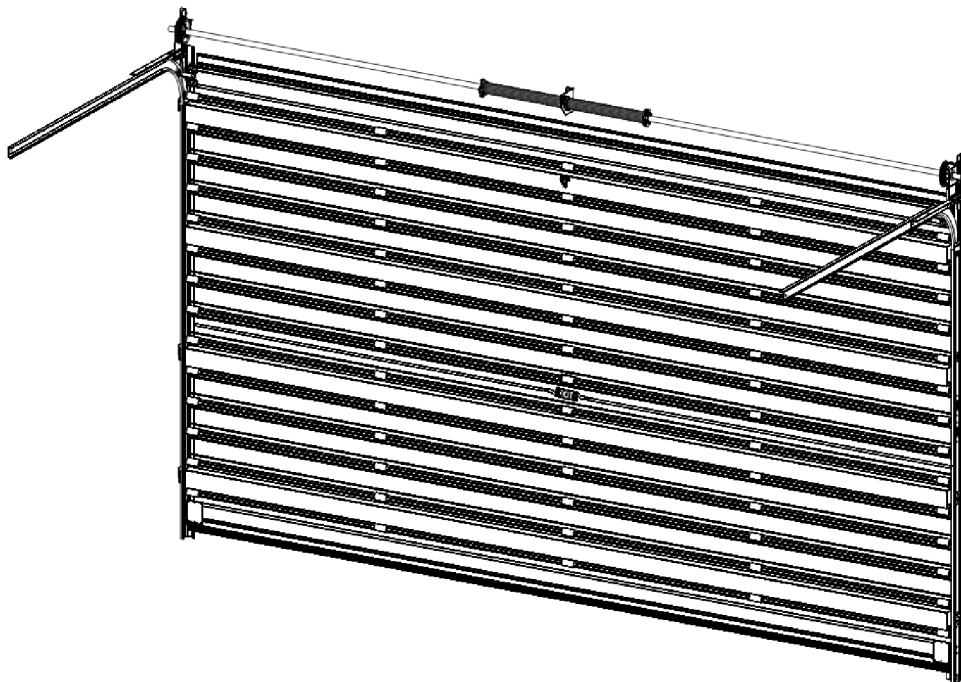
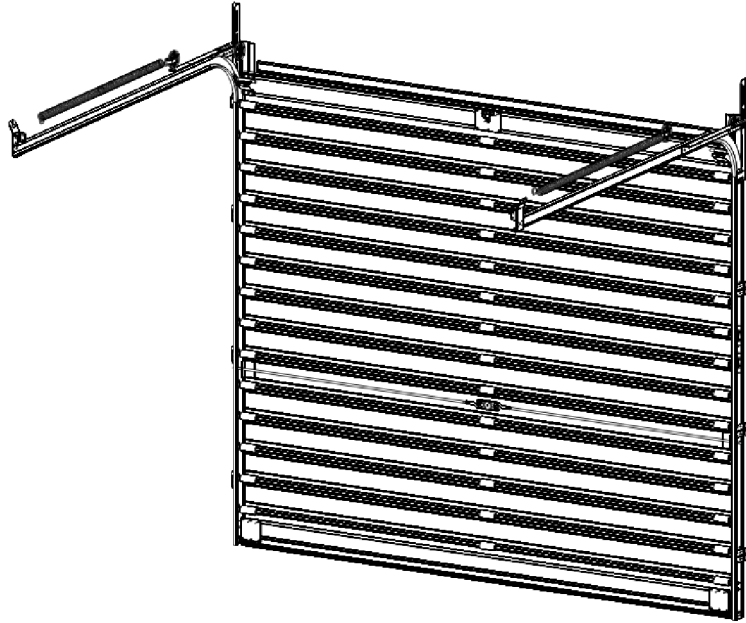




crealco

ALDOOR

## ALDOOR OVERHEAD GARAGE DOOR



## PRODUCT MANUAL

Disclaimer: The right to make alterations is reserved  
© 2013 Wispeco (Pty) Ltd, All Rights Reserved  
Revision: October 2013



# crealco

# ALDOOR

## Index

Legal Disclaimer	3
Profile Identification – Single Door	4
Hardware Kit Tension Spring System	5
Profile Identification – Double Door	6
Hardware Kit Torsion Spring System	7
Bolt Bag Hardware Identification	8
Head Room & Reveal	9
Side View of Mechanism Single and Double Door	10
Hardware Kit Single Door	11
Hardware Kit Double Door	12
Bottom Panel Assembly Single and Double Door	13
Top Panel Assembly Single Door	14
Tow Arm Bracket Attachment Double Door – Top Box Panel	15
Assembly Remaining Panels Single and Double Door	16
Assembly the Vertical Tracks Single and Double Door	17
Setting up Vertical Tracks & Bottom Panel Single and Double Door	18
Side Seal Holders Single and Double Door	19
Top Jambs Single and Double Door	20
Place Remaining Panels in Track Single and Double Door	21
Setting up Horizontal Tracks Single and Double Door	22
Align the Horizontal Tracks Single and Double Door	23
Tension Spring Assembly Single Door	24-25
Torsion Tube Assembly Double Door	26
Winding Up Torsion Springs Double Door	27

**This manual must be read in conjunction with the Installation, Cleaning and Maintenance Document, BEE Certificates and the Performance Certificates for the relevant system. The manual must also be used in conjunction with the design and cutting list from the latest version of StarFront.**

Disclaimer: The right to make alterations is reserved

© 2012 Wispeco (Pty) Ltd, All Rights Reserved

PAGE 2



# crealco

# ALDOOR

## LEGAL DISCLAIMER

All information, recommendations or advice contained in this documentation is given in good faith to the best of Wispeco's knowledge and is based on current procedures in effect.

Since the actual use of this documentation by the user is beyond the control of Wispeco, such use is within the exclusive responsibility of the user. Wispeco cannot be held responsible for any loss incurred through incorrect or faulty use of this documentation.

Great care has been taken to ensure that the information provided is correct. Wispeco will accept no responsibility for any errors and/or omissions, which may have inadvertently occurred.

All mechanical joints must be sealed with a Wispeco approved joint sealer.

Laminated glass must not stand in water.

All drawings in the Wispeco Documentation are shown NOT to scale.

Wispeco cannot accept responsibility for the use of standard products since Wispeco does not know where these products are being installed.

The use of anti-magnetic stainless steel screws and pop rivets is recommended to reduce galvanic corrosion in harsh environments.

The hardware recommended in this documentation is suitable for use in most atmospheric environments. When hardware is used in severe coastal environments the manufacturer of the hardware must be consulted.

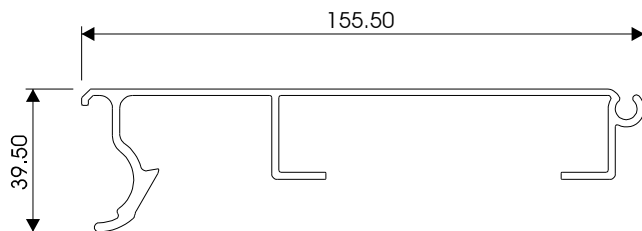
Fixing lugs on frames must be positioned as per the user manual and used in accordance to the AAAMSA specifications. When profiles are screwed together the screw centers must also be according to the user manual.

All glass used within Wispeco products must comply with SAGGA regulations.

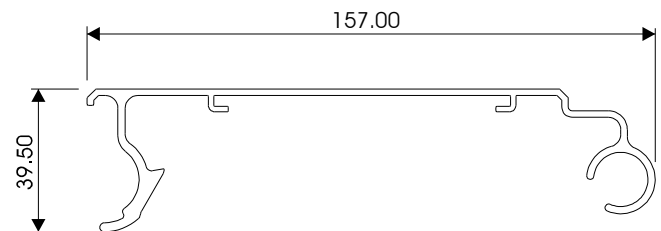
All glazing above 10m from ground level must be signed off by a competent person (Glazing) in accordance with the national building regulations

**By continuing to use this documentation you acknowledge that you understand and accept the legal disclaimer.**

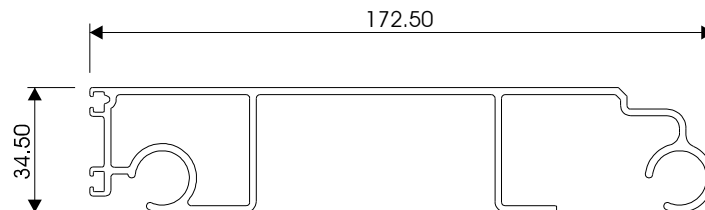
# ALDOOR OVERHEAD GARAGE DOOR PROFILE IDENTIFICATION SINGLE DOOR



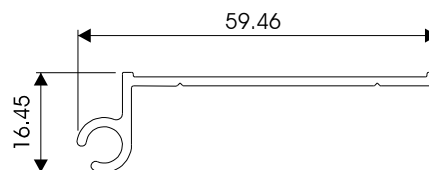
ALDOOR  
TOP PANEL  
1 at 2.5m  
W31813



ALDOOR  
STANDARD PANEL  
13 at 2.5m  
W31815



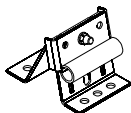
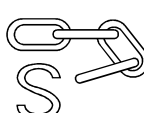
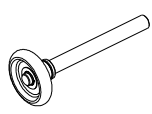

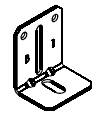

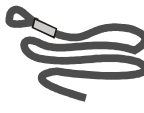


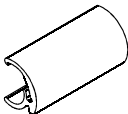
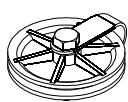
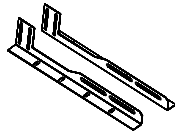
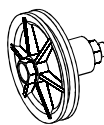

