



DMI5Hz - DMI6Hz

Tubular operators with integrated radio and manual override for blinds, awnings & roller shutters.

USA

5047058E

IMPORTANT - Review instruction thoroughly before installing Hz motors

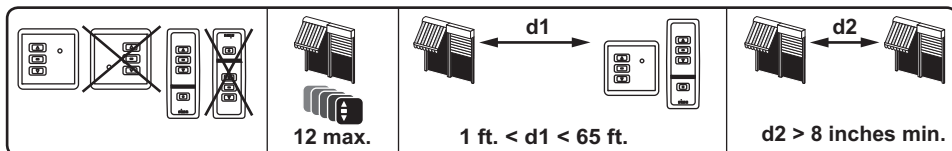
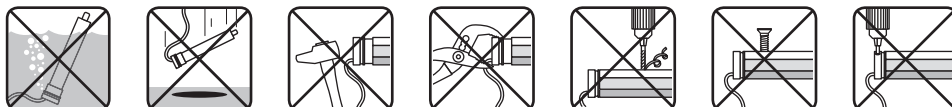
S.A.S. au capital de 5 000 000 € - Z.I. Les Giranaux - BP71 - 70103 Arc-Les-Gray CEDEX - RCS GRAY B 425 650 090 - SIRET 425 650 090 00011 - n° T.V.A CEE FR 87 425 650 090

- This device complies with part 15 of the FCC Rules. Operating is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

- **Caution:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

WARNING

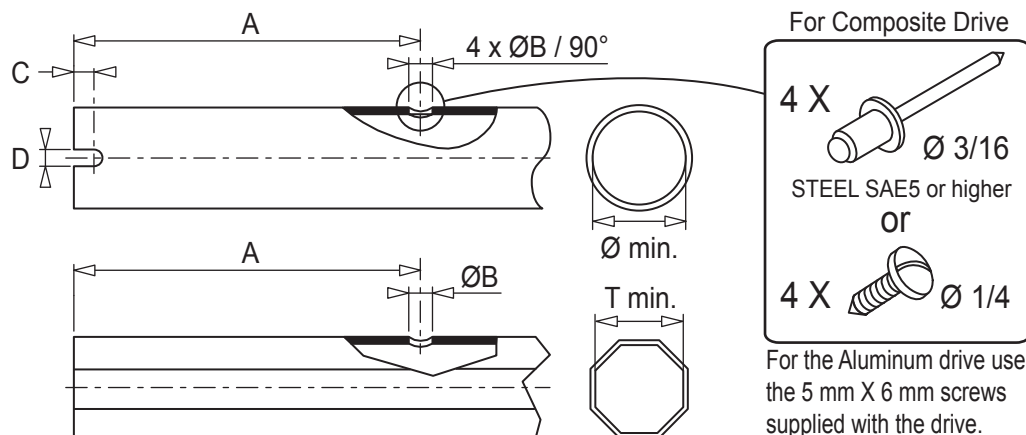


1 ASSEMBLY

1.1 - TUBE PREPARATION

Warning: do not cut or drill the tube with the motor installed.

- Cut the tube to the required length.
- Remove all burrs from the tube.
- If using a round tube, cut a notch (D wide by C long) into one end of the tube.
- On round tubes measure length (A) and drill 4 holes around the tube. For octagonal tubes 1 hole is sufficient (see dimension chart next page).

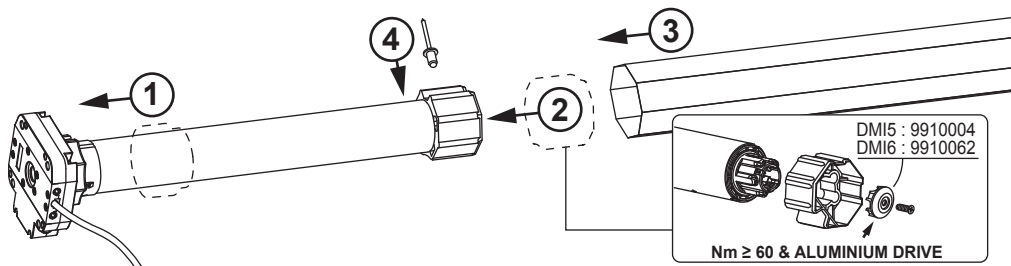


		mm				
		A	B	C	D	
DMI5 Hz 120V / 60Hz Ø / T min. = 47	15-18	716	5	26	4.2	○
	25-18 30-12 35-18 50-12	756		-	-	○
DMI6 Hz 120V / 60Hz Ø / T min. = 60	60-14 80-14 100-14	836	5	36	8	○
				-	-	○

