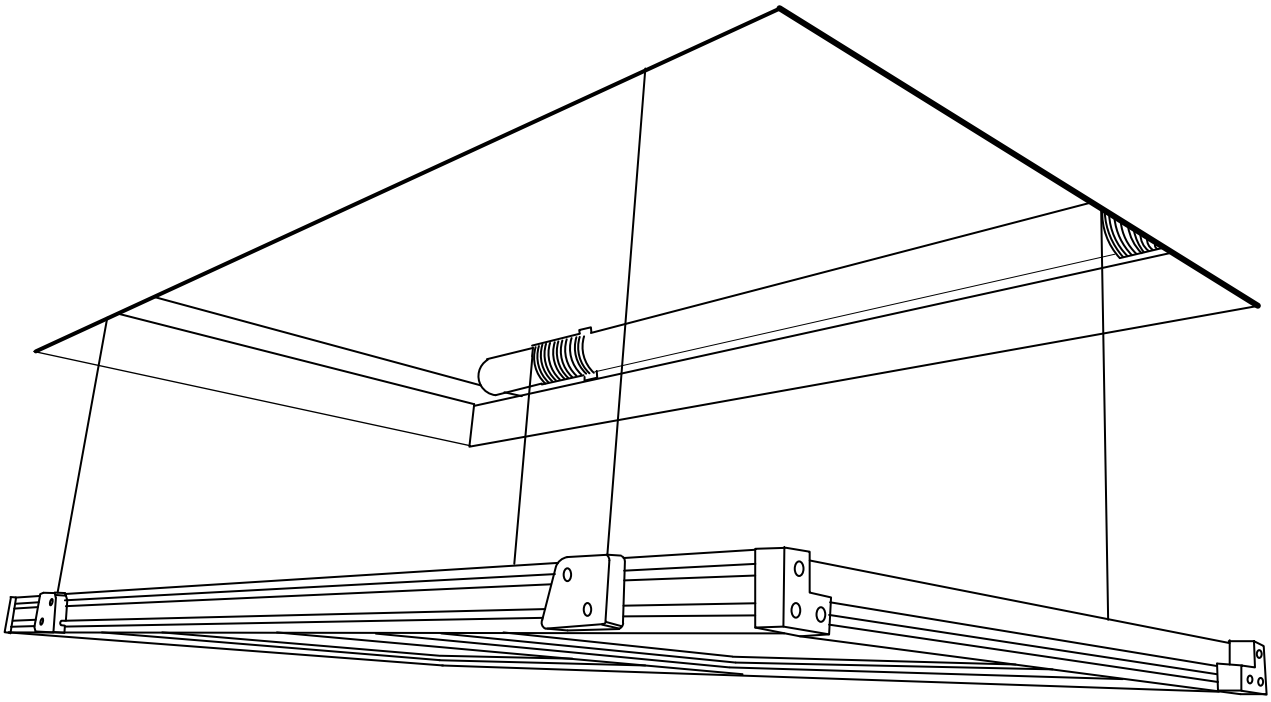
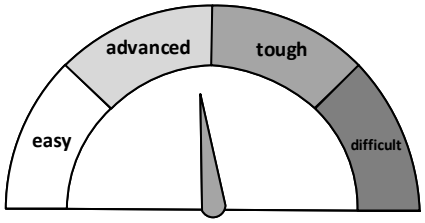
AUXXLIFT Attic



Release 12/2020/SW

Design and Quality
AUXXLIFT of the USA

Before YOU start

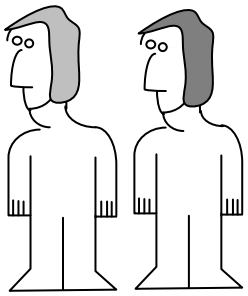


1. Have you read through the instructions?

2. Do you have all the recommended tools?

3. Do you have somebody assisting you?

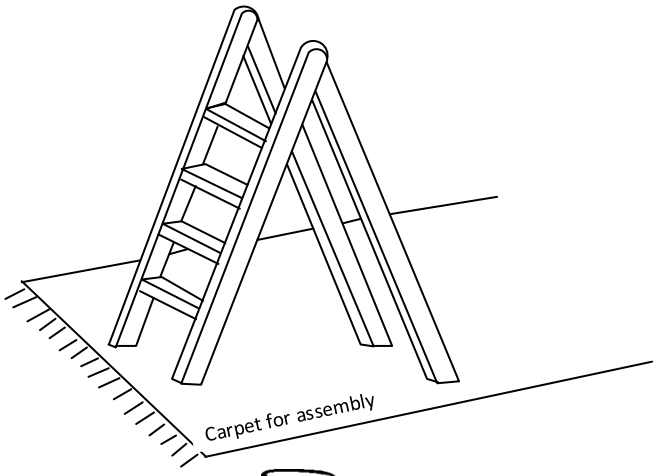
4. Have you allocated enough time?



For a professional it takes about 3 hours to install.

What is most important is to follow the instructions

and read everything carefully before you start.



5. You need a good, stable ladder.

6. Don't use an impact driver.

7. Clean the area before you start.

8. Wear safety glasses!

9. Keep work area clear!

Check measurements during construction.

Make sure that nothing is in the way e.g. windows, doors etc.

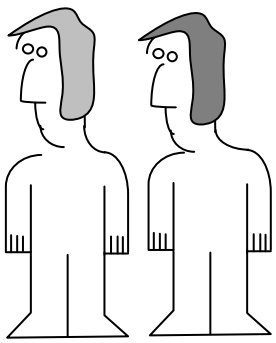
10. Does your garage ceiling have or has had termites?

11. Are the joists strong and big enough? (2" x 4" at least)

12. Mounting to a concrete ceiling requires anchors!

13. Has your home been built according to valid standards and guidelines?

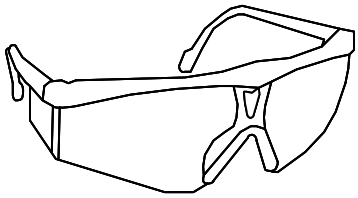
14. If you have doubts about the ceiling construction, please ask a specialist!

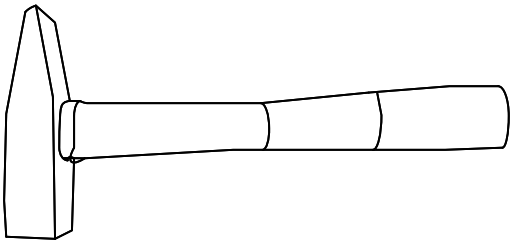


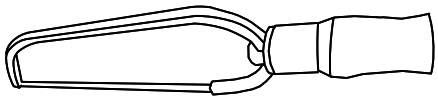
If you have any problems understanding the instructions or you feel uncomfortable handling the installation, please ask a handyman or work with a contractor. Call/ write us if you need help or have concerns or questions.

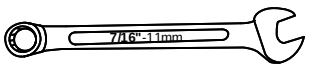
www.auxx-lift.com/installation-help

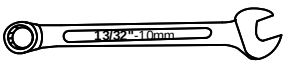
Help phone: PST 10 am -3 pm 1 805 862 8271

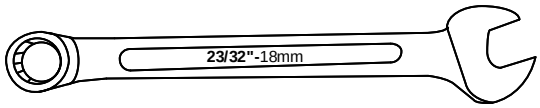


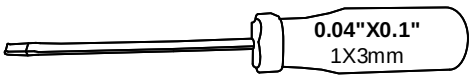


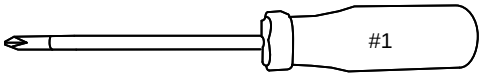


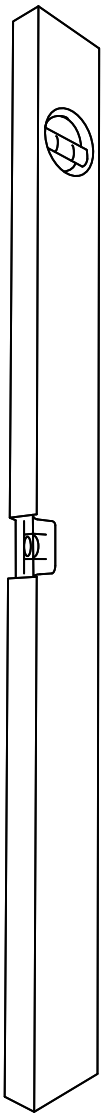


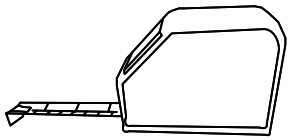


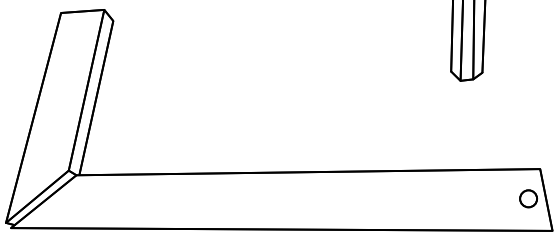


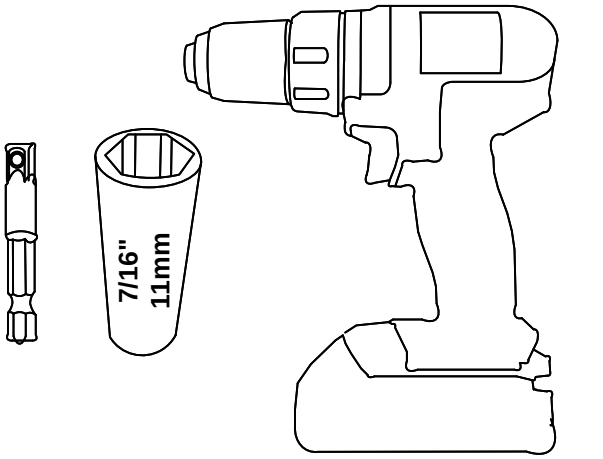


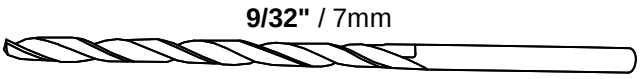




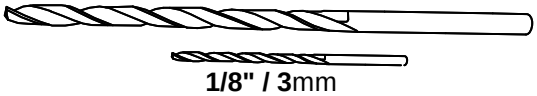








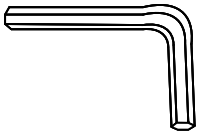
9/32" / 7mm

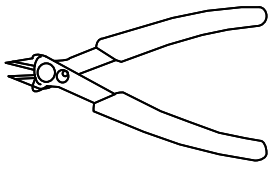


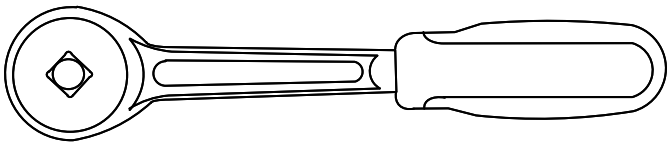
3/16" / 5mm

1/8" / 3mm

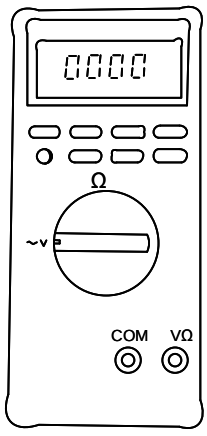
3/16" / 5mm

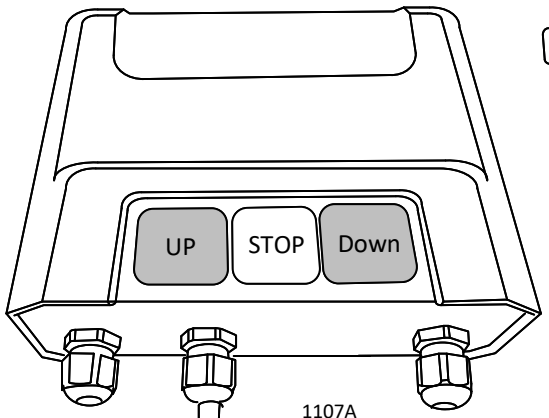






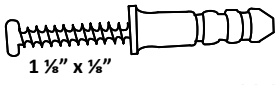
Nice to have





1X

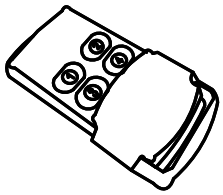
1107A



0509A 0803A

1 ⅛" x ⅛"

4X



1102A 1 channel

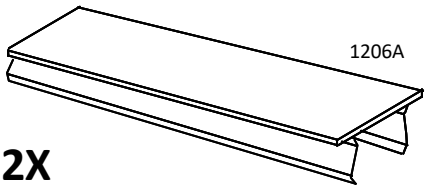
1105A 2 channel

1106A 6 channel

2X

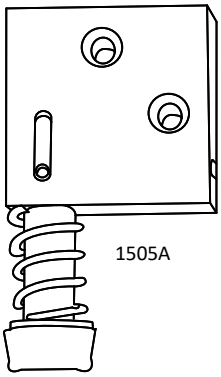
0002A

2X



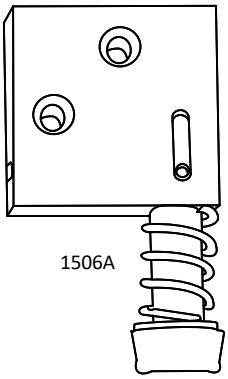
1206A

2X



2X

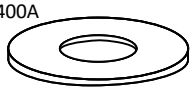
1505A



2X

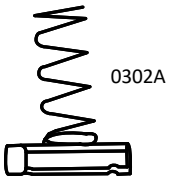
1506A

8X



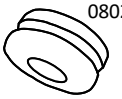
0400A

4X

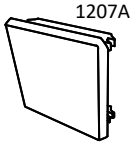


0302A

2X

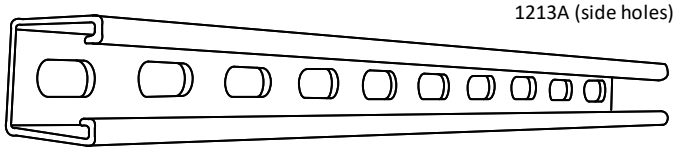


0802A



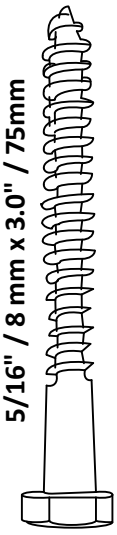
1207A

4X



1205A

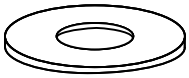
1213A (side holes)