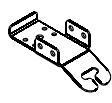
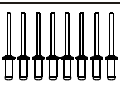
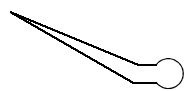
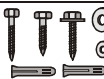
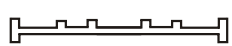

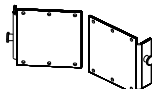

ALDOOR  
BOTTOM PANEL  
1 at 2.5m  
W55586



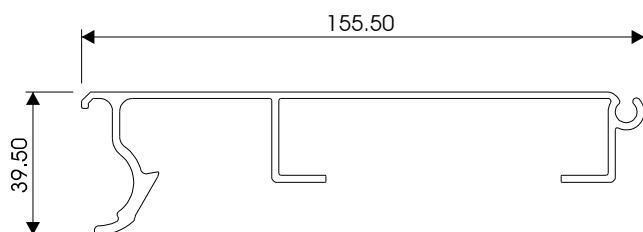
ALDOOR  
SIDE & TOP JAMB  
3 at 2.5m  
W32101

# ALDOOR OVERHEAD GARAGE DOOR HARDWARE KIT SINGLE DOOR-TENSION SPRING SYSTEM

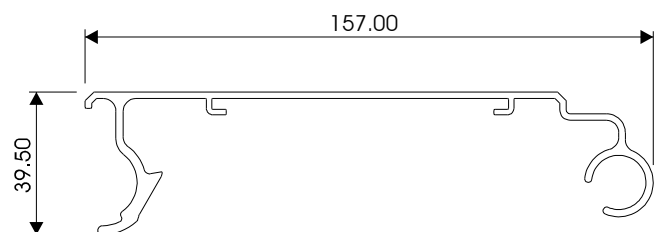
## ALDHWKITSGL

Item No.	Description Stock Code	Picture	Qty per Box	Item No.	Description Stock Code	Picture	Qty per Box
1	Top Roller Brkt - Single Door BRKTOP-1		2	12	Chain Hooks "S" and "W" Types		1
2	Nylon Roller 2" 11 Ball-Heavy (White) ROLLER-2N10		32	13	Aluminium Door Tow Arm Attach Bracket ALTOWBRKT		1
3	Vert Track Brkt - "L" No J1 BRKLJ01-VTRAK		4	14	Aluminium Door Roller Insert Kit LH 15/bag ALROLINSERTLHKIT		1
4	Lift Cable 3.2*3800 Tension Sp CABLE-L TENS213		1	15	Aluminium Door Roller Insert Kit RH 15/bag ALROLINSERTRHKIT		1
5	Sect Door Sfty Cable-Tension Sp CABLE-SFTYTENS		1	16	Aluminium Door Hinge Clip 42/bag ALHINGEKIT		1
6	3" Pulley-Plastic + Fork-Sprg PULLEY3P-SPRG		2	17	Aluminium Door Flag Bracket ALFLAGBRKT		1 (Pair- LH & RH)
7	3" Pulley-Plastic Track Mount for Wispeco AIDoor Pulley3P ALDTRAK		2	18	Track Fastener & Accessories Bag Complete Bag 4FKTRAK-01		1
8	Anchor Bracket-Spring Horizontal T Rack BRKANCHR-SPRG		2	19	Pop Rivet Kit 4.8mmx12mm 50/pkt 4FRP4812ASEL		1
9	Wispeco AIDoor Top Seal ALSEAL TOP		7.5 Meters	20	Wall Fastener Bag 4FKWALL-01		1
10	Wispeco AIDoor Bottom Seal ALSEALBOT		2.5 (Meters)	21	Manuals & Labels Installation Manual MANUAL-09AL		1
11	Aluminium Door Bottom Lifting Bracket ALBRKTBOT		2	22	Wispeco Silver Sticker ALSTICKER		1

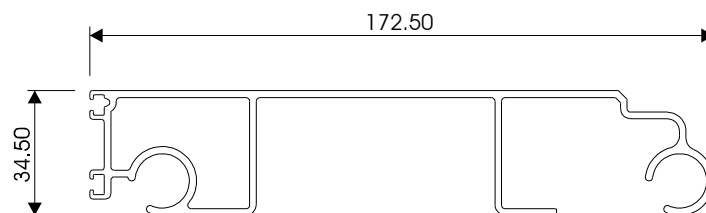
# ALDOOR OVERHEAD GARAGE DOOR PROFILE IDENTIFICATION DOUBLE DOOR



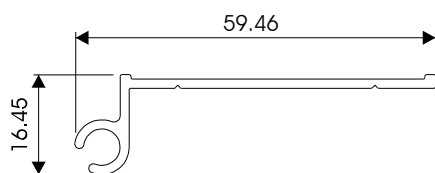
ALDOOR  
TOP PANEL  
1 at 4.94m  
W31813



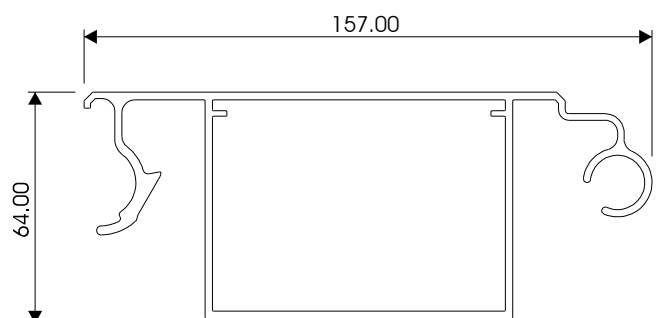
ALDOOR  
STANDARD PANEL  
6 at 4.94m  
W31815



ALDOOR  
BOTTOM PANEL  
1 at 4.94m  
W55586



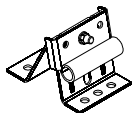

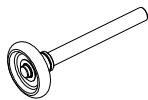

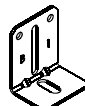
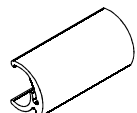

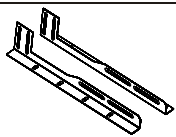
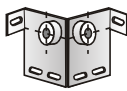


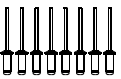
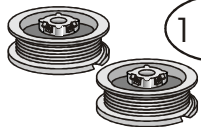
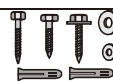
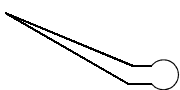



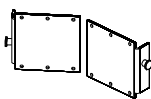
ALDOOR  
SIDE & TOP JAMB (BLACK)  
4 at 2.5m  
W32101



ALDOOR  
H/D PANEL  
7 at 4.94m  
W55593

# ALDOOR OVERHEAD GARAGE DOOR HARDWARE KIT DOUBLE DOOR-TORSION SPRING SYSTEM

## ALDHWKITDBL

Item No.	Description Stock Code	Picture	Qty per Box	Item No.	Description Stock Code	Picture	Qty per Box
1	Top Roller Brkt - Single Door BRKTOP-1		2	13	Aluminium Door Roller Insert Kit LH 15/bag ALROLINSERTLHKIT		1
2	Nylon Roller 2" 11 Ball-Heavy (White) ROLLER-2N10		32	14	Aluminium Door Roller Insert Kit RH 15/bag ALROLINSERTRHKIT		1
3	Vert Track Brkt - "L" No J1 BRKLJ01-VTRAK		4	15	Aluminium Door Hinge Clip 70/bag ALHINGEKIT-D		1
4	Lift Cable 3.2*3800 Tension Sp CABLE-L TORS213		1	16	Aluminium Door Flag Bracket ALFLAGBRKT		1 (Pair- LH &RH)
5	Side Bearing - EBF338 BRGSIDE 338-1		1 Pair	17	Track Fastener & Accessories Bag Complete Bag 4FKTRAK-02		1
6	Centre Bearing 338-11 Gauge BRGCNTR 338-1		1	18	Pop Rivet Kit 4.8mmx12mm 50/pkt 4FRP4812ASFL		1
7	Cable Drum - Standard Size: 400-8 DRUM408/ LHS&RHS - (Red & Black)		1 Pair	19	Wall Fastener Bag 4FKWALL-02		1
8	Wispeco AIDoor Top Seal ALSEAL TOP		10 Meters	20	Manuals & Labels Installation Manual MANUAL-09AL		1
9	Wispeco AIDoor Bottom Seal ALSEALBOT		5 Meters	21	Wispeco Silver Sticker ALSTICKER		1
10	Aluminium Door Bottom Lifting Bracket ALBRKTBOT		2				

ALDOOR  
OVERHEAD GARAGE DOOR  
BOLT BAG  
HARDWARE IDENTIFICATION

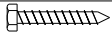
## Bag 4FKTRAK-01

	Qty	Description	Where Used
	8x	M8 x 16 Bolts	Pg 19
	8x	M8 Nuts	Pg 19
	16x	M5 Pan Head	Pg 11,13
	16x	M5 Nuts	Pg 11,13
	12x	M8 Washers	Pg 19
	4x	Plate	Pg 19
	8x	8x30mm Wood Screws	Pg 17
	2x	S-Hook	Pg 19
	2x	Chain	Pg 19

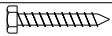
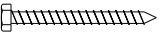

## Bag 4FKTRAK-02

	Qty	Description	Where Used
	2x	M8 x 40 Bolts	Pg 19
	8x	M8 x 16 Bolts	Pg 19
	10x	M5 Nuts	Pg 19
	16x	M8 Pan Head	Pg 11,13
	16x	M5 Nuts	Pg 11,13
	10x	M8 Washers	Pg 19
	10x	8x30mm Wood Screws	Pg 17

## Bag 4FKWALL-01

	Qty	Description	Where Used
	4x	8x60mm Wood Screws	Pg 14
	11x	8x90mm Wood Screws	Pg 13
	15x	8x50mm Plugs	Pg 13,14