For the aluminum drive **A** is **20mm less** than shown

1.2 - INSTALLING THE TUBULAR MOTOR

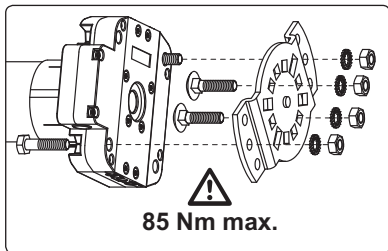
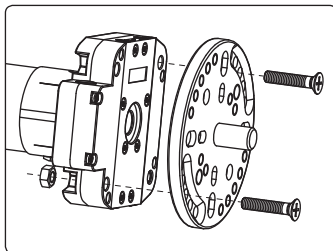
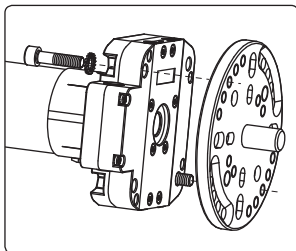
- 1- Fit the adaptor over the crown. Align the slot in the adaptor with the raised key and firmly fit the adaptor over the crown. A crown adaptor is not necessary with 47mm (2") tubes.
- 2- Snap the drive wheel onto the drive shaft. Screw on the drive stop if needed (60 Nm+ operators).
- 3- Slide the tubular motor into the tube. Do not force or hammer on the head of the motor. If the motor does not insert smoothly, remove the motor and file smooth the edge of the tube. On round tubes confirm the raised key on the crown fits snugly into the cut slot on the end of the tube.
- 4- Secure the drive wheel to the tube. For the composite drive, use four 3/16" dia. steel pop rivets or four 1/4" dia. screws with steel grade SAE 5 or higher. For the aluminum drive, use the three 5mm X 6mm cheese head screws provided.

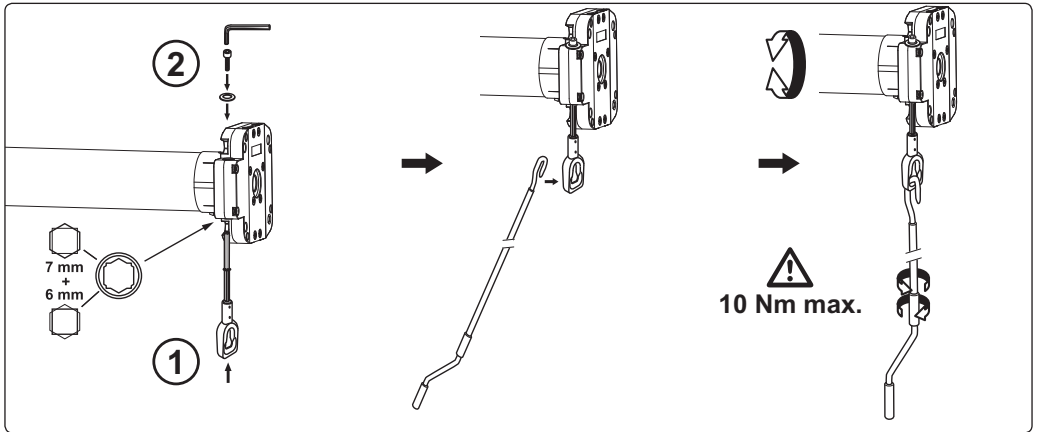
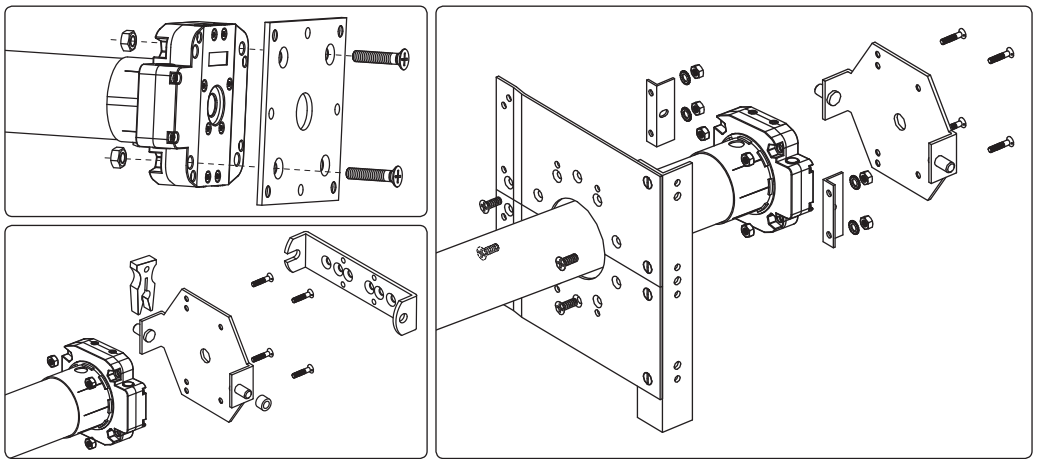