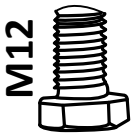
5/16" / 8 mm x 3.0" / 75mm

0507A

4X

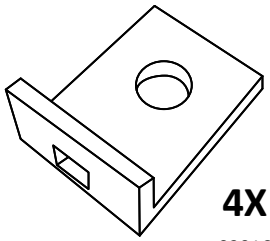


0400A



M12

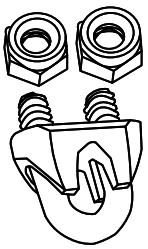
0505A



4X

0201C

4X



0703A

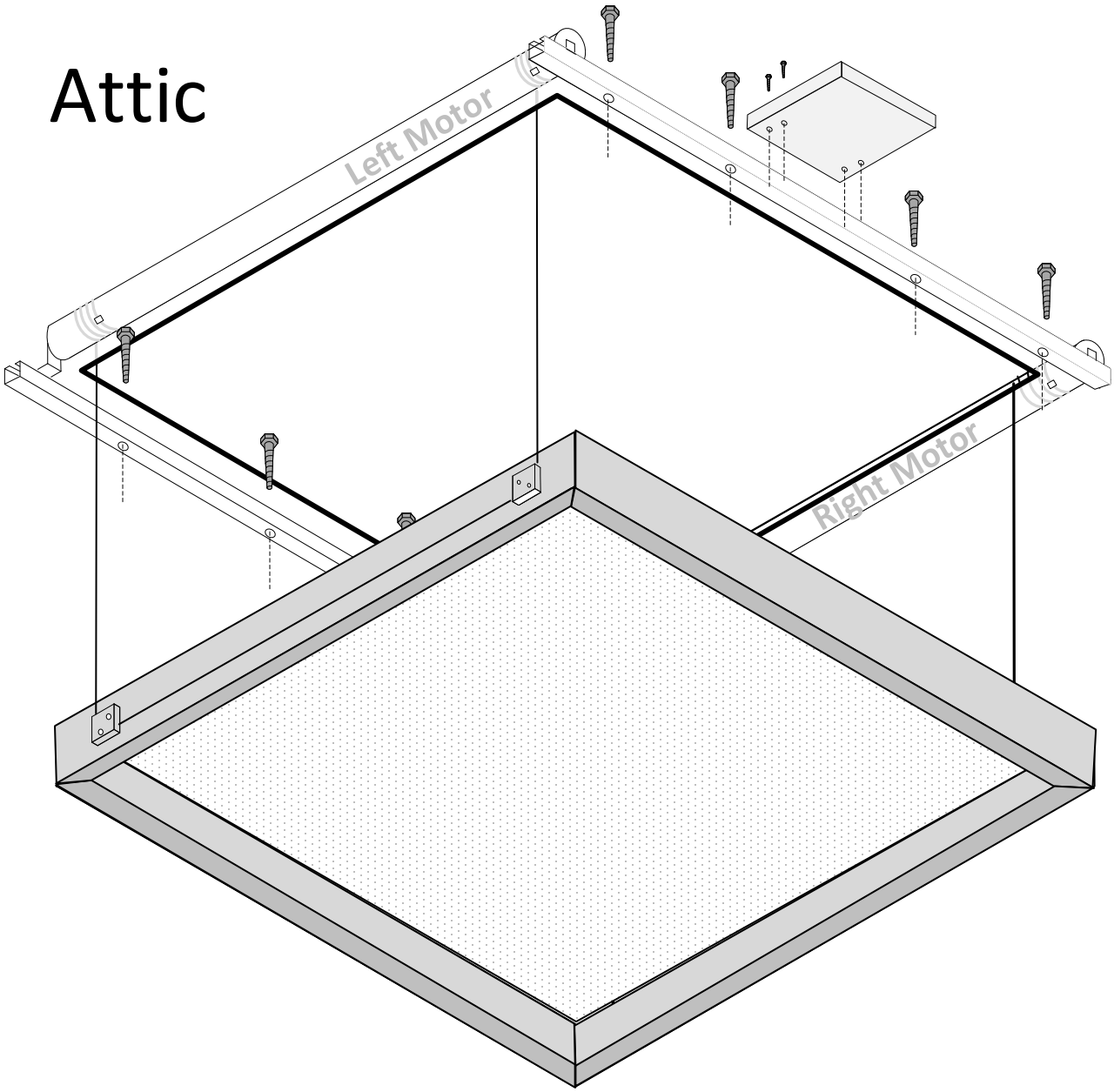
1X

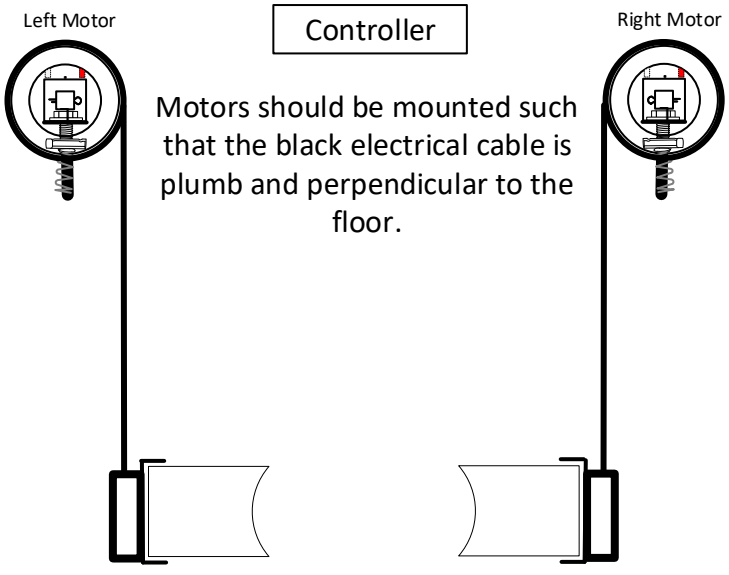
2001A

4X

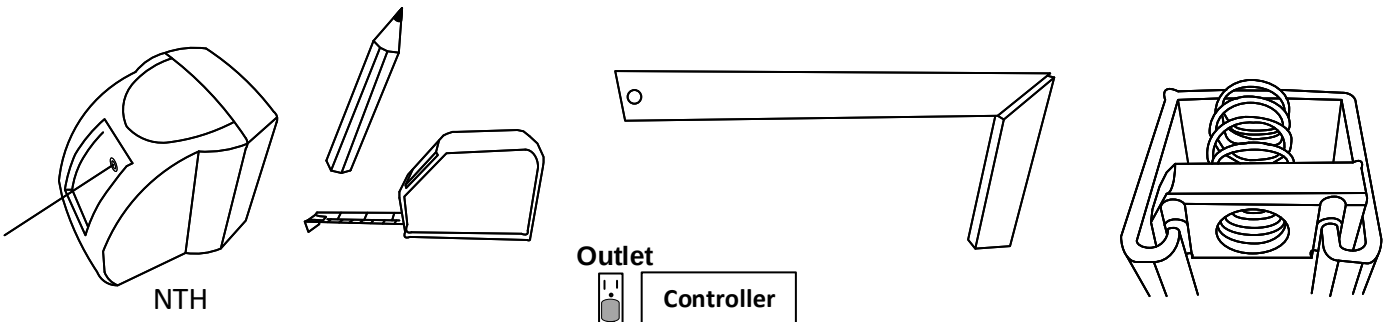
0602A

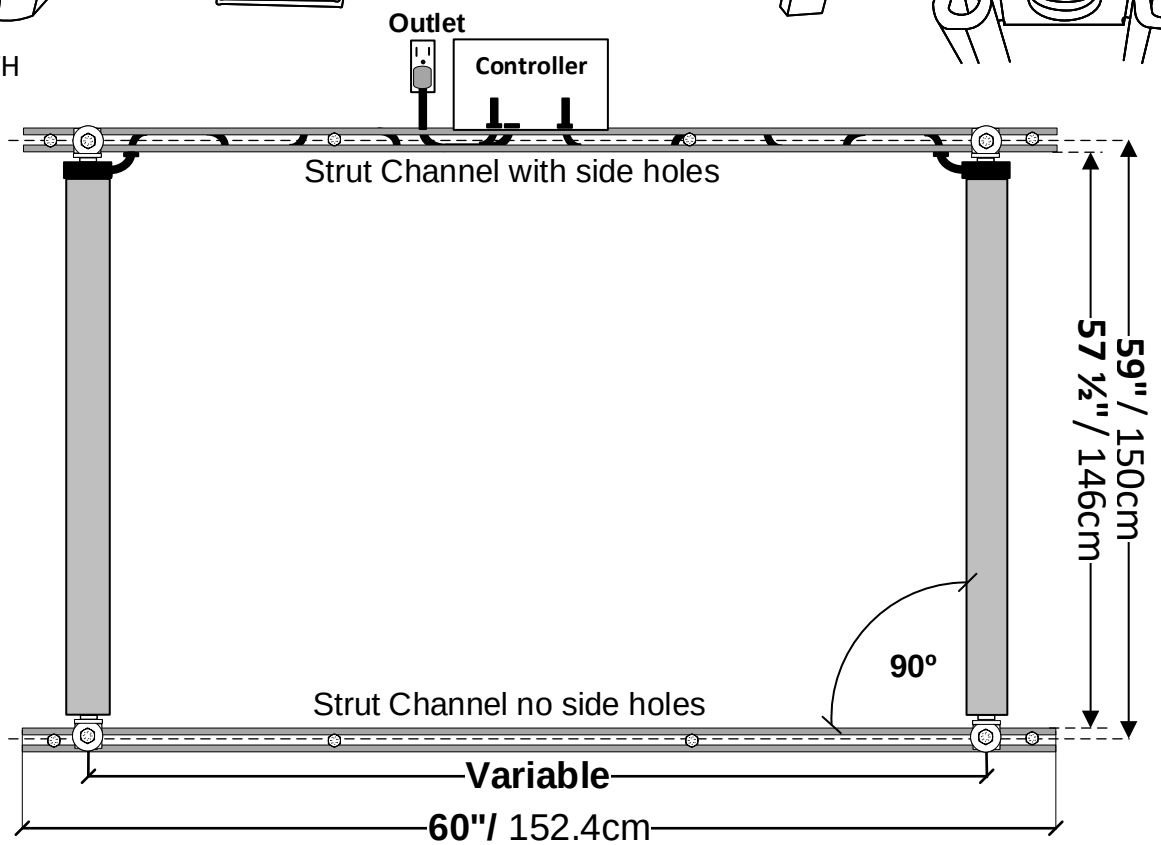
Attic

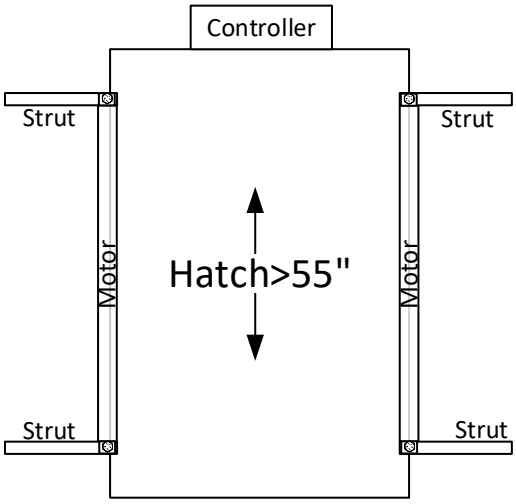


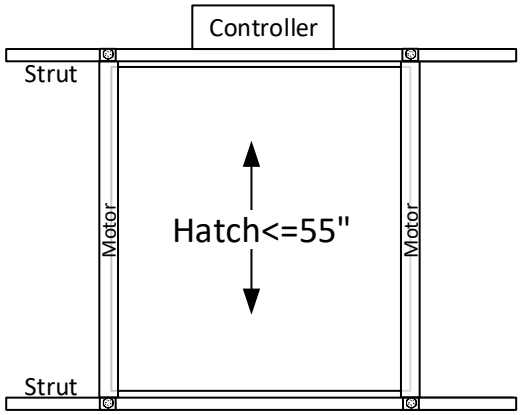


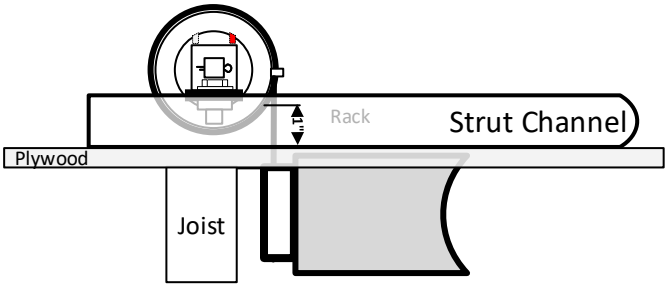
Motors should be mounted such that the black electrical cable is plumb and perpendicular to the floor.

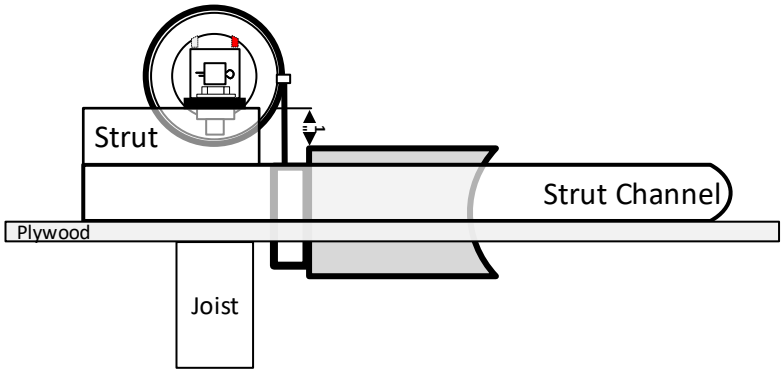




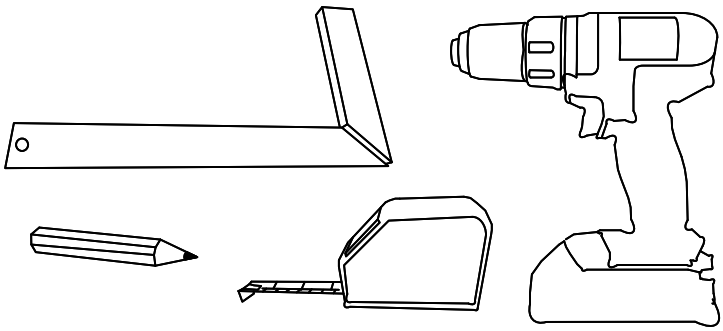




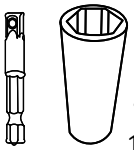




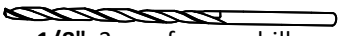
Motors outside of Rack!



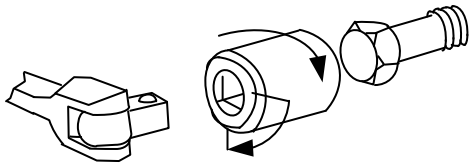
Warning!
DO NOT use an Impact Driver to tighten the Lag screws!



7/16"
11mm

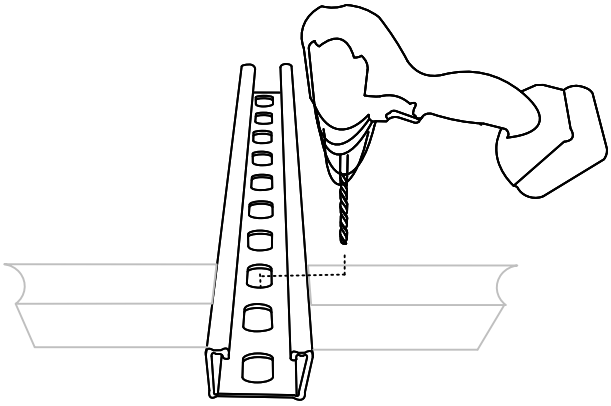


1/8" 3mm for pre-drill



10°= (200 pound/ inch=20Nm)

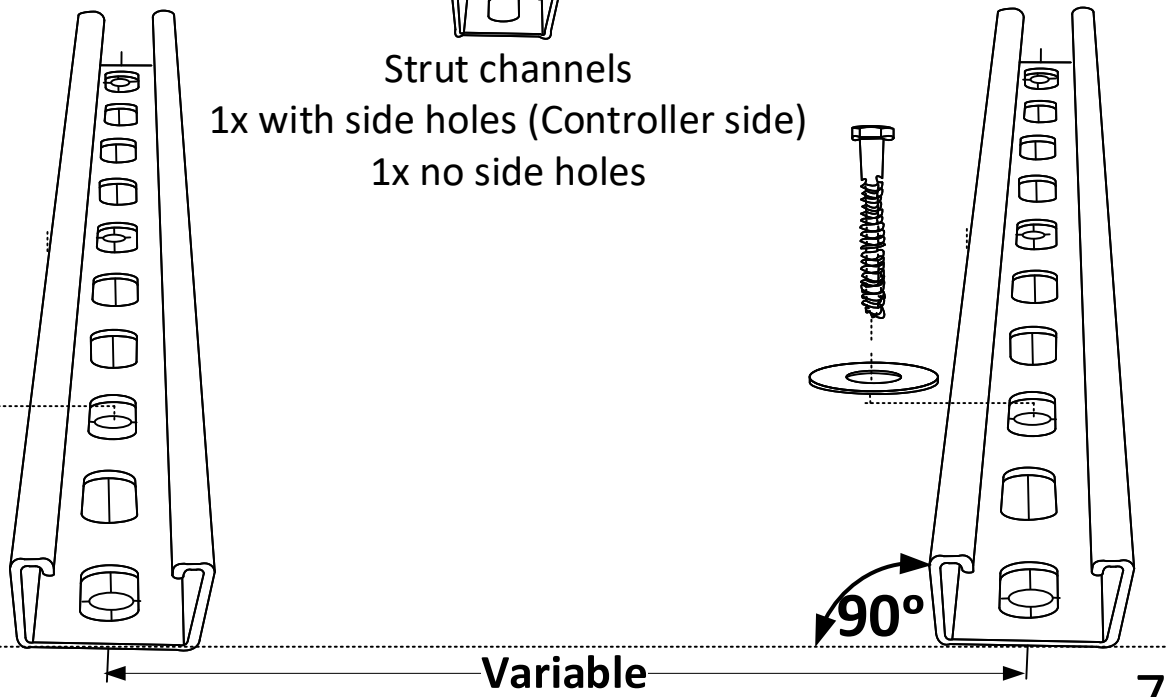
Tighten screw until the washer no longer rotates. Then tighten screw another 10° in same direction.