## Bag 4FKWALL-02

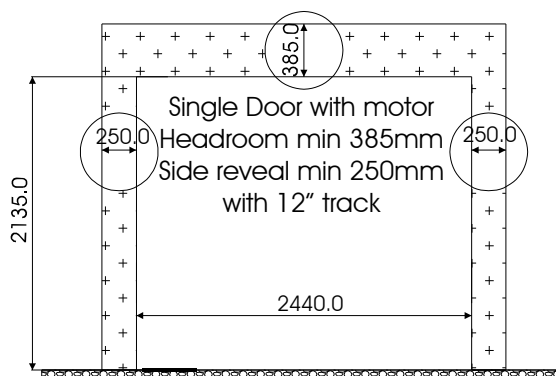
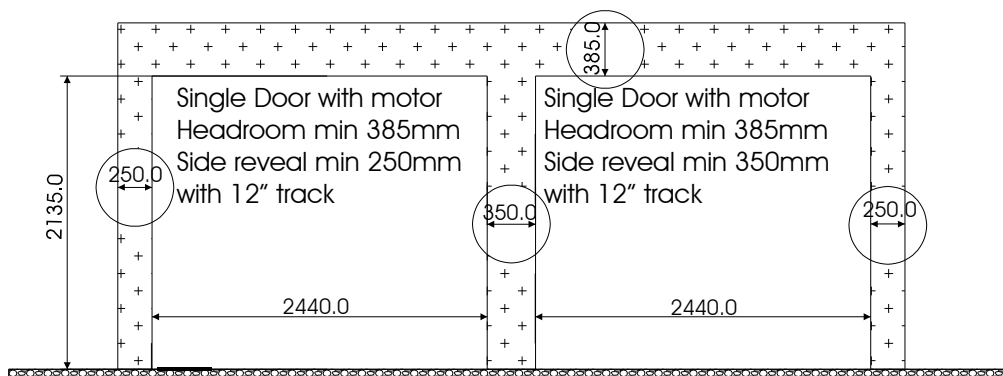
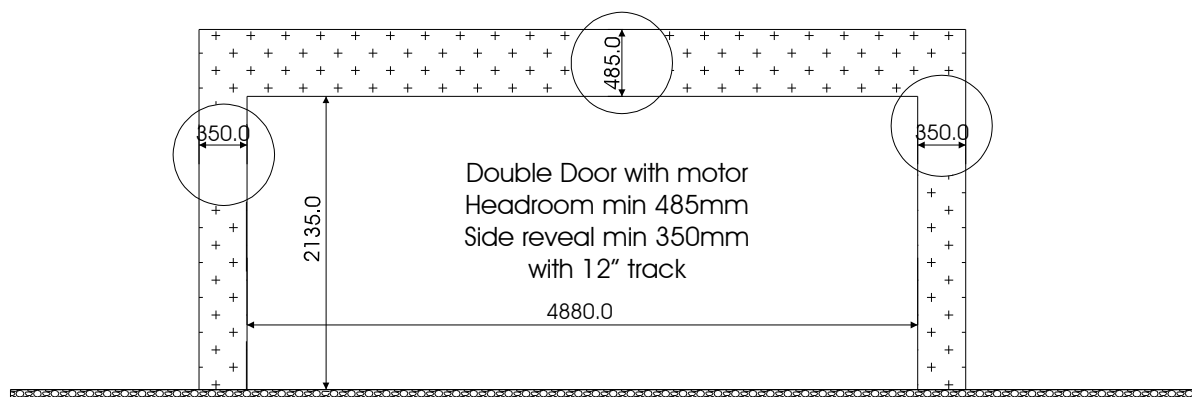
	Qty	Description	Where Used
	4x	8x60mm Wood Screws	Pg 14
	18x	8x90mm Wood Screws	Pg 13
	24x	8x50mm Plugs	Pg 13,14



# ALDOOR OVERHEAD GARAGE DOOR HEAD ROOM & REVEAL

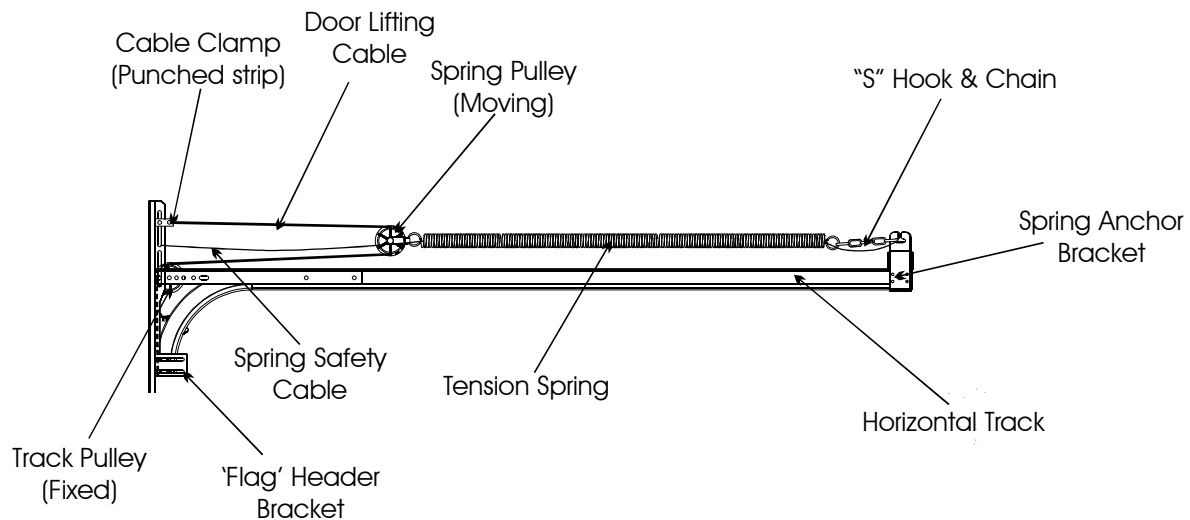
\* AS SEEN FROM INSIDE

**Conways**  
Est. 1946  
Aluminium Profile Stockists



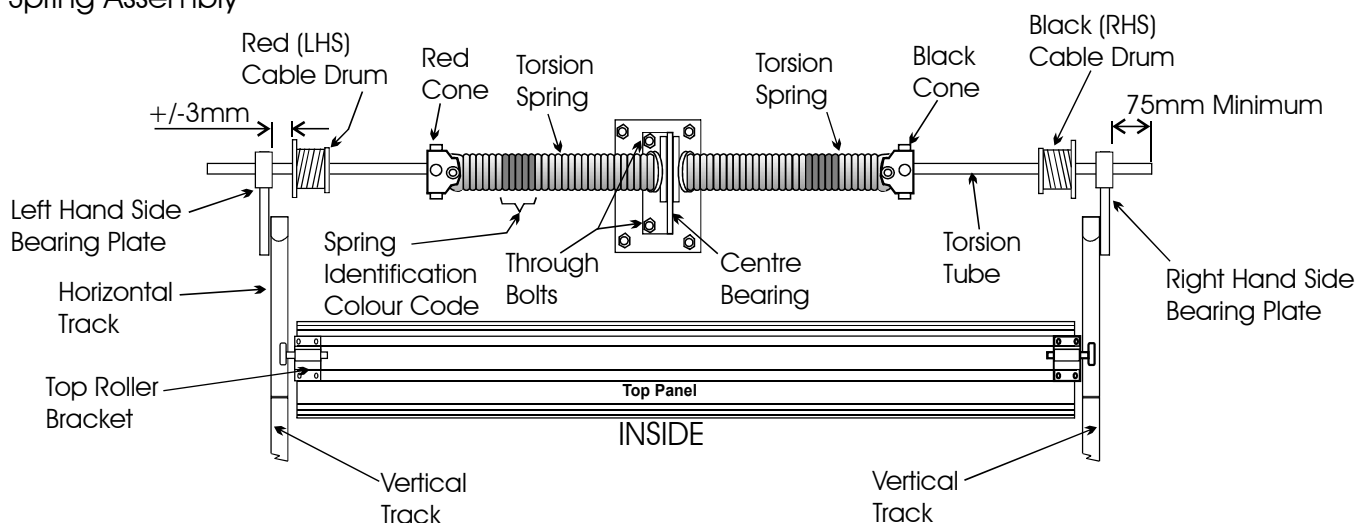
# ALDOOR OVERHEAD GARAGE DOOR SIDE VIEW OF MECHANISM SINGLE DOOR

Tension  
Spring Assembly

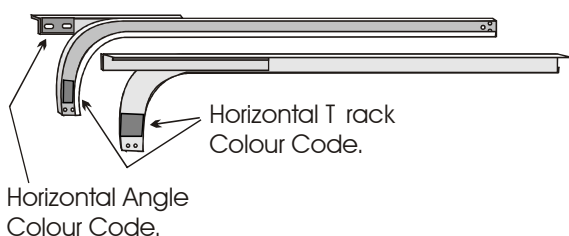
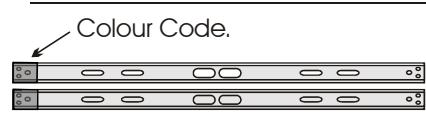
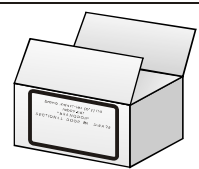
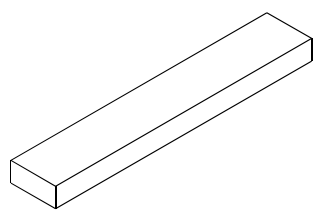
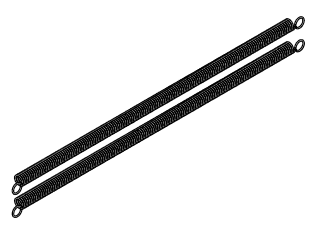


