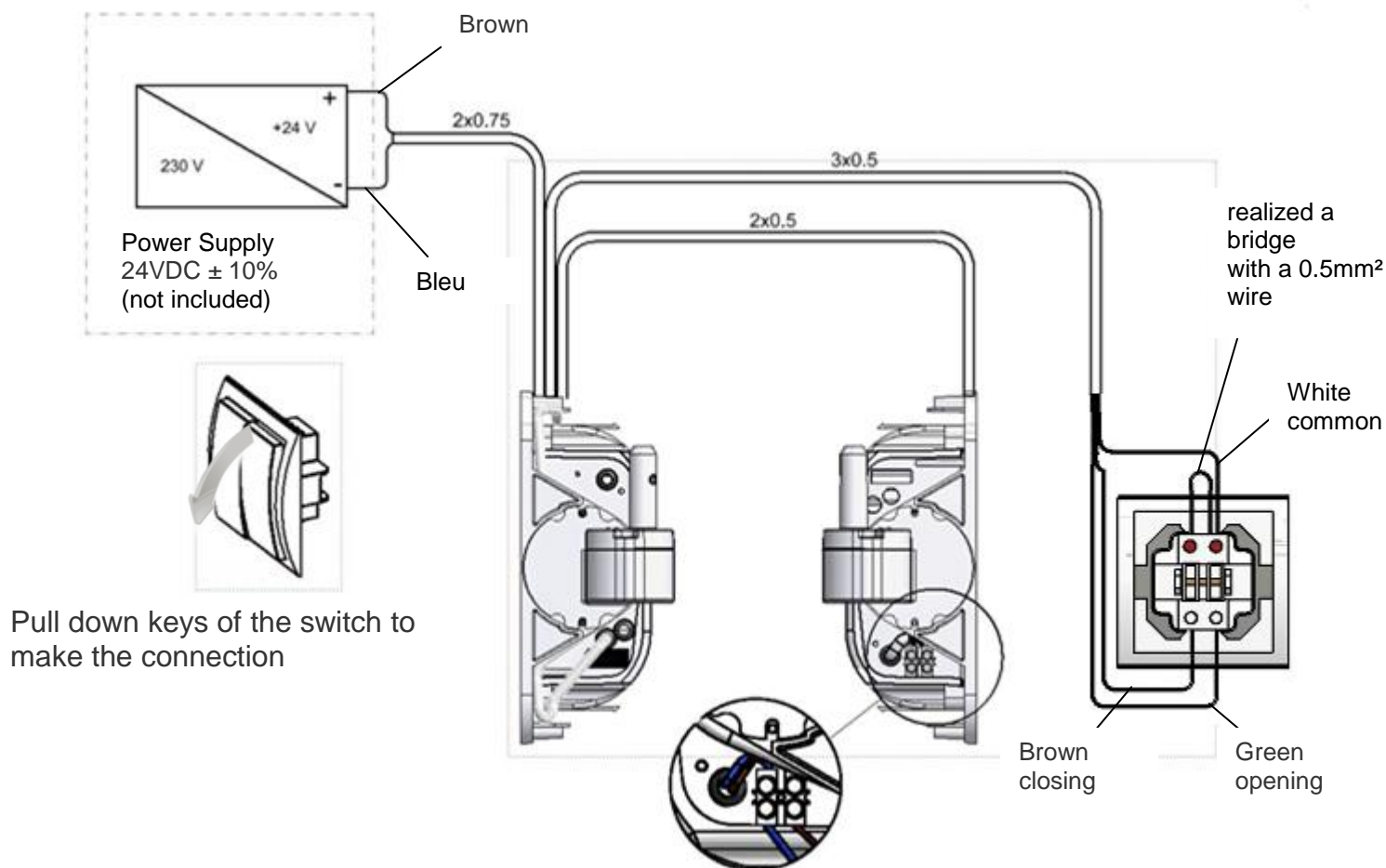
1 Connect the second motor to the "Motor 2" connector with the 2 x 0.5 cable, matching the colours of the wires already connected to the connector. (Blue on blue and brown on brown).
Only for the two-shutter version. For the single shutter version (left or right), this cable does not exist.

