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# Dual Sliding Gate Mechanism (for automatic sliding gates)



Assembly & Installation Instruction V5.3

standard 4/50-A alloy guide channel & armature kit for the automation of telescopic sliding gates

# tele-MECH R

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### Kits:

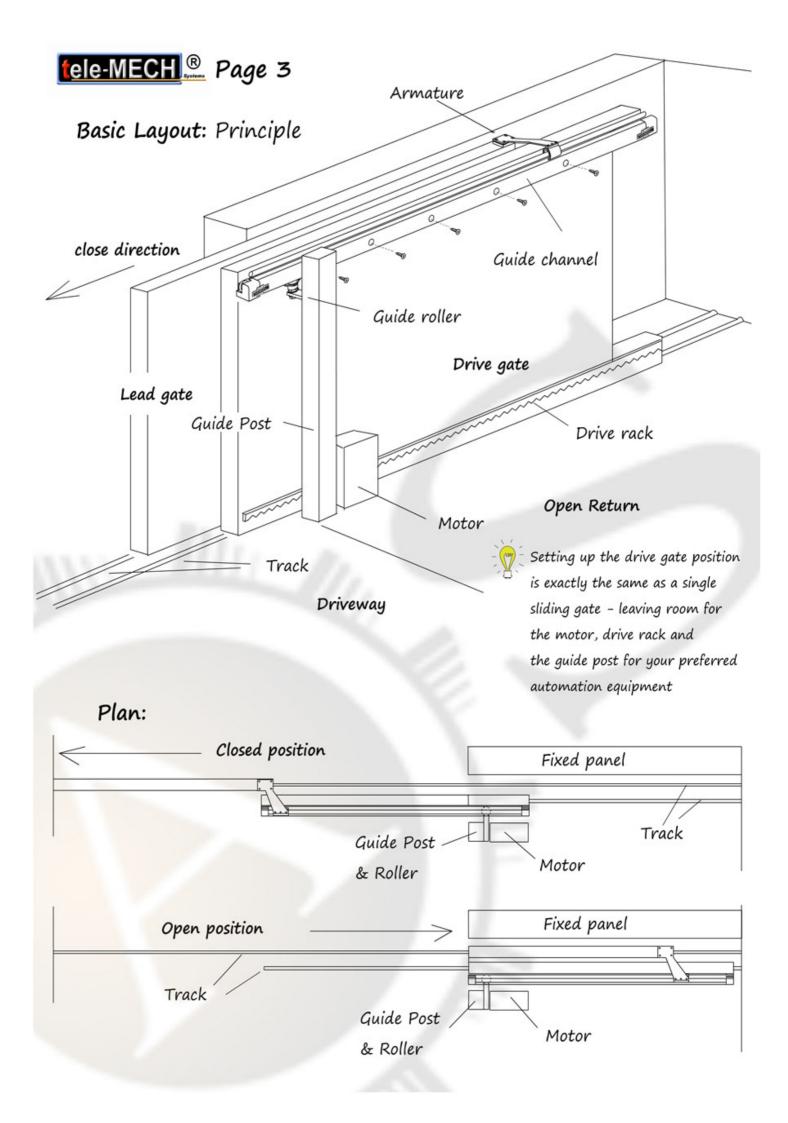
page 16 ----- Standard Kits

### Alternative Attachments:

page 17 ----- WC Armature plate for timber

Recommended for domestic use with individual gate panels between 40kg to 200kg with rack & pinion motor capable of soft start ramp and slow down to stop.

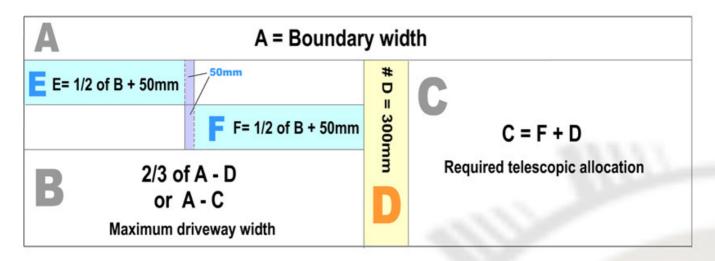
Gates travel twice as fast as standard single sliding gates, photoelectric safety beams or other obstacle detection devises should be a standard consideration when choosing this type of gate for your project.