# ALDOOR OVERHEAD GARAGE DOOR SIDE VIEW OF MECHANISM DOUBLE DOOR

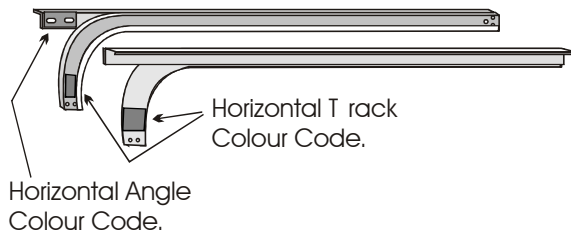
Tension  
Spring Assembly



# ALDOOR OVERHEAD GARAGE DOOR HARDWARE KIT ALDHWKITSGL SINGLE DOOR

	Description	Stock Code	Qty
	254 mm Radius Double Horizontal Track Assembly Colour Code	4 TRAKHZ10-240-S	Pair
	Vertical Track Colour Code	4 TRAKVT2035-045	Pair
	Hardware Box for Wispeco Single Size ALDoor. Tension Spring System	ALDHWKITSGL	1
One Profile Kit Single Door Top - 1 Jamb Seal - 2 Standard -13 Top Seal - 1 Bottom -1			
	3m length Timber	ALDTIMJAMBSGL	3
	65kg Tension Springs - RED	4 SPR065-213 TENS	2

# ALDOOR OVERHEAD GARAGE DOOR HARDWARE KIT ALDHWKITDBL DOUBLE DOOR



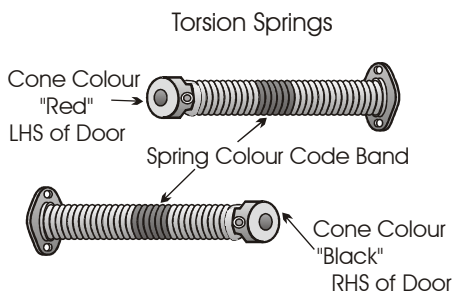
Description	Stock Code	Qty
254 mm Radius Double Horizontal Track Assembly Colour Code	4 TRAKHZ10-240-D	Pair



Vertical Track Colour Code	4 TRAKVT2035-045	Pair
-------------------------------	------------------	------



Hardware Box for Wispeco Double size ALDoor. Torsion Spring System	ALDHWKITDBL	1
--	-------------	---

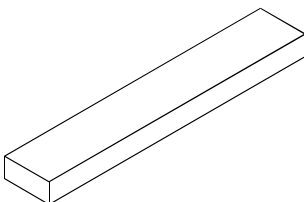


"RED" Cone - LHS of Door Spring Colour: ORANGE	4 SPR 060 - 213 LH	1
--	--------------------	---

"BLACK" Cone - RHS of Door Spring Colour: YELLOW	4 SPR 060 - 213 RH	1
--	--------------------	---



Torsion Tube Length: 5200 mm	4 TORSTUBE 5200-15	1
---------------------------------	--------------------	---

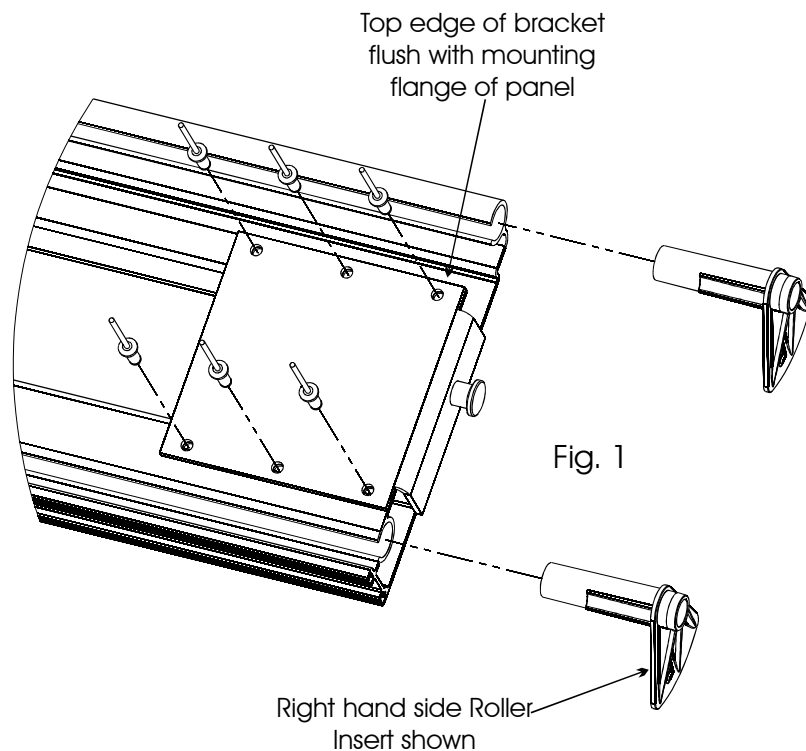


3m length Timber	ALDTIMJAMDBDL	1
3m length Timber	ALDTIMJAMBSGL	2

## One Profile Kit Single Door

Top - 1	Side Jamb Seal - 2
Standard - 6	Top Seal - 2
Bottom - 1	Box Panel - 7

# ALDOOR OVERHEAD GARAGE DOOR BOTTOM PANEL ASSEMBLY SINGLE AND DOUBLE DOOR



1. Attach the bottom corner lifting brackets to the panel as shown in Fig. 1. Position the bracket so that the side tab is against the door panel & the top edge of the bracket is flush with mounting flange. Using the holes in the bracket as guides, drill through the mounting flanges on the door panel and then attach the brackets with the supplied 4.8mm x 15mm 50/pkt rivets.
2. Slide the bottom seal into place.
3. Firmly push the roller insert into place as shown. The roller inserts are handed, and marked "L" for the left hand side & "R" for the right hand side of the door.
4. Note "R" and "L" is looked at the door from the inside.

# ALDOOR OVERHEAD GARAGE DOOR TOP PANEL ASSEMBLY SINGLE DOOR

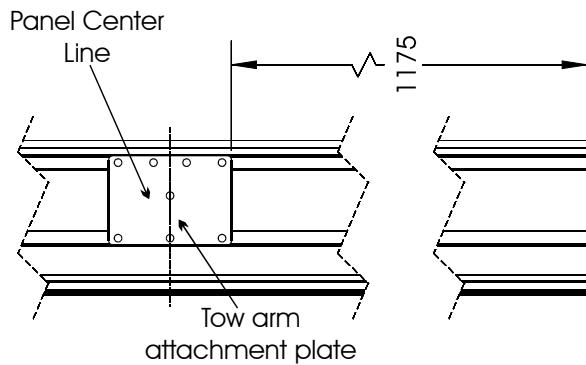


Fig. 2

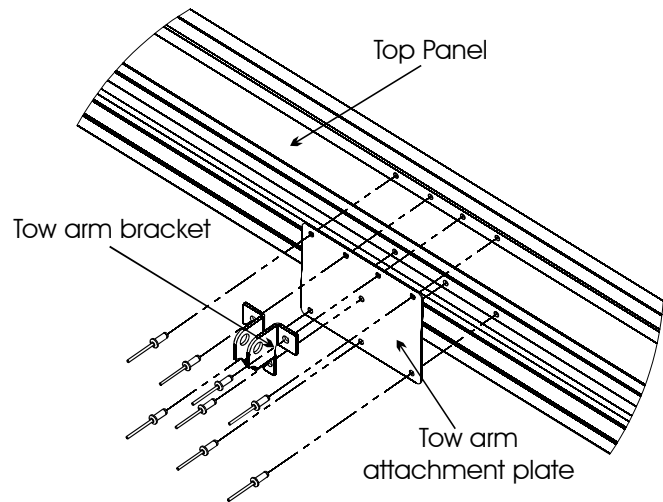


Fig. 3

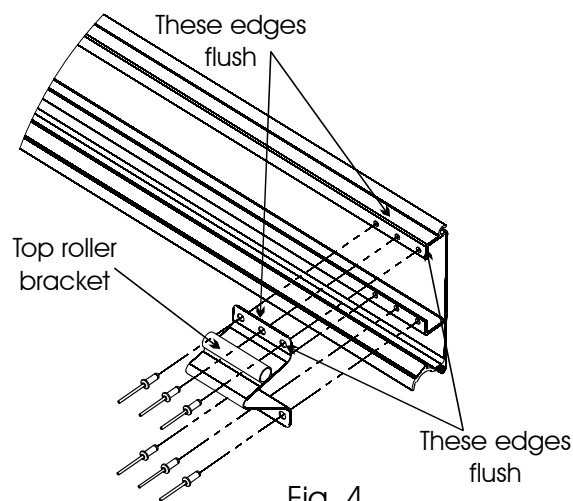


Fig. 4

- 1 Place the door tow arm bracket in place as shown in fig. 2. The top edge of the bracket must be flush with the top edge of the mounting flange on the panel.
- 2 Using the pre-drilled holes in the Tow arm attach plate, drill 6 xmm holes through the mounting flanges and rivet the bracket in place only through the 4 corner holes for now. (Fig. 3)
- 3 Place the tow arm bracket in place as shown in fig. 3. Rivet in place using the remaining holes.
- 4 Place the 2 top roller brackets in place, (Fig. 4) and drill through the pre-punched holes and rivet in place. The adjustable part of the bracket must be facing upwards.
- 5 Finally, slide the top seal into place.