2 Connect to the 24V power supply, the brown wire to the +24V, the blue to the 0V.
For your safety: check that the installation is powered down when connecting.



The power supply connection must comply with the recommendations of its manufacturer.

24V wired version



1 Connect the second motor to the "Motor 2" connector with the 2 x 0.5 cable, matching the colours of the wires already connected to the connector. (Blue on blue and brown on brown).

Only for the two-shutter version. For the single shutter version (left or right), this cable does not exist.

2 Connect the switch.

3 Connect to the 24V power supply, the brown wire to the +24V, the blue to the 0V.
For your safety: check that the installation is powered down when connecting.



The power supply connection must comply with the recommendations of its manufacturer.

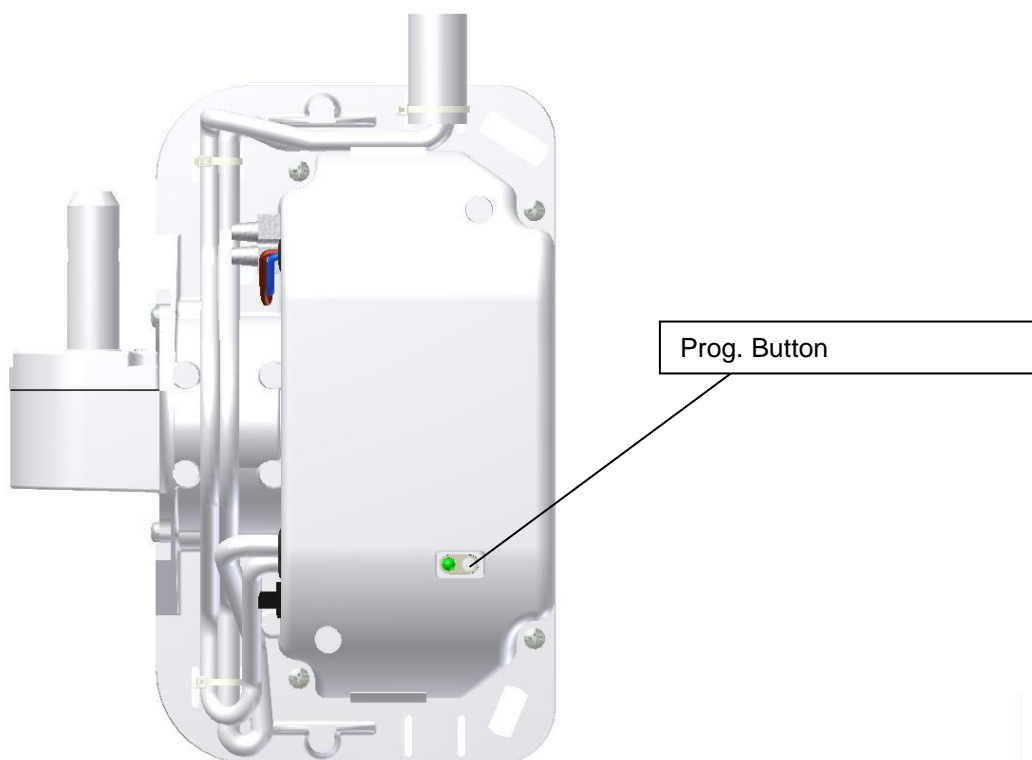
Start-up

Learning

The motors run at slow speed until the learning phase has been completed.