1.3 - MOUNTING THE TUBULAR MOTOR

The DMI5Hz / DMI6Hz motors use standard T5 / T6 accessories.

- Mount the motor as shown using only SIMU accessories.
- Mount the motor heads at least 8" apart from each other to prevent RF interference.
- Always install the power cable with a drip loop to prevent water penetration.
- SIMU motors conform to IP44 requirements and as such must be protected against direct weather elements such as rain, sleet, etc. Failure to do so could result in voiding the warranty.





2 WIRING

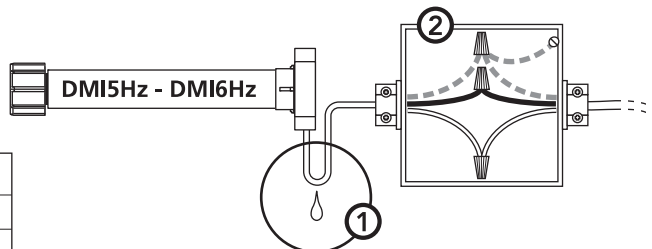
2.1 - DMI Hz PERMANENT WIRING (shutter, shade or awning)

Warning: All wiring must conform to the National Electric Code and local codes.

- (1) The motor must be installed with a drip loop to prevent water intrusion.
- (2) Connect the motor to power using a listed junction box with appropriate cable strain reliefs.
- It is recommended a method of power disconnect for each motor be placed within sight of the motor to cut power during servicing and facilitate reprogramming.
- Do not use the motor cable to penetrate building walls. Connect the motor to power in a listed junction box and from the listed junction box run power in the manner proscribed by NEC and local codes.

OPERATOR WIRING CHART

MOTOR CABLE	POWER 120VAC	
BLACK	HOT	—
WHITE	NEUTRAL	— —
GREEN	GROUND	- - - -



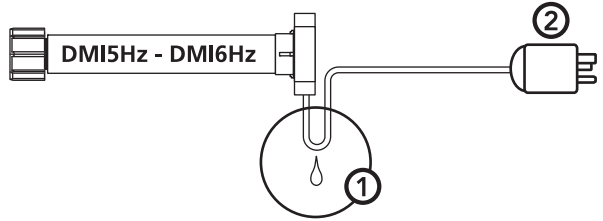
2.2 - DMI Hz PLUG-IN WIRING (shade or awning)

Warning: All wiring must conform to the National Electric Code and local codes.

- (1) The motor must be installed with a drip loop to prevent water intrusion.
- (2) If used outdoors, a GFCI receptacle with an outdoor cover is required.
- Do not use the motor cable to penetrate building walls.
- To reduce the risk of electric shock, this equipment has a grounding type plug, that has a third (grounding) pin. This plug will only fit into a grounding type outlet. If the plug does not fit into the outlet, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

OPERATOR WIRING CHART

MOTOR CABLE	POWER 120VAC	
BLACK	HOT	—
WHITE	NEUTRAL	==
GREEN	GROUND	----

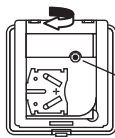
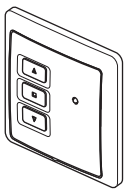


The molded-on attachment plug can be removed when permanent installation is required by National or Local Codes.

- Cut the flexible cord at 10 mm from the start of the molded-on plug.
- Strip the cord jacket to required length in order to connect the motor to the Mains power supply in a listed junction box according to National Electric Code and local codes.
- Strip the insulated insulation of the conductors and use the appropriate listed field-wiring wire nuts as per local and National codes in order to make the permanent wiring of the operator.