## Area Division Table

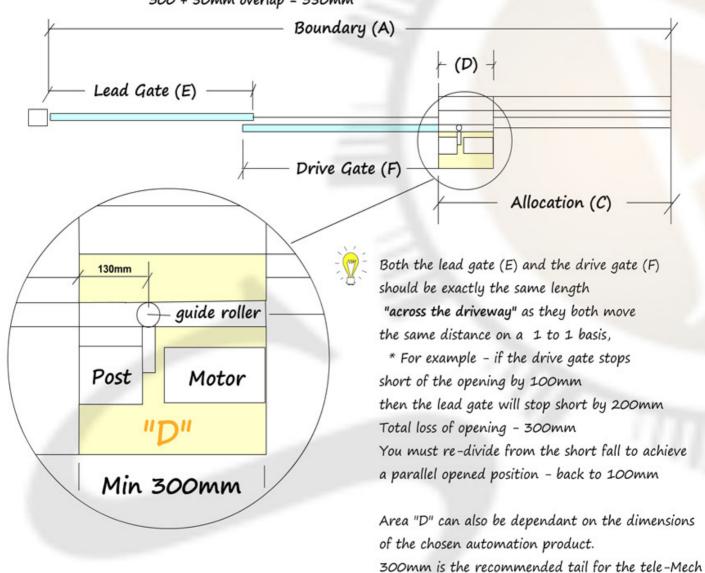
With 50mm gate over lap



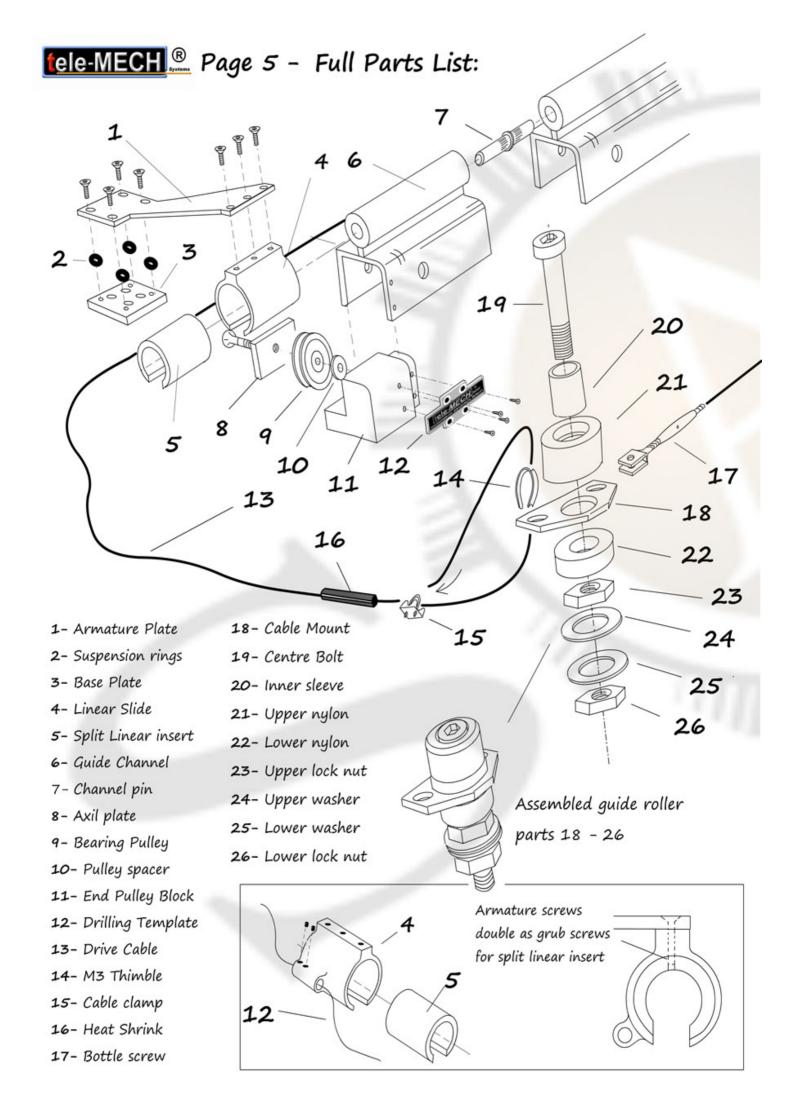




Simple calculation: divide the driveway opening by 2 and add 350mm and you will get the required stacking allocation space. (C) 300 + 50mm overlap = 350mm