Operating procedure:

- 1) Remove the protective sticky tape
- 2) Only for radio products:
Pairing your radio transmitter by following the instructions provided in the instructions for pairing radio.
- 3) Start the learning cycle:
With a small screwdriver, press the prog.
- 4) The shutters open completely and then close. The Led blinks during all this cycle
- 5) During the closing, shutter 2 is shifted 6 seconds compared to shutter 1.
- 6) When the shutter is close and the Led is no longer flashing, the system is operational
- 7) Replace the protective sticky tape



Operating the shutters

Opening of the shutters	Press on the open push button
Closing of the shutters	Press on the close push button
Stopping of the shutters in middle position	Repeat the last command. (Open button when opening in progress) (Button closure if closure in progress.)

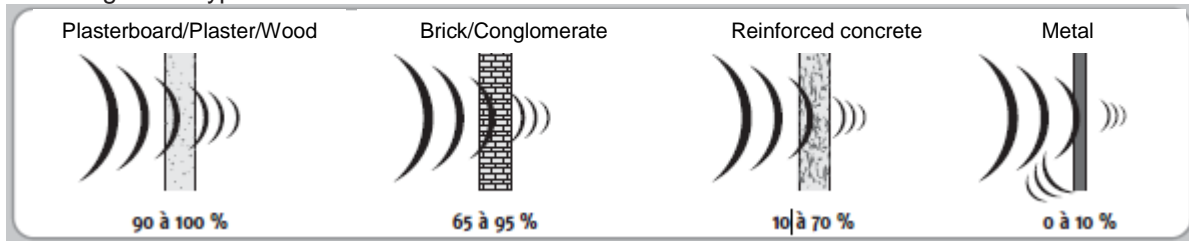
WIBAT APPLIQUE is equipped with a current-measuring safety device. If any obstacle is encountered when the shutter is opening or closing, the shutter reverses its direction and returns to its initial position.

Wireless setup instructions

1 – Radio specifications:

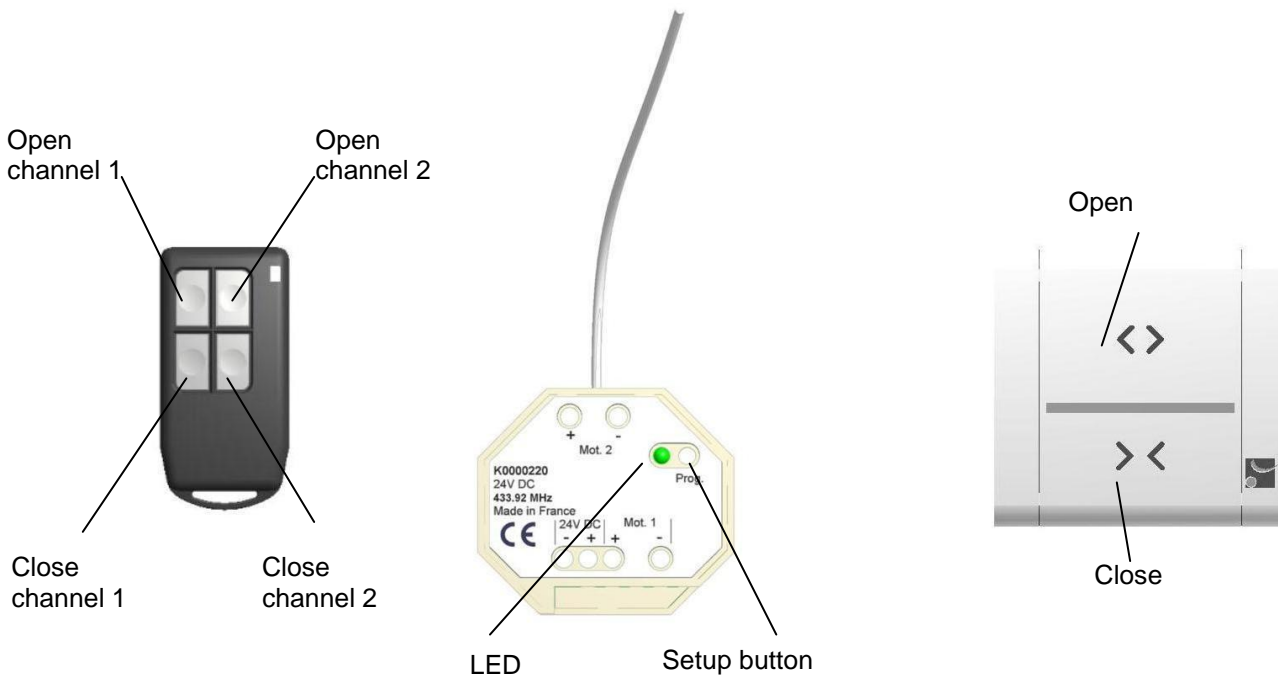
Frequency : 433.92MHz
Transmitter range : approx: 70 metres line-of-sight*

