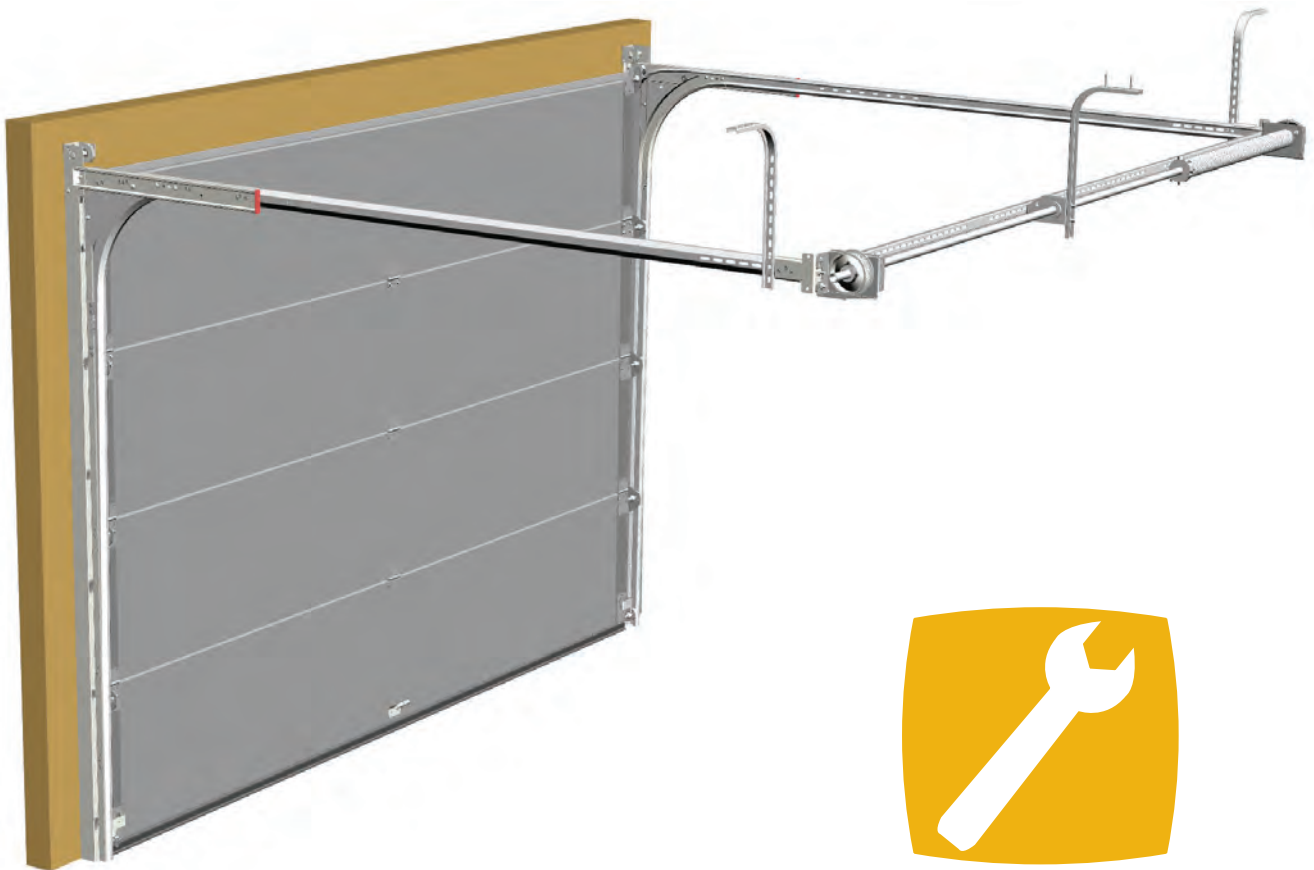


Garage[™]
DOOR SYSTEMS



Ribbed Design
Insulated Sectional Garage Door
Installation Instructions
For residential single and double size doors
Including EZ-70 track version









WARNING! DANGER!

The door will be under constant spring tension. Adjustments and repairs must be performed by a qualified door service company.

Failure to comply with these instructions invalidates the warranty.

Before you begin the fitting of the door, read and understand all of the instructions thoroughly.

BEFORE YOU START

- Check the opening dimensions before removing any packaging or removing an existing door! 
- The finished garage door opening must be the same size as the door. 
- Be certain the required clearances are available:
70mm sideroom
165mm headroom (manual doors)
140mm headroom (automated doors)
2896mm backroom 
- The jambs must be plumb and the header level for a square opening. Small irregularities in the brickwork are acceptable as long as they do not interfere with proper fitting of the door tracks. 
- The surface where the door is to be fitted must be strong enough to support the door. 
- The door should be fitted only after any plastering of the area has been completed. Plaster splashes may damage the door and seals and interfere with proper operation of the door along the tracks. 

WHO SHOULD INSTALL THIS DOOR?

We recommend that fitting and/or repair of garage doors be performed by a qualified, factory trained garage door specialist.

We recommend that a team of two individuals perform the installation.



GENERAL NOTES

Both one and two-car doors are installed in the same manner. Door widths up to 10' do not require horizontal reinforcing struts unless purchased for reinforcing door for electric operator.

The number of door sections may vary from illustrations.

Be sure all warning labels and tags are properly affixed to the door and that the home owner Information is left with the purchaser.

ELECTRIC OPENERS

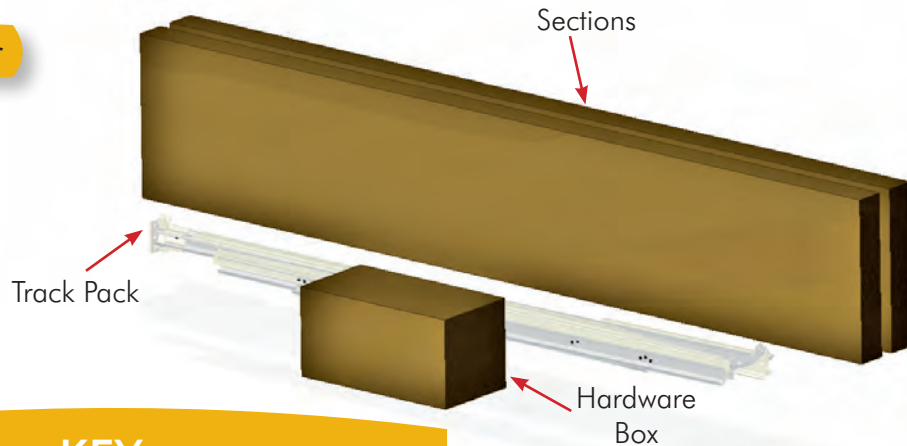
For electric operation, the top section of all doors must be reinforced. See the appendix section of these instructions for details.

Disconnect and remove all locks and pull ropes when you install an electric opener.

Damage to the garage door due to an improperly installed or adjusted electric opener is not covered by Garage Door System's warranty.

THE PARTS LIST

The packed door

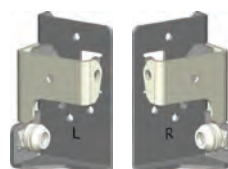
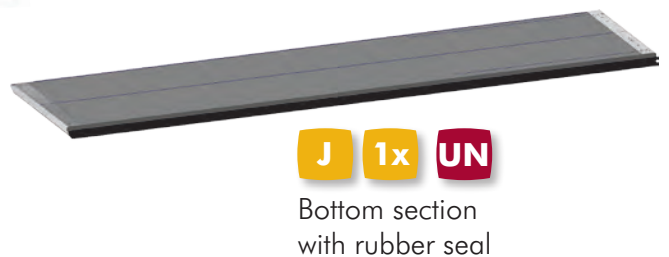
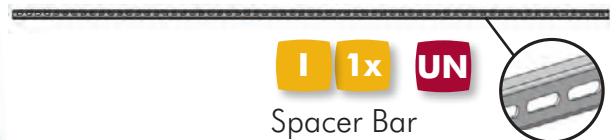
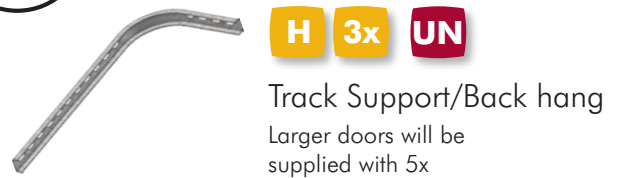
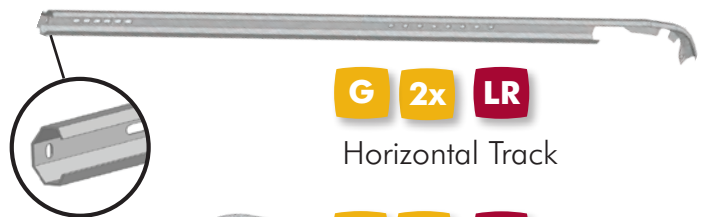


KEY

Parts are handed (to fit on the left or right side of the door) or unhandled (fitting to either left or right side of the door). Any reference to handing - left or right assumes you are viewing the door from the inside. Items are not shown to scale for clarity.

UN Universal (unhanded)

LR Handed - marked with L (left) or R (Right)



THE PARTS LIST



Short Shaft Nylon Roller

L **8x** 4 section doors **UN**
10x 5 section doors



M **1x** **UN**
 Lift Handle



N **UN**
 Hinge

Hinge table			
Door width (up to)	10'	14'	18'
Number of Sections	4	9	12
	5	12	16
		15	20



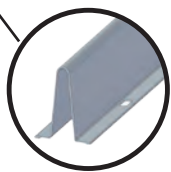
O **6x** **LR**
 Adjustable roller carrier
 5 section doors will have 4x



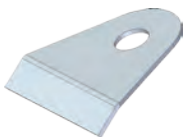
P **2x** **UN**
 Lifting Cable



Q **3x** **UN**
 Sections
 5 section high doors will have 4x sections



R **1x** **UN**
 Stiffener Strut
 Doors under 12'0" wide are not supplied with a stiffener strut. Doors over 12'0" have 1 stiffener that fits to the upper edge of the top section.



RR **4** **UN**
 Strut Clip
 5 section doors will have 5x



S **2x** **LR**
 Track Radius



T **2x** **UN**
 Radius Cover Plate



U **2x** **LR**
 Top roller bracket and Roller



V **1x** **LR**
 Torsion Spring
 Larger doors will have 2x



W **1x** **UN**
 Torsion Tube Support



X **2x** **LR**
 Spring Bearing Plate



Y **1x** **LR**
 Cable drum (Left/Black)



Z **1x** **LR**
 Cable drum (Right/Red)



AA **1x** **UN**
 Torsion Tube



XX **2x** **UN**
 Horizontal Track Plug



YY **10x** **UN**
 Vertical track plug

SAFETY EQUIPMENT

Goggles
Safety Shoes
Gloves



TOOLS REQUIRED FOR INSTALLATION



Claw Hammer



Spirit Level



Screw Drivers Slotted



Utility knife



Curved Jaw Vice Grips



Hammer Drill



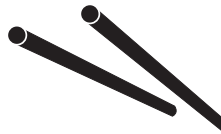
Drill bit 10mm SDS



Saw Horses



Pliers



2(1/2" x 14") winding bars



Socket Wrench



8mm, 10mm, 11mm, 12mm,
15mm and 19mm
spanners/sockets



Quick clamps (350mm minimum)



Step Ladder

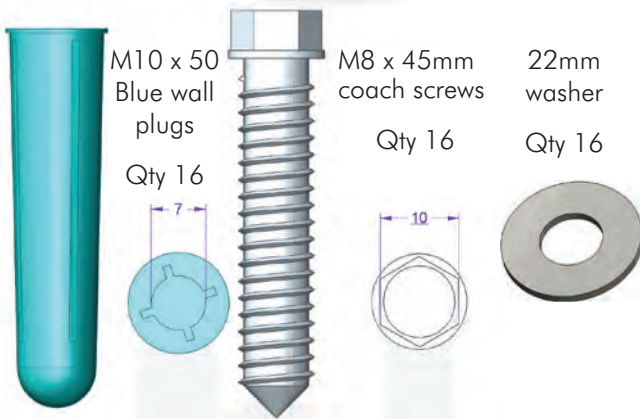
FIXINGS LIST



The number of fixings supplied is dependent on the size of the door being installed. A minimum of 10 will be supplied. All doors will have Bag G-16, L-65, L-66 and L-75.

Bags L-41, L-52 and L-53 are used in different combinations to supply sufficient fixing for your door size. Fixings may be supplied in excess of the minimum number required.

Bag G-16



Bag L-41 Qty 60

Bag L-52 Qty 20

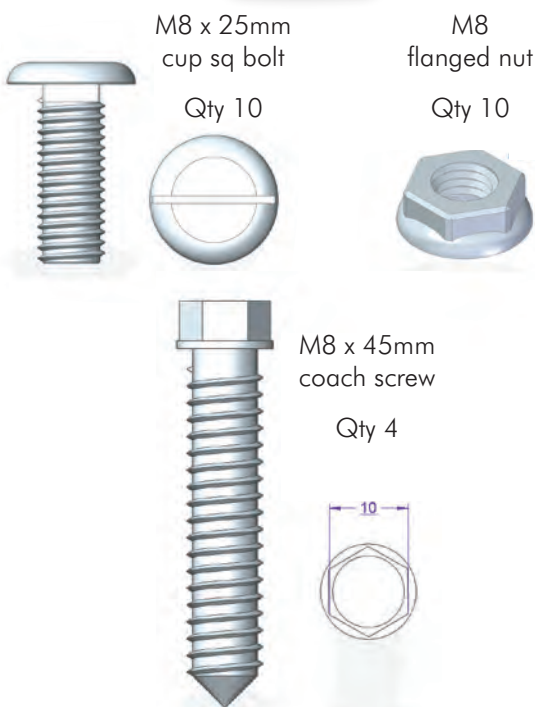
Bag L-53 Qty 36



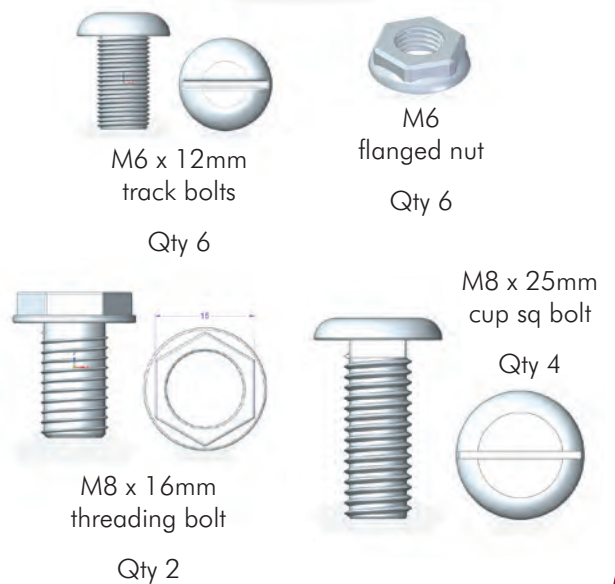
Fixings table

Door width (up to)	10'	14'	18'	
	Qty	Qty	Qty	
Number of Sections 4	70	84	98	
5	88	106	124	