# ALDOOR OVERHEAD GARAGE DOOR TOW ARM BRACKET ATTACHMENT DOUBLE DOOR - TOP BOX PANEL

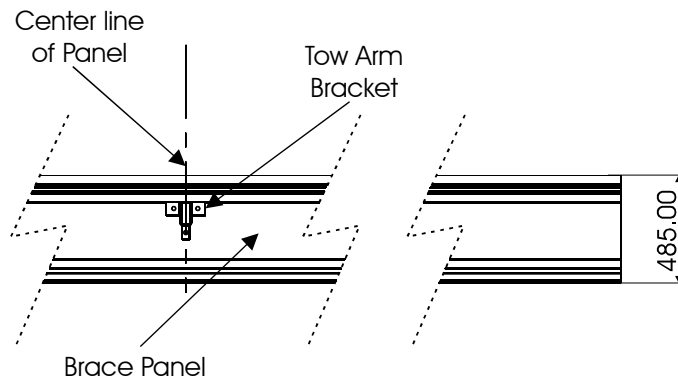


Fig. 5

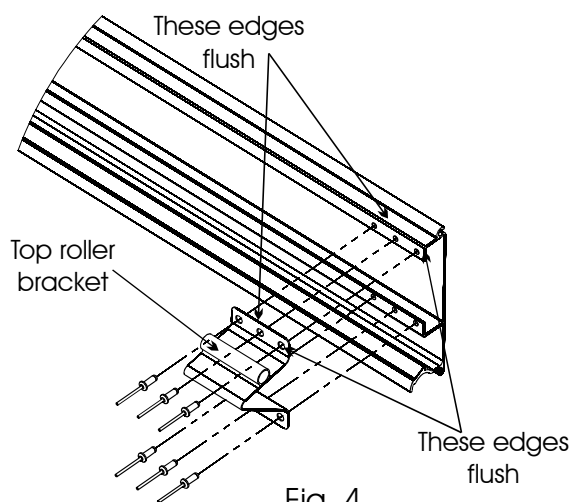


Fig. 4

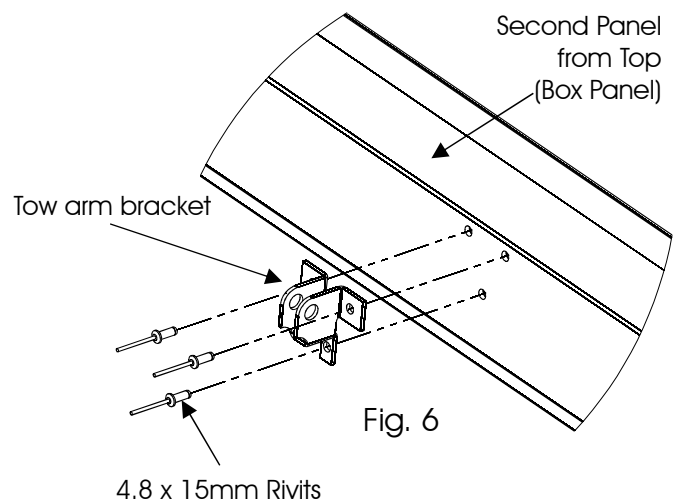
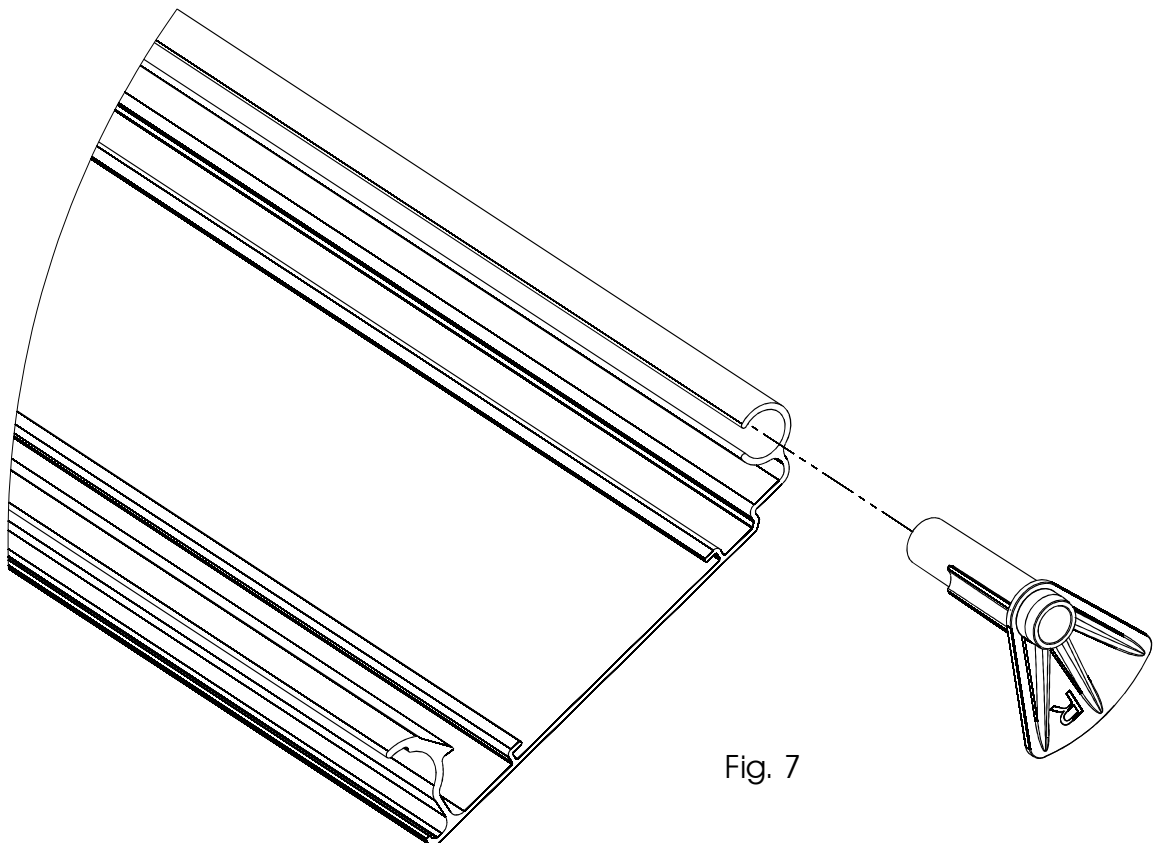


Fig. 6

- 1 Place the door tow arm bracket in place on one of the 4 brace panels on the center line of the panel, as shown in fig. 5. This panel will be installed second from the top.
- 2 Using the pre-drilled holes in the Tow arm attach bracket, drill 3 x 5mm holes through the mounting flanges and the panel.
- 3 Rivet the tow arm bracket in place using 3 x 4.8x15mm rivets. (fig. 6)

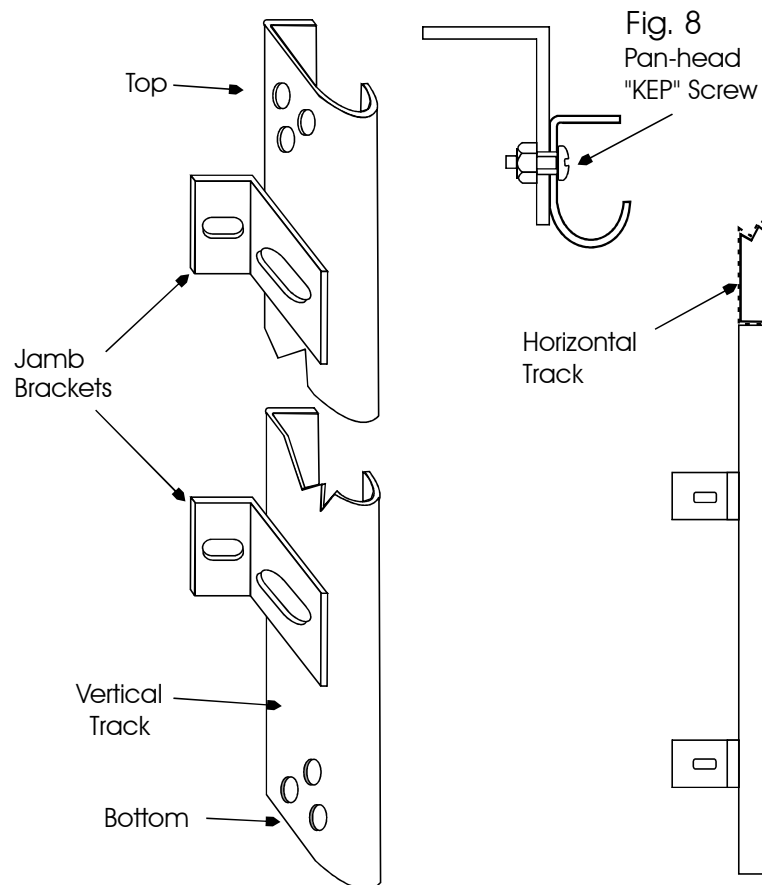
ALDOOR  
OVERHEAD GARAGE DOOR  
ASSEMBLE REMAINING PANELS  
SINGLE AND DOUBLE DOOR



All that remains to be done on the remaining panels is to push the roller inserts into place.(Fig. 7)  
Note that the bottom panel has 4 roller inserts.



# ALDOOR OVERHEAD GARAGE DOOR ASSEMBLE THE VERTICAL TRACKS SINGLE AND DOUBLE DOOR



Fit 2 jamb brackets to each vertical track using the supplied 5mm keep screws and nuts as shown in fig.8.