* Propagation of radio waves varies according to the medium they traverse. The range of the radio waves will vary according to the type of construction:



If reception is poor, use the radio repeater ref. C0004760.

2 – Setup



Peering a switch:

1. **Press and hold down the setup button** for roughly 5 seconds.
The LED comes on (the card is in "radio peering" mode)
2. While the LED is on and not flashing: **press the "open" and "close" buttons simultaneously** on the switch.
The LED flashes quickly then goes out: the switch is now peered.

Peering a remote control:

1. **Press and hold down the setup button** for roughly 5 seconds.
The LED comes on (the card is in "radio peering" mode)
2. While the LED is on and not flashing: **press the "open" and "close" buttons simultaneously** for the desired channel on the remote control.
The LED flashes quickly then goes out: the switch is now peered.

Peering a timer:

1. **Press and hold down the setup button** for roughly 5 seconds.
The LED comes on (the card is in "radio peering" mode)
2. While the LED is on and not flashing: **Refer to the timer's setup instructions.**
The LED flashes quickly then goes out: the timer is now peered.

Several Wibat can be peered with the same transmitter, and several transmitters can be peered with the same Wibat.

Disabling a switch:

1. **Press and hold down the setup button** for roughly 5 seconds.
The LED comes on (the card is in "radio peering" mode)
2. **Press and release the setup button**
The LED flashes slowly (card in "radio suppression" mode)
3. While the LED is flashing, **press "open" and "close" simultaneously** on the switch.
The LED flashes quickly then goes out: the button has been disabled.

Disabling a remote control:

1. **Press and hold down the setup button** for roughly 5 seconds.
The LED comes on (the card is in "radio peering" mode)
2. **Press and release the setup button**
The LED flashes slowly (card in "radio suppression" mode)
3. While the LED is flashing, **press the "open" and "close" buttons simultaneously** for the desired channel on the remote control.
The LED flashes quickly then goes out: the remote control has been disabled.

Disabling all transmitters (switches, remote control, timer):

1. **Press and hold down the setup button** for roughly 5 seconds.
The LED comes on
2. **Press and hold down the setup button** for roughly 5 seconds.
The LED flashes quickly then goes out: all switches have been disabled, learning is cleared too.

Other information

When the board is ready to receive a radio ID code (light on steady – record – or flashing slowly – disable), the LED will go out after 20 seconds of inactivity: the board has reverted to its normal operating mode and you will need to start the procedure from the beginning again.

When the card is in "radio disable" mode, a short press on the setup button will turn off the LED, and the card will revert to normal operating mode.