Bag L-65



Bag L-75



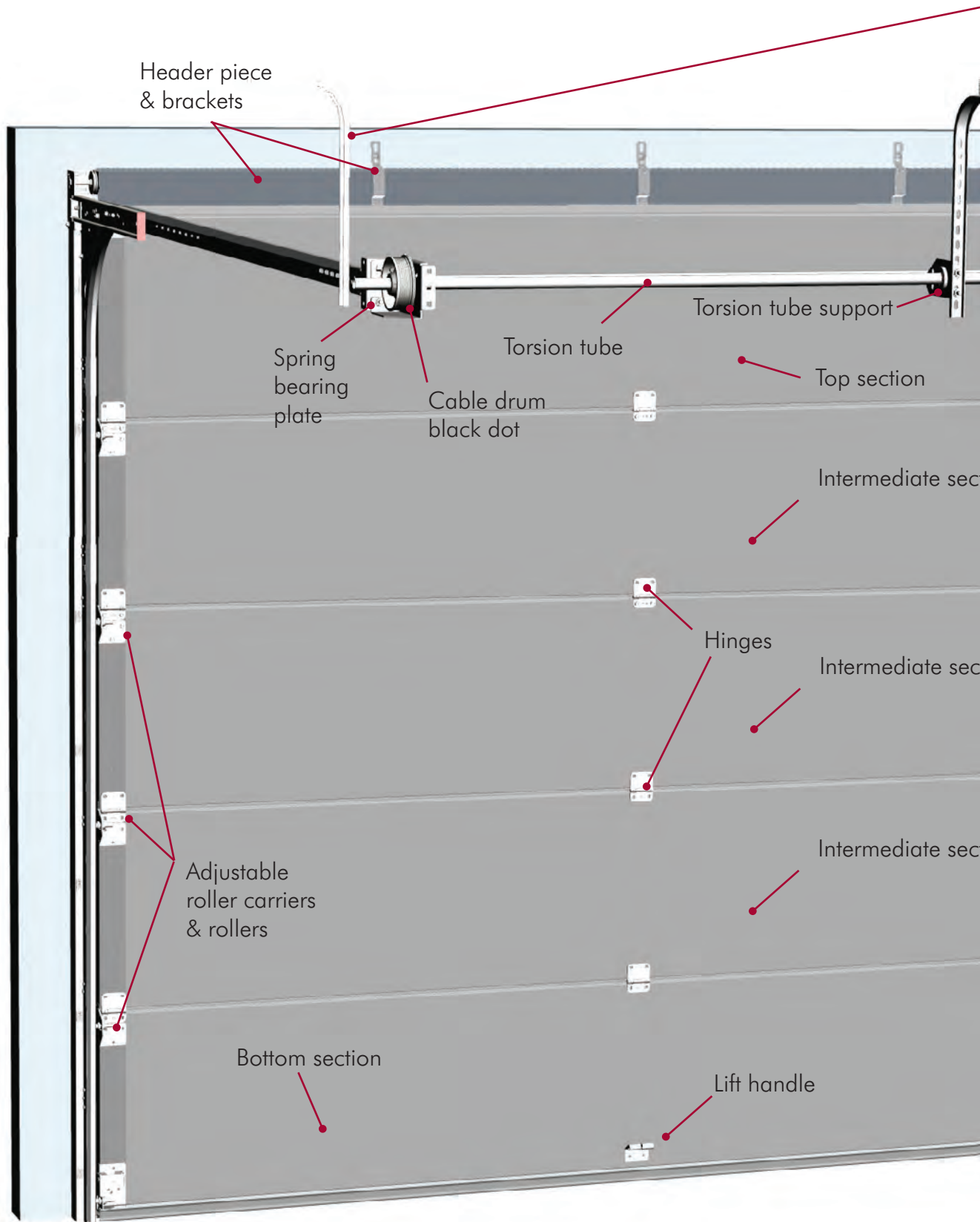
Bag L-44

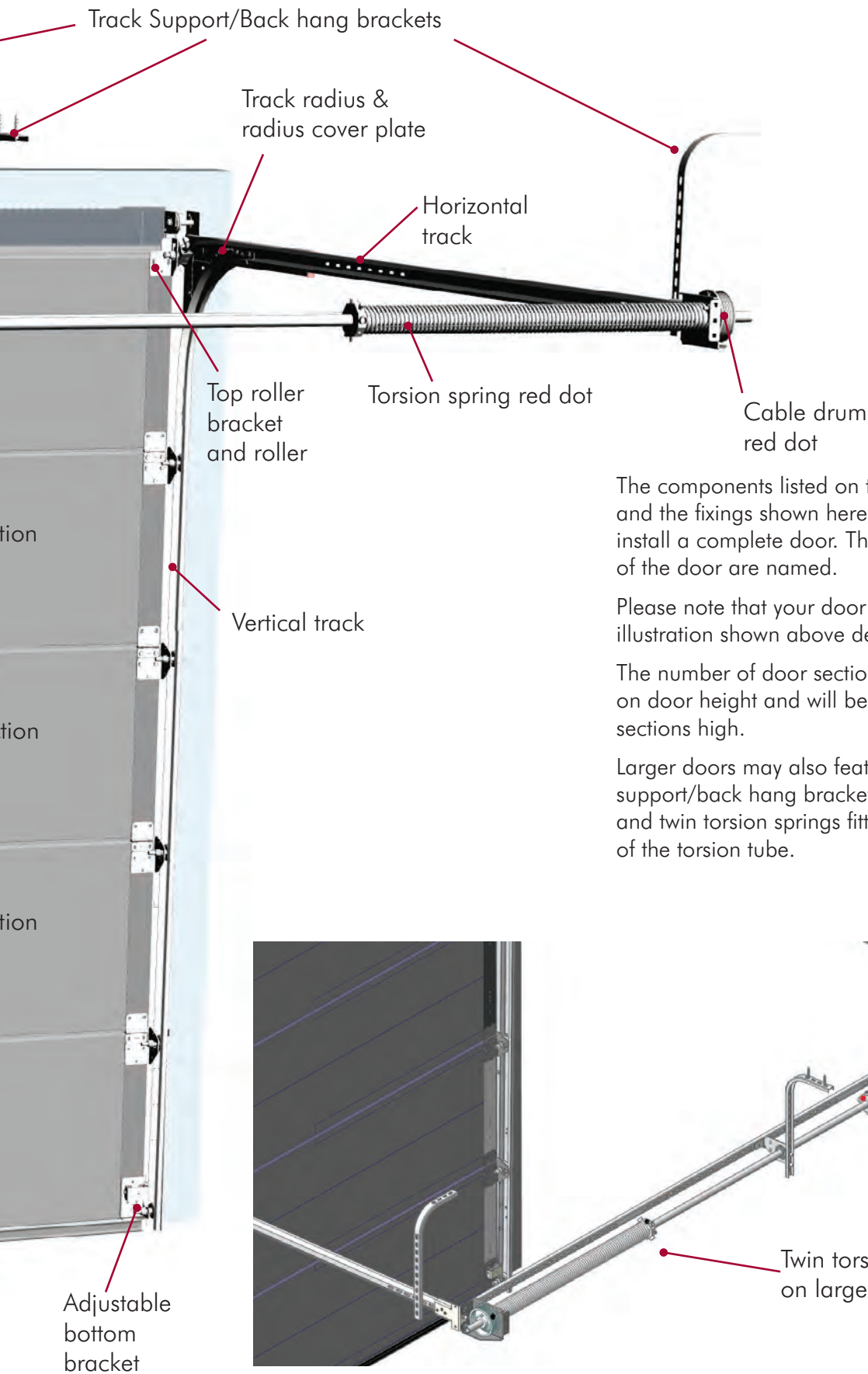


Bag L-66



THE FINISHED DOOR





The components listed on the previous page and the fixings shown here will allow you to install a complete door. The main components of the door are named.

Please note that your door may vary from the illustration shown above dependent on its size.

The number of door sections varies dependent on door height and will be either 4 or 5 sections high.

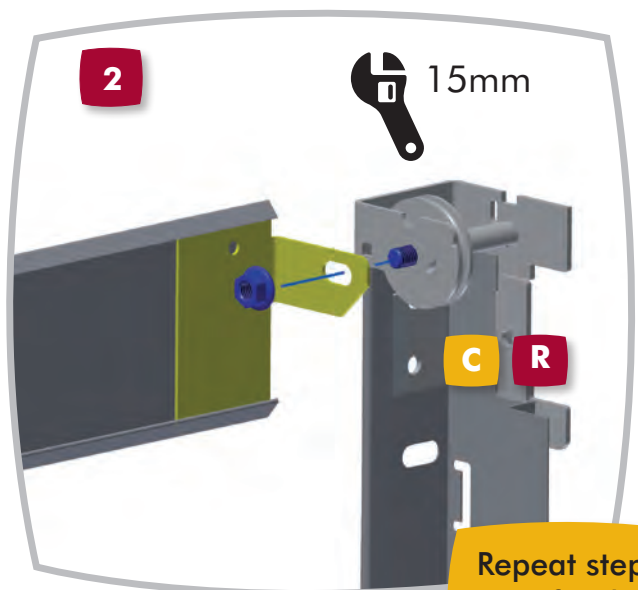
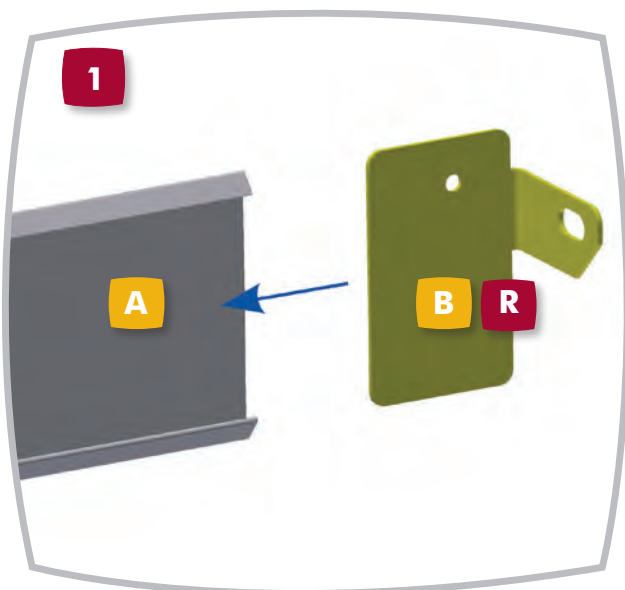
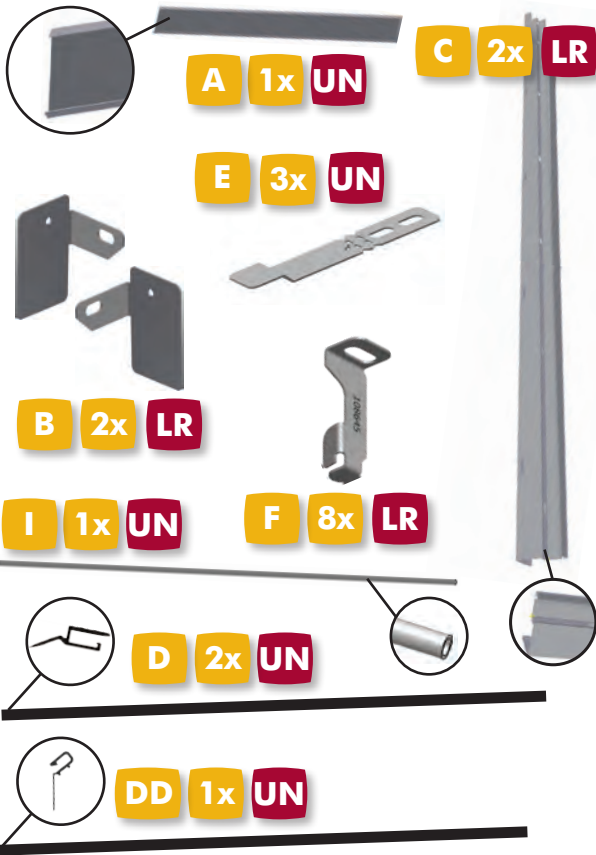
Larger doors may also feature additional track support/back hang brackets, a reinforcing strut and twin torsion springs fitted one at either side of the torsion tube.

Fitting header piece and vertical tracks to opening

TOOLS REQUIRED



PARTS REQUIRED



Repeat steps 1-2 for the opposite side

FIXINGS REQUIRED

Bag G-16



M10 x 50
Blue wall
plugs

Min Qty 10



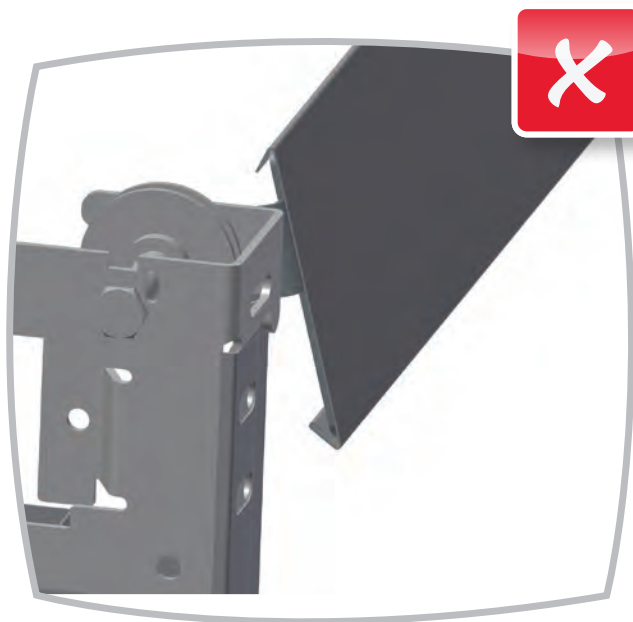
M8 x 45mm
coach screws

Min Qty 10

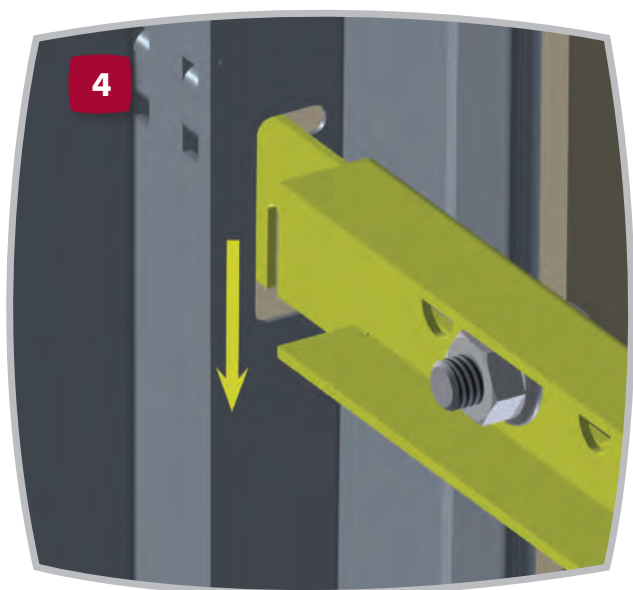
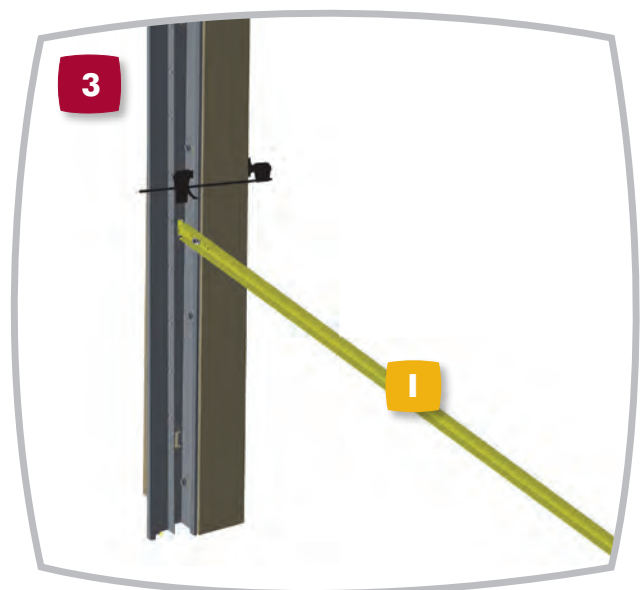