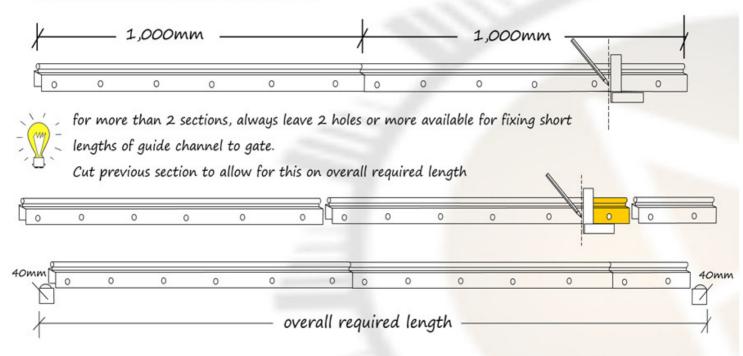
guide channel only.



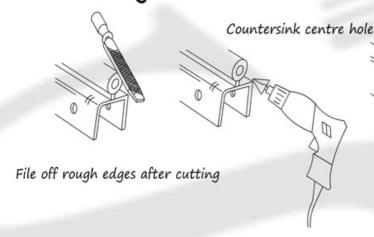
# Channel Prep: 1

### Preparing 4/50-A Guide channel

Place channel sections end to end and note mounting hole positions and length required before cutting - Mark & cut to desired length according to division table, minus the pulley blocks which are 40mm on each end.



## Connecting sections:

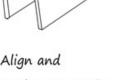


After cutting channel remove all rough edges, clean centre hole and countersink to 13 mm or more before inserting channel pin

> Insert channel pin for first section

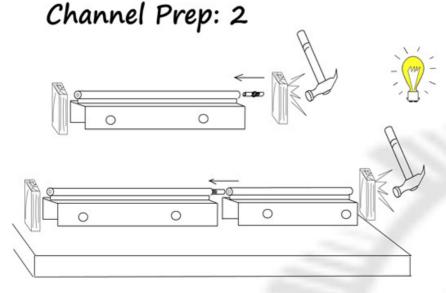
If powder coating these sections, do not connect until after the powder coating process.

\* Only for mill finished items and not advised with anodised version



Align and apply next section

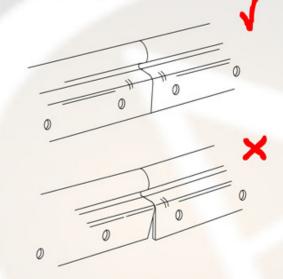
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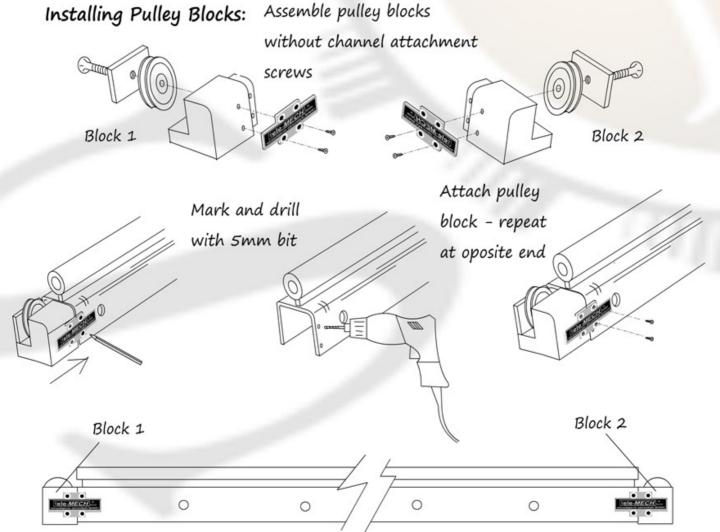