Options

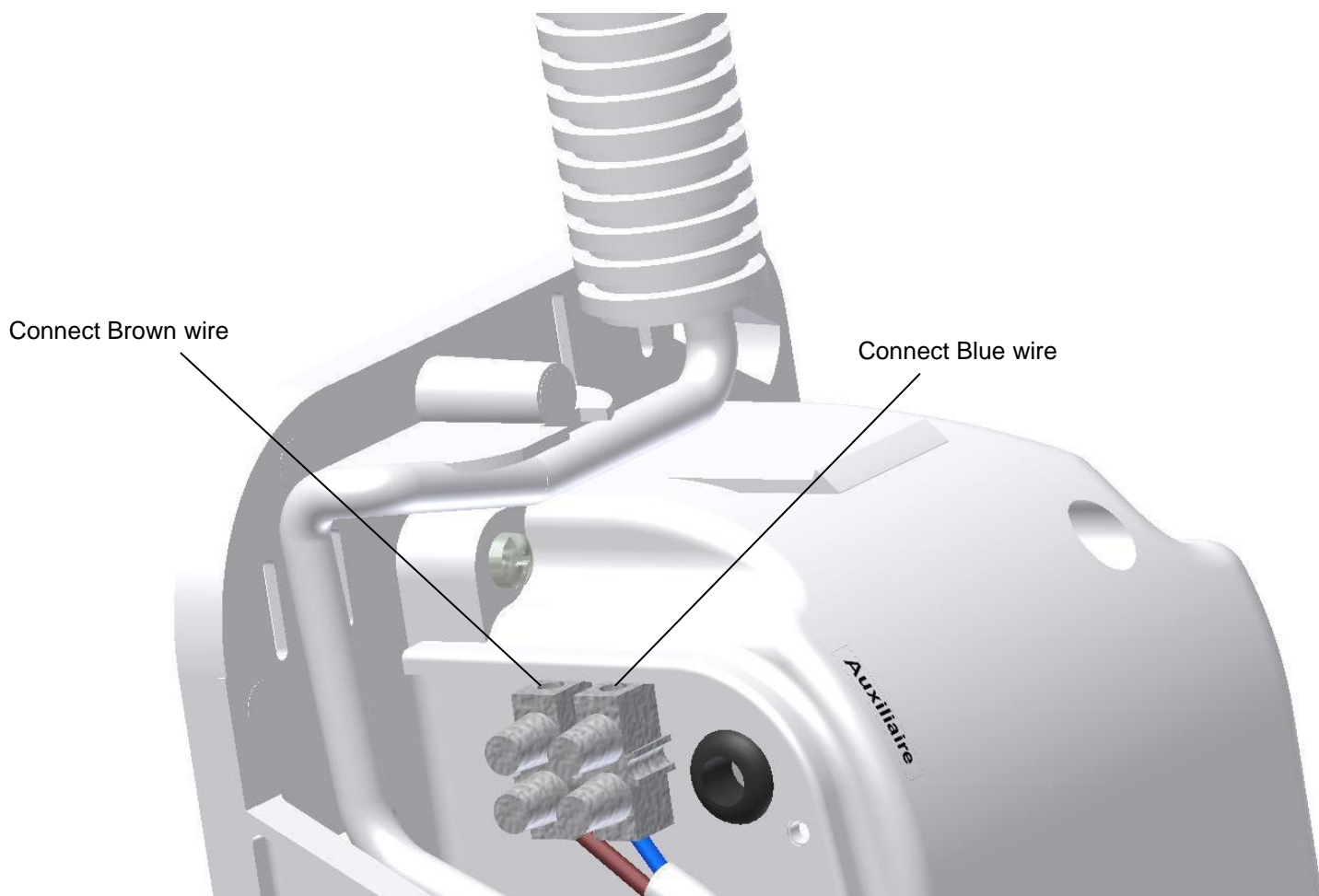
1. Electromagnetic locking (only for wireless products)

You can fit a current-emitting electromagnetic closing device to your system (unlocking occurs when the coil is live).