22mm
washer

Min Qty 10



AFTER STEP 2, YOU MUST TEMPORARILY SECURE THE ASSEMBLED FRAME CENTRALLY BEHIND THE OPENING WITH QUICK CLAMPS



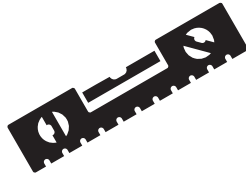
HOOK THE SPACER BAR ONTO THE FRAME AT THE TOP MIDDLE AND BOTTOM TO CHECK THE FRAME LEG SPACING

Fitting header piece and vertical tracks to opening

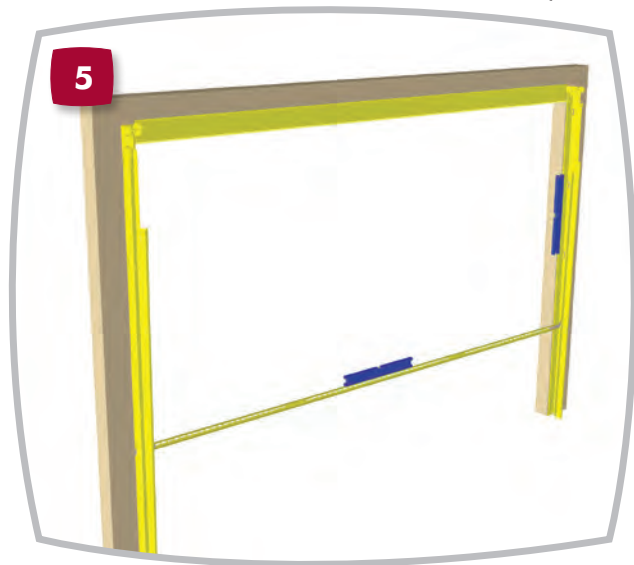
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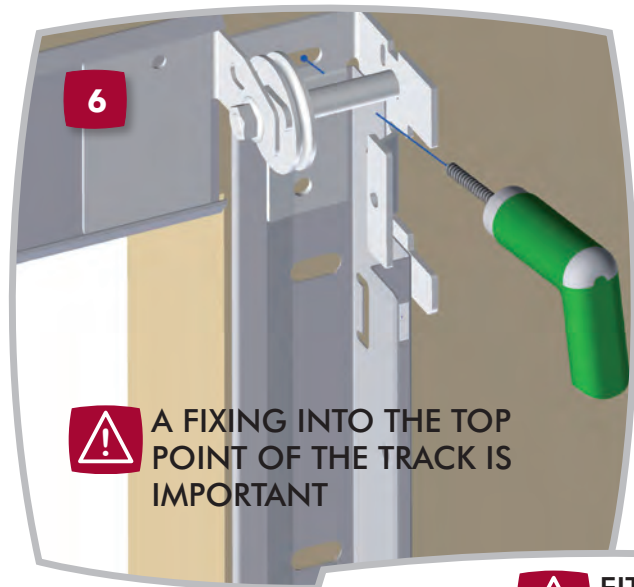
WARNING! CHECK LEVELS BEFORE FIXING, FRAME MUST BE LEVEL & PLUMB



A MINIMUM OF 4 FIXING PER SIDE MUST BE USED



5



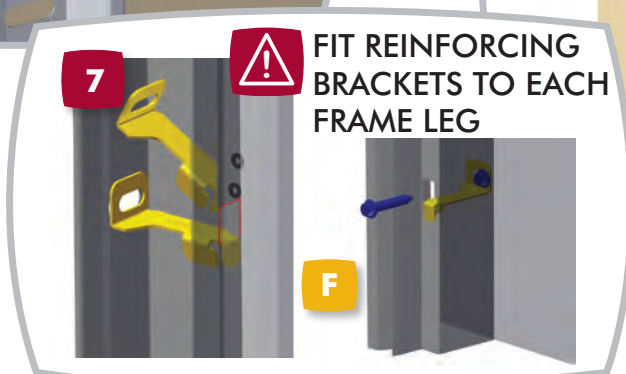
6



A FIXING INTO THE TOP POINT OF THE TRACK IS IMPORTANT



10mm

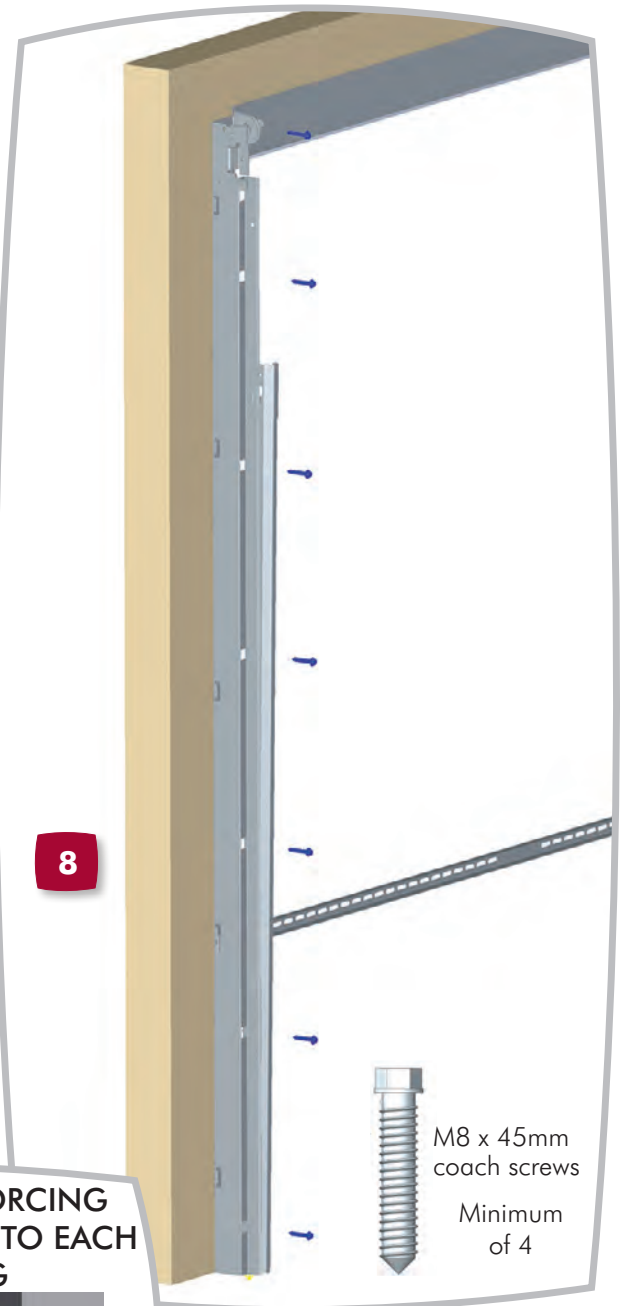


7



FIT REINFORCING BRACKETS TO EACH FRAME LEG

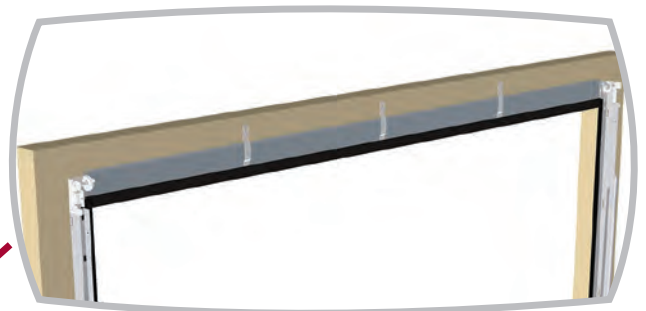
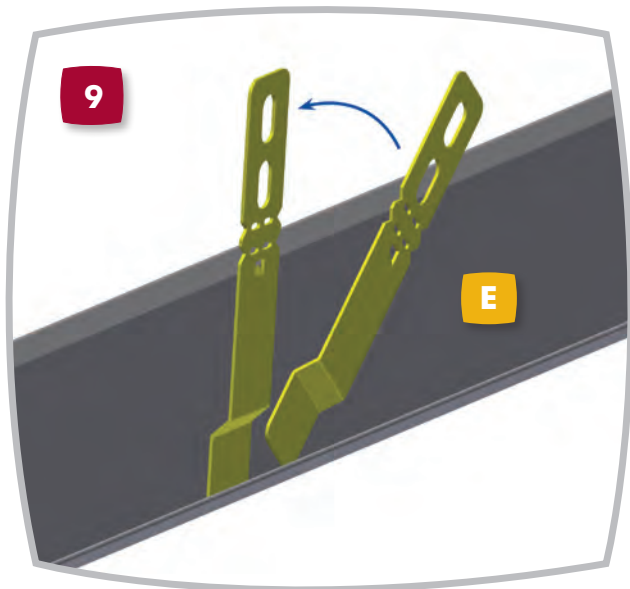
F



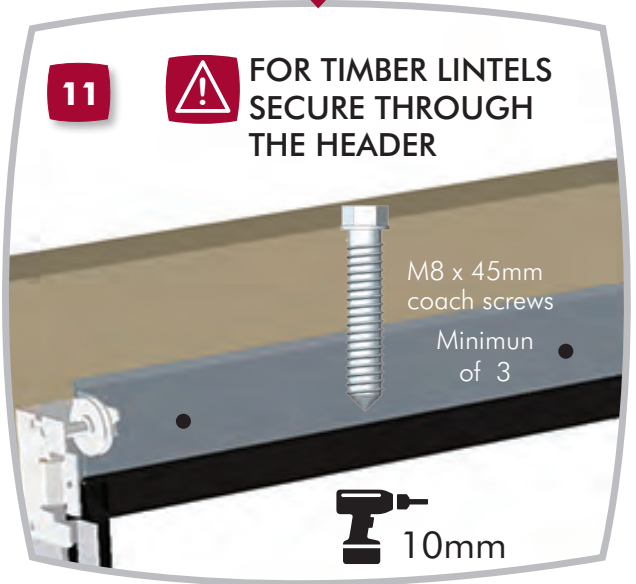
8



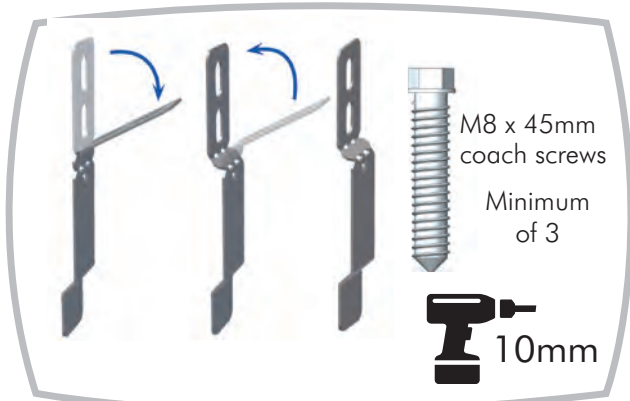
M8 x 45mm
coach screws
Minimum
of 4



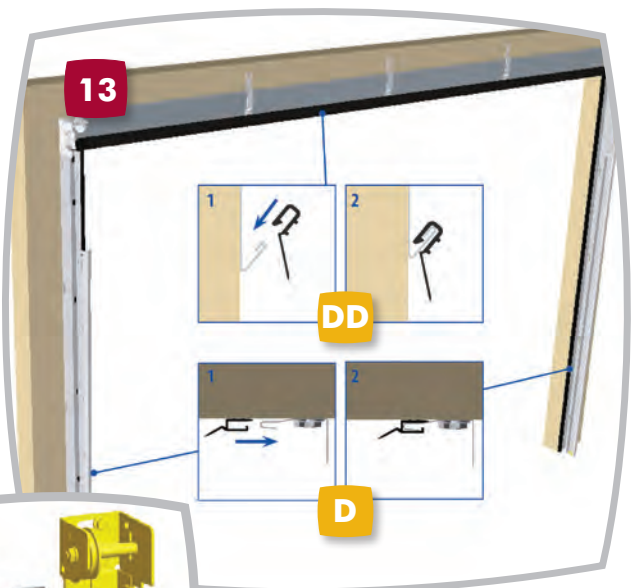
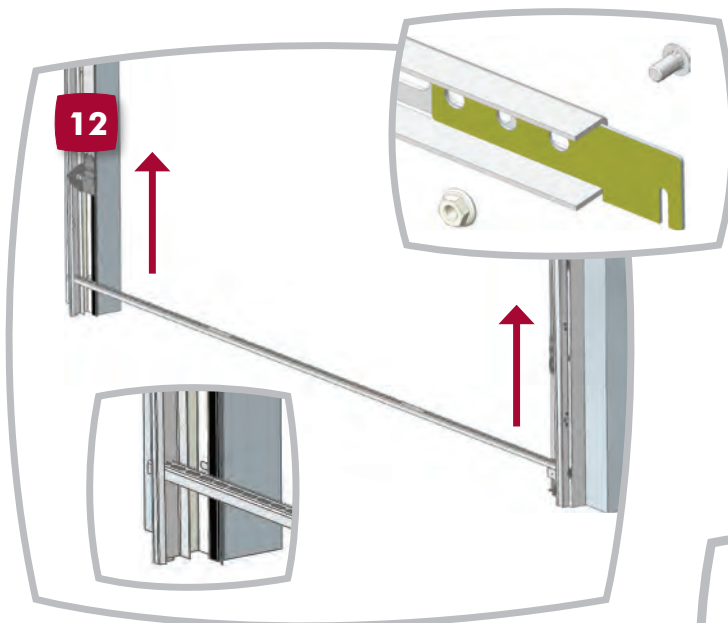
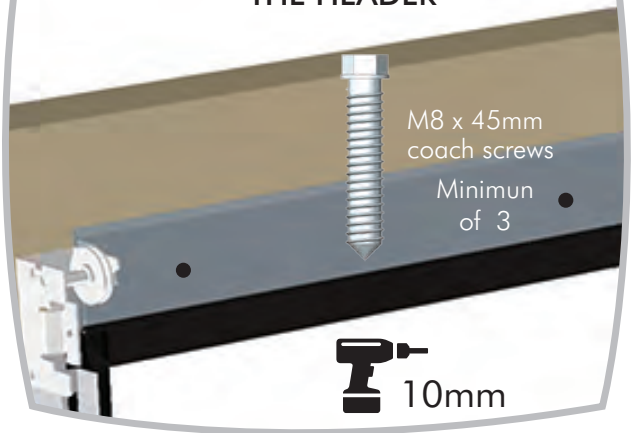
10  **FOR MASONRY LINTELS
SECURE USING THE
BRACKETS SUPPLIED**




11  **FOR TIMBER LINTELS
SECURE THROUGH
THE HEADER**



OR



 **UNHOOK THE SPACER BAR FROM THE FRAME, REMOVE THE END BRACKETS. PLACE THE SPACER BAR INSIDE THE DOOR TRACKS AND SLIDE THE BAR UP THE TRACKS TO CHECK THE SPACING**

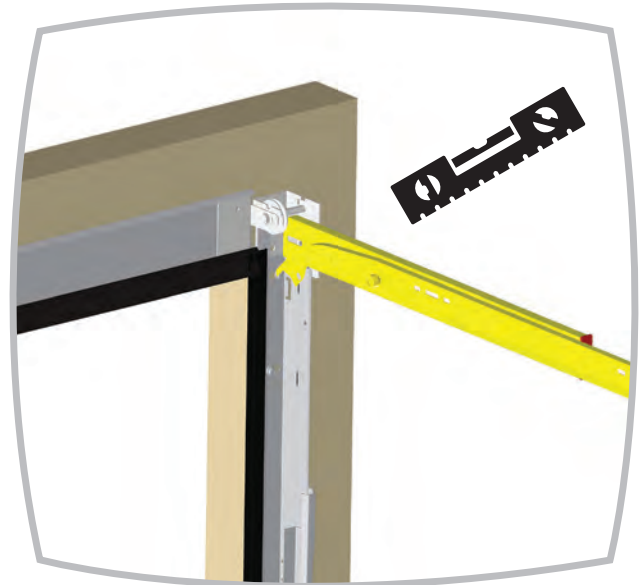
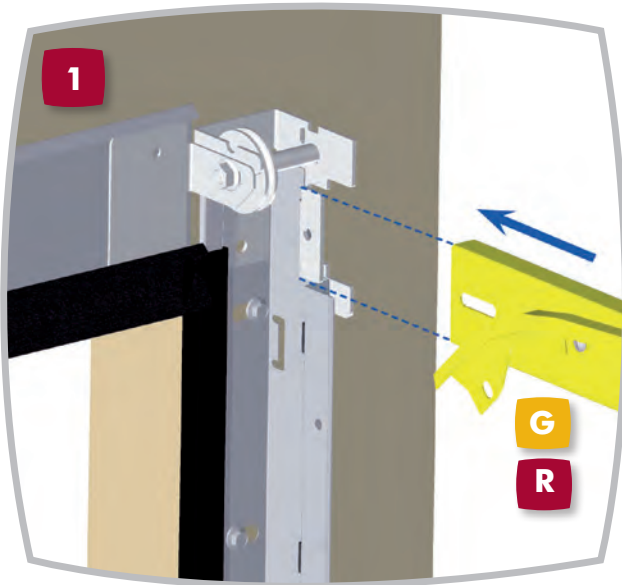
 **ATTACH THE SIDE AND HEADER SEALS**

Fitting horizontal track and spacer bar

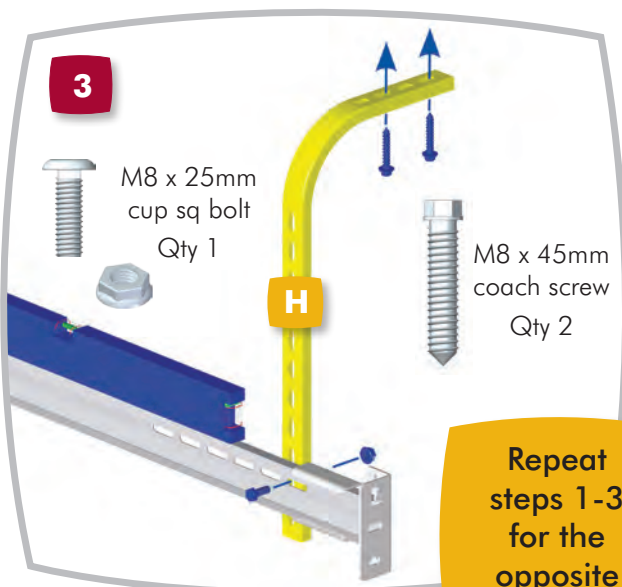
TOOLS REQUIRED



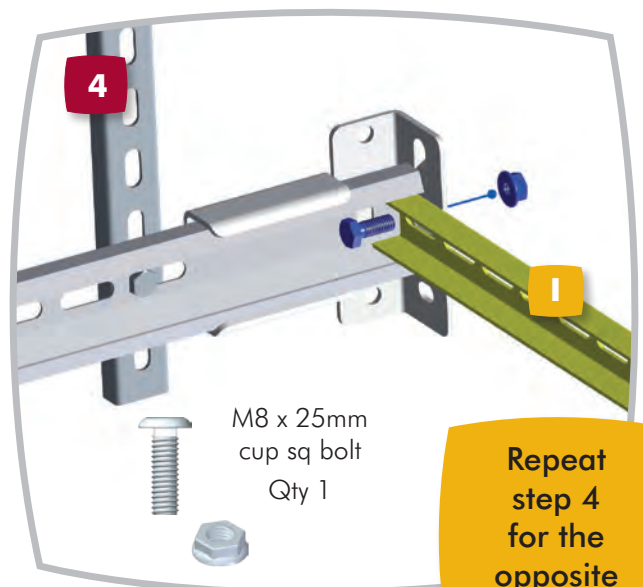
TEMPORARILY SUPPORT THE REAR OF THE HORIZONTAL TRACK AND MAKE LEVEL



TRACK HANGER FIXINGS MUST BE SOLID AND SECURE
FULLY TIGHTEN WHEN ADJUSTMENTS TO ALIGNMENT ARE COMPLETE



Repeat steps 1-3 for the opposite track



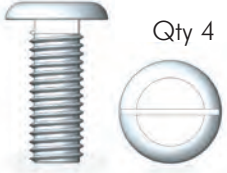
Repeat step 4 for the opposite track side

FIXINGS REQUIRED

Bag L-65

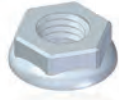
M8 x 25mm
cup sq bolt

Qty 4



M8
flanged nut

Qty 4



M8 x 45mm
coach screw

Qty min 4



PARTS REQUIRED

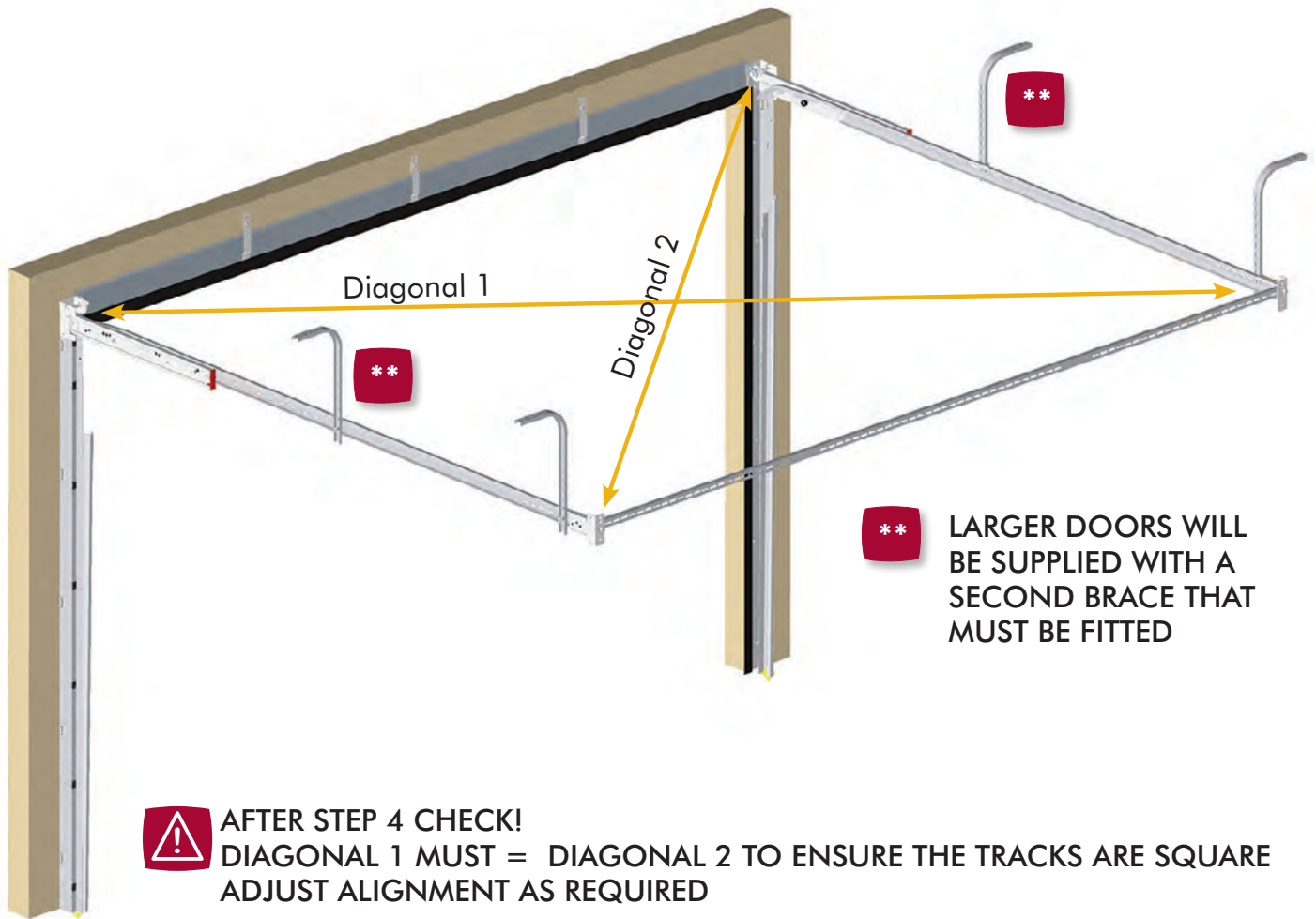


H 2x
UN



I 1x
UN

G 2x LR

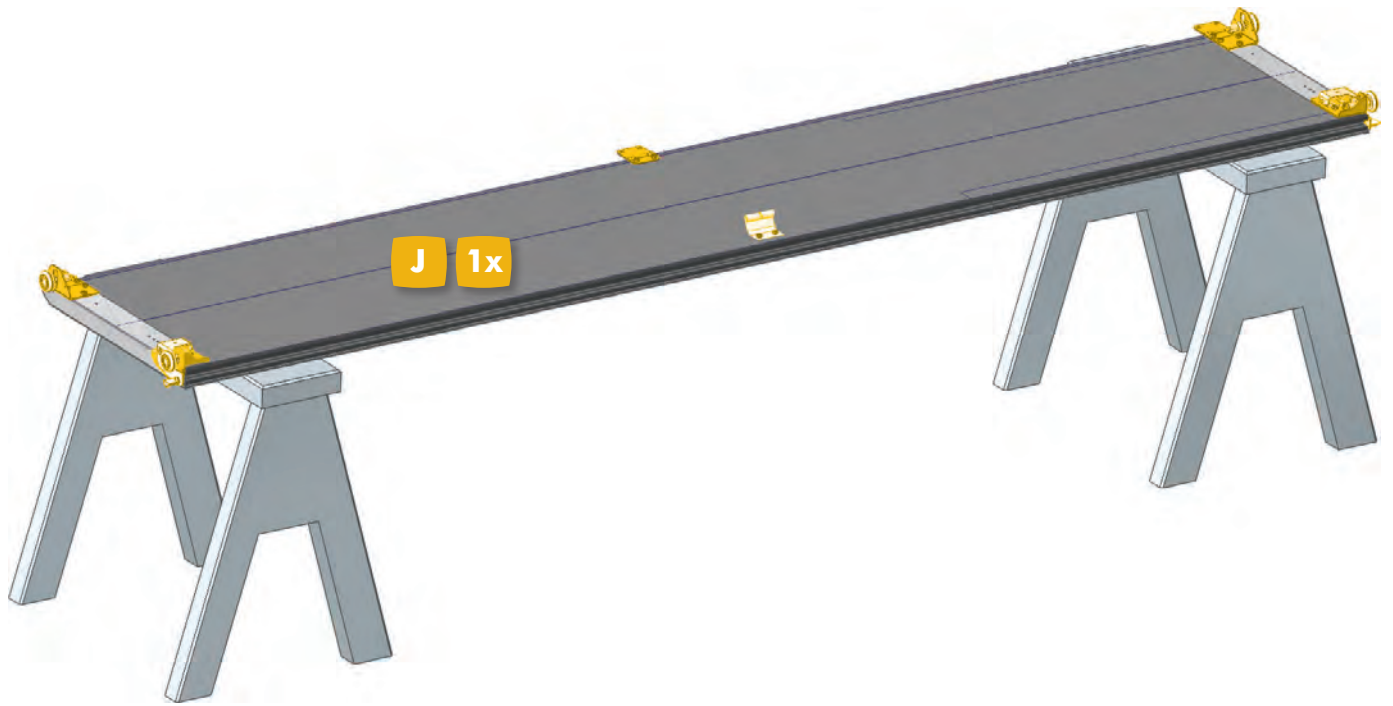
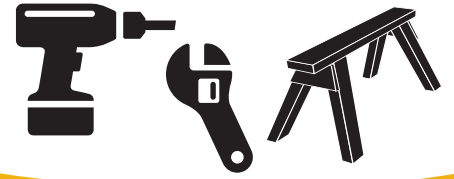


** LARGER DOORS WILL BE SUPPLIED WITH A SECOND BRACE THAT MUST BE FITTED

 AFTER STEP 4 CHECK!
DIAGONAL 1 MUST = DIAGONAL 2 TO ENSURE THE TRACKS ARE SQUARE
ADJUST ALIGNMENT AS REQUIRED

Fixing hardware to bottom section

TOOLS REQUIRED

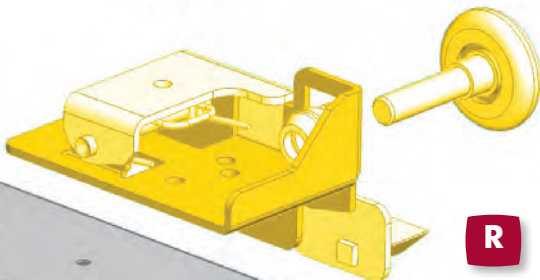


IT IS RECOMMENDED TO COVER THE TOPS OF SAWHORSES WITH CARPET OR CLOTH TO PREVENT THE DOOR SECTIONS FROM BEING SCRATCHED OR DAMAGED

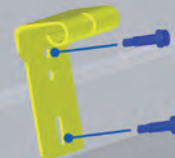
1



M6 x 25mm
self drill screw
Qty 3



2



M6 x 25mm
self drill screw
Qty 2

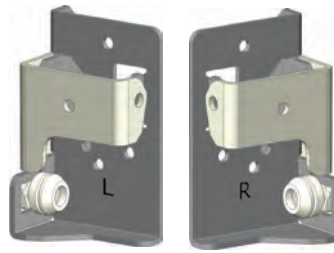
FIXINGS REQUIRED

Bag L-41



M6 x 25mm
self drill screw

PARTS REQUIRED



K 2x **LR**



N **UN**



L 4x **UN**

Hinge table

Door width (up to)	10'	14'	18'
	Qty	Qty	Qty
Number of Sections	4	9	12
	5	12	16



P 2x **UN**



O 2x **LR**



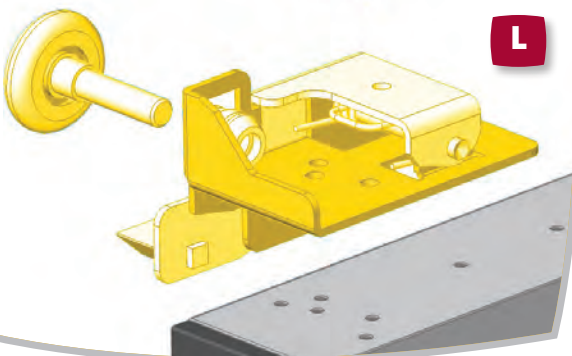
M 1x **UN**

3

M6 x 25mm
self drill screw
Qty 3

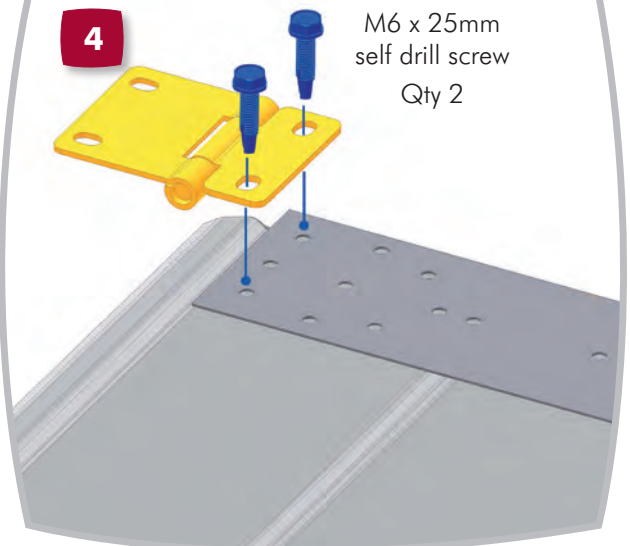


L



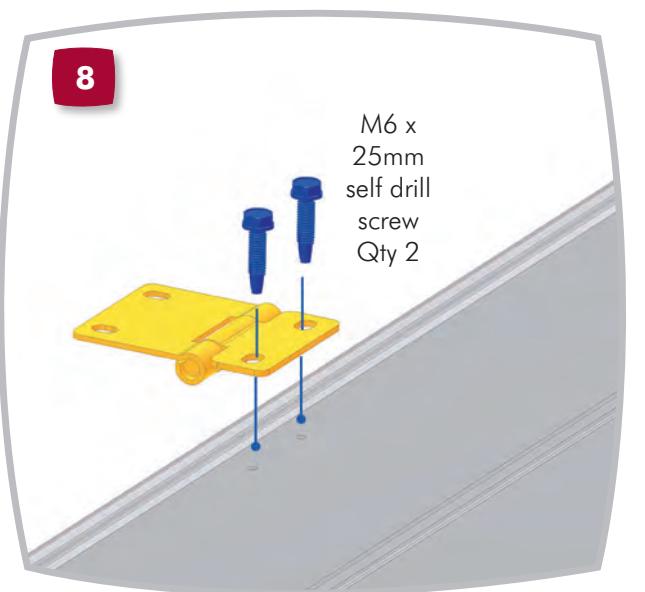
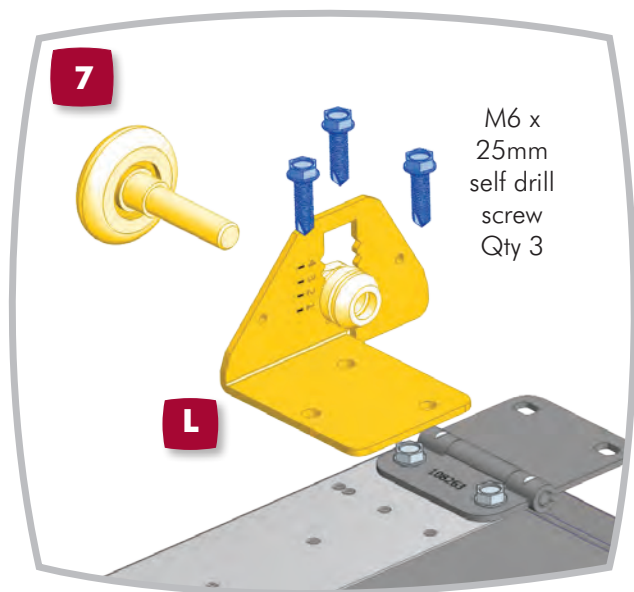
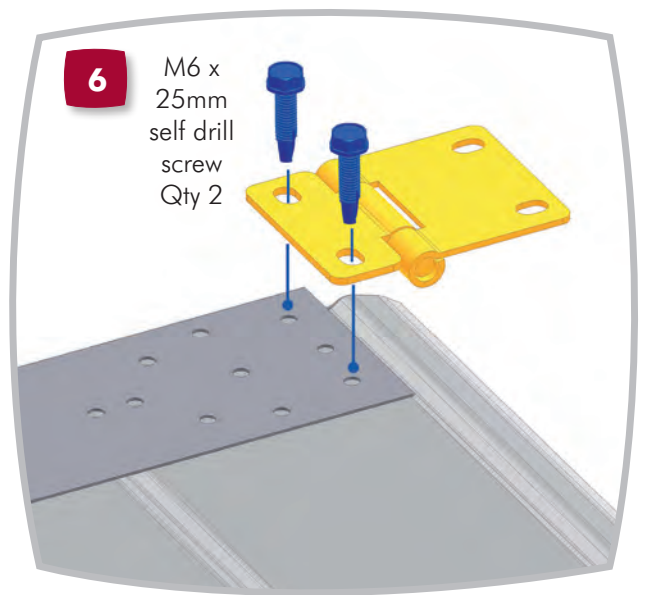
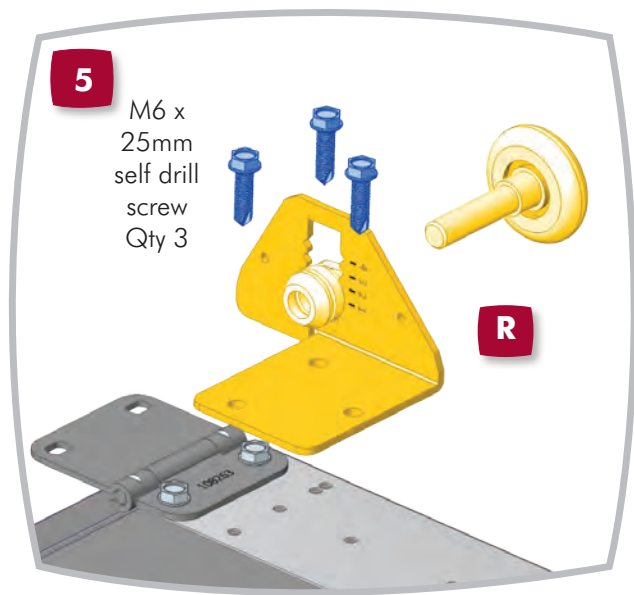
4

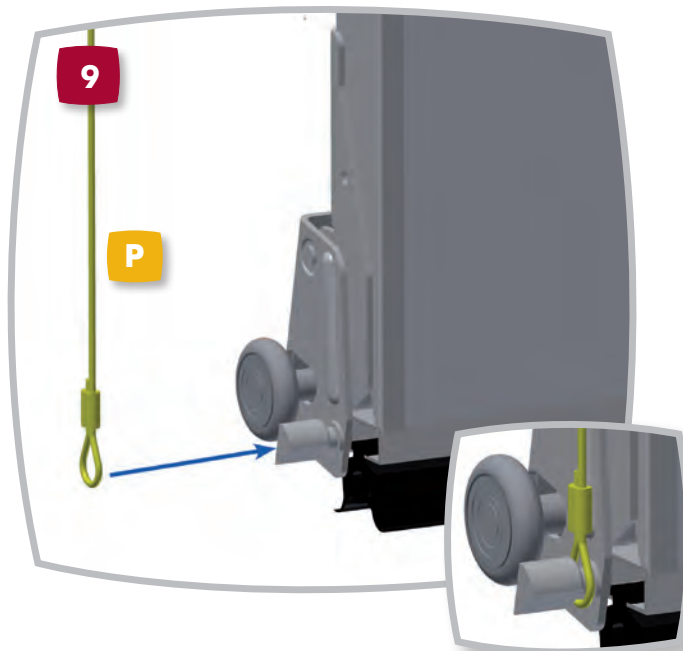
M6 x 25mm
self drill screw
Qty 2



Fixing hardware to bottom section

...continued





Repeat this step for the opposite side

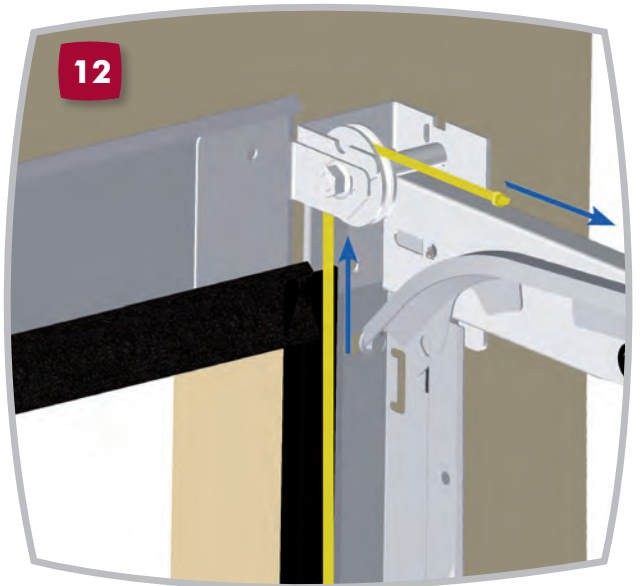
⚠️ ENGAGE THE ANTI-DROP ON BOTH SIDES

Press firmly on the lever/paddle on the bottom fixture and lower the section into position within the vertical track ensuring the cable can run freely upward. (Figure 10)



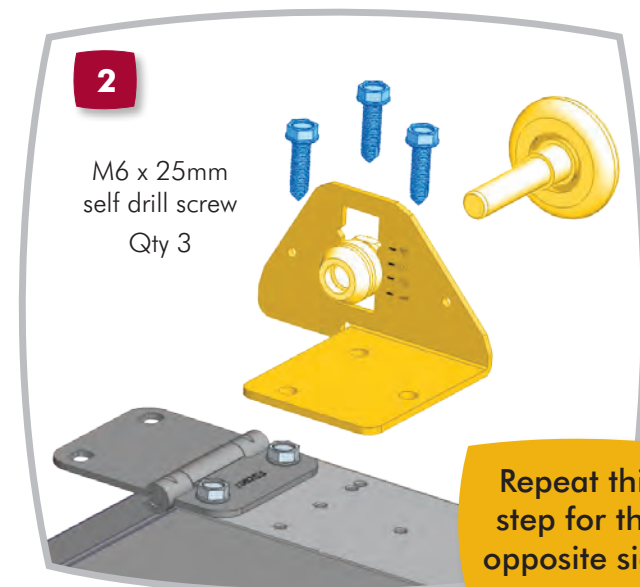
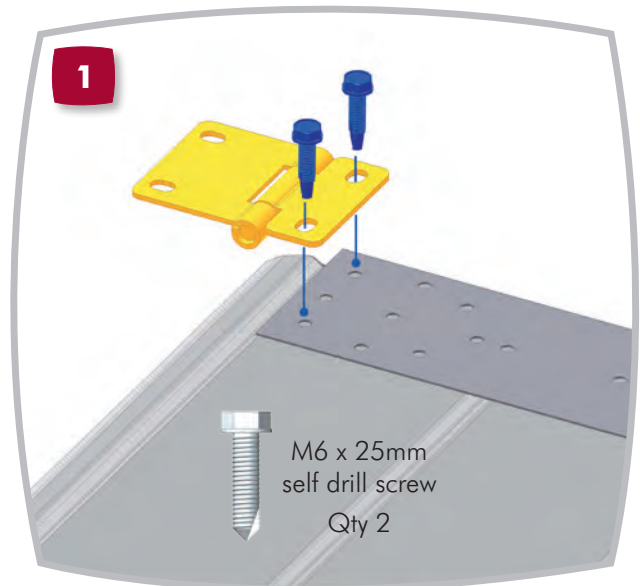
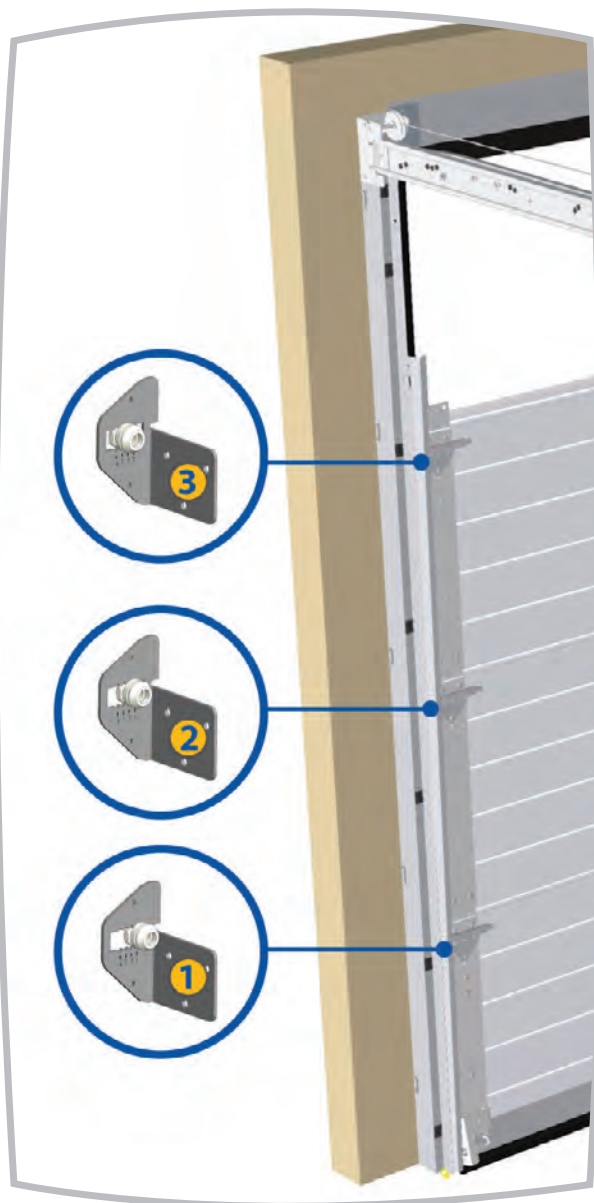
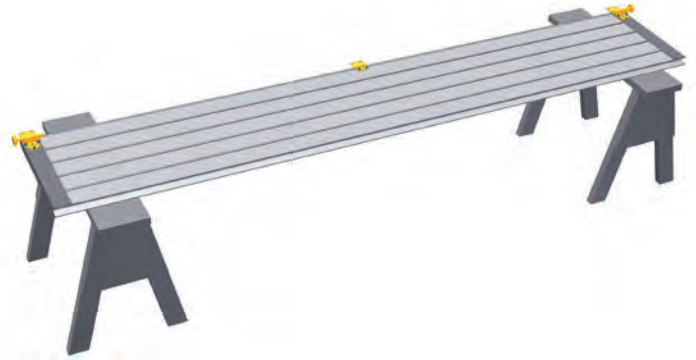
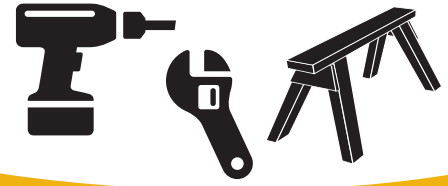
⚠️ ONCE BOTTOM SECTION IS IN POSITION:

- a. Ensure the section is level before progressing to intermediate sections NB: This may require packing out at one side if floor is not level. (Figure 11)
- b. Pull the cable over the pulley sheave at the top of the vertical track and temporarily secure at the back of the horizontal track or rear bearing plate. (Figure 12)



Fixing hardware to intermediate sections

TOOLS REQUIRED



NB: ROLLER CARRIERS ARE SUPPLIED PRE-SET IN EITHER NO.1, NO.2, NO.3 OR (ON 5 SECTION DOORS) NO.4

FIXINGS REQUIRED

Bag L-41



M6 x 25mm
self drill screw

PARTS REQUIRED



L 6x UN

5 section doors will
have 8x of 'O' & 'L'

O 6x LR



N UN



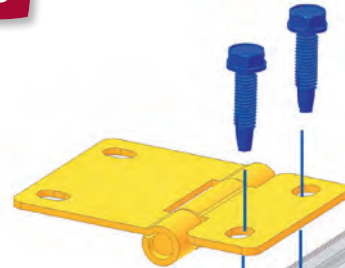
Q 3x UN

5 section high
doors will
have 4x

Hinge table

Door width (up to)	10'	14'	18'
	Qty	Qty	Qty
Number of Sections	4	12	15
	5	12	20

3



M6 x 25mm
self drill screw
Qty 2

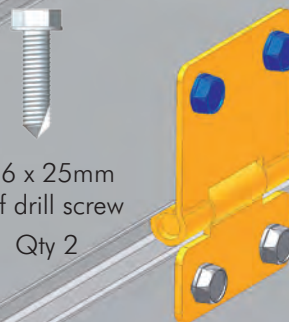
Repeat these
steps for all
remaining
intermediate
sections

4



M6 x 25mm
self drill screw
Qty 2

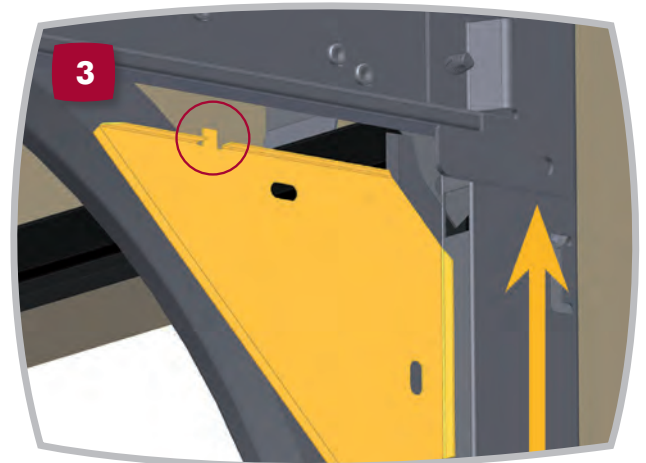
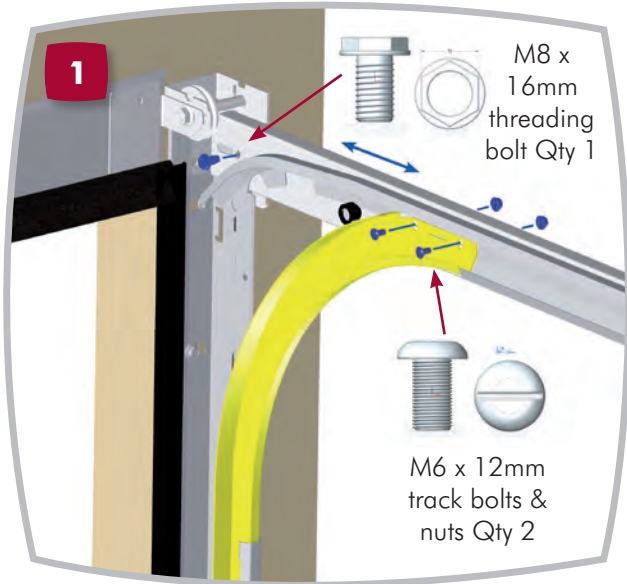
5



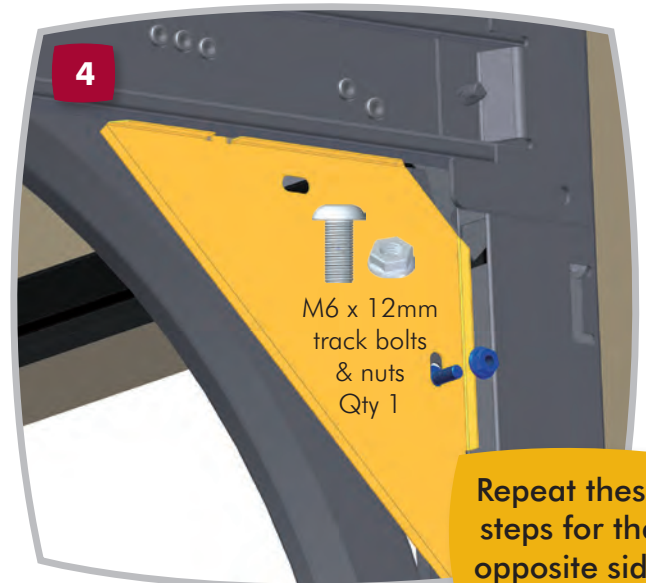
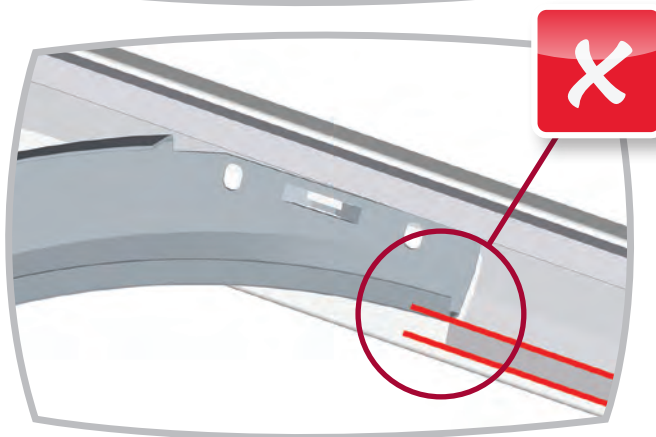
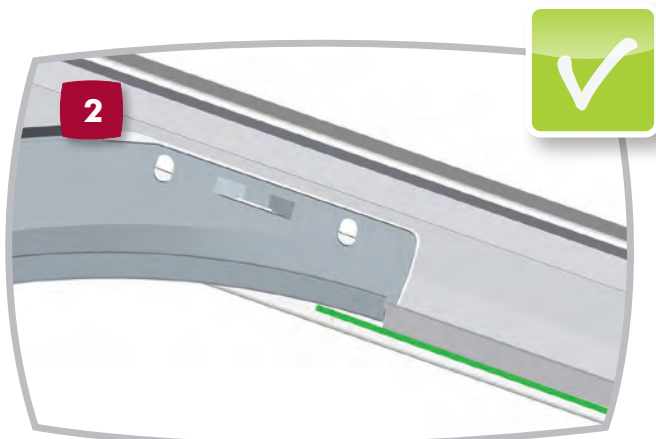
M6 x 25mm
self drill screw
Qty 2

Top section, radius & cover plate assembly

TOOLS REQUIRED



THE TAB ON THE RADIUS COVER PLATE MUST BE BENT UPWARDS TO LOCATE INTO THE TRACK



IF YOUR DOOR HAS BEEN SUPPLIED WITH A STRUT, FIX THE STRUT TO THE TOP SECTION. USE THE CLIPS SUPPLIED - THE CLIPS SHARE THE FIXING POINTS FOR THE HINGES AND ROLLER CARRIERS

FIXINGS REQUIRED

Bag L-75

Bag L-41

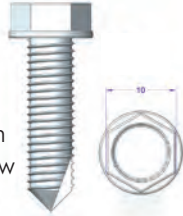


M6 x 12mm
track bolts

Qty 6



M6
flanged nut
Qty 6



M6 x 25mm
self drill screw

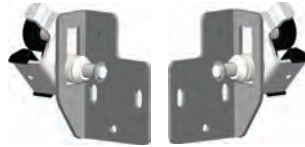
PARTS REQUIRED

T 2x LR

R 1x UN



S 2x LR



Doors under 12'0" wide are not supplied with a stiffener strut and clips. Doors over 12'0" have a stiffener strut that fits to the upper edge of the top section.

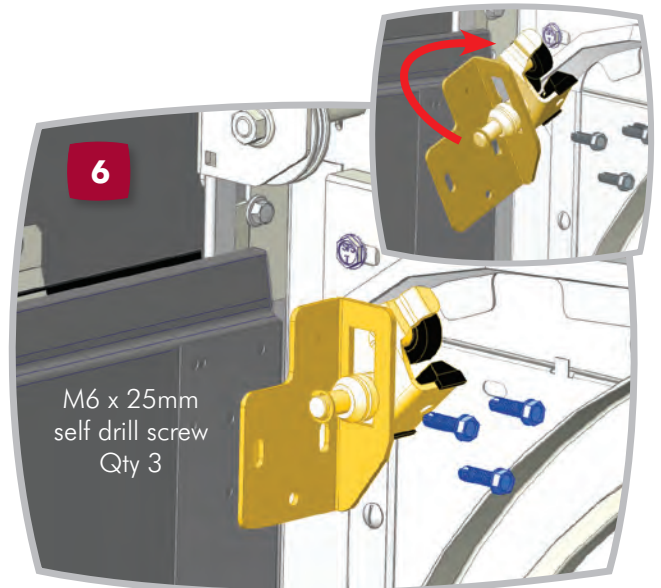
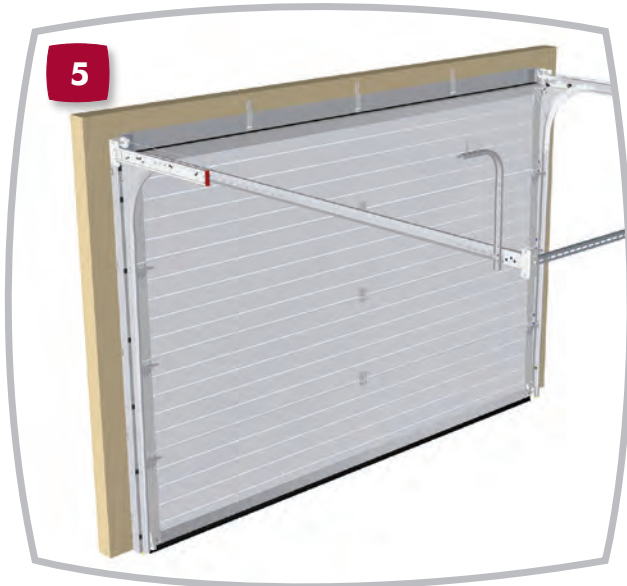
U 2x LR



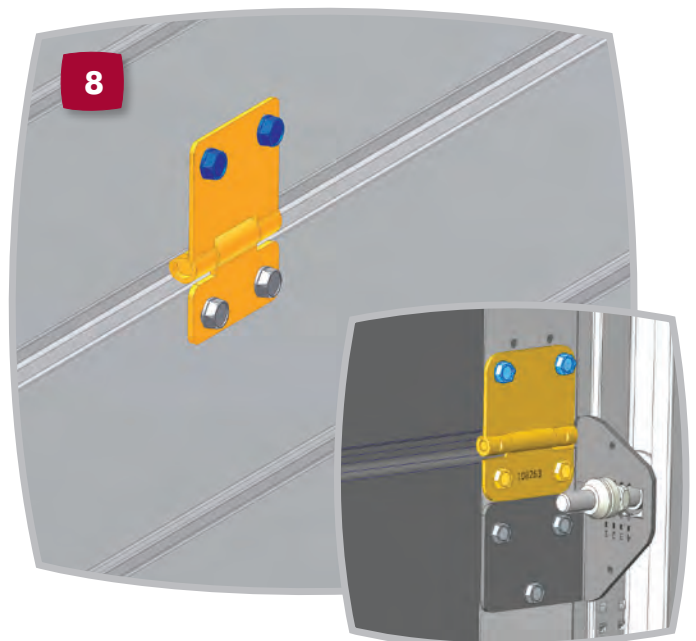
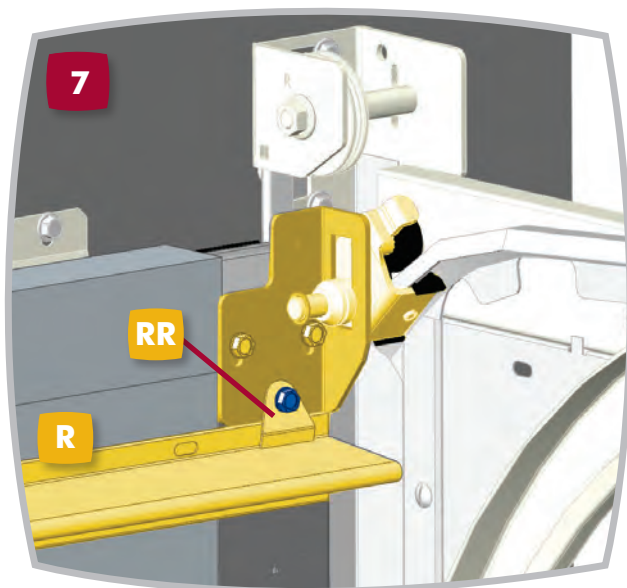
RR 8 UN



TEMPORARILY HOLD THE TOP SECTION IN PLACE BY USING VICE-GRIPS



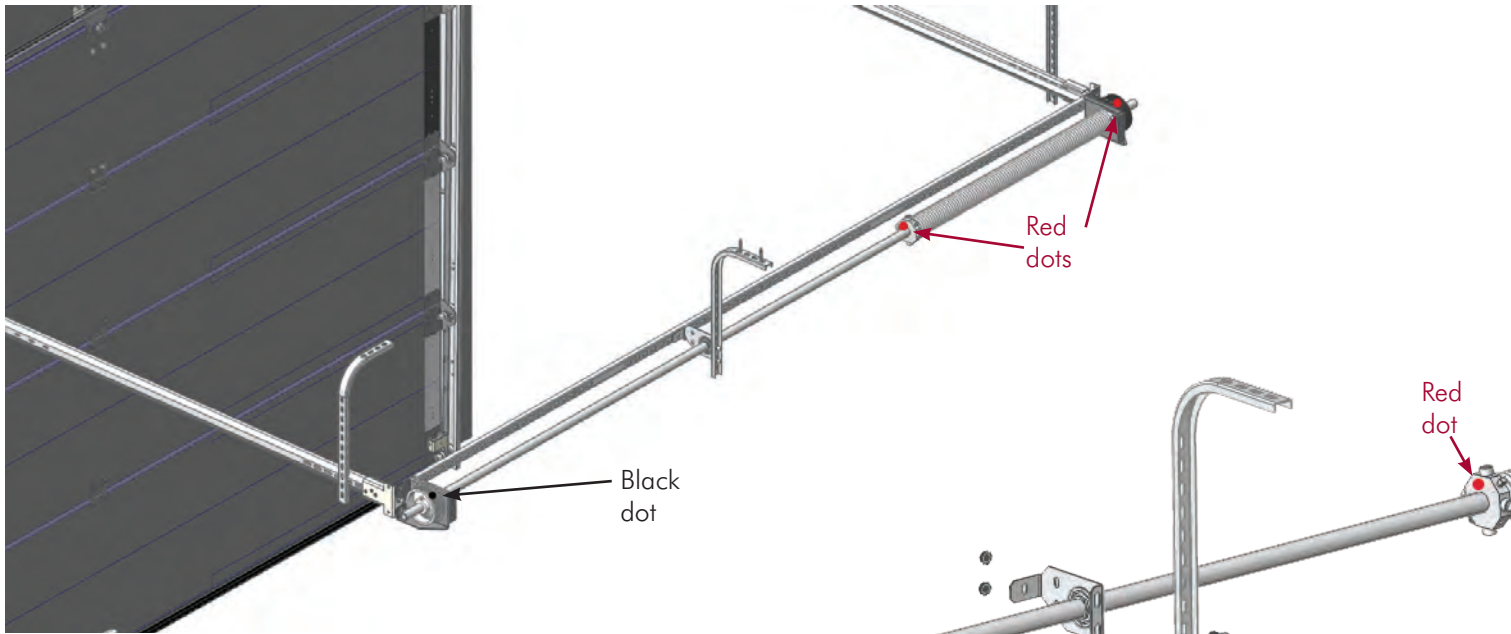
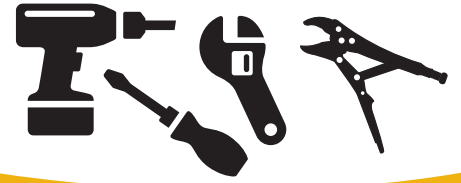
FIX/ATTACH TOP SECTION TO SECTION BELOW (SEE PAGE 17)



TOP SECTION SHOWN WITH REINFORCING STRUT & CLIP (IF SUPPLIED)

Rear Torsion Assembly

TOOLS REQUIRED



Single spring doors

M8 x 25mm cup sq bolt
Qty 2



Any reference to handing - left or right assumes you are viewing the door from the inside.

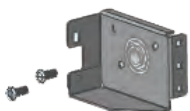


Double spring doors

Black dot



M8 x 25mm cup sq bolt
Qty 2



M8 x 25mm cup sq bolt

Qty 2



DANGER – DOOR IS CONSTANTLY UNDER EXTREME SPRING TENSION. REPAIRS AND ADJUSTMENT, ESPECIALLY TO CABLES AND SPRING ASSEMBLY, CAN BE HAZARDOUS AND SHOULD BE PERFORMED BY QUALIFIED DOOR SERVICE PEOPLE ONLY



WARNING – FAILURE TO COMPLY WITH THESE INSTRUCTIONS INVALIDATES THE WARRANTY

FIXINGS REQUIRED

Bag L-44



M8 x 25mm
cup sq bolt

Qty 2

(Qty 4 on
double spring
doors)



M8 x 25mm
cup sq bolt

Qty 2



R



M8 x 25mm
cup sq bolt

Qty 2

PARTS REQUIRED

Larger doors will have 2x

V 1x LR



W 1x UN



X 2x LR



H 1x

UN



AA 1x

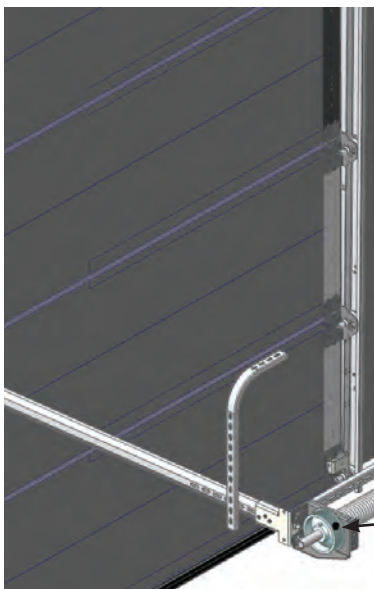
Red dot
RH drum

Black dot
LH drum

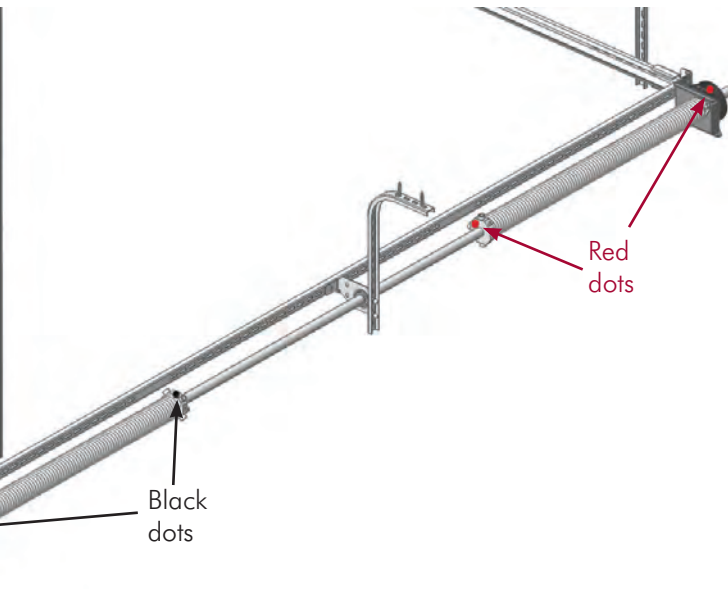


Y 1x L

Z 1x R



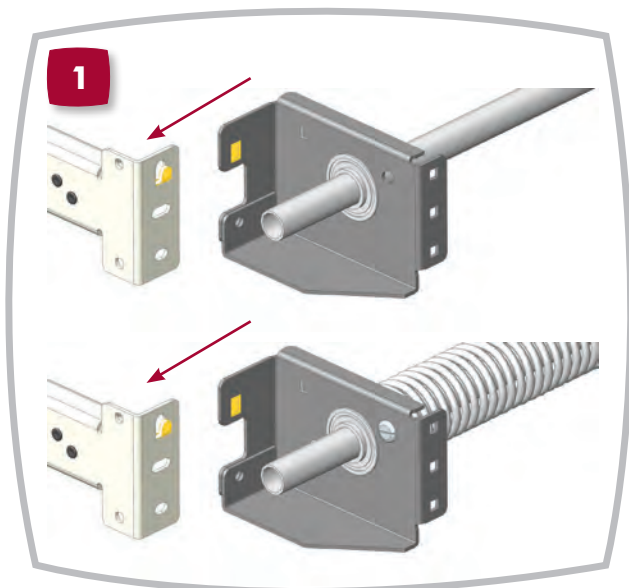
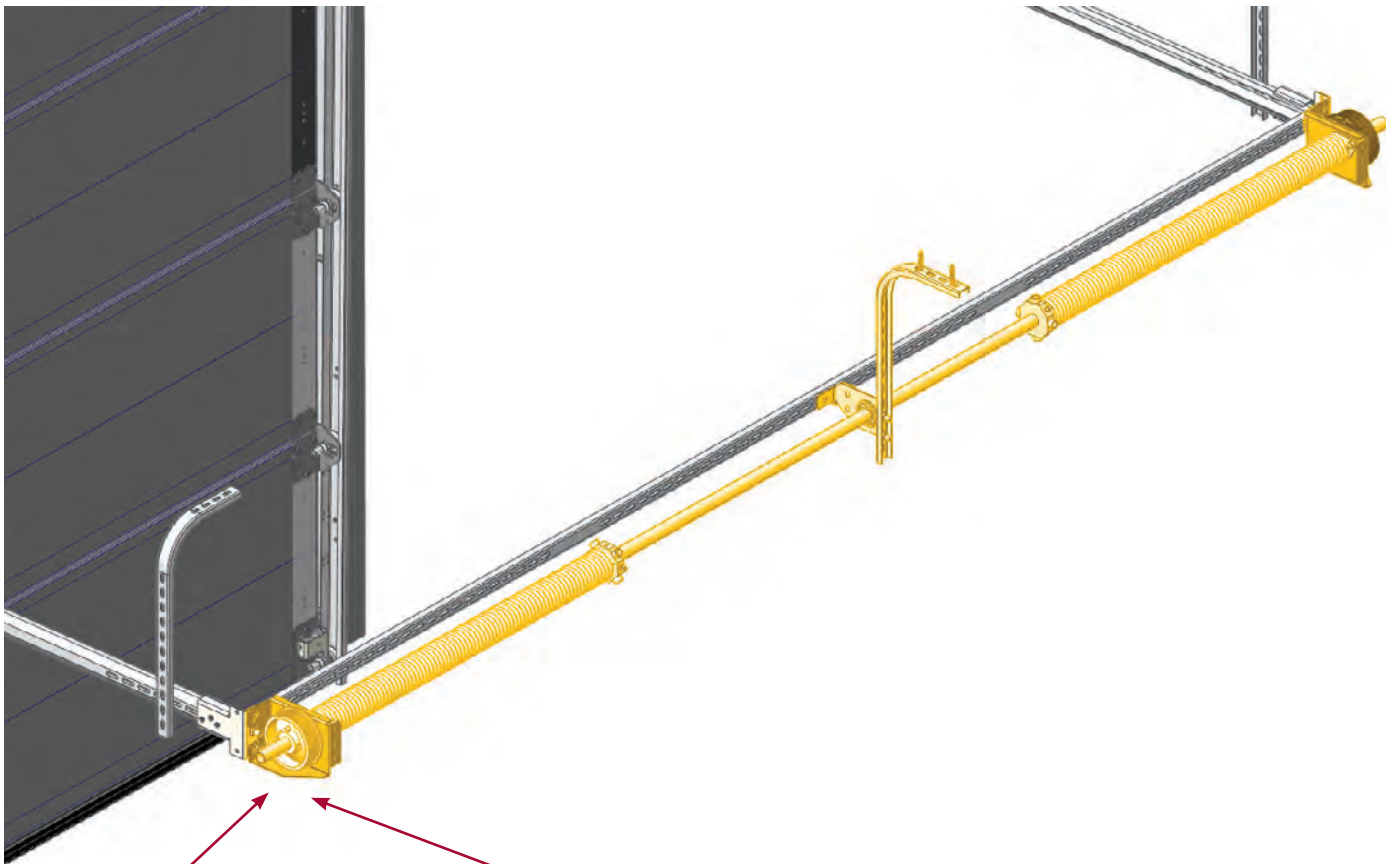
Black dots



Red dots

Placement of Torsion Assembly

TOOLS REQUIRED



FIXINGS REQUIRED

Bag L-65

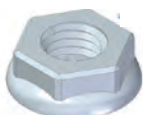
M8 x 25mm
cup sq bolt

Qty 4



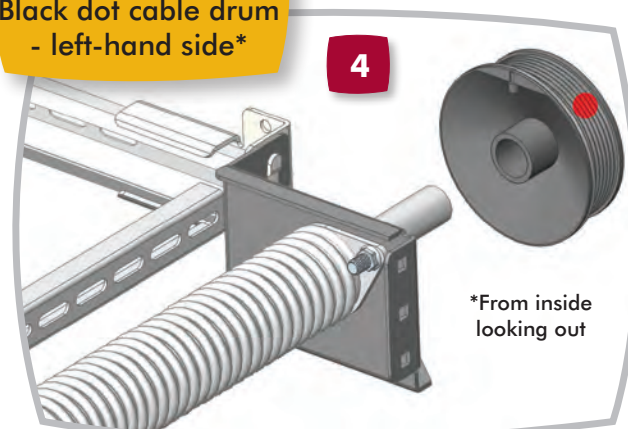
M8
flanged nut

Qty 4



Red dot cable drum
- right hand side*
Black dot cable drum
- left-hand side*

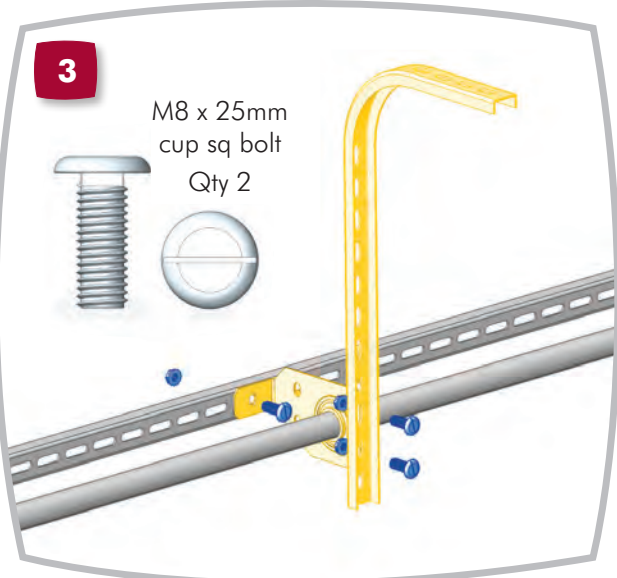
4



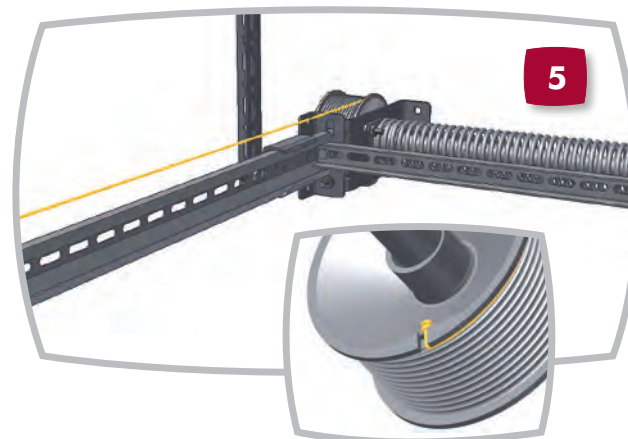
*From inside
looking out

3

M8 x 25mm
cup sq bolt
Qty 2

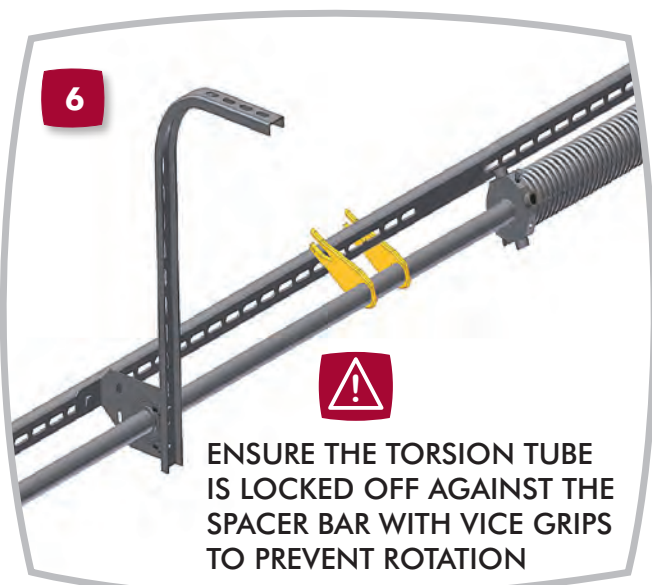


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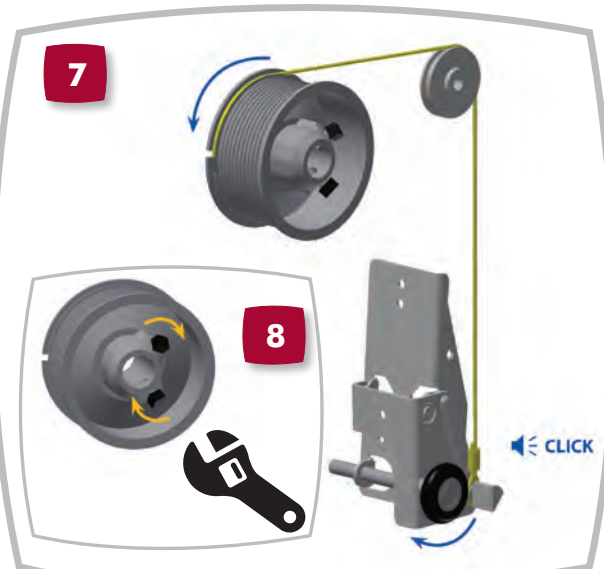
WIND CABLE UNTIL TENSION ACTIVATES
THE ANTI DROP ON BOTTOM FIXING
(CLICKS) (FIGURE 7)
TIGHTEN SET-SCREWS (FIGURE 8)

6



ENSURE THE TORSION TUBE
IS LOCKED OFF AGAINST THE
SPACER BAR WITH VICE GRIPS
TO PREVENT ROTATION

7



8



CABLE TENSION MUST BE EVEN ON
BOTH SIDES

Setting spring tension

TOOLS REQUIRED



WINDING SPRINGS IS THE MOST HAZARDOUS PART OF THE DOOR INSTALLATION



USE TWO 12MM" DIAMETER COLD ROLLED STEEL WINDING BARS 350 – 400MM LONG FOR WINDING SPRINGS



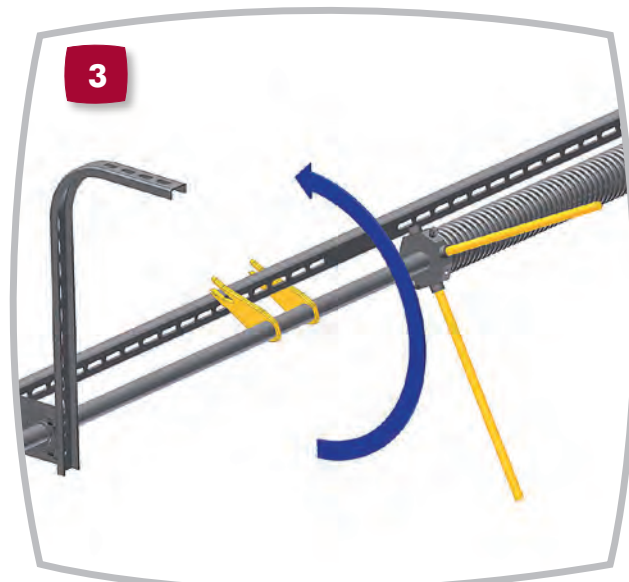
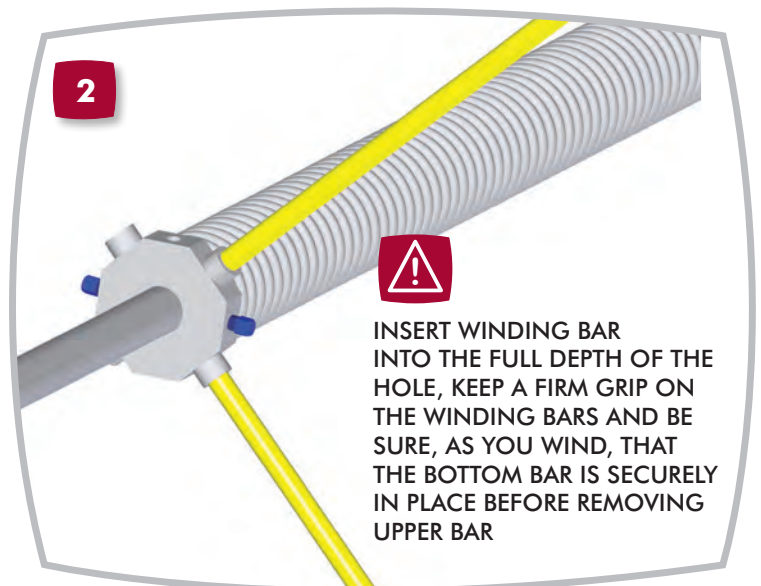
NEVER USE A SCREWDRIVER OR ANY OTHER OBJECT TO WIND SPRINGS – THIS CAN RESULT IN SEVERE INJURY



POSITION YOURSELF ON A SUITABLE PLATFORM LOOKING AT THE DOOR AND KEEP SLIGHTLY TO THE SIDE OF THE WINDING BARS



NEVER WIND SPRINGS DIRECTLY IN FRONT OF YOU – THIS CAN RESULT IN INJURY



FACING THE DOOR, WIND EACH SPRING IN AN UPWARD DIRECTION $\frac{1}{4}$ TURN AT TIME: SEE TABLE FOR THE NUMBER OF TURNS REQUIRED FOR YOUR DOOR SIZE



WHEN THE CORRECT TURNS HAVE BEEN APPLIED, ALWAYS TIGHTEN SETSCREWS IN WINDING CONES SECURELY TO SHAFT BEFORE REMOVING WINDING BARS.



IF YOU ARE FITTING A TWIN SPRING ASSEMBLY, MAINTAIN EQUAL TURNS ON BOTH SPRINGS

SPRING TURNS REQUIRED FOR EACH DOOR SIZE

7'0" (2134MM) HIGH DOORS REQUIRE 7.5 FULL TURNS OR 30 QUARTER TURNS

8'0" (2438MM) HIGH DOORS REQUIRE 8.5 FULL TURNS OR 34 QUARTER TURNS

SPRINGS HAVE A LINE OF PAINT THAT CAN BE USED TO CHECK THE NUMBER OF TURNS APPLIED



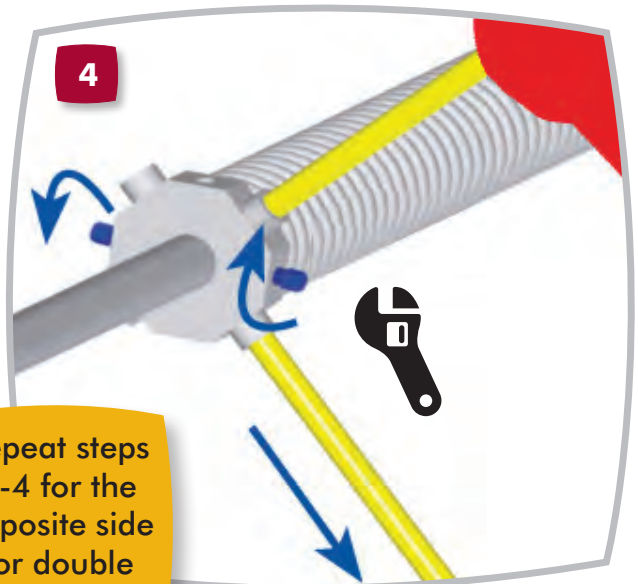
START



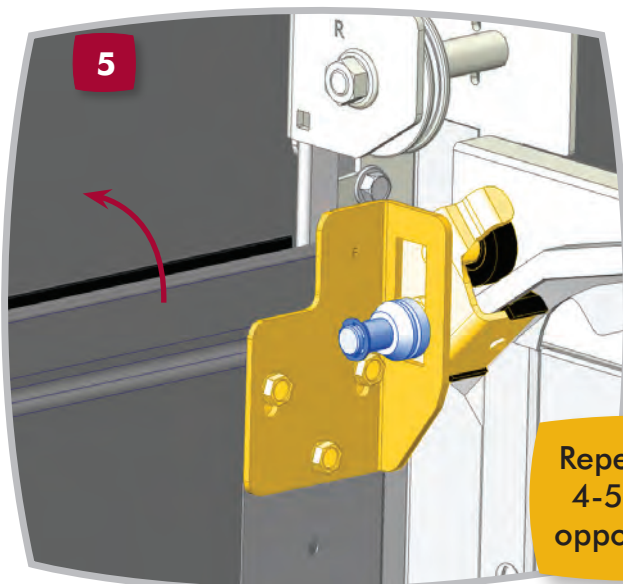
7.5 TURNS



TIGHTEN THE SPRING SET SCREWS. BE CAREFUL NOT TO OVER TIGHTEN SCREWS AND PUNCTURE THE TUBING



Repeat steps 1-4 for the opposite side for double spring doors







Repeat steps 4-5 for the opposite side

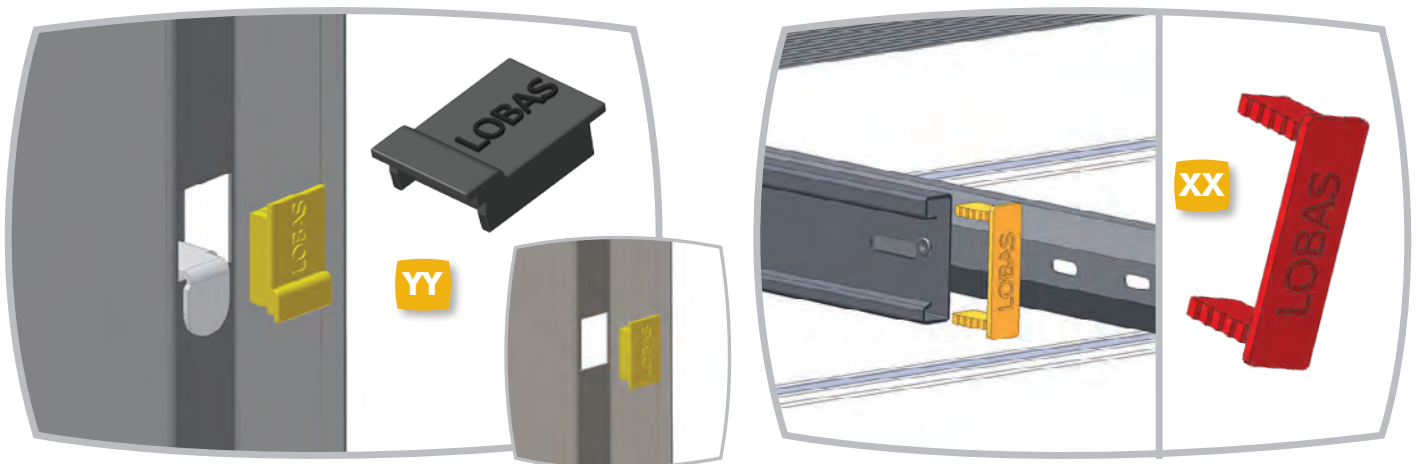


WHILST ENSURING THE TOP SECTION IS CLOSED AGAINST THE LINTEL, TIGHTEN THE ROLLER SPINDLE IN PLACE

Final adjustments and checks

-  IF THE DOOR DOES NOT WORK EASILY, RE-CHECK INSTALLATION TO MAKE SURE SPACING OF TRACK IS CORRECT AND THE DOOR IS NOT BINDING
-  DOOR AND TRACKS MUST BE LEVEL AND SQUARE
-  AS NECESSARY, READJUST SPRING TENSION BY REFERRING TO SPRING TENSIONING INSTRUCTIONS ON PAGE 28
-  BE CERTAIN ALL FASTENERS ARE PROPERLY SECURED

All fixing holes should be filled with the plastic hole covers (L-66). Insert the plastic caps into the end of the reinforcement plate on the horizontal.



Cleaning, lubrication and safety inspection

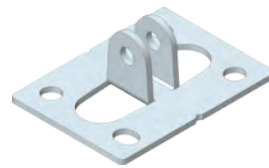
- Twice a year, lightly lubricate all moving parts and track with a suitable 3 Lube.
- Check springs and cable for wear and binding.
- Wash your door every two months with a good quality car shampoo and water to help keep your door looking like new.
- Washing helps remove any corrosive (i.e. Salt) residue that may build up on the surface of your door.
- If you live in a salt air environment this needs carried out monthly – failure to do so may invalidate any potential future warranty claim.
- Coastal exclusions may apply.

Operator bracket installation

TOOLS REQUIRED



PARTS REQUIRED



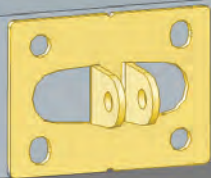
The operator bracket is not supplied with your door. It is included with your operator

FIXINGS REQUIRED



M6 x 25mm
self drill screw

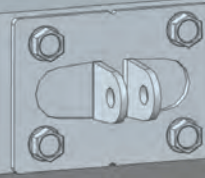
1



M6 x 25mm
self drill screw
Qty 2



2



**BRACKET MUST BE FIXED TO
ALUMINIUM TOP PROFILE**



Call:
Northern Ireland:
UK
Republic of Ireland

028 2565 5555
0870 242 3 242
1850 510 510

Email:
Web:

info@garagedoorsystems.co.uk
www.garagedoorsystems.co.uk