Strut channels
1x with side holes (Controller side)
1x no side holes

5/16" / 8 mm x 3.0" / 75mm SPAX®
8X

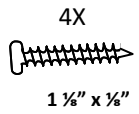
8X

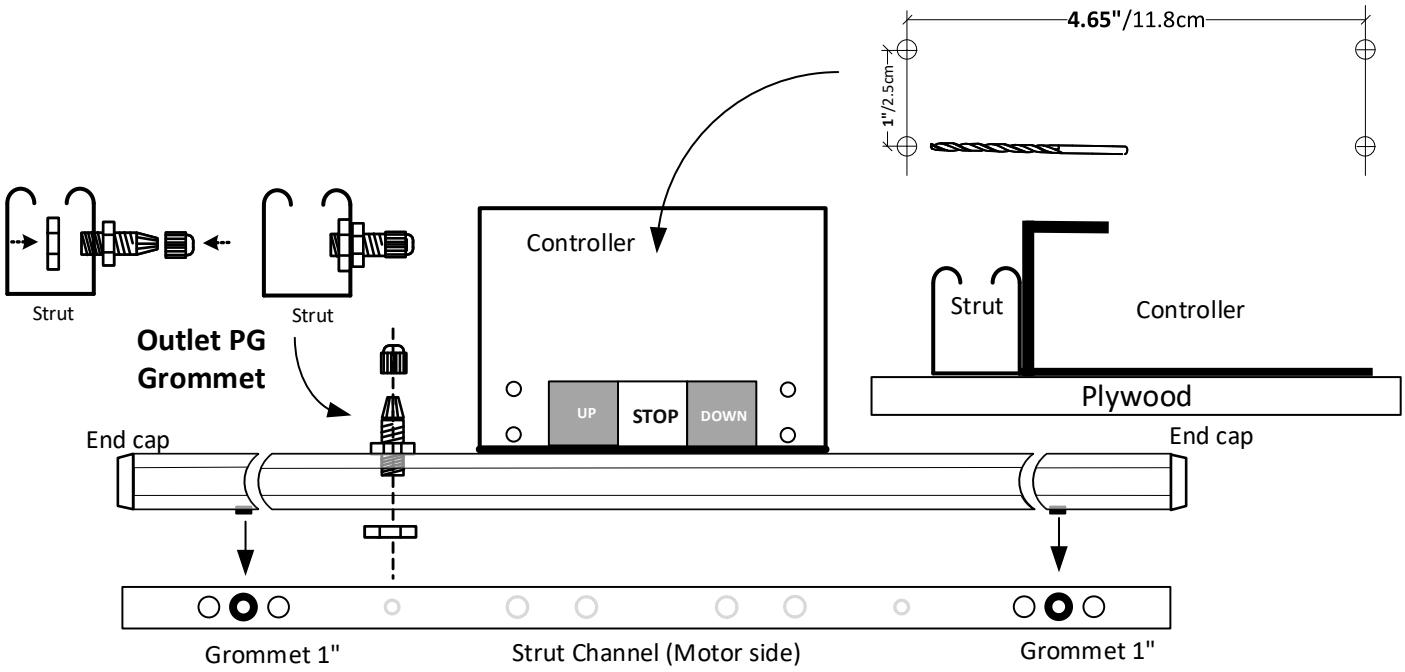


90°

Variable

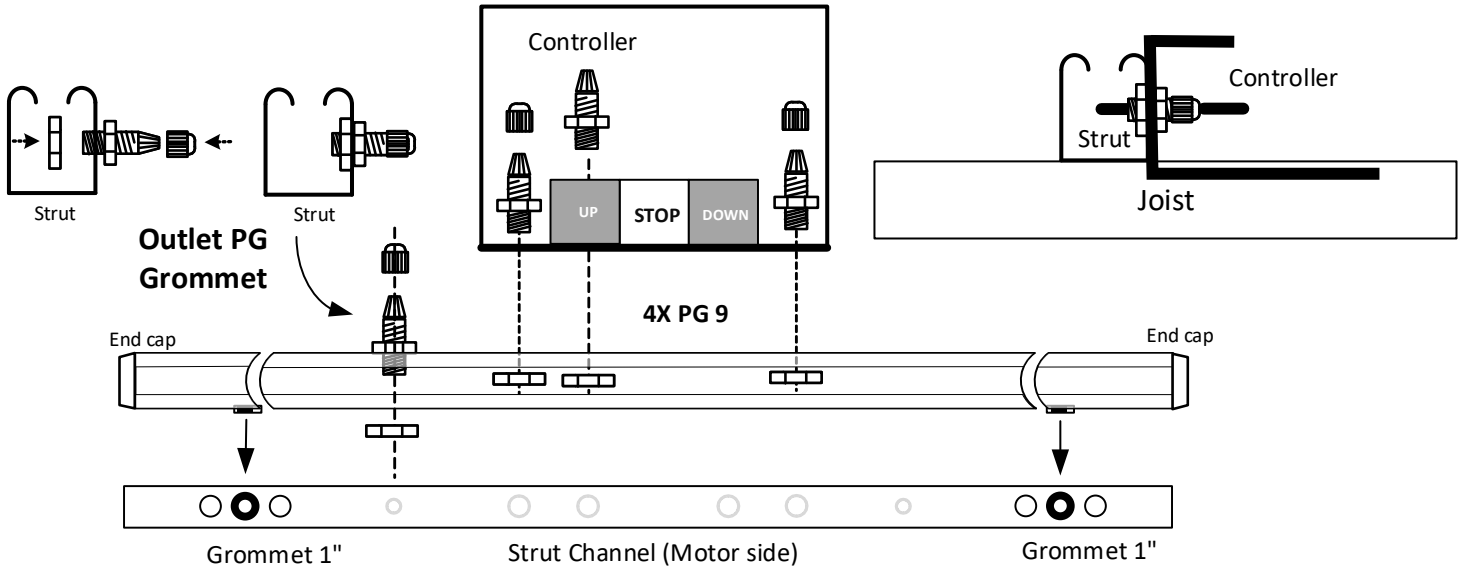
Controller assemble to the e.g. Plywood



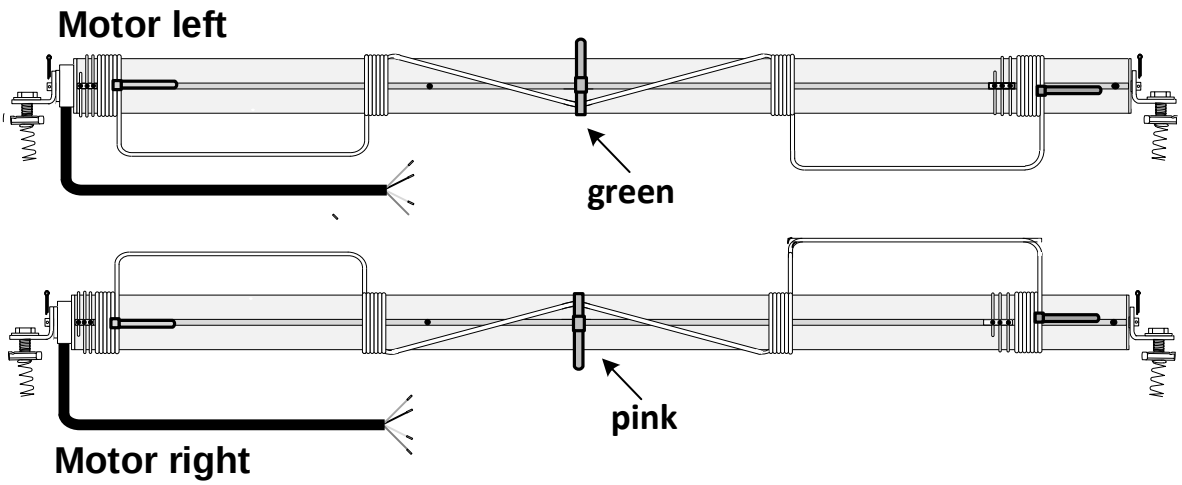


- Use anchors for dry wall/concrete ceilings
- Install the controller directly to the strut channel
- For outlet, always use PG grommets!

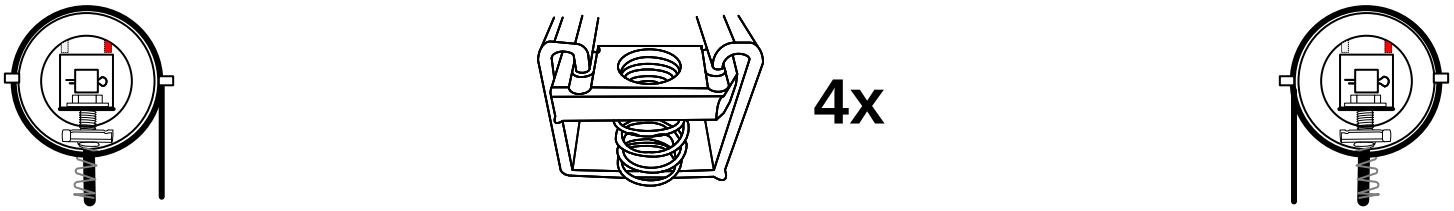
Pre-assemble Controller to the Strut (open Ceiling)

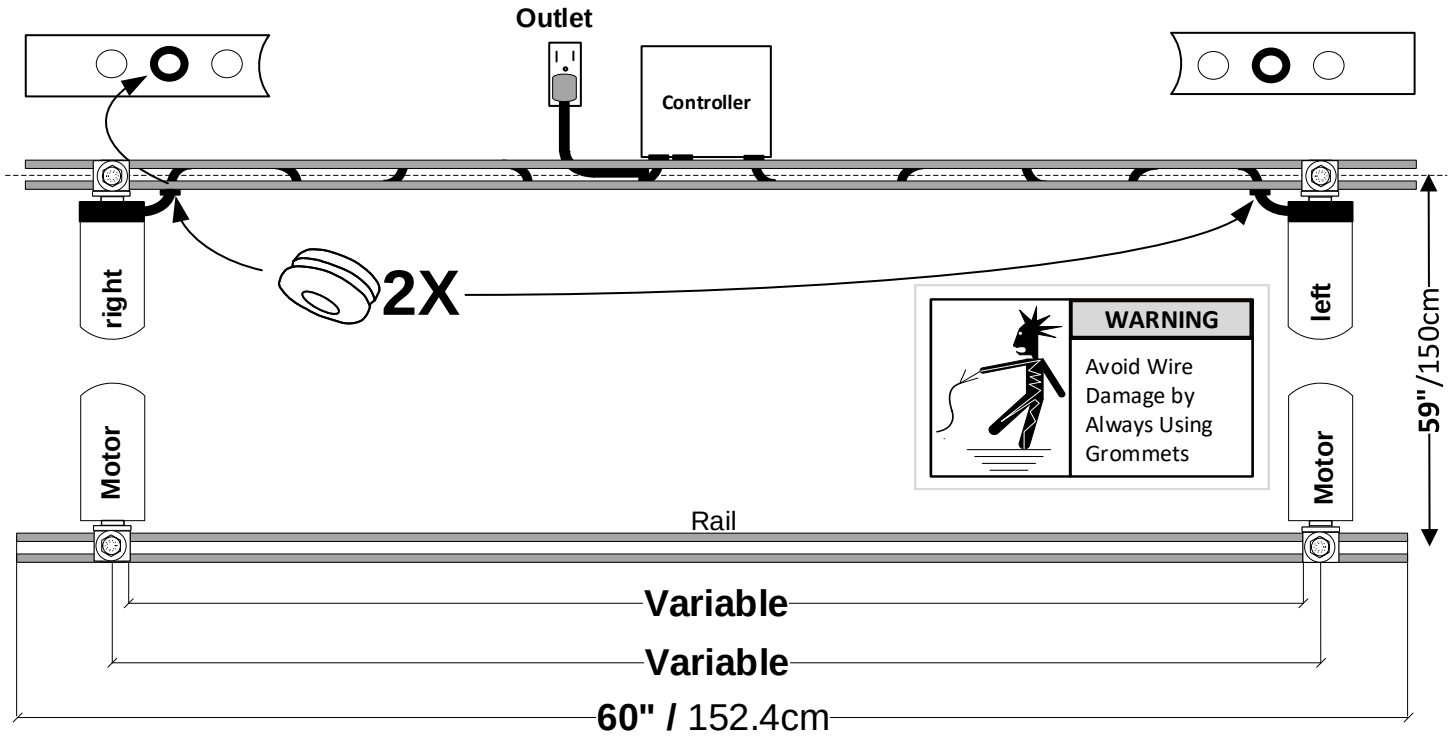


- **PG grommets: If you have only joists, not e.g. drywall.**
- For outlet, always use PG grommets!

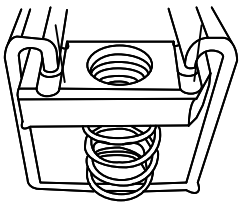


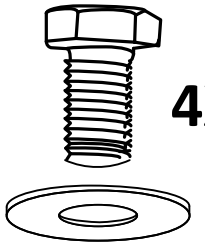
The black cables that come out of the motors needs to come straight down towards floor.





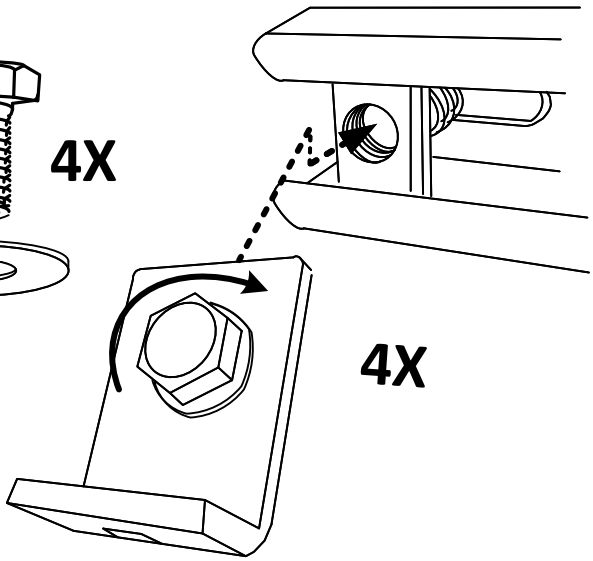
4x



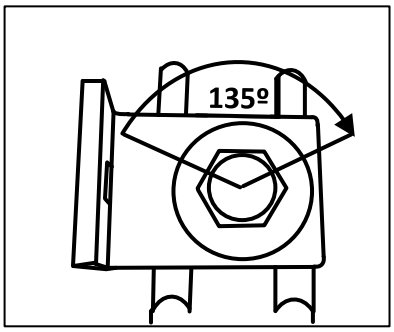


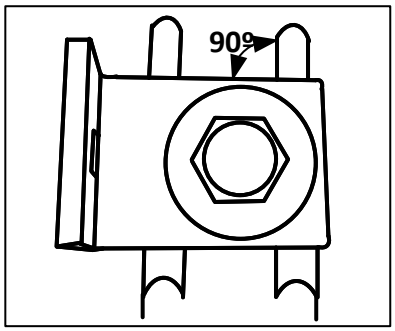
4X

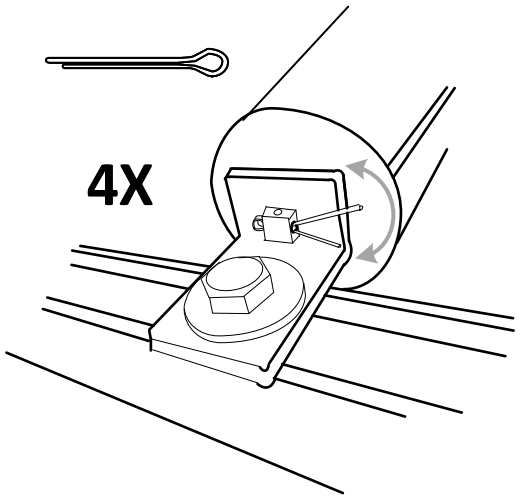
4X



4X

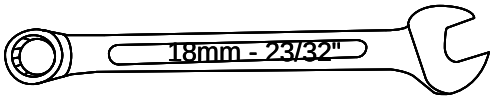




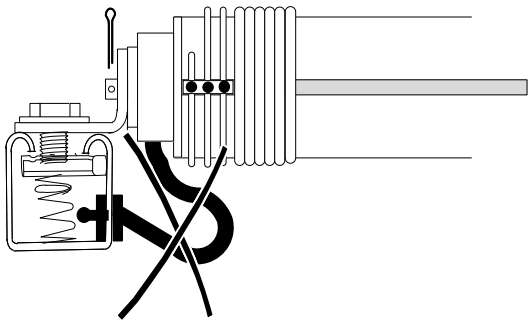


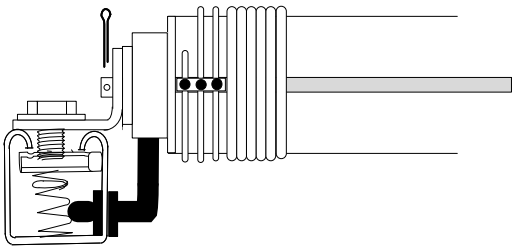
4X

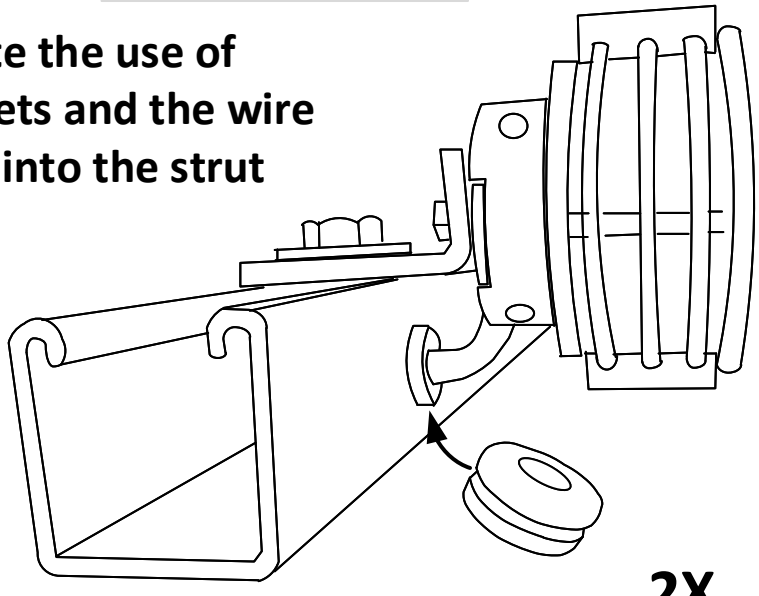
Tighten screw until the washer no longer rotates. Then tighten screw another 135° in the same direction.



Note the use of grommets and the wire path into the strut



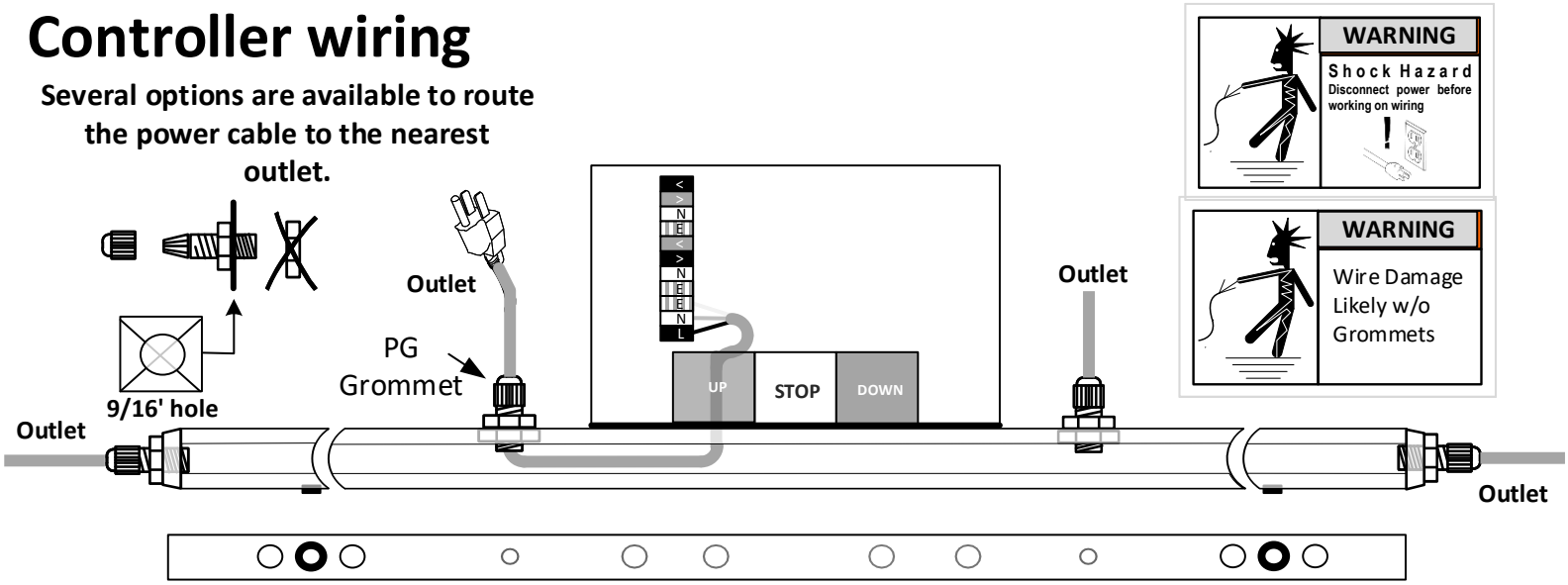




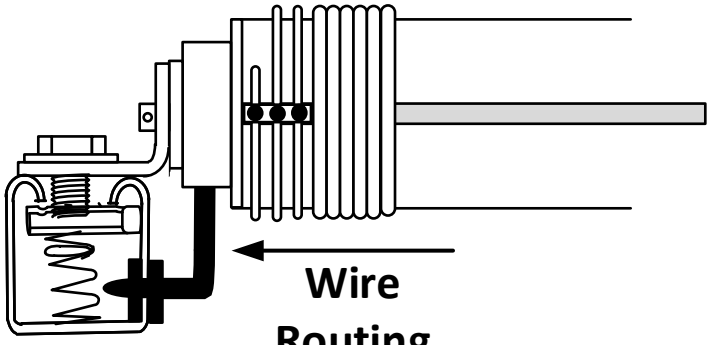
2X

Controller wiring

Several options are available to route the power cable to the nearest outlet.

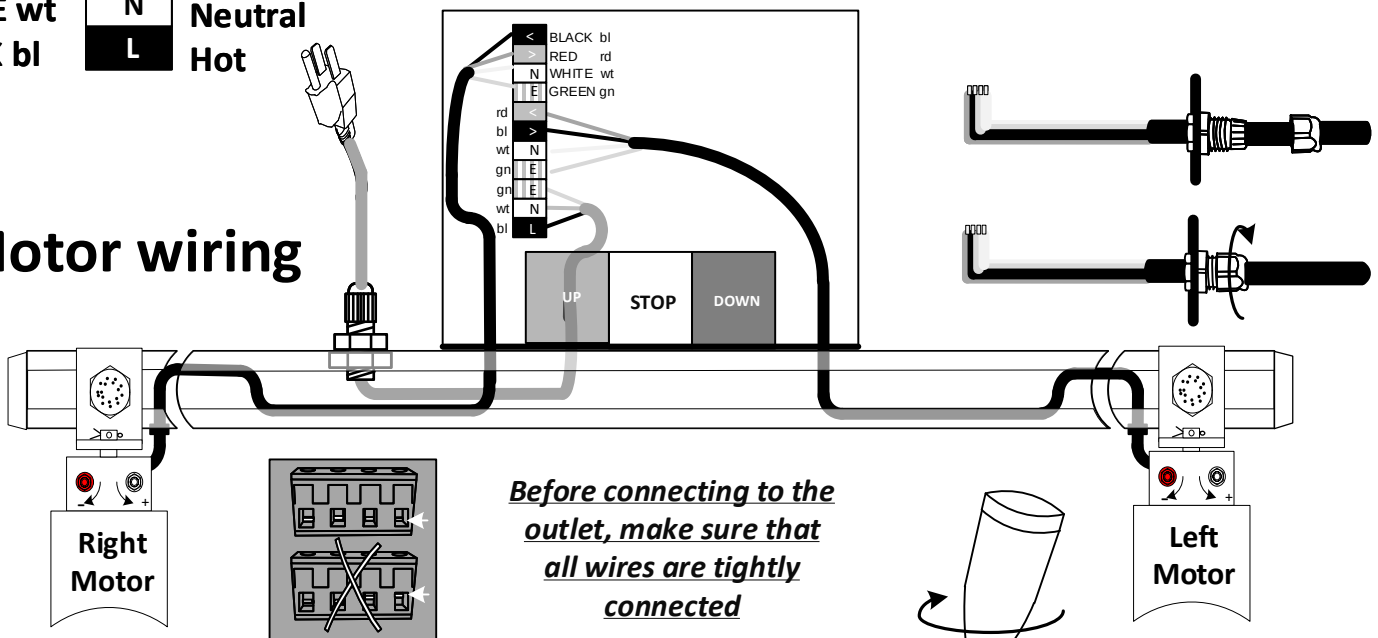


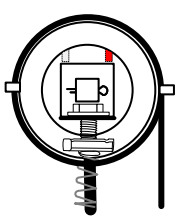
BLACK bl	<	Down
RED rd	>	UP
WHITE wt	N	Neutral
GREEN gn	E	Earth
RED rd	<	Down
BLACK bl	>	UP
WHITE wt	N	Neutral
GREEN gn	E	Earth
GREEN gn	E	Earth
WHITE wt	N	Neutral
BLACK bl	L	Hot

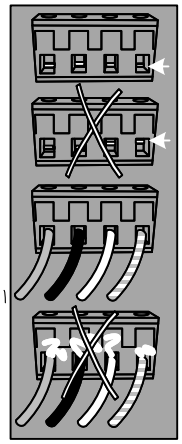


Wire Routing

Motor wiring



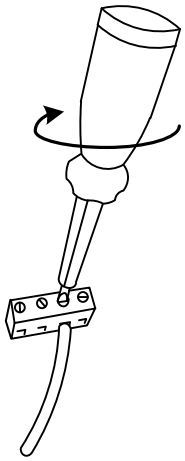


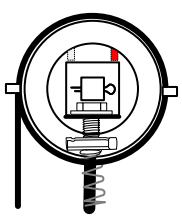


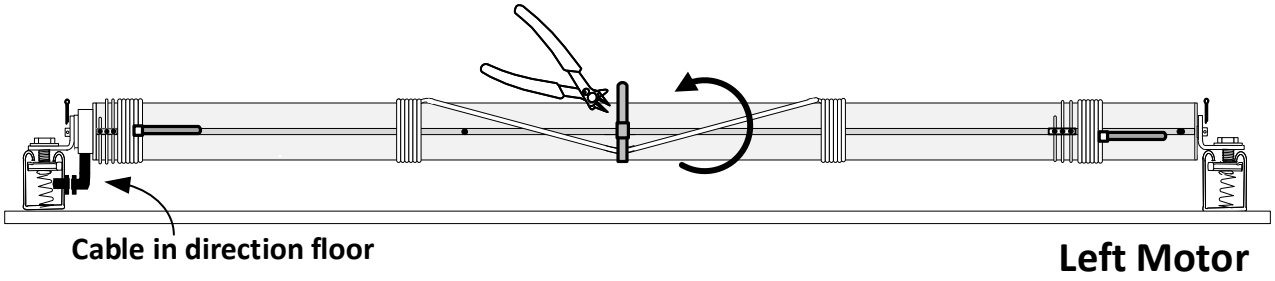
Motor Connector

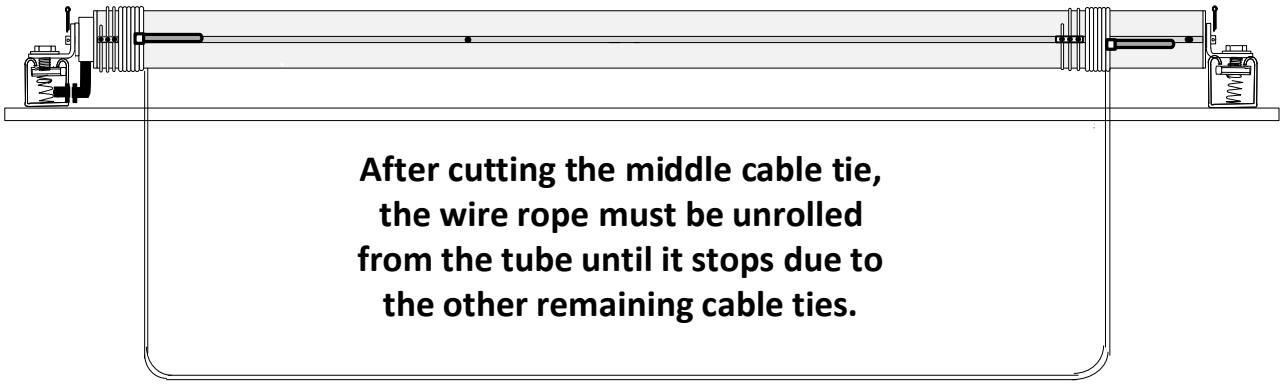
Before connecting to the outlet, make sure that all wires are tightly connected

Wires are connected by tightening binding screws on the top of the green motor connector blocks

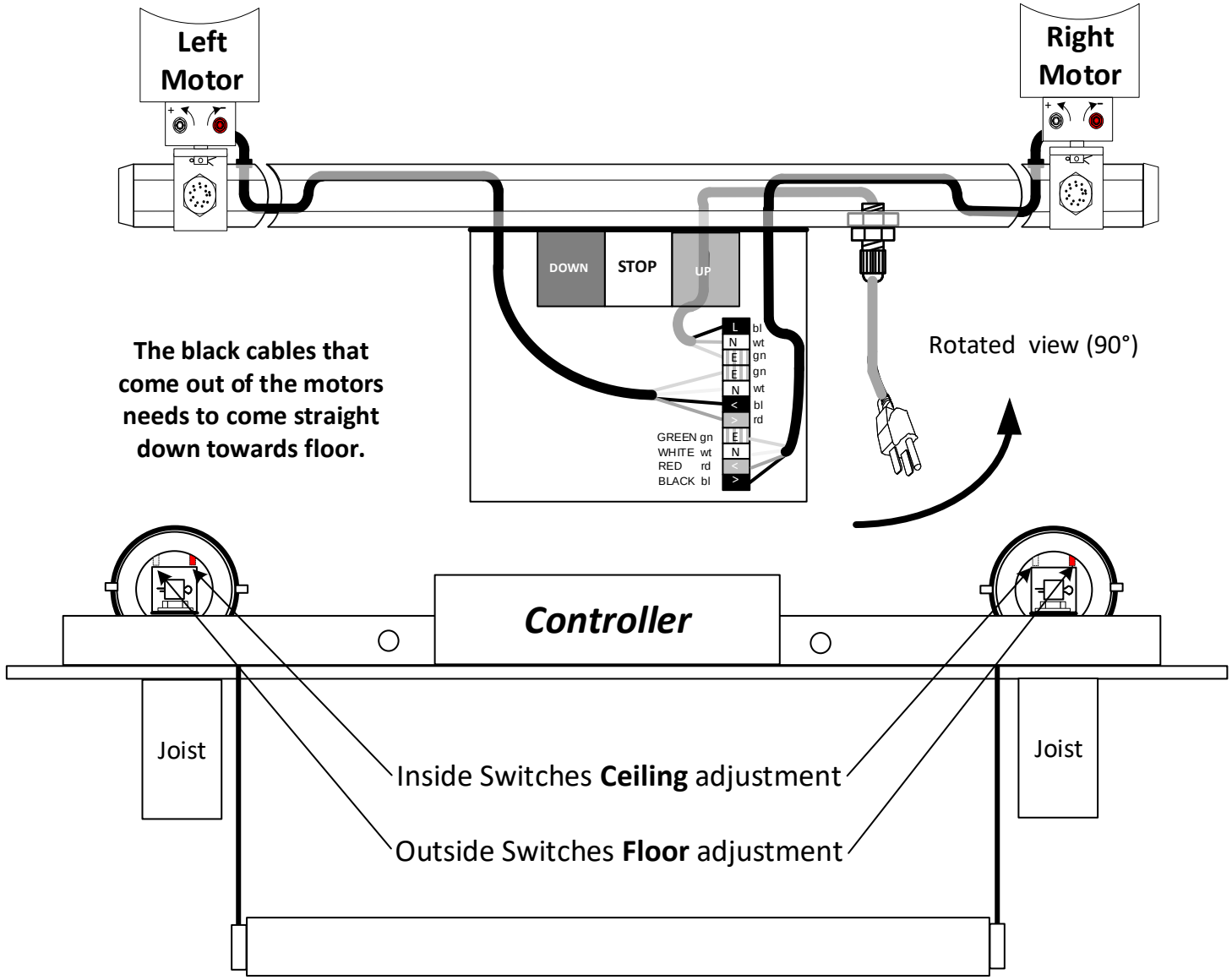


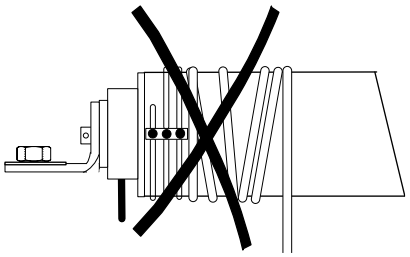


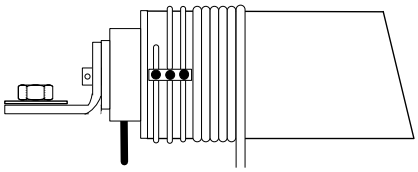




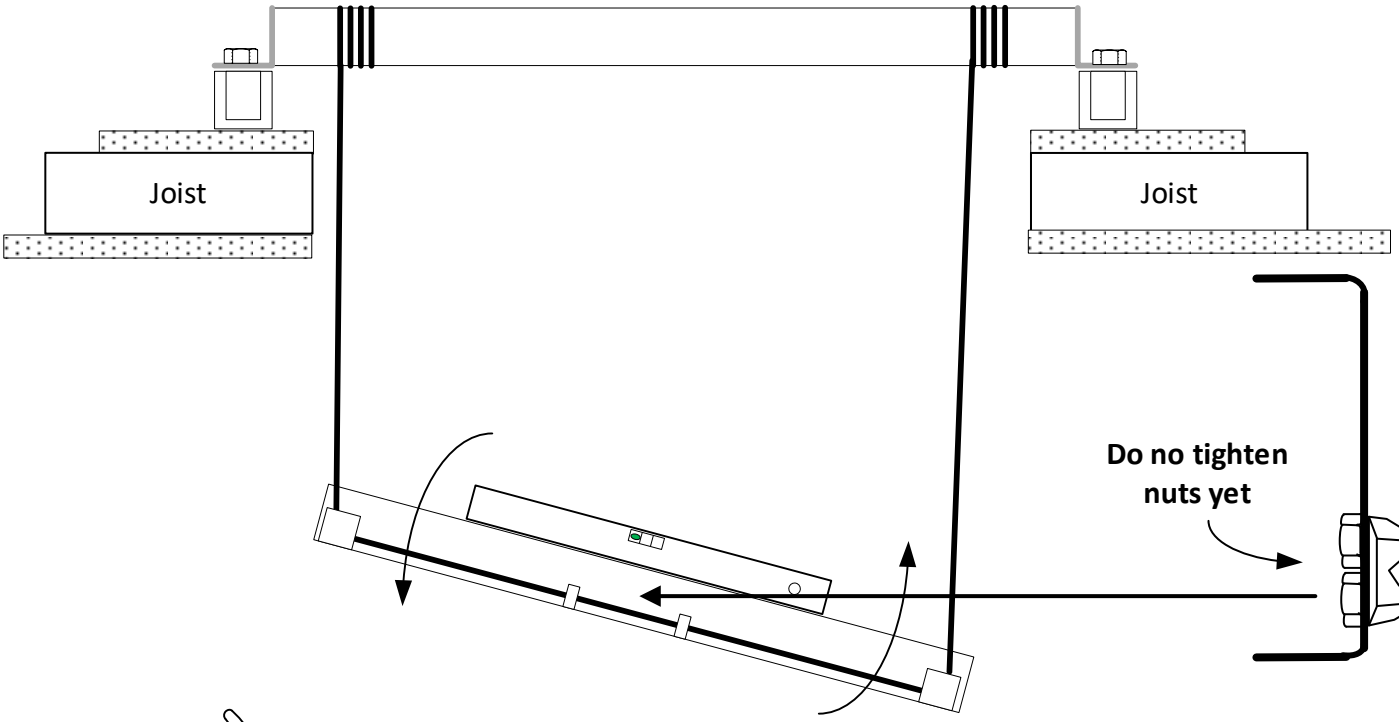
After cutting the middle cable tie, the wire rope must be unrolled from the tube until it stops due to the other remaining cable ties.

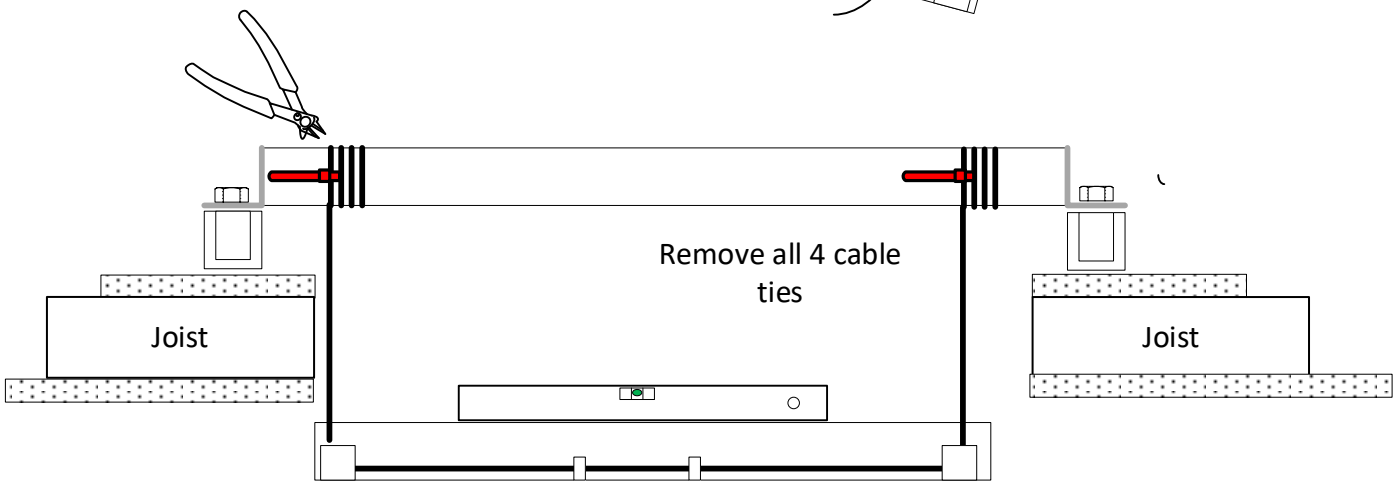


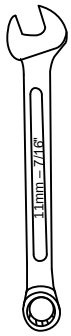




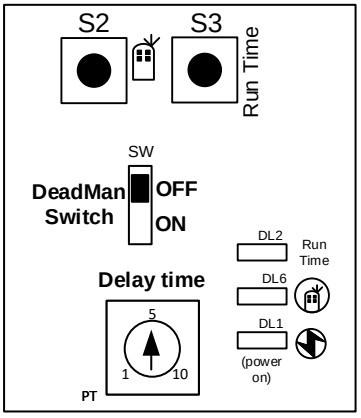
Proper coiled wire rope







Motor Adjustment (leveling), Preparation



1. ***Do not use S2 and S3 for adjustment!***
   (They are only for remote- and time control!)

2. For **adjustment** please move the switch SW called DeadMan in the direction of OFF

3. Delay time 5

DeadMan off- press key (up/down) once and the lift runs. Press STOP 2
This function for adjustment only!

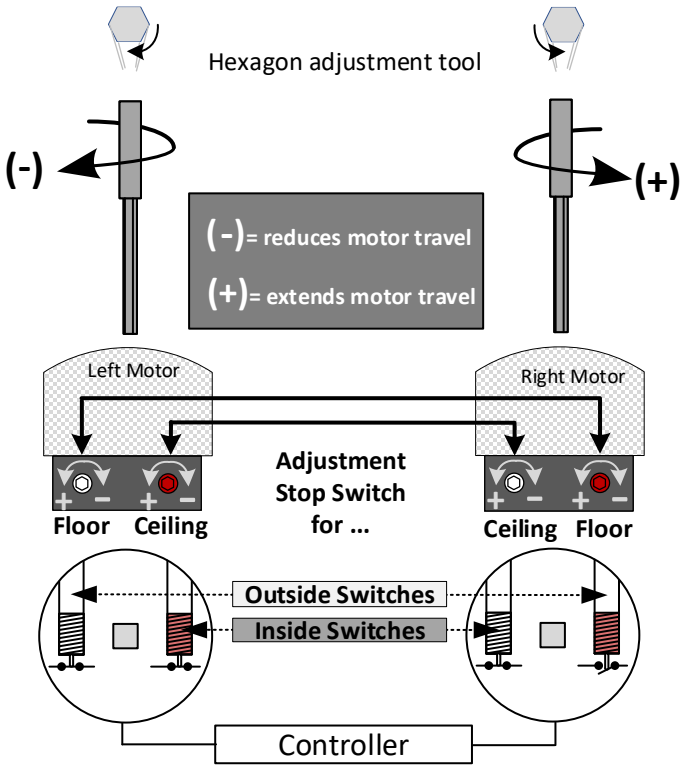
Controller Keys

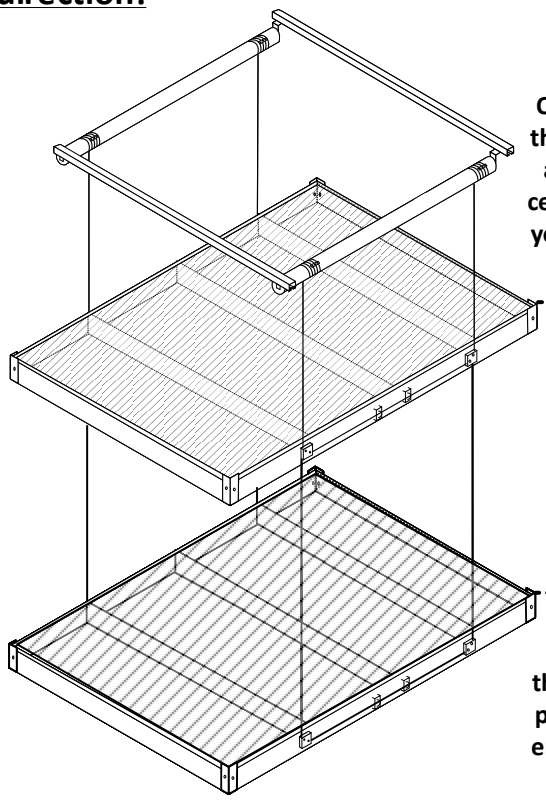
1 UP
2 Stop
3 Down
4 Learn

Controller on Controller off

!Max running Time 1.5min

<u>Most important! All switches work the same way, even though their labeling is different.</u>
<u>Before you start to turn the stop (motor limit) switches, please be sure that you are turning them in the right direction!</u>





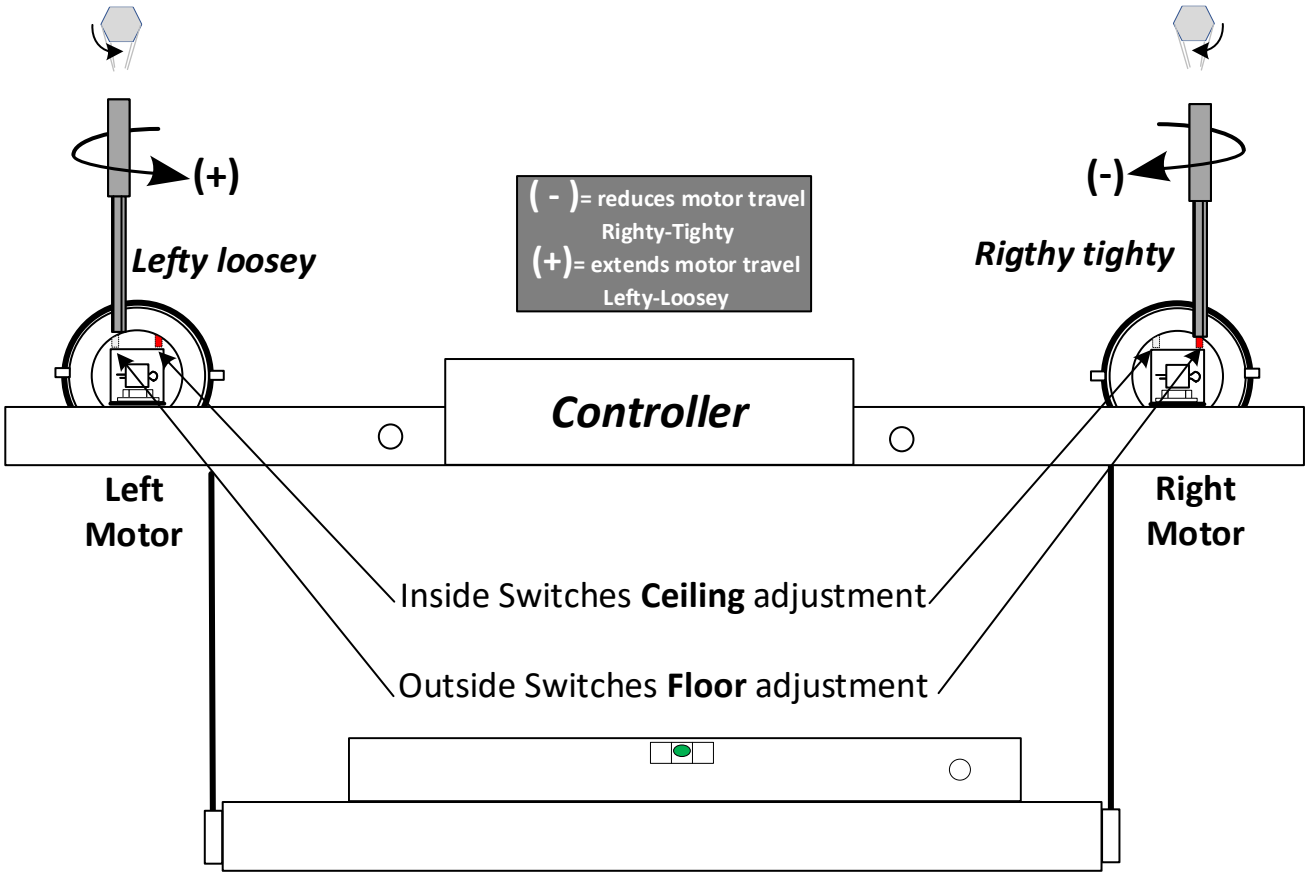
Out of the box, the lift will have a preadjusted ceiling end point you will need to tweak.

UP (1)

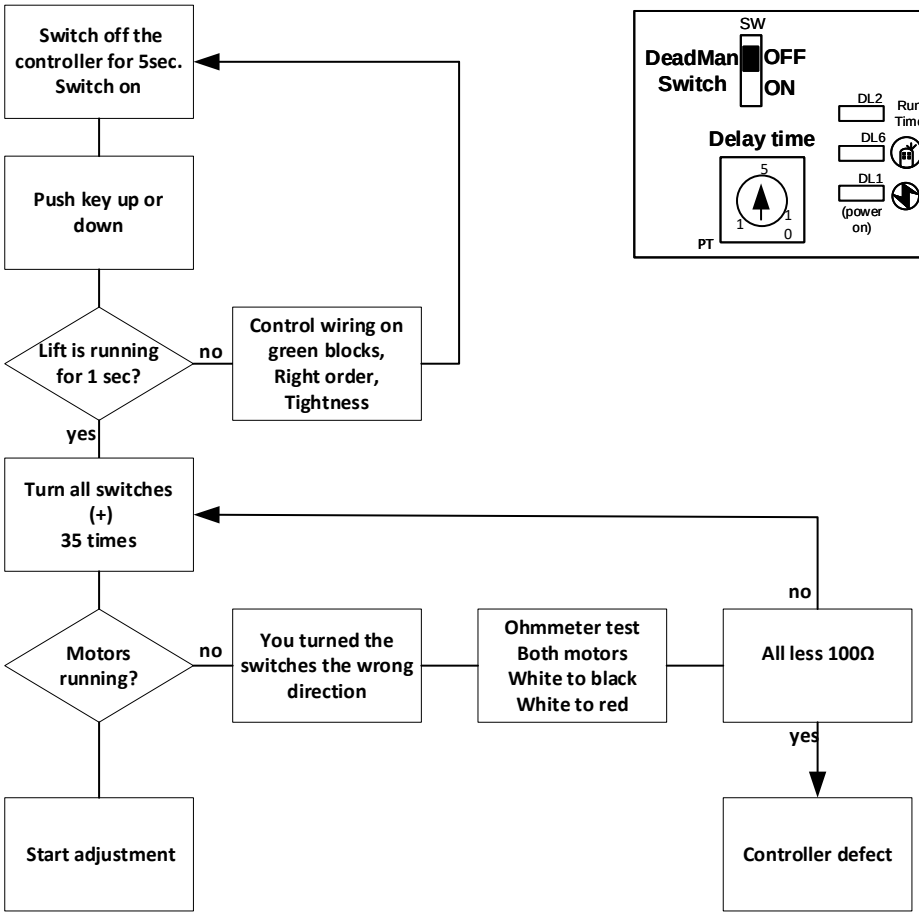
DOWN (3)

Out of the box, the lift will have a preadjusted floor end point you will need to tweak.

Prepare Adjustment (Control electrical wiring Page 14 and 15)



If motors are not running, follow flowchart to the right and refer to page 22. Else go to Adjustments next page.
Advice:
Max. motor running time is 4min. Motor cool down phase is around 15-20min!



www.auxx-lift.com/installation-help
Help Phone: PST 10am-3pm 1 805 862 8271

Motor Adjustment (leveling), Preparation

Technical information for 400 lbs lift

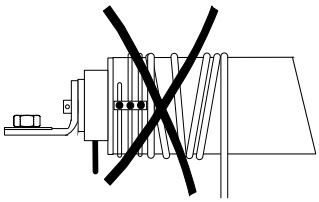
Max travel is	14 feet/ 4.30m or 20 feet / 6m
1 tube rotation	12 turns on the stop switches
1 tube rotation	9" / 22cm
1 turn on stop switch	3/4"/ 2cm
Smallest movement	1/16" / 1mm
Movement Rack 14'*	4"/10cm
Switch turns	250

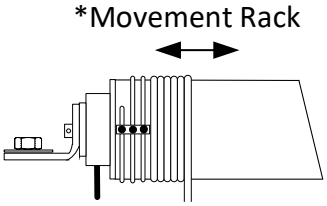
Only turn the switches by hand with the tool provided
Stop turning immediately if you feel a mechanical click in the switch when turning.

Technical information for 600 lbs lift

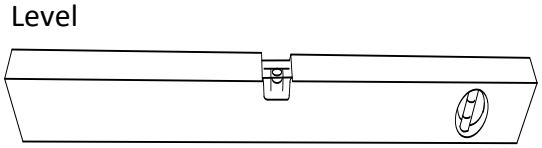
Max travel is	14 feet/ 4.30m or 20 feet / 6m
1 tube rotation	12 turns on the stop switches
1 tube rotation	11" / 28cm
1 turn on stop switch	1"/ 2.5cm
Smallest movement	1/16" / 1mm
Movement Rack 14'*	4"/10cm
Switch turns	300

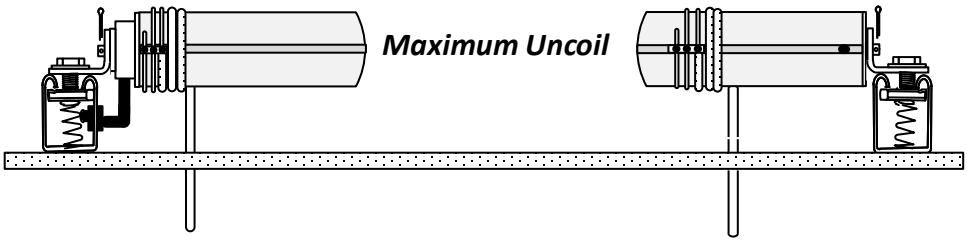
Only turn the switches by hand with the tool provided
Stop turning immediately if you feel a mechanical click in the switch when turning.





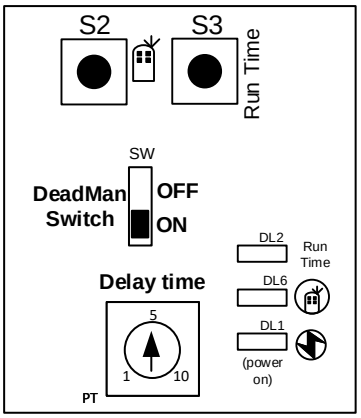
Proper coiled wire rope



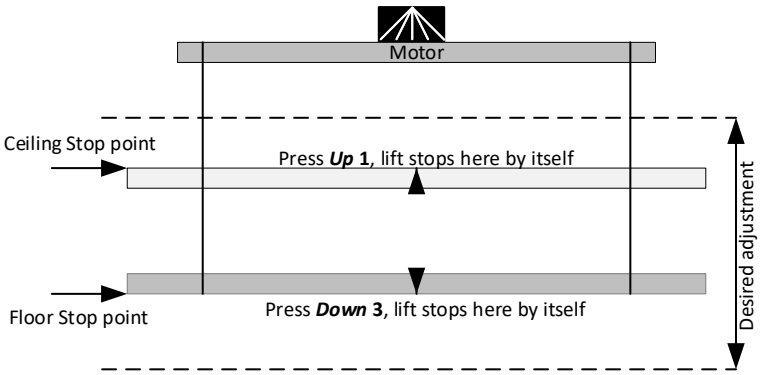


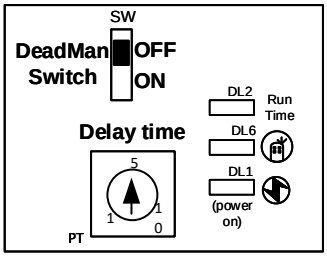
Adjustment is only possible with the DeadMan switch OFF, and after a motor limit has been reached or lift is stopped manually (white LED lights on controller are lit and stay on).

After adjustment you MUST switch the DeadMan back on. It's for your safety!



DeadMan Function: You use only the UP and DOWN buttons. You have to hold the button to make the lift move. When you release the button the equipment will stop immediately. If a key gets jammed you can stop the equipment with the stop button.





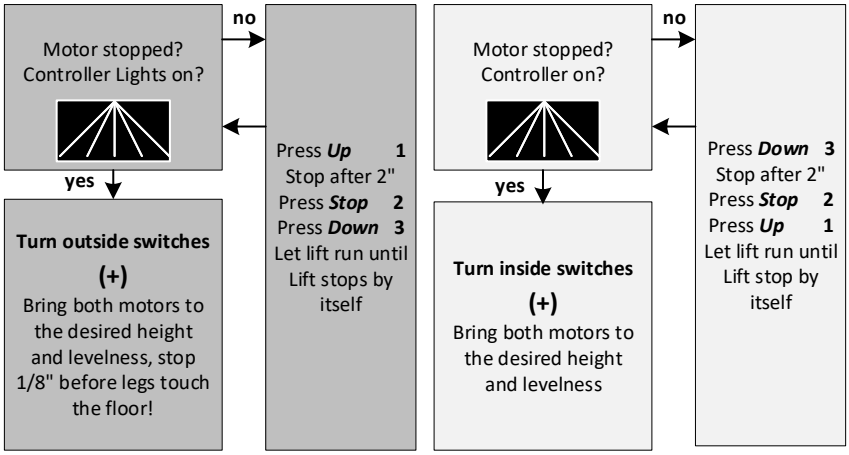
White LED

Controller on

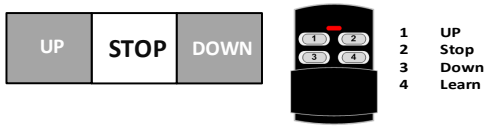
Max running Time 1.5min

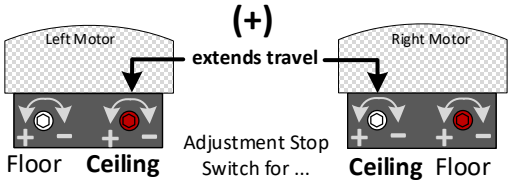
Overheated? Not running just clicking?
Motors were running more than 4min?
Allow motors to cool for 20min

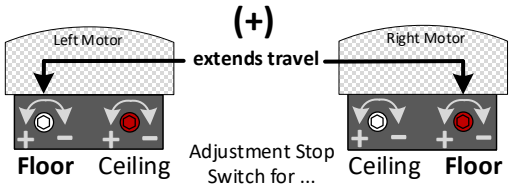
Floor Adjustment

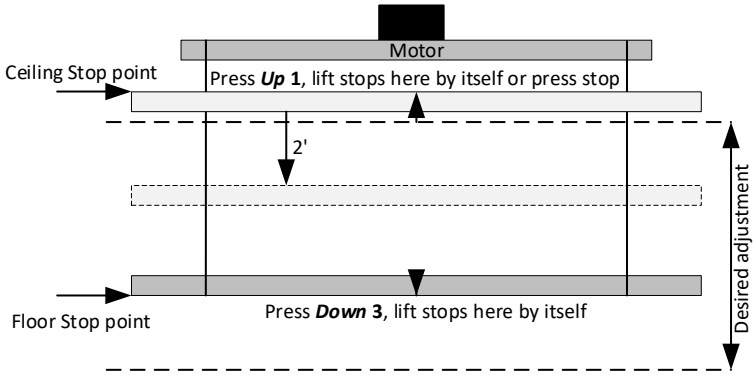


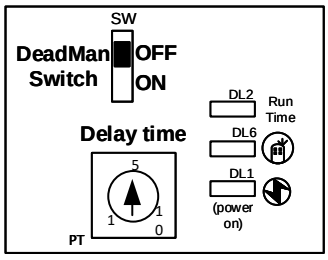
Ceiling Adjustment









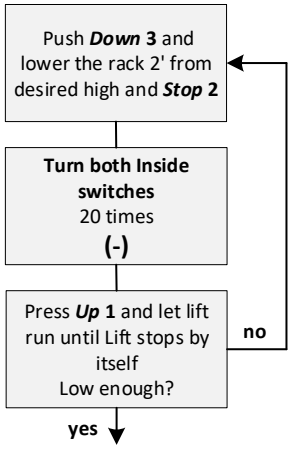


White LED

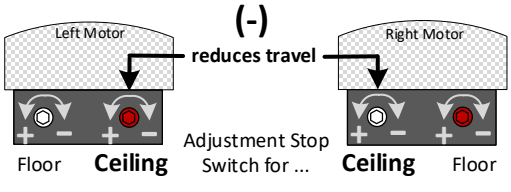
Controller off

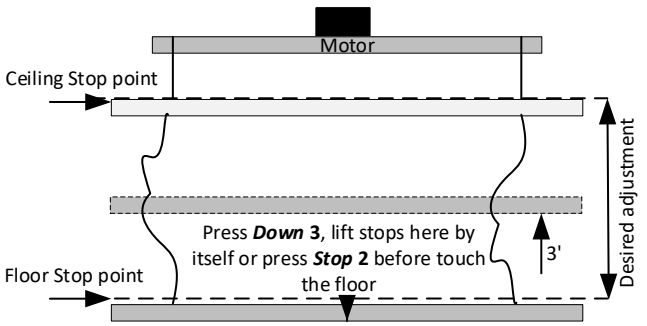
Overheated? No running only clicking?
Motors were running more than 4min?
Allow motors to cool for 20min

Ceiling Adjustment Preparation (too high)

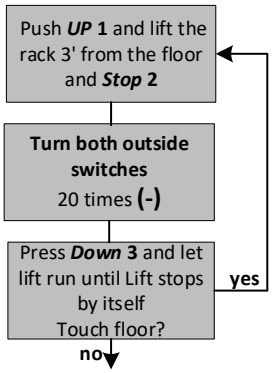


Ceiling Adjustment

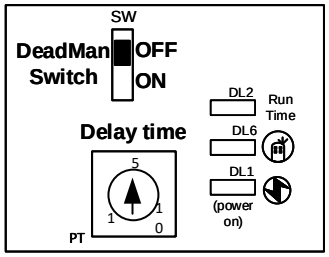


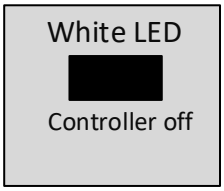


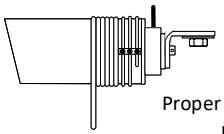
Floor Adjustment Preparation (too low)



Floor Adjustment

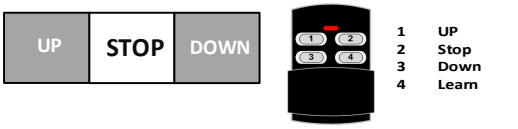


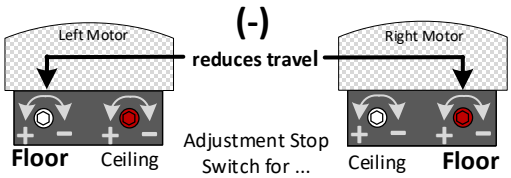




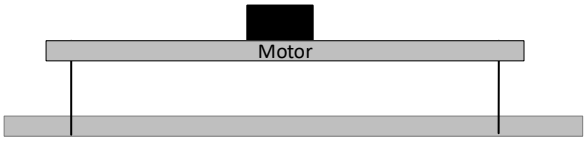
Proper coiled wire rope

Overheated? No running only clicking? Motors were running more than 4min? Allow motors to cool for 20min





Clicking



Over heated? Wait for 20min

Still clicking?

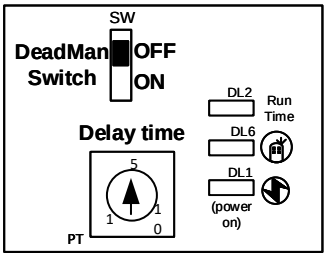
Turn all 4 switches in direction **(+)** 35 turns **Lefty loosy**

All cable tight connected?

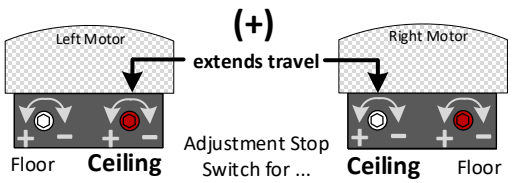
Switch off the controller for 3 sec, switch on and push up or down

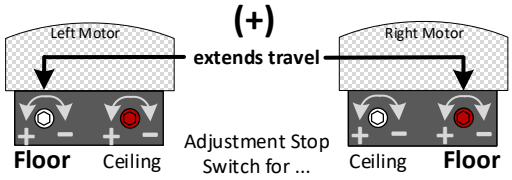
Still clicking?

Call Service 805 862 8271



Overheated? Not running just clicking? Motors were running more than 4min? Allow motors to cool for 20min



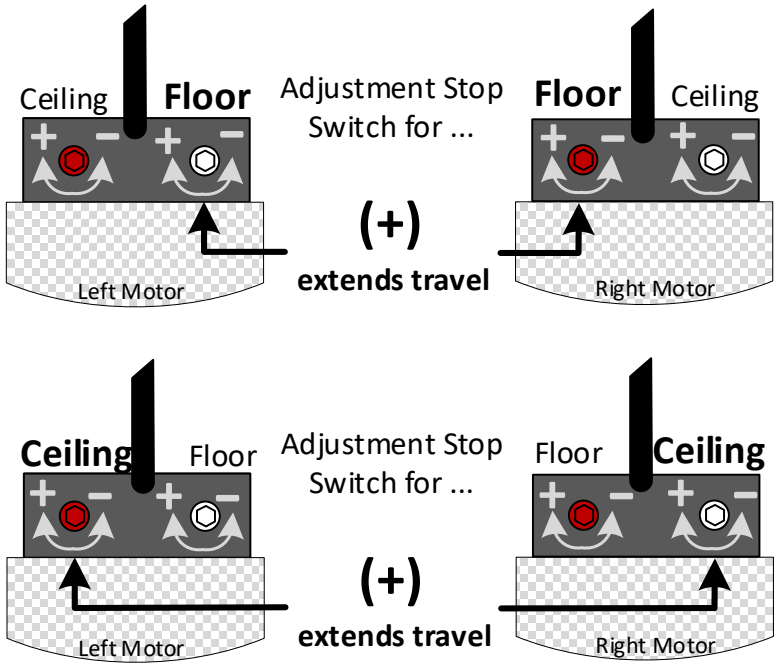


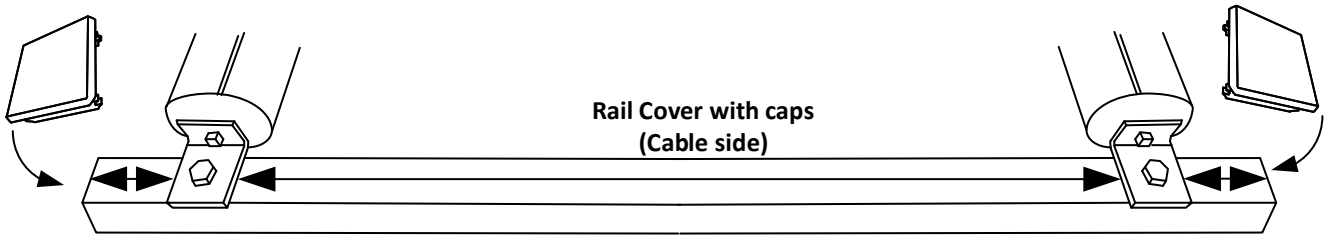
If you are done with the adjustment, please switch the DeadMan function back on

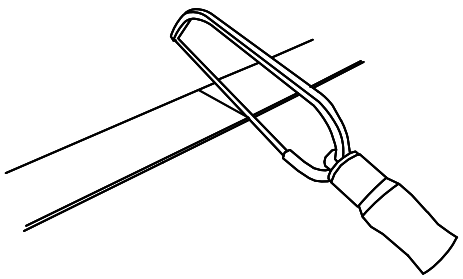
Important! The Lift has to run to the ceiling end points (stopped automatically) in order to be leveled properly.

Wire routing to the top

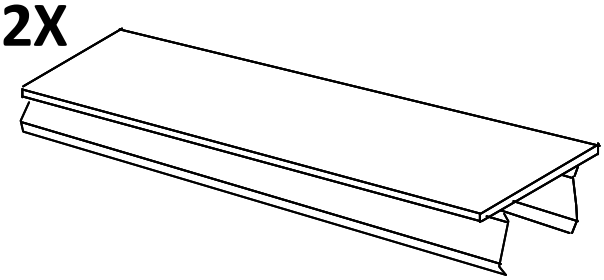
Compare to page 14





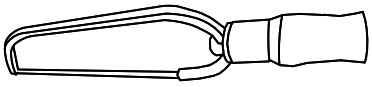


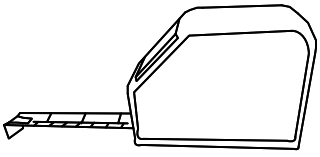
2X

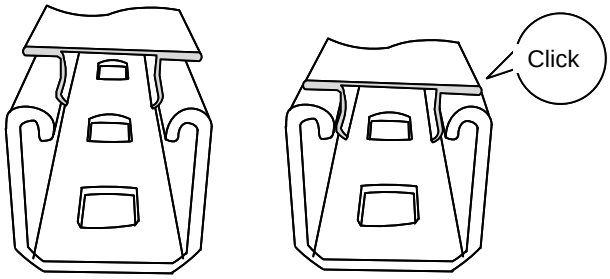


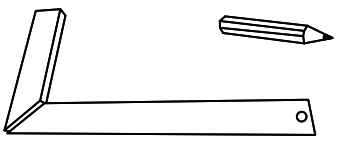
4X

5'/150cm



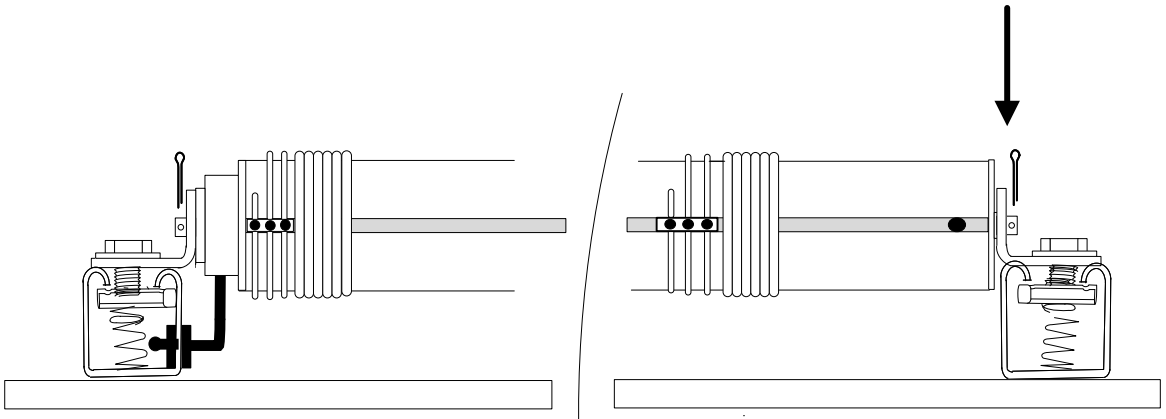




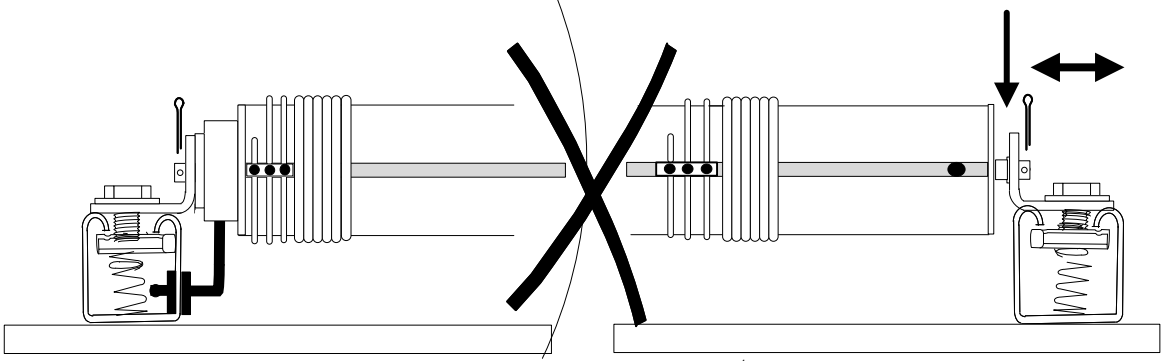


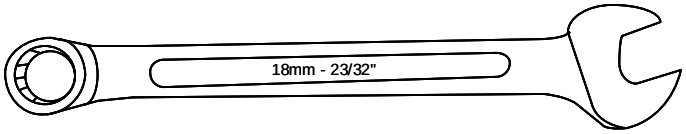
Inspection

Inspect and tighten all screws, wire clips, grommets and cotter pins. Make an alignment mark on each part that might be able to shift over time (like the motor mounts) using a Sharpie pen. Inspect all items, especially movement on the alignment marks, once a year.

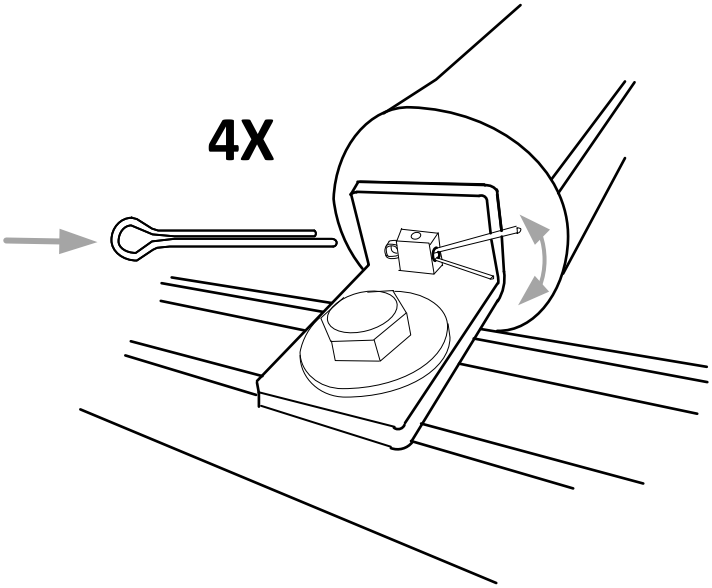


Gap not more than **1/16"**/1mm

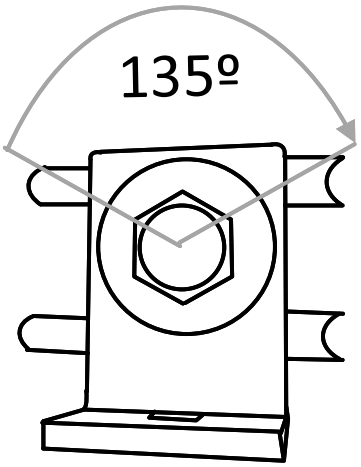




4X



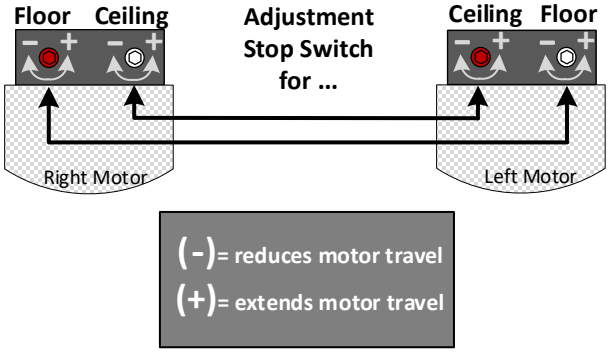
tighten

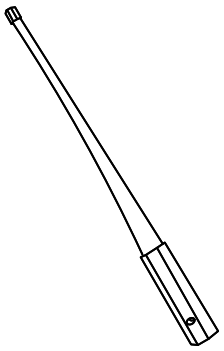


Equipment doesn't work

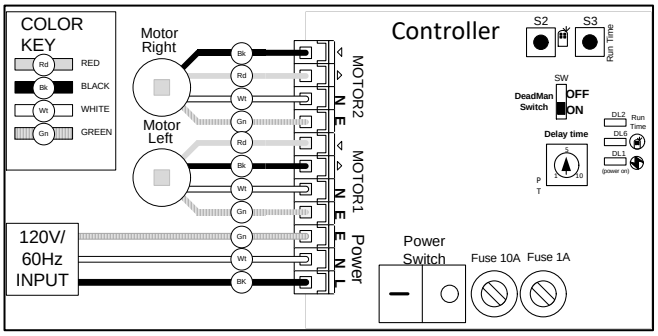
Problem	Reason	Possibility/Fix
1. Motors not running	Controller is on? Green LED DL1 illuminated. Check wire connection and wire color. Push up/down switch on Controller.	Check outlet and 1A/10A fuse. Not in right order or loose wires. Remote control not programmed.
2. Relays are clicking	Motor limits reached. Motors overheated. Test all wires (Measurement).	Protection mechanism active (common).**Turn all 4 end switches 35 rotations in direction (+).** Wait for 15min. Connector defect.

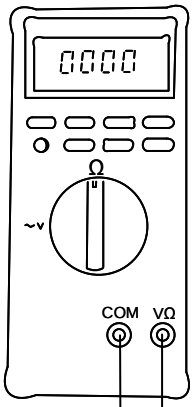
Advice:
DL1 on (power on)
1A/10A fuse okay



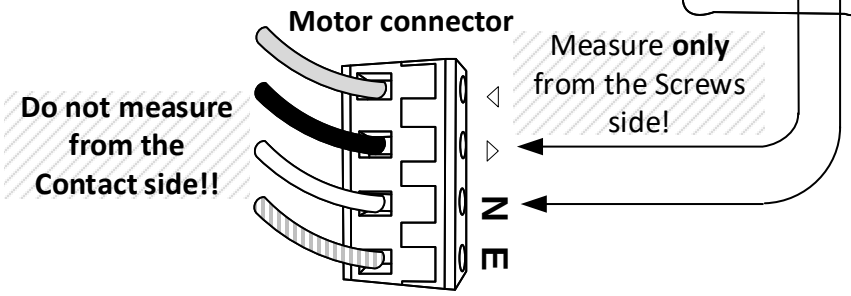


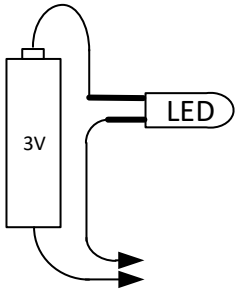
Wire Measurement





Troubleshoot Motor Wiring:
Disconnect the Motor connector and use an Ohmmeter to test the readings per the below chart. Alternatively you can use a 3V battery.

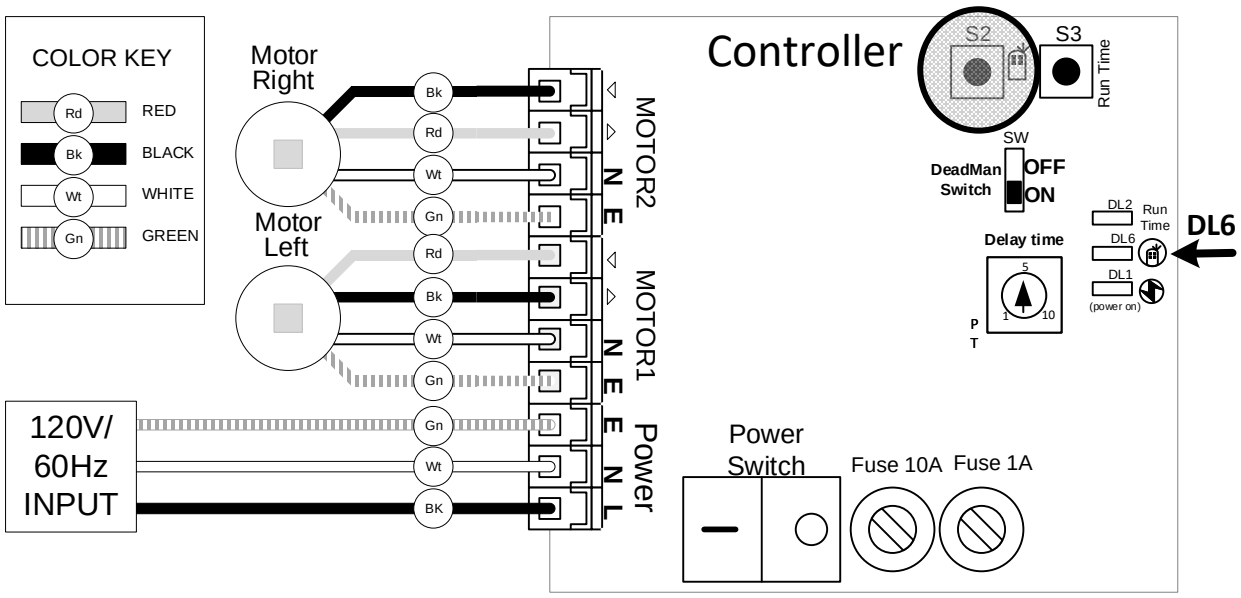




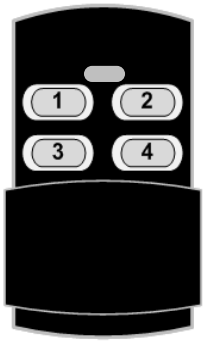
Motor 1&2 Basic Adjustment					
Test Ohmmeter			Test 3.0V Battery		
Measure	Result				
^ and N	less 100Ω	√	^ and N	LED on	√
˅ and N	less 100Ω	√	˅ and N	LED on	√
^ and N	∞ Ω	Adjustment	^ and N	LED off	Adjustment
˅ and N	∞ Ω	Adjustment	˅ and N	LED off	Adjustment

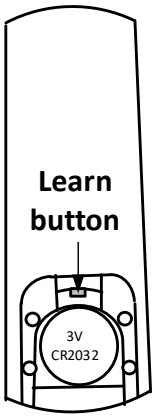
Before you start be sure the motor is not overheated → **Wait for 15 min**
Connect the measurement to the motor wire with the ∞/ LED off
Start with the adjustment on the motor, see picture "Motor Adjustment"

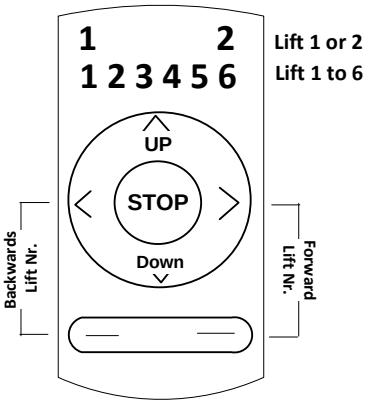
Interference (Radio contact lost):
Lift stopped by itself- hold the Remote Control closer to the controller!
Reason:
Most of all remote controls works on the same frequency 433MHz



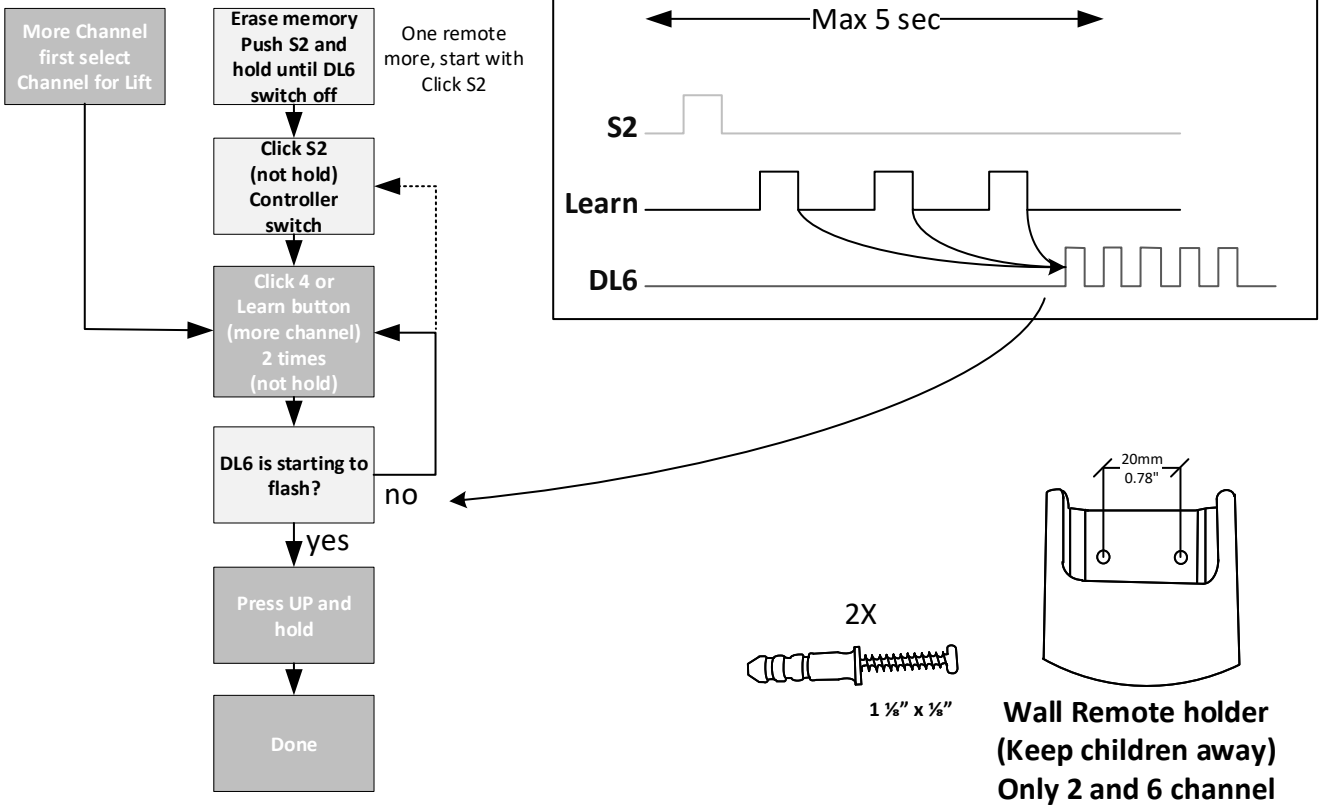
1 UP
2 Stop
3 Down
4 Learn





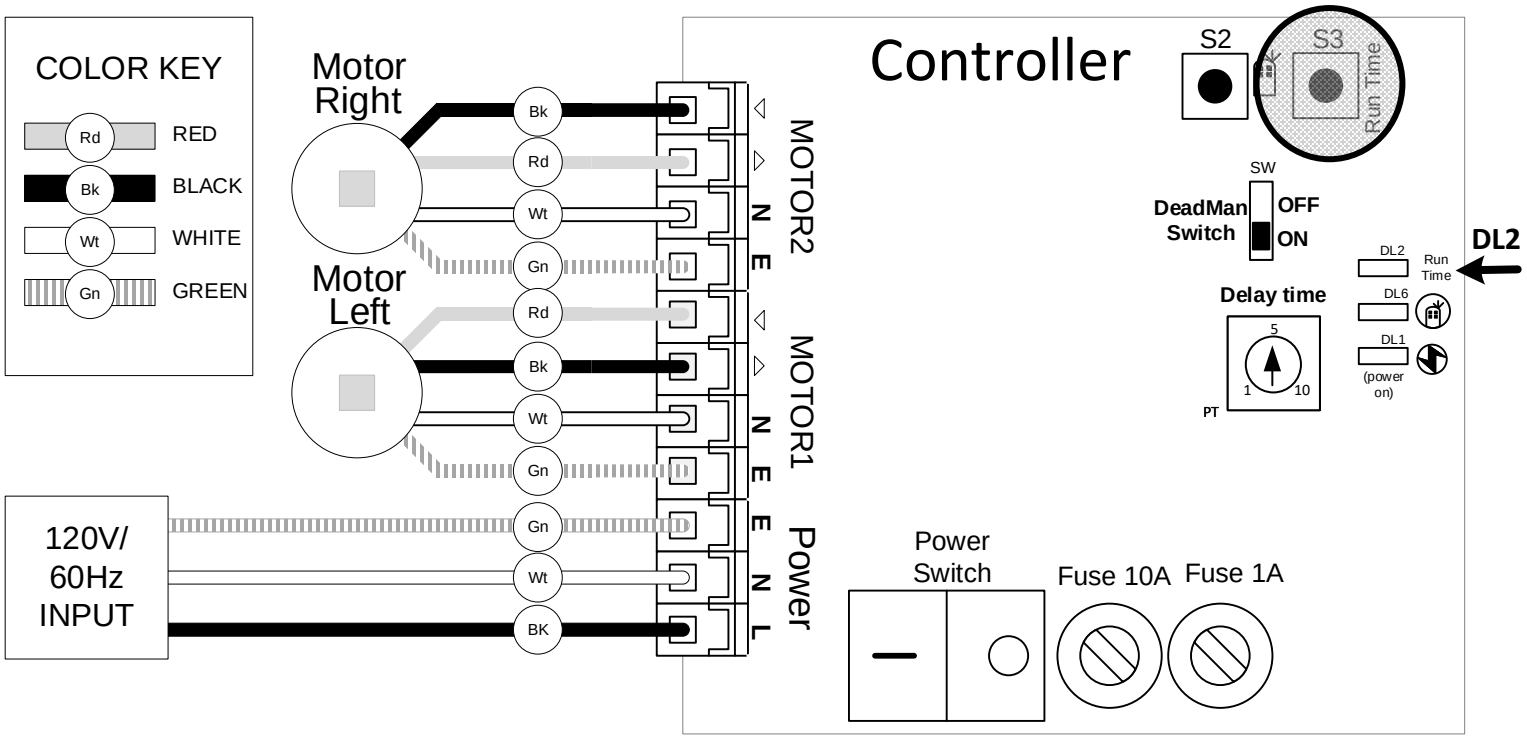


One Channel Remotes are Pre-configured



Wall Remote holder
(Keep children away)
Only 2 and 6 channel
Remote control

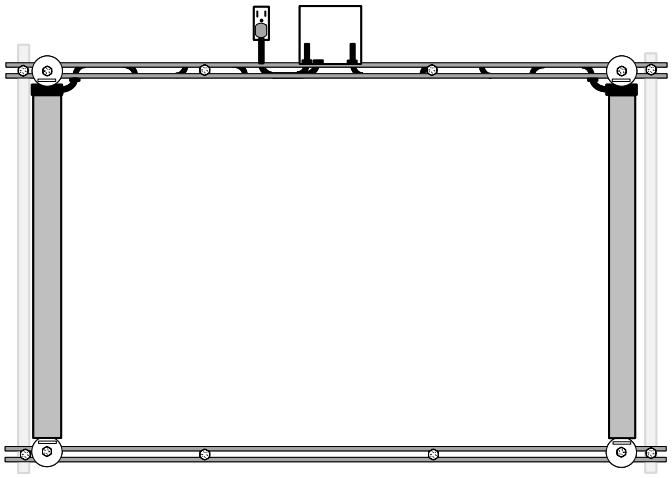
Running Time Preadjusted
for 1.5 min

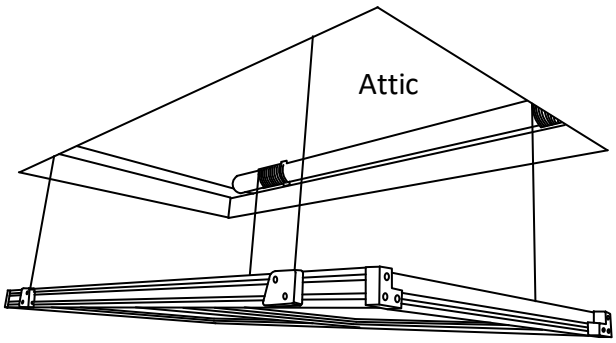


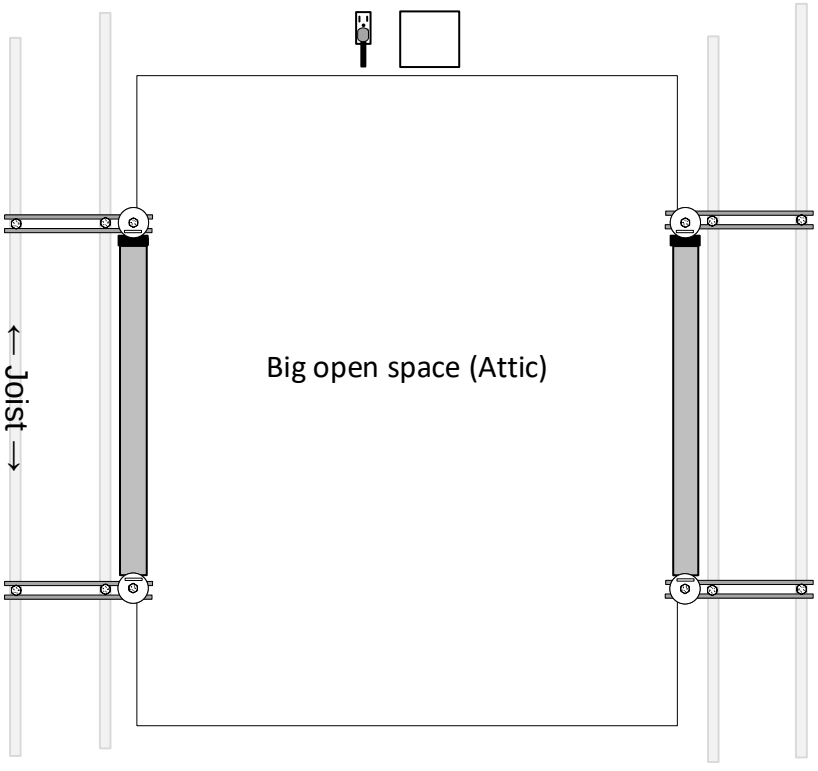
Switch on Controller	**Indicator**
Switch on the Controller, press power switch to the left	LED DL1 is lit
Programming the running time	**Indicator**
Press S3 run time button	LED DL2 starts to flash after 3 sec.
Hold S3 for 1:30min (max running time)	LED DL2 flashed and stopped release key
(You can program time between 10s and 1:30min) release key	e.g press S3, LED start to flash, hold for 30s, Running time is 30s now

Problems	**Check**
After switch on, LED DL1 is not lit	Is the plug connected to the outlet? Is the Outlet on a switch (and turned off)? Check the outlet works with an appliance. Check the wire connection. Disconnect the Controller from the outlet and check the fuses.

Options

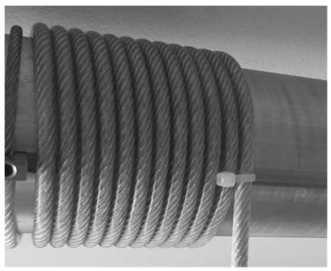






Projects in which the wire rope lose tension

Wire rope wound up



Maximum unwound Cable tie tightened around the last two turns

Even without tension the cable wraps are neatly side by side and no overlapping.