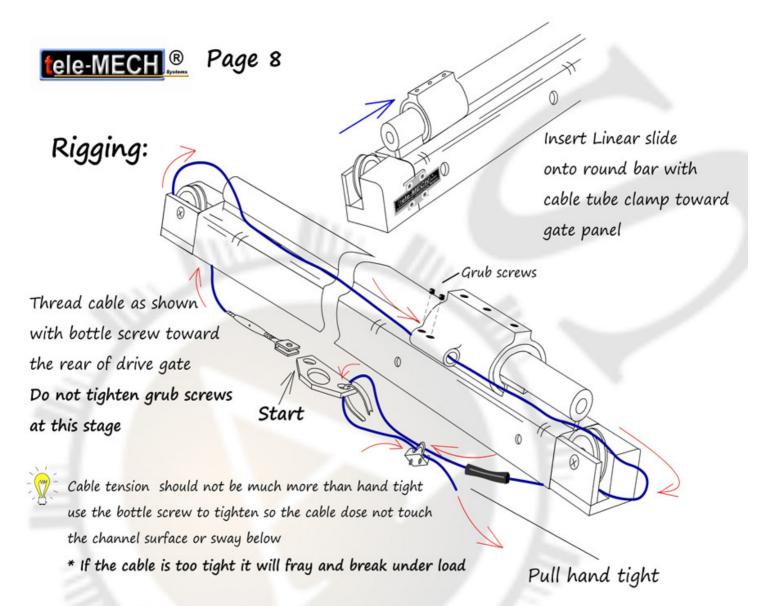
The channel pins have been designed as a permanent join and to prevent twisting, once inserted, they are difficult to remove or adjust if incorrectly aligned

- Pay special attention to this step!

Place on flat surface so the channel walls are in perfect alignment and use a soft hammer or section of wood as not to damage the joining surfaces







Cut off excess cable approx. 30 to 40mm from cable clamp, move heatshrink over free end and activate with heat gun

Left Hand

Bottle screw

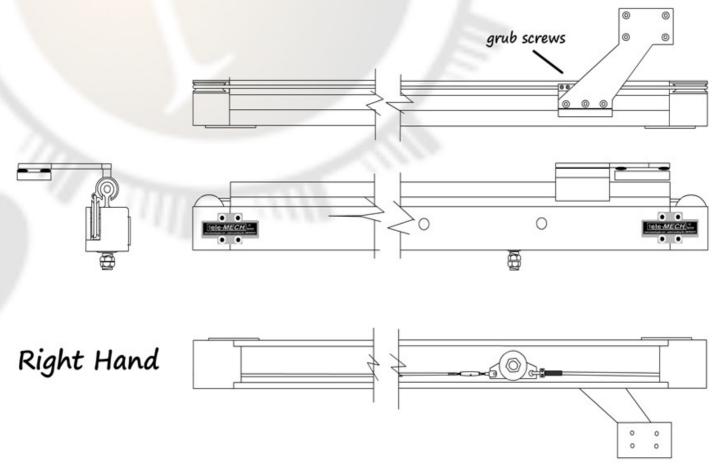
Cable clamp

Bottle screw

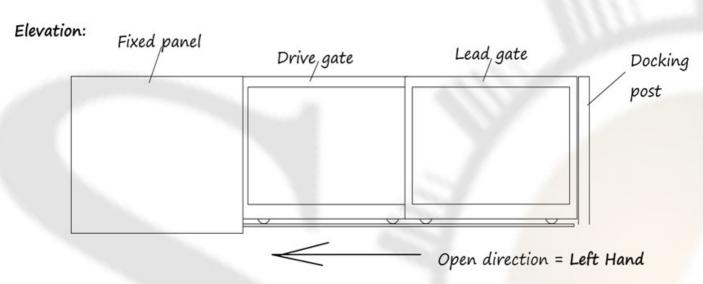
Cable clamp

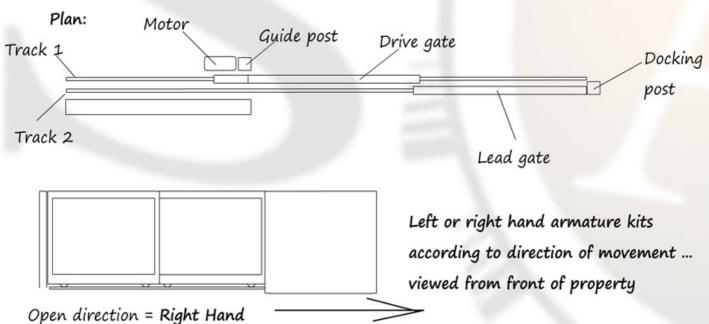
Cable clamp

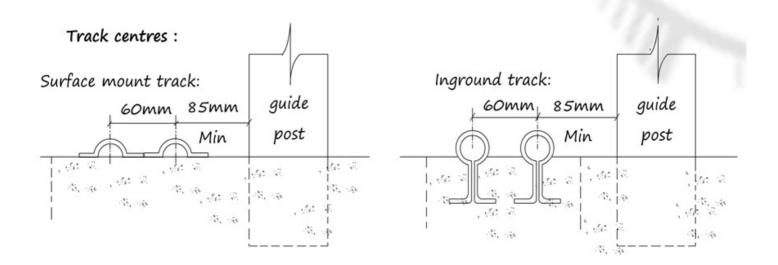
# Assembled: tele-MECH ® Page 9 grub screws 0 Left Hand



# Site preparation: (standard layout)



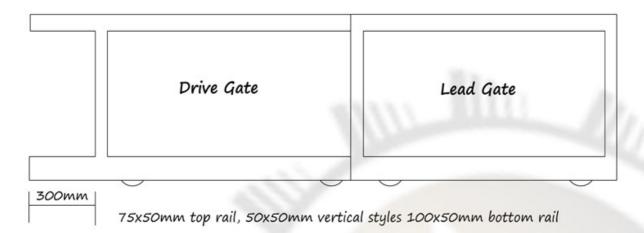




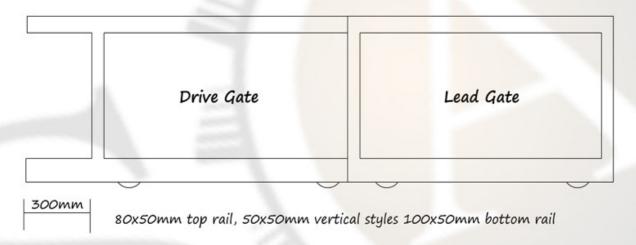
### Frame Recommendations:



### Steel frames:



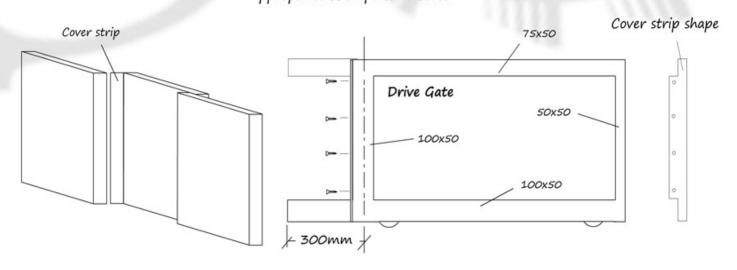
## Aluminium frames: min. 3mm recommended to increase weight.



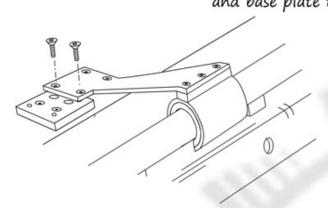
Closing cover strip:

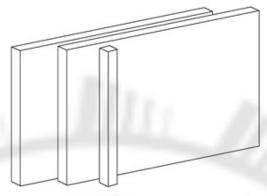
A cover strip between the fixed panel and the drive gate may be added to the frames to fill the space left by the lead gate when closed.

Make the back style of the drive gate 50mm longer then fix the appropriate sized plate to cover.



Attach Armature and base plate to one side

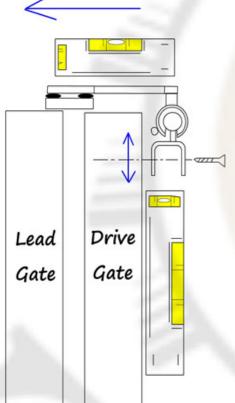


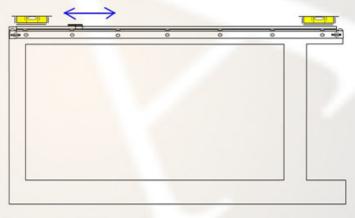


Place gates on tracks in plumb position

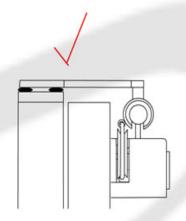
Attach guide channel to drive gate using the armature plate to set the level along entire length..