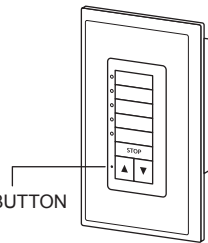
3 COMPATIBLE TRANSMITTERS

Wall switch transmitter



PROGRAM BUTTON
(back of transmitter)

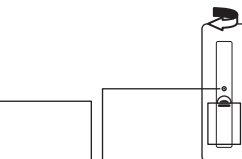
Decoflex wall switch transmitter



PROGRAM BUTTON

Hand Held transmitters

single channel five channels



PROGRAM BUTTON
(back of transmitter)

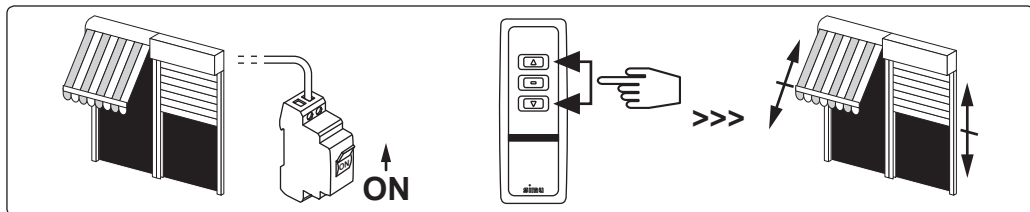
Color Multi



4 PROGRAMMING

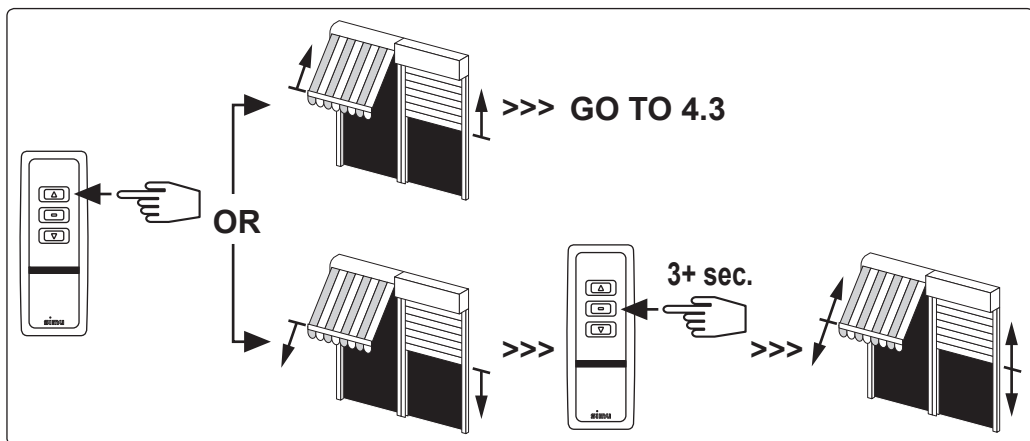
4.1 - WAKING UP THE MOTOR

Before programming, changing direction of rotation, setting the limits, etc...you must wake the motor up. If using a multi-channel transmitter, confirm you are on the desired channel. Press and hold the up and down together until the motor gives a short up/down bounce. The motor is now awake.



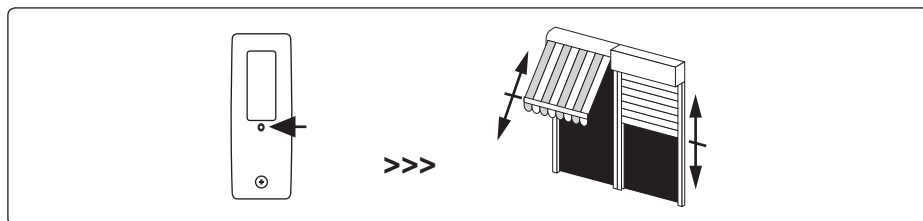
4.2 - DIRECTION OF ROTATION

You must check the direction of rotation before programming. If the direction of rotation is not correct, press and hold the stop Button until the motor gives a short up/down bounce. Confirm the direction of rotation is now correct.



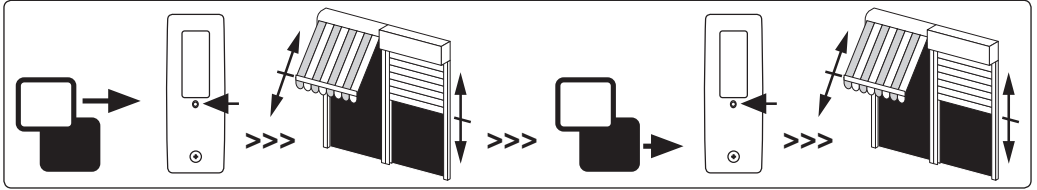
4.3 - PROGRAMMING A TRANSMITTER CHANNEL TO A MOTOR

If using a multi-channel transmitter, confirm you are on the desired channel. Press the Program Button and the motor will give a short up/down bounce. Confirm the transmitter now controls the motor. A short push on the up or down button should make the motor run until you stop it or the motor stop at its limits. You should not have to hold the button down.



