

## STORAGE & SHELVING SYSTEM - INSTALLATION GUIDE

If you have ordered **storage drawers, shelving, hanging rails** or **shoe racks** this guide will help you install your storage and shelving system, together with the interior design drawing that Wardrobe Doors Direct has supplied with your order. **Please take time to read it through fully prior to the installation of your storage and shelving system.**

### 1. Overview

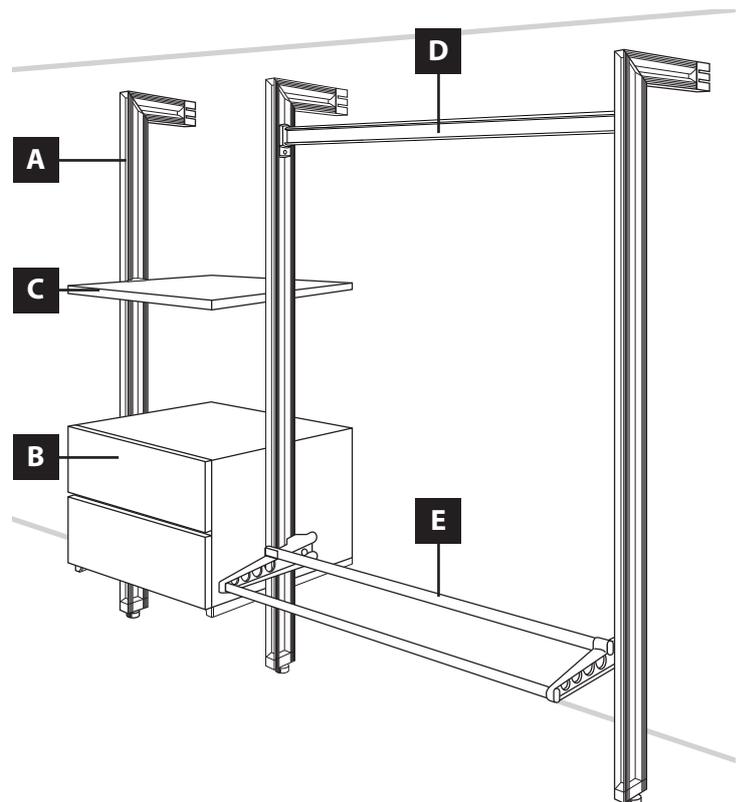
Our storage and shelving system includes the following items and components:

- A** Floor-to-Wall Stanchions
- B** Drawers unit (600 or 900mm wide)
- C** Shelves (600 or 900mm wide)
- D** Hanging Rails\* (600mm or 900mm wide)
- E** Shoe Racks\* (600mm or 900mm wide)

We recommend assembling and installing your storage system prior to installing your sliding wardrobe doors and any framing required for your doors – see **Installation Guide**.

If you are retro fitting a storage system into an existing wardrobe space, we recommend removing all sliding doors from the tracks first, to avoid damaging them and to give you easier access to the back wall.

\* can be cut down in length



### 2. Tools & fixings you will need

#### Tools

- Electric drill
- Masonry Drill Bits (8mm diameter)
- Screwdrivers (crosshead and flat blade)
- Hacksaw (recommended 42 tpi blade to cut stanchions and/or rails)
- Pin Hammer
- Metal File
- Spirit Level
- Set Square
- Tape Measure
- Hexagonal allen key (2mm)

#### Fixings / Materials

- Masonry Wall Plugs
- Masking Tape
- Wet & Dry Sanding Paper
- Screws

### 3. Floor-to-wall stanchions

Depending upon how many 'bays' there are designed into your storage configuration you will have a number of floor-to-wall stanchions within your delivery. Each stanchion pack consists of two parts - a horizontal and a vertical - with fixings to secure them to the back wall and floor - see **Fig A**.

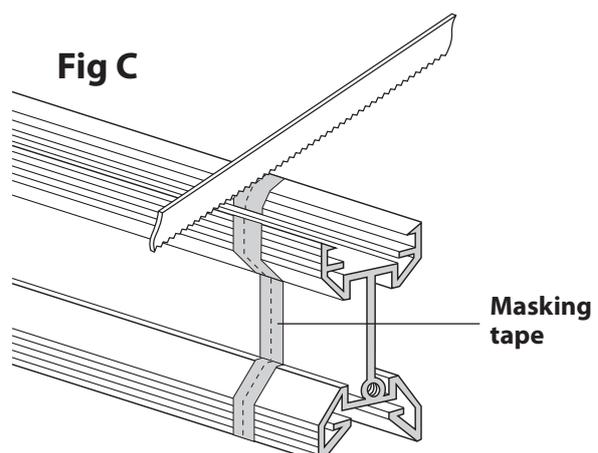
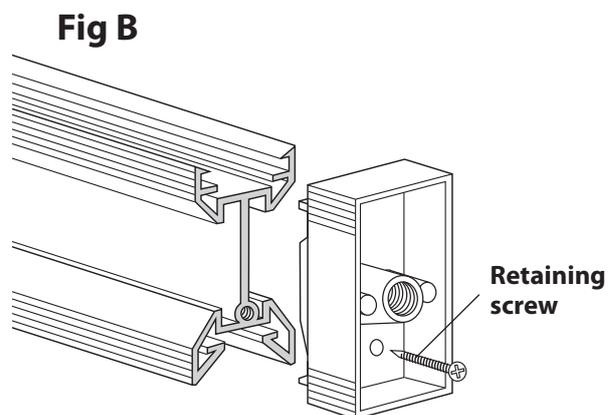
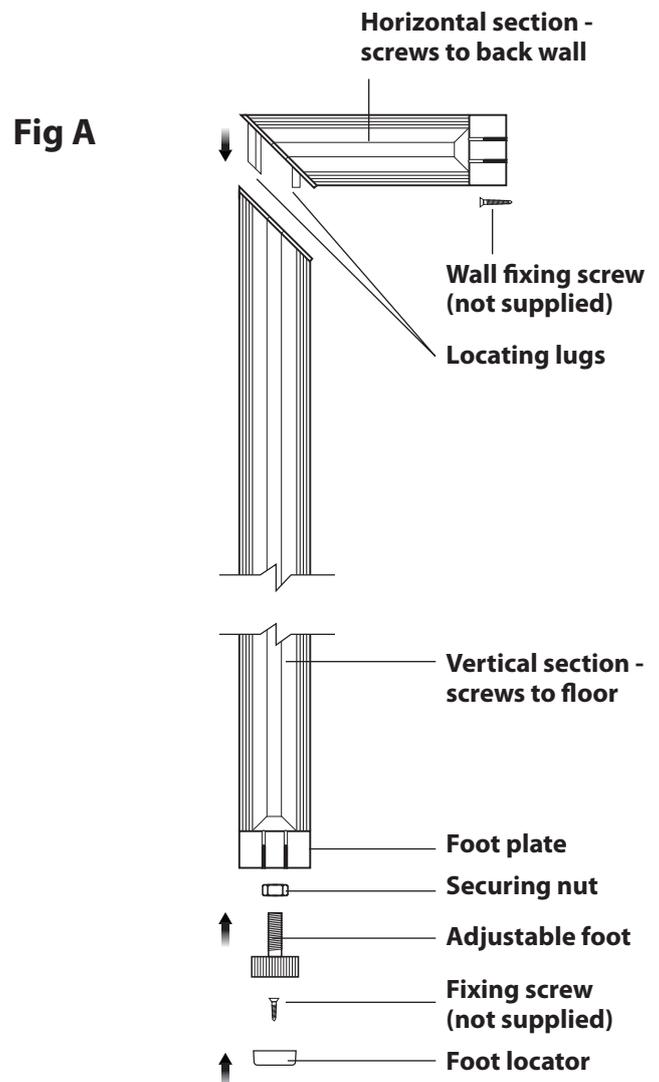
#### 3.1 Cutting stanchions to size

The horizontal section of the stanchion is 250mm in length and we recommend that it is **NOT** shortened any further as it needs to project from the back wall approximately half the depth of the shelves and drawers to provide adequate support for these items. Additionally, any hanging rails need to be positioned approximately 250mm away from the back wall to allow clothes to hang freely and without having to be angled.

The vertical section of the stanchion is 2200mm in length and can be cut to size depending upon the height of your wardrobe installation. If cutting to size is required, first remove the foot plate by unscrewing the retaining screw - see **Fig B**. Using a set square, mark with a pencil, a line around the base of the stanchion at the point it needs to be cut. With a hacksaw, carefully cut the stanchion to the height you require - see **Fig C**.

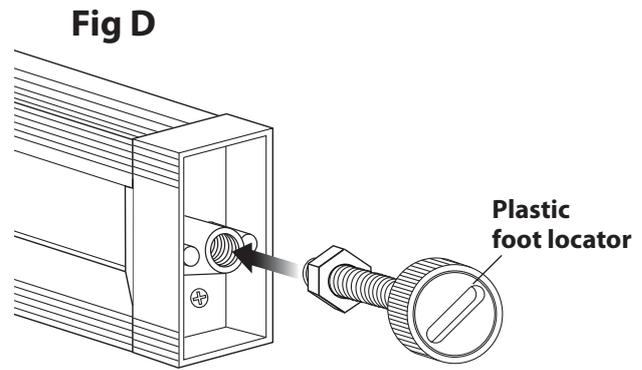
**TIP** To make it easier to mark the position for cutting and to prevent the saw blade skidding it is advisable to wrap masking tape around the stanchion before commencing cutting. Once the stanchion has been cut to size, remove the tape.

For a neat finish, remove any burrs of metal with a fine metal file or with wet and dry sandpaper. Replace the foot plate and secure it using the retaining screw. Repeat the same procedure with any other stanchions to ensure a consistent height is maintained across your installation.



### 3.2 Attaching the adjustable foot

With the adjusting nut attached to the adjustable foot, screw the foot into the threaded hole on the base of the foot plate – see **Fig D**. Repeat this for all the stanchions in your delivery. Remove the plastic foot locator from inside the base of each adjustable foot (use a flat blade screwdriver to ease it out) and keep the foot locators on one side for use later.

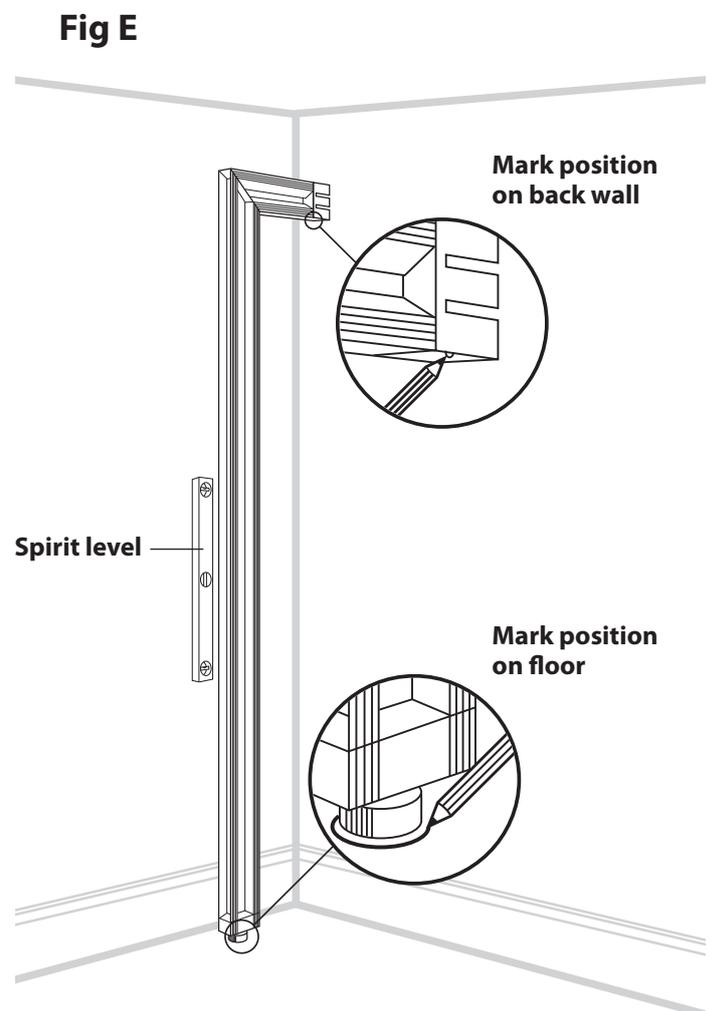


### 3.3 Assembling the stanchions

Assemble the two parts of the stanchion by pushing the locating lugs on the horizontal section into the top of the vertical section.

### 3.4 Erecting and fixing the stanchions

In most cases it is preferable to start erecting the stanchions from the left hand side of your installation. Place the first stanchion in position with the horizontal section resting against the back wall – see **Fig E**. If there is a skirting board at the base of the wall this will have been allowed for on your Wardrobe Doors Direct interior design drawing. Position the first stanchion so that its base abuts the skirting board and using a spirit level check that it is vertical in both directions. Through the small hole on the underside of the horizontal section mark the position on the back wall with a pencil. On the floor, draw around the adjustable foot with a pencil to mark a position for the foot locator. If you are installing the stanchions directly over carpet mark the position of the adjustable foot with masking tape.



Temporarily remove the stanchion. Drill a hole in the back wall at the point you have marked and insert a suitable wall plug. On the floor, position the foot locator in the centre of the ring (or masking tape guides) you have marked and secure it in place using a screw, **but do not overtighten**. Replace the stanchion with the adjustable foot sitting in the foot locator. Offer up the horizontal section so that the small hole is over the hole you have drilled and plugged and secure it in place using another screw. Using a spirit level, check again that the stanchion is vertical in both directions – if necessary, it can be adjusted by gently pushing the foot locator to the desired position on the floor.

Referring to the Wardrobe Doors Direct interior design drawing provided, repeat this same process for as many stanchions as you have for your installation. When all stanchions are in place the heights can be further adjusted if necessary by screwing the adjustable foot up or down. Once all the stanchions have been levelled tighten the securing nut upwards on each foot so that it is contact with the underside of the foot plate.

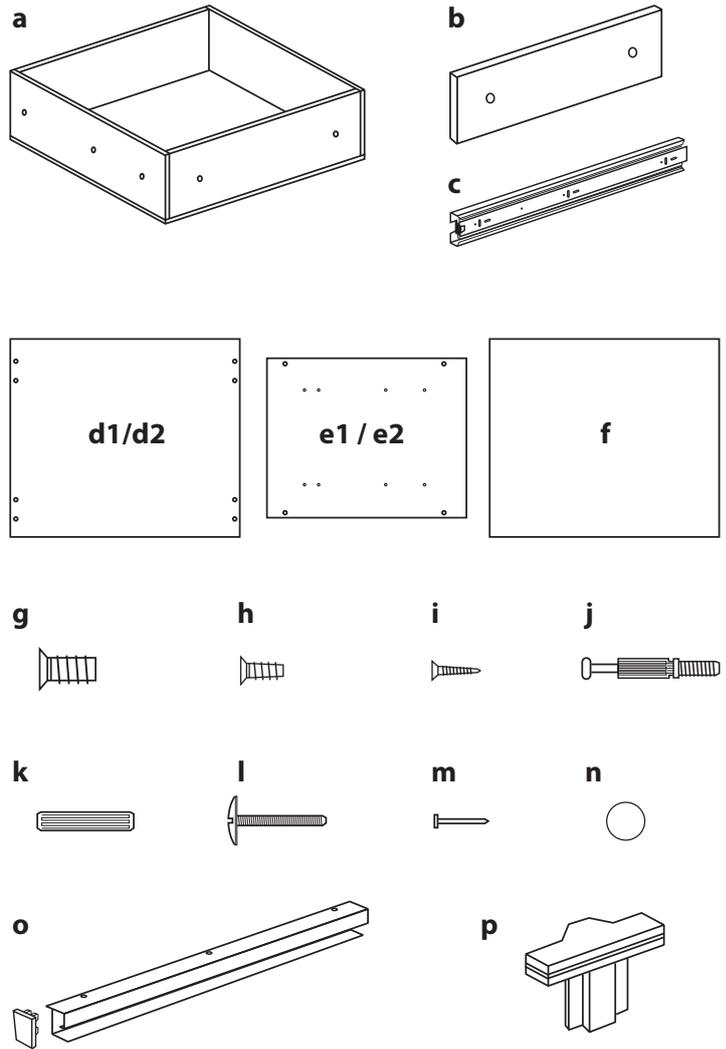
## 4. Assembling a Drawers Unit

Our drawer units come in the following configurations:

- 600mm wide single drawer unit
- 600mm wide two drawer unit
- 900mm wide single drawer unit
- 900mm wide two drawer unit