Slide armature back & forth keeping both gates level to check smooth movement

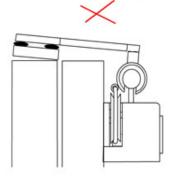




Attach one end of the guide channel using the armature plate as a guide, then slide to opposite end and attach the other (linear slide and armature will slide freely on cable if the grub screws are not tightened.)



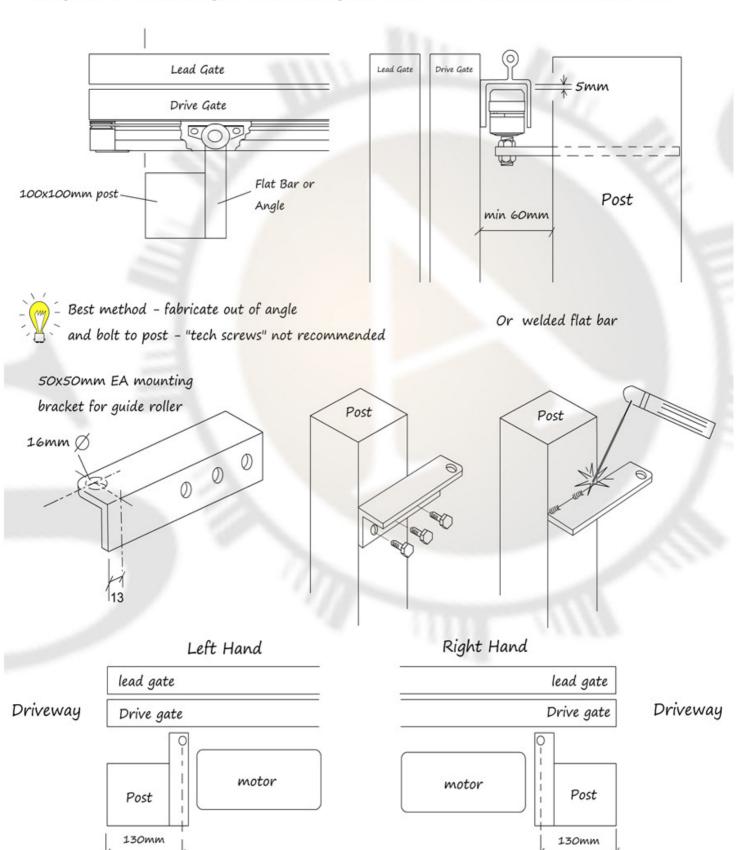




## Guide Roller Installation:

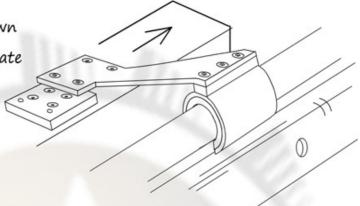


Fabricating and installing a bracket for the guide roller is exactly the same as a standard, single sliding gate - dependant on the final position of the guide post being sure to leave enough room for the guide channel and the automation drive rack



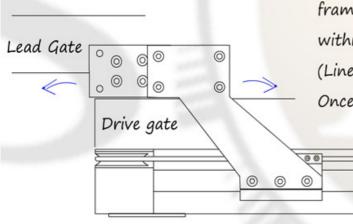
## Attaching Lead Gate - Setting armature:

With base plate still in offset position as shown slide armature toward the end of the lead gate

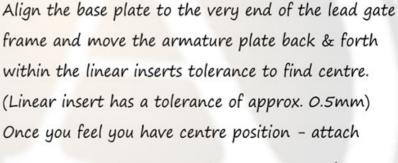


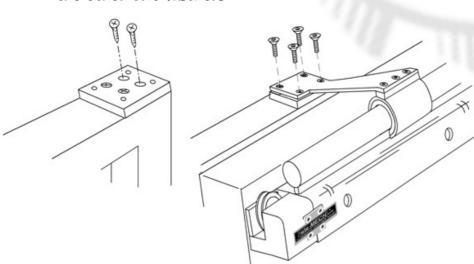


Gate frame and/or base plate may or may not be completely square to the guide channel and linear slide so this method is best to ensure freedom of movement.



Remove armature plate and install the other two fastners





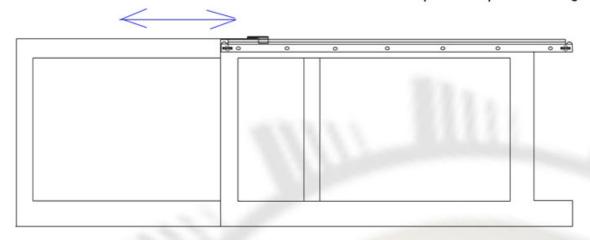
Screw armature plate down on to base plate (BY HAND) you may need to adjust this tension to allow for track levels

Less pressure - more tolerance More pressure - less tolerance

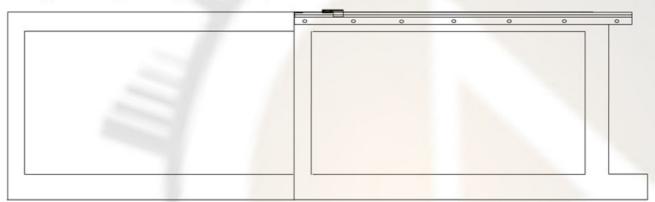
# Testing & Cable fixing:

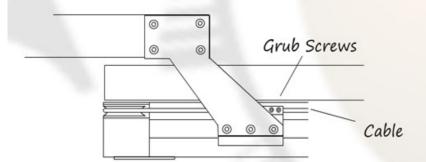


Move lead gate back & forth without fixing to cable, panel should move freely and smooth - if not - adjust the tension on armature plate suspension rings.



Close gates fully and tighten cable grub screws lightly





Test again by pushing from the front of the lead gate and back.

Also try pulling the drive gate and back.

Gates should move together, smoothly, without binding

Installation is now complete and ready for automation equipment Tighten grub screws tightly once automation limits have been set.

## Standard Kits:

All Armature kits are left or right hand dependant - LH = Left Hand- RH = Right Hand



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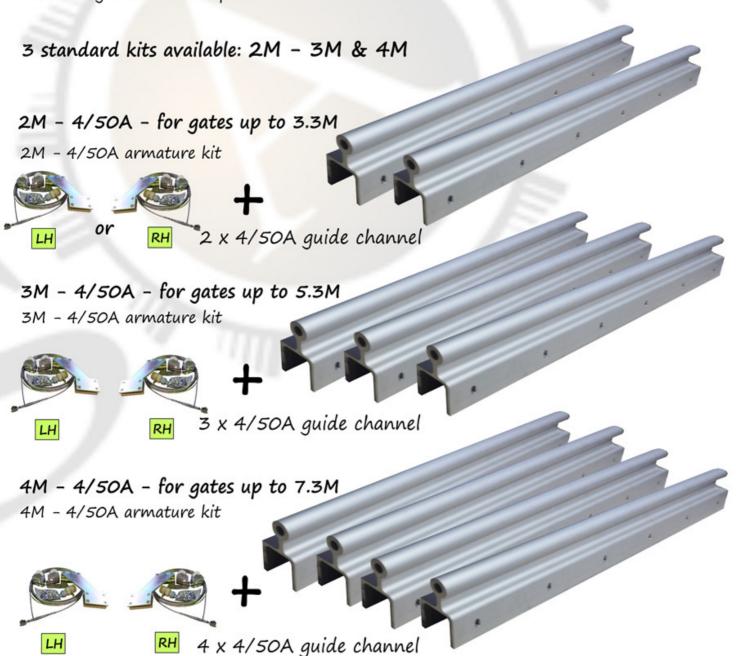




4/50A LH armature kit

4/50A RH armature kit

Guide channel - the same for both directions - standard 1M length in anodized aluminium \* Mill finish lengths available upon request for powder coating purposes to match gate colour if required



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Armature plate for external timber cladding and 75x75mm SHS gate frames

Track Centres with 4/50WC armature: with 50x75mm fames