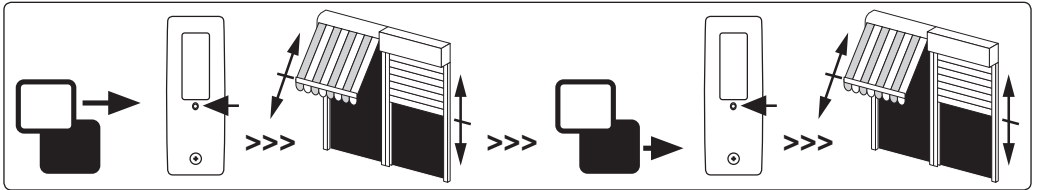
4.4 - ADDING ADDITIONAL TRANSMITTERS (CHANNELS) TO THE MOTOR.

Use the transmitter that currently controls the motor and confirm it is on the correct channel. Press and hold the Program Button until the motor gives a short up/down bounce. Confirm transmitter is on the channel you wish to add and press the Program Button. The motor will give a short up/down bounce. The new channel is now added. Repeat for any additional transmitter channels you wish to add.



4.5 - DELETING A TRANSMITTER CHANNEL TO A MOTOR.

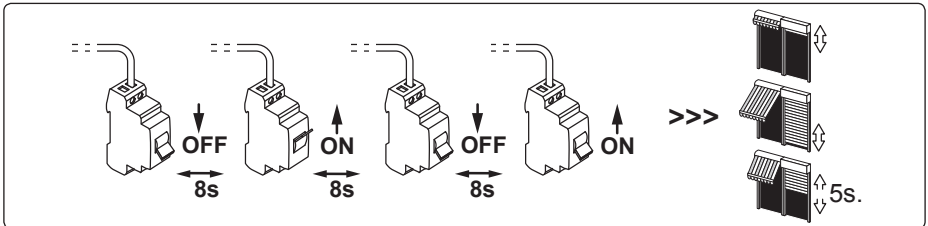
Use a transmitter that currently controls the motor and confirm it is on the correct channel to control the motor. Press and hold the Program Button until the motor gives a short up/down bounce. Press the Program Button of the second transmitter until the motor gives a short up/down bounce. The second transmitter is now deleted.



4.6 - CLEARING THE MEMORY OF OLD TRANSMITTERS AND ADDING NEW TRANSMITTERS.

If all a motor transmitters are lost or damaged it is possible to clear the old memorized codes from memory and add the new transmitter. Perform a double power cut in the following sequence:

- 1- Power off for at least **8 seconds**
- 2- Power on for **8 seconds**
- 3- Power off for at least **8 seconds**
- 4- Power on. The motor will try and run for 5 seconds but will not run past its limits.



The motor is now in a **temporary mode for 2 minutes**. **NOTE: this is not the "factory mode"**.

If a motor or motors are entered into temporary programming mode by mistake it can be cancelled by pressing for a second on the UP, STOP or DOWN of any transmitter that motor has memorized. The motor will also return to normal operating mode if left for 2 minutes.

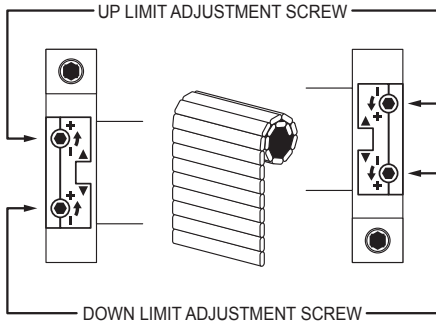
- 5- Press and hold the Program Button of any unmemorized transmitter for **more than 8 seconds**.

When the motor gives a short up/down bounce release the button. The memory of the motor's receiver is now cleared of the old transmitters and the new transmitter has been added.