1.1 Fit the electromagnetic lock(s) as shown in its/their fitting instructions.

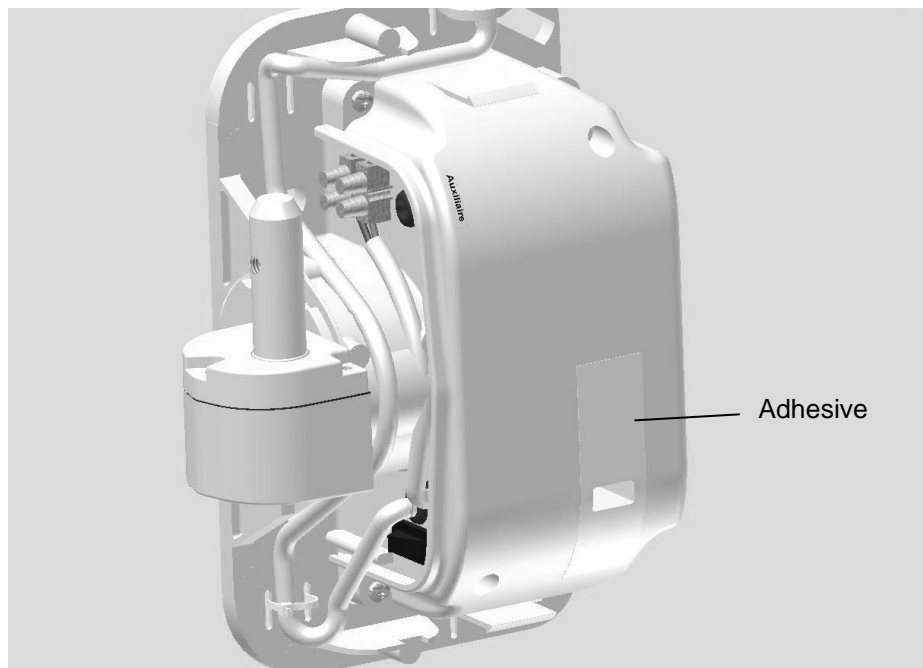
1.2 It/they must be connected to motor 1 (the one with the 230V power supply). One or two electromagnetic locks must be connected to the Auxiliary connector.

Thread the 2 cables of the electromagnetic locks through the sleeve of motor 1 and connect them to the connector, matching up the wire colours with those already connected to the AUXILIARY connector. Blue on blue and brown on brown.