# ALDOOR OVERHEAD GARAGE DOOR SETTING UP VERTICAL TRACKS & BOTTOM PANEL SINGLE AND DOUBLE DOOR

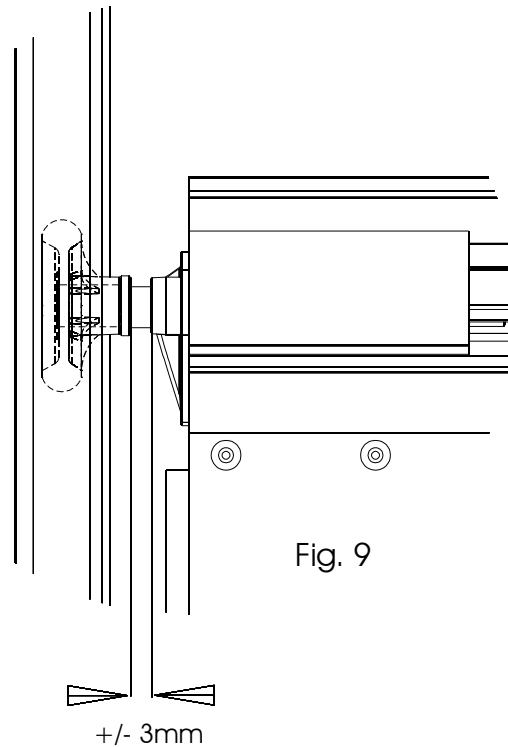
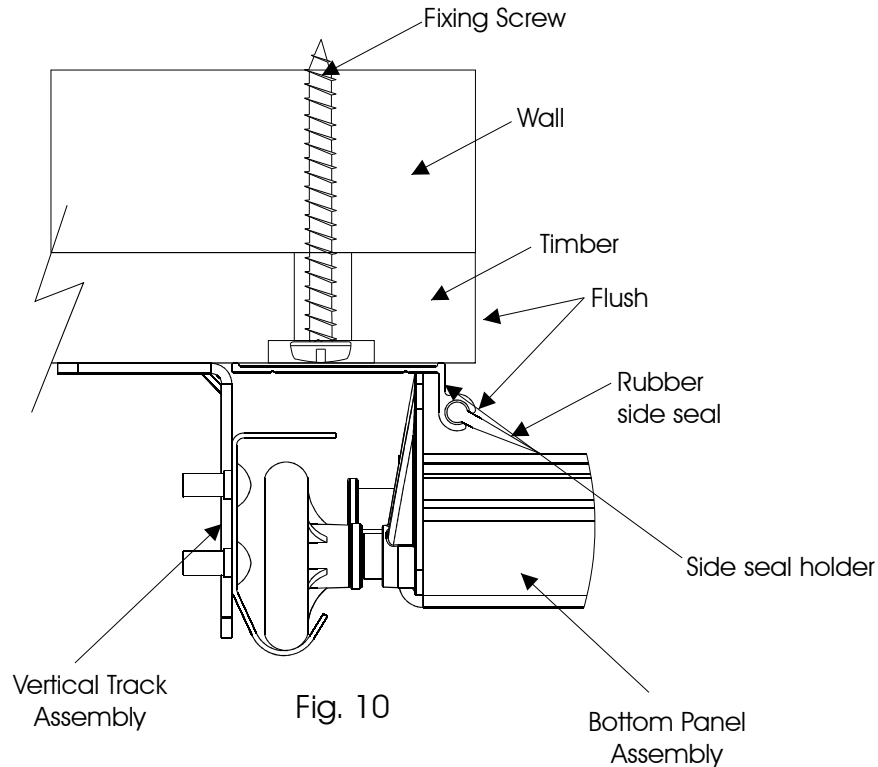


Fig. 9

- 1 Place 4 rollers into the assembled bottom panel & position it in the opening so that each edge overlaps the edge of the jamb equally on both sides.
- 2 With the rollers in position in the tracks, position each track assembly so that there is  $\pm 3\text{mm}$  between the roller and roller insert. (Fig.9)
- 3 Tighten the bolts holding the L-brackets and jambs.
- 4 Press the track forward until the "wing" of the roller inserts touches the jamb.
- 5 Use a spirit level to ensure that the track is vertical, & tighten the keep screws and bolts holding the tracks to the L-brackets.

# ALDOOR OVERHEAD GARAGE DOOR SIDE SEAL HOLDERS SINGLE AND DOUBLE DOOR



1. Position the side seal holders flush against the edge of the opening as shown in Fig. 10. The bottom edge of the seal holder should rest against the floor.
2. If needed, trim the top of each seal holder to length. The top of the seal holder should extend approximately 30mm above the top of the opening.
3. Attach the seal holder to the jamb using the supplied 8x90 lag screws.
4. Slide the rubber side seal into the seal holder as shown (Fig. 10), & trim of any excess.

ALDOOR  
OVERHEAD GARAGE DOOR  
TOP JAMBS  
SINGLE AND DOUBLE DOOR

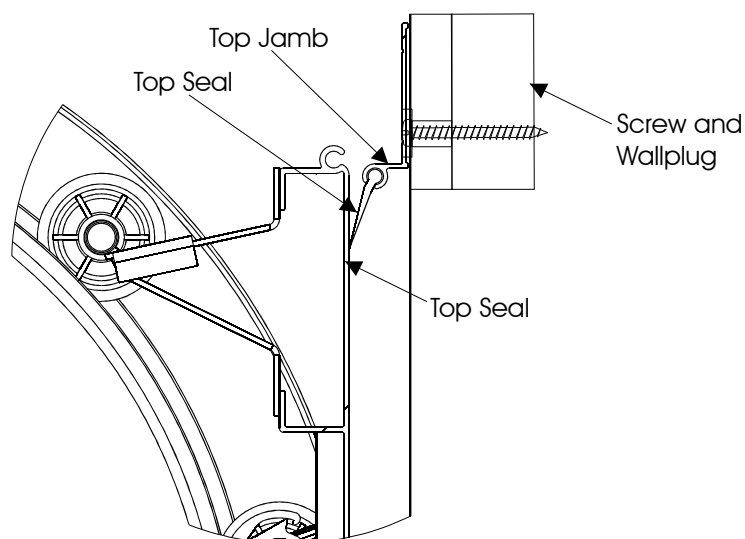


Fig. 11

1. Position the top Jamb against the top edge of the opening as shown in Fig. 11.  
If needed trim the aluminium so that it fits in between the 2 side jambs. Fix in place using 8x90 Lag screws.
2. Slide the top seal into place. The same rubber profile is used for both the side & top seals.

ALDOOR  
OVERHEAD GARAGE DOOR  
PLACE REMAINING PANELS IN TRACK  
SINGLE AND DOUBLE DOOR

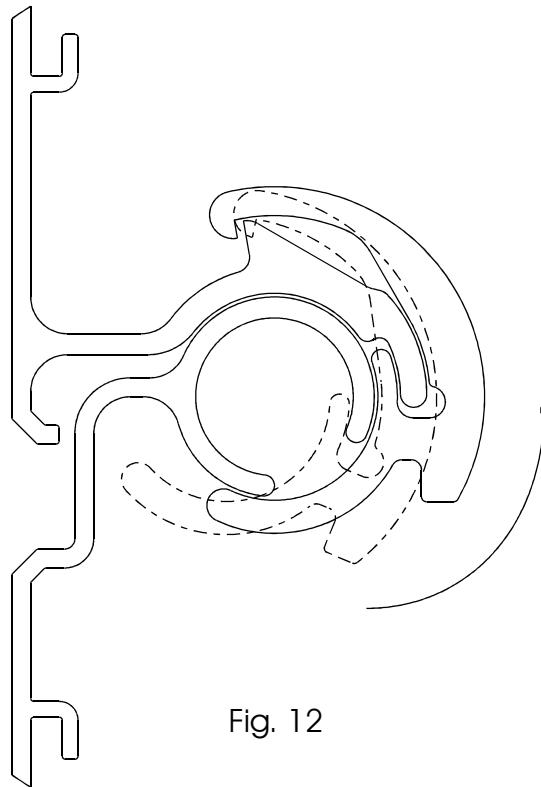
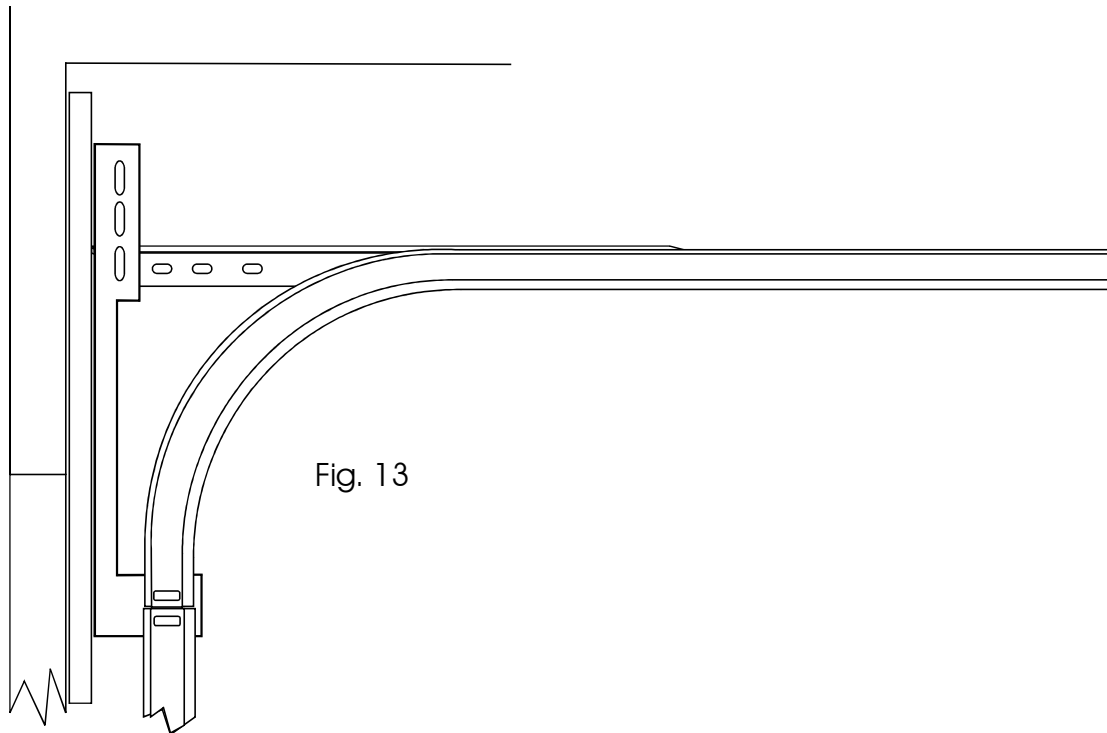