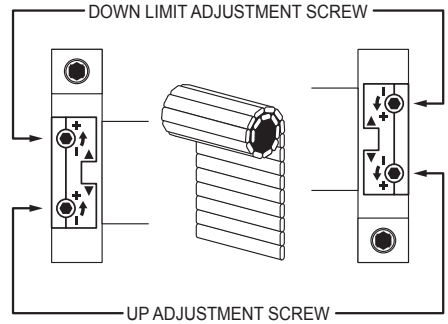
5 SETTING THE LIMITS

LIMIT ADJUSTMENT SCREWS ON OPPOSITE SIDE FROM MOTOR CABLE

1 MATERIAL ROLLS DOWN ON SAME SIDE AS LIMITS



2 MATERIAL ROLLS DOWN ON OPPOSITE SIDE AS LIMITS



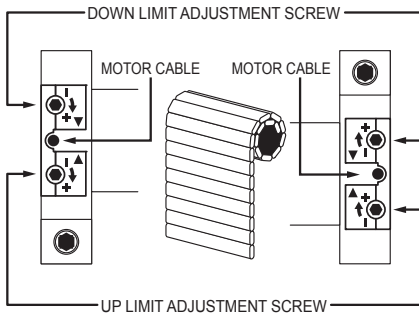
- 5.1 - Identify which limit adjustment screw controls the up limit and which controls the down limit (see above diagrams). It is important to note that the arrows by the limits adjustments screws refer to the tube's rotation. Thus if the material comes off the tube on the back side and you are adjusting the limits from the side that the motor cable is not on (as per diagram 2), the limit adjustment screw with the arrow facing up controls the down limit and vice-versa.
- 5.2 - Turning an adjustment screw positive (+) will increase the maximum travel in the direction that it controls and turning it negative (-) will decrease the maximum travel. For the adjustment screws on the side without the motor cable, turning counter clockwise is positive (+) and clockwise is negative (-).
- 5.3 - To set a limit, run the motor in the selected direction.
- 5.4 - If the motor stops on its own before reaching the desired stop, turn the appropriate limit screw positive (+). Every 2 or 3 turns of the limit adjustment screw will allow the motor to travel about 1 inch further. After every few turns of the limit adjustment screw use the control switch to move the motor to the new limit position. If the motor does not stop on its own before reaching the desired stop, go to step 5.6.
- 5.5 - When you are approximately at the desired stop, use the control switch to run the motor away from the limit 2 or 3 feet and then back. This will allow you to see precisely where the limit is set. Make small adjustments and repeat.
- 5.6 - If the motor does not stop on its own at least 6 inches before the desired limit position, stop the motor with the control switch. Then turn the adjustment screw in the negative (-) direction. Confirm that the motor is stopped at the limit and set the limit as in step 5.4 and 5.5. If the motor is not stopped at the limit, continue turning the limit adjustment screw (up to 120 turns may be required).

NOTE: The motor has a built-in thermal cut-off. If after several minutes of use the motor will not run in either direction allow the motor to cool approximately 20 minutes.

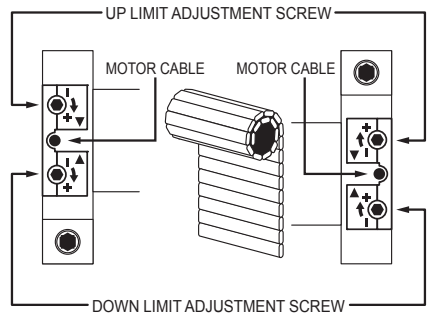
6 SETTING THE LIMITS

LIMIT ADJUSTMENT SCREWS ON SAME SIDE FROM MOTOR CABLE

3 MATERIAL ROLLS DOWN ON SAME SIDE AS LIMITS



4 MATERIAL ROLLS DOWN ON OPPOSITE SIDE AS LIMITS



- 6.1 - Identify which limit adjustment screw controls the up limit and which controls the down limit (see above diagrams). It is important to note that the arrows by the limits adjustments screws refer to the tube's rotation. Thus if the material comes off the tube on the back side and you are adjusting the limits from the side that the motor cable is not on (as per diagram 4), the limit adjustment screw with the arrow facing up controls the down limit and vice-versa.
- 6.2 - Turning an adjustment screw positive (+) will increase the maximum travel in the direction that it controls and turning it negative (-) will decrease the maximum travel. For the adjustment screws on the side with motor cable, turning counter clockwise is negative (-) and clockwise is positive (+).
- 6.3 - To set a limit, run the motor in the selected direction.
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NOTE: The motor has a built-in thermal cut-off. If after several minutes of use the motor will not run in either direction allow the motor to cool approximately 20 minutes.