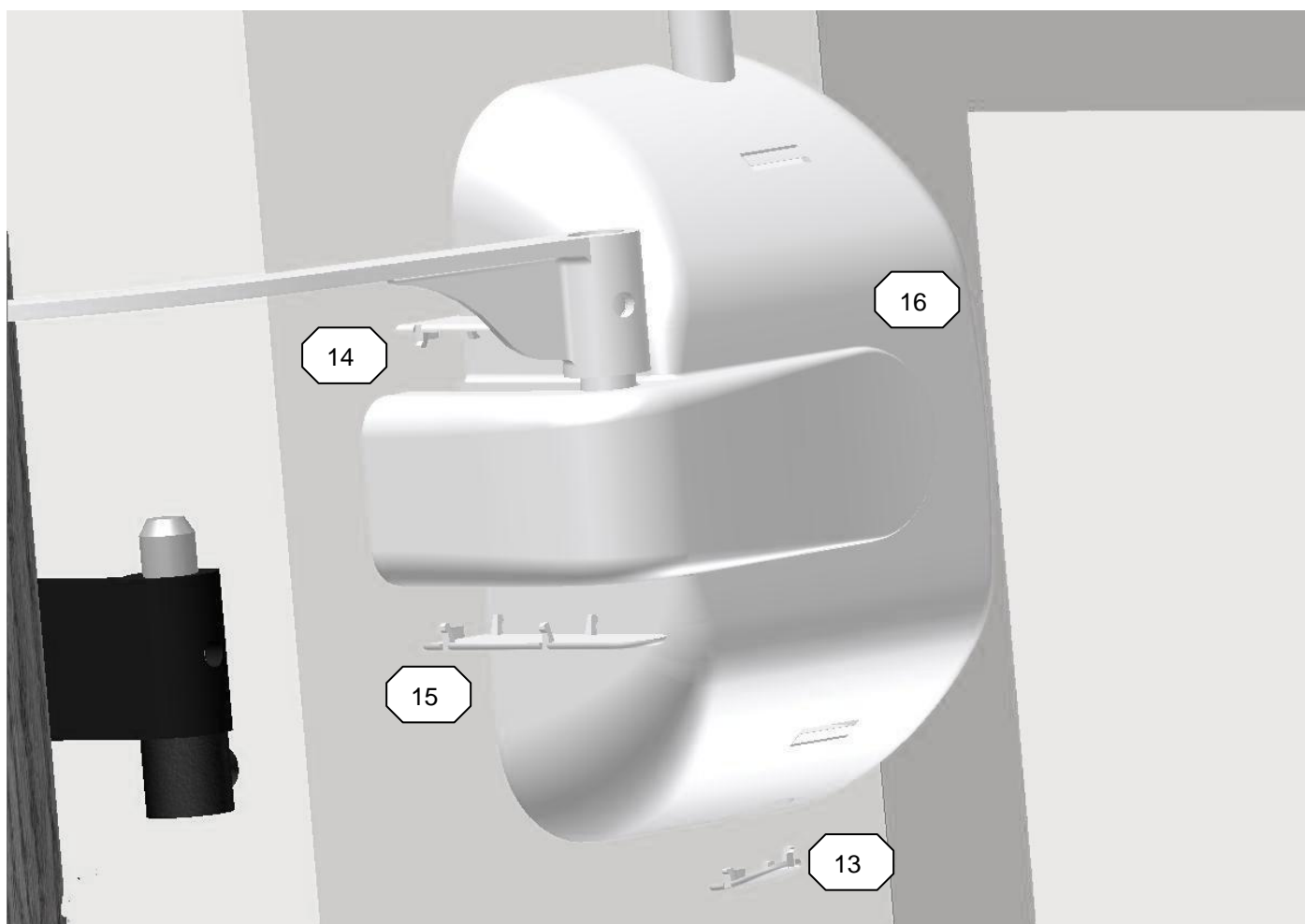


Fitting the cover

To weatherproof the product, check the presence of the adhesive before fitting the cover.



Mount the cover on the system then clip on the 3 trim covers.



symptoms	probable Causes	Solutions
The motors do not work	The control unit is not powered	Check the connection of the control box to power supply. Check that the power supply is properly connected to the mains
The motors operate at low speed	Learning problem	Repeat the learning procedure (see manual)
The motors do not slow down at the end of the stroke	Learning problem	Repeat the learning procedure (see manual)
The shutters do not move during the learning process	Start the learning cycle when the shutters are open	Close the shutters and repeat the learning cycle (see manual)
The shutter with overlap is the first to close	Motor 1 and motor 2 connections inverted	Toggle the switch to change direction located on the product (see instructions)
Wired version: press closing the shutters open	Bad connection of the command button	Check the connection of the button (see instructions)
Pressing closing a shutter opens, other closes	Bad connection of the motor 2	Invert the connection the motor 2 (see instructions)
Pushing open the shutters are closing	Bad connection of the command button	Check the connection of the button (see instructions)
Pressing opening a shutter opens, other closes	Bad connection of the motor 2	Invert the connection the motor 2 (see instructions)
The shutter begins its course and returns to its position	Presence of an obstacle	Remove the obstacle
The shutter goes too far at the close	No end stops	Check for a stop shutters top and bottom
The motor rotates but the shutter does not open (or not close)	Connecting sleeve hinge broken or missing.	Put a sleeve
The motors are not running on a request for opening or closing	The control is defective	For wired, check the connection of the button. For the radio, check that the batteries are not defective (The LED should light pressure on
The shutter does not close and / or does not open completely The shutter does not close and / or does not open completely	The rail is incorrectly mounted	Check the mounting of rail (see instructions)