Fig. 12

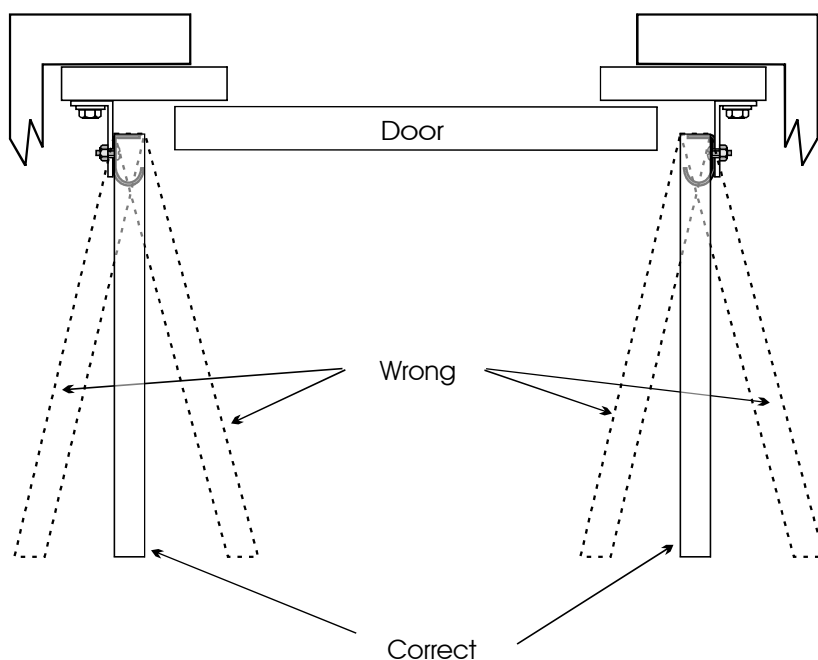
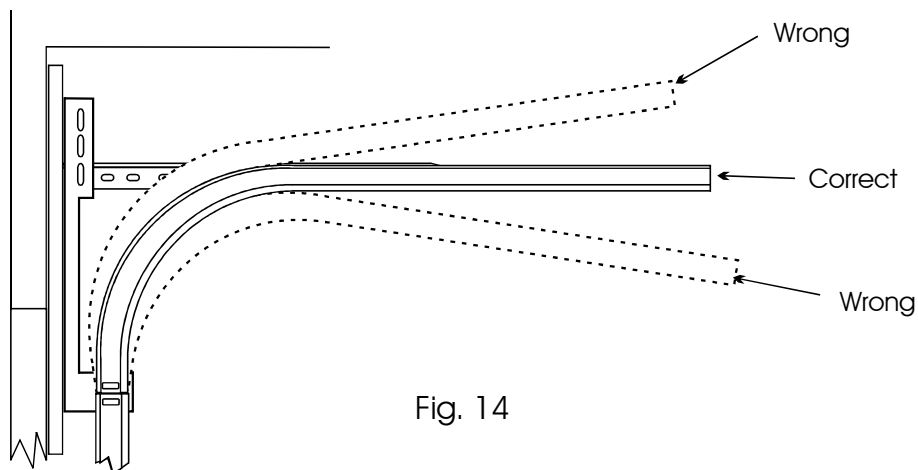
- 1 Insert rollers into each panel & slide them into place from the top of the vertical tracks making sure that the edges of all the panels are flush.
- 2 The lock panel should be the 6th panel from the floor.
- 3 Do not place the top panel in place yet.
- 4 For a Single Door, rotate the plastic hinge clips into place as shown in fig. 12.  
There are three clips per panel, 1 in the center and 2 at either end.(See the layout diagram on page 3)
- 5 For a Double Door, rotate the plastic hinge clips into place as shown in fig. 12.  
There are five clips per panel, 1 in the center and 2 at either end.(See the layout diagram on page 3)

# ALDOOR OVERHEAD GARAGE DOOR SETTING UP HORIZONTAL TRACKS SINGLE AND DOUBLE DOOR



- 1 While supporting the rear of the horizontal track, place the track in position as shown in fig. 13.  
Fix the curved section to the lower part of the flag bracket.
- 2 Attach the horizontal track angle to the top part of the flag bracket as shown.

ALDOOR  
OVERHEAD GARAGE DOOR  
ALIGN THE HORIZONTAL TRACKS  
SINGLE AND DOUBLE DOOR



- 1 The tracks must be the same height from the floor and parallel to each other.(Fig. 14)
- 2 The tracks must not converge towards one another or diverge away from each other. (Fig. 14)
- 3 Support the rear of the tracks with wall brackets

# ALDOOR OVERHEAD GARAGE DOOR TENSION SPRING ASSEMBLY SINGLE DOOR

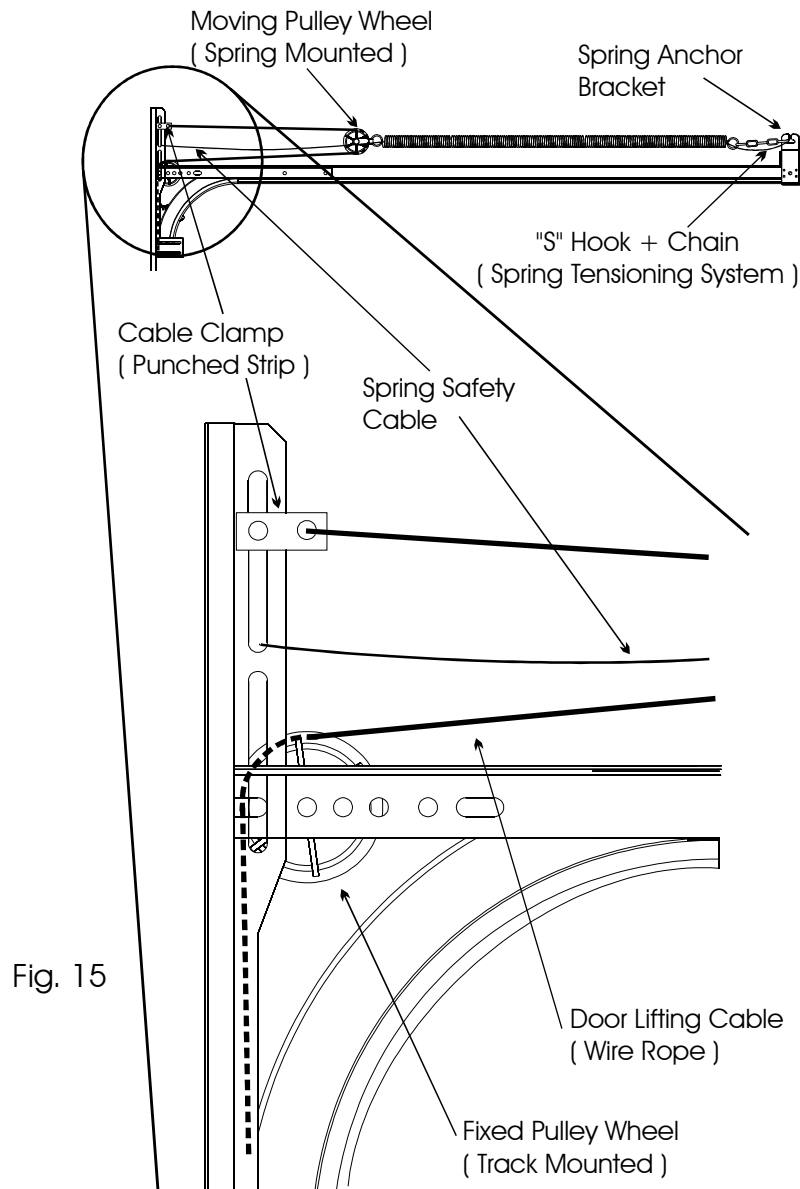


Fig. 15

Warning ! Warning ! Warning !

Exercise extreme caution when working with garage door springs.

There is a great deal of energy stored in the spring when it is under tension.

- 1 Assemble the pulley with the fork to one end of each spring.
- 2 Attach the spring anchor bracket to the horizontal tracks as shown.
- 3 Hook one end of each chain onto the spring anchor brackets.
- 4 Bolt the fixed pulley to the horizontal track as shown.
- 5 Fit the pre-formed loop on one end of the lifting cable to the pin on the bottom lifting brackets.
- 6 Guide the lifting cable up the side of the door (making sure that the cable runs between the edge of the door and the "wings" of the roller inserts), over the fixed track mounted pulley and through the moving spring mounted pulley as shown.



# ALDOOR OVERHEAD GARAGE DOOR TENSION SPRING ASSEMBLY SINGLE DOOR

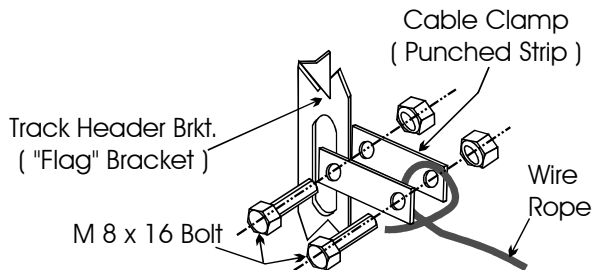


Fig. 16

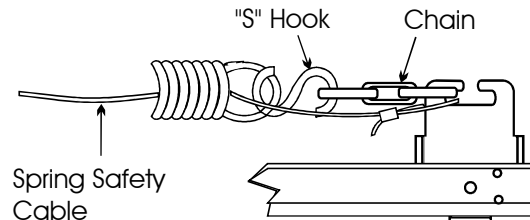


Fig. 17

- 7 Clamp the loose end of the lifting cable to the flag bracket using clamping plates as shown in Fig. 16.
- 8 Before the spring can be hooked to the spring anchor bracket the door must be lifted into the open position. When the door is fully open, secure it in place with a "G" clamp firmly attached to the track & under the bottom panel.
- 9 Pass the safety cable through the center of the spring and fix one end to the flag bracket and the other end to the spring anchor bracket.  
Note: It is important that the safety cable is slack. It's purpose is to contain the spring in the event that it breaks while under tension.  
If the safety cable is not slack, it may also break if the spring fails.
- 10 Attach the spring to the chain using the "S" hook. (Fig. 17) The tension of the spring can now be adjusted by changing the length of the chain.

Caution ! Caution ! Caution !

Before lifting the garage door, check and re-check the following:-

- 1) All fasteners are secure, especially those that secure the jambs to the wall and the track fasteners.
- 2) Pay particular attention to Track Hanger Brackets and Spring Anchor brackets.
- 3) Make sure the Door Lifting Cables and the Safety Cables are secure.

Warning!

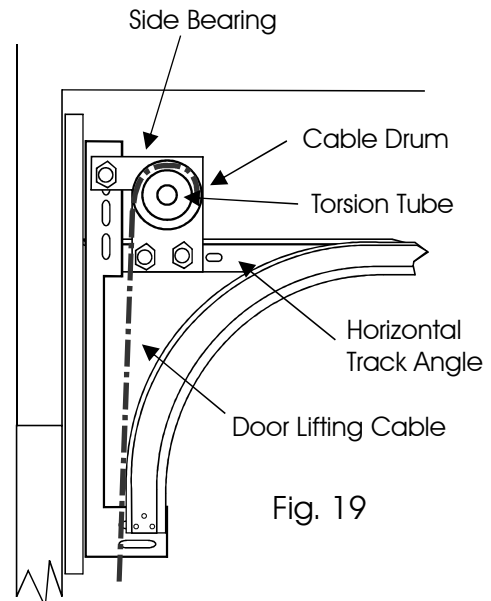
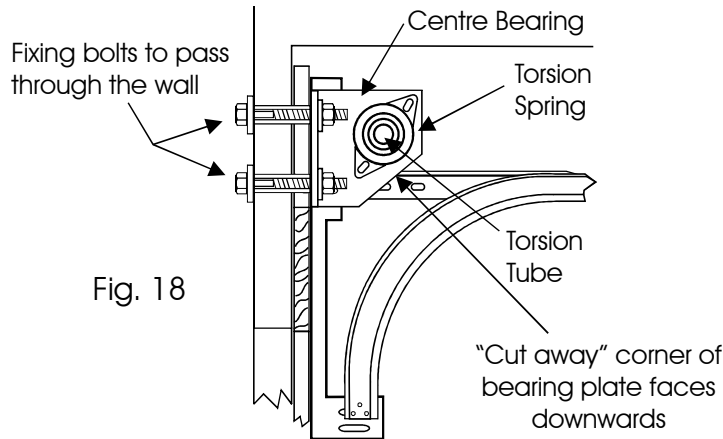
TENSION SPRINGS

Do not attempt to adjust the spring tension whilst the door is in the "closed" position!!!

When the door is closed, the spring is under maximum tension!!!

Raise the door before making any adjustments to the springs!!!

# ALDOOR OVERHEAD GARAGE DOOR TORSION TUBE ASSEMBLY DOUBLE DOOR

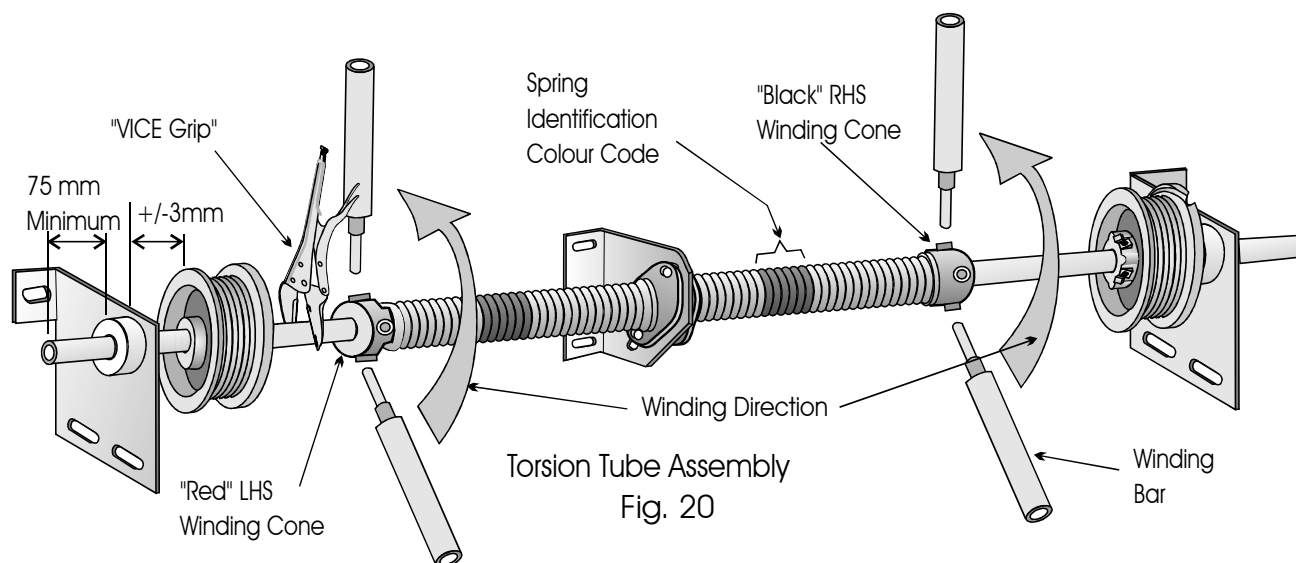


1. Assemble the torsion tube on the floor.
  2. Slide the center bearing onto the tube up to the middle point.
  3. Slide the torsion springs onto the tube with the stationary cones towards the center bearing.
  4. Slide the two cable drums onto the tube with the Red drum to the left hand side and the Black drum to the right hand side of the center bearing.
  5. Slide the two side bearings onto the tube.
- NOTE:
1. The Red winding cone is on the left hand side of the center bearing and the Black one to the right hand side.
  2. The side bearings are left and right handed.
  3. Do not fix anything in place yet.
6. Lift the whole assembly into place.
  7. Bolt the side bearings to the horizontal track angles as shown. (Fig 19).
  8. Position the Center bearing over the packing block.
  9. Level the torsion tube and mark the positions of the fixing bolts for the center bearing.
  10. Drill 10mm holes through the wall and anchor the center bearing with long bolts.
  11. Be sure to allow the torsion tube to extend at least 75 mm beyond the side bearings at each end.(Fig. 17)
  12. Attach the door lifting cables to the cable drums.
  13. Start with the left hand side drum:  
Position the cable drum +/-20mm from the side bearing and fasten it to the torsion tube using the square headed screws provided on the drum.
  14. Be sure to allow the torsion tube to extend at least 75 mm beyond the side bearings at each end.
  15. Start with the left hand side drum:  
Position the cable drum +/-20mm from the side bearing and fasten it to the torsion tube using the square headed screws provided on the drum.
  16. Rotate the torsion tube to take up the slack in the lifting cable. Use a pair of Vice grips to prevent the torsion tube from turning. (Fig 17)
  17. Right hand side drum:  
Position the cable drum +/-20mm from its side bearing. Rotate the drum to take up the slack in the lifting cable. Fasten the drum to the torsion tube (Fig 19)

## TAKE NOTE:

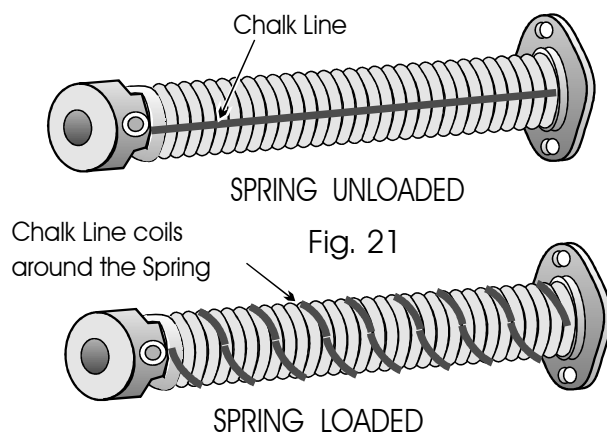
It is very important to make sure that the lifting cables are of the same length and that both have an equal amount of tension in them when the drums are fixed to the torsion tube.

# ALDOOR OVERHEAD GARAGE DOOR WINDING UP TORSION SPRINGS DOUBLE DOOR



**CAUTION! CAUTION! CAUTION!**

Take great care when winding the springs!  
Use only the correct type and size Winding Bars !  
Two bars are required !  
Do not use Screw Drivers or other ill-fitting bars !  
Never stand directly behind or below the bars when winding the springs !  
Never !, Never !, Never ! .... Apply more turns to the spring than the manufacturer stipulates on the Spring Information Card.



1. Before winding up the springs, make absolutely certain that all bearing plates are secure, especially the center bearing.

NB The stored energy in the springs is great, and very serious injuries may be sustained if incorrect procedures or inferior tools are used!  
Only use the proper winding bars to wind the springs!  
A strong and stable ladder must be used!

2. It is recommended that the springs are given an initial wind and then unwound to allow the springs to settle in. The manufacturers spring information card should state the number of turns to be wound onto the spring.
3. Draw a straight chalk line along the length of the spring. (Fig 21) This will assist in counting the number of turns being applied.
4. Lubricate the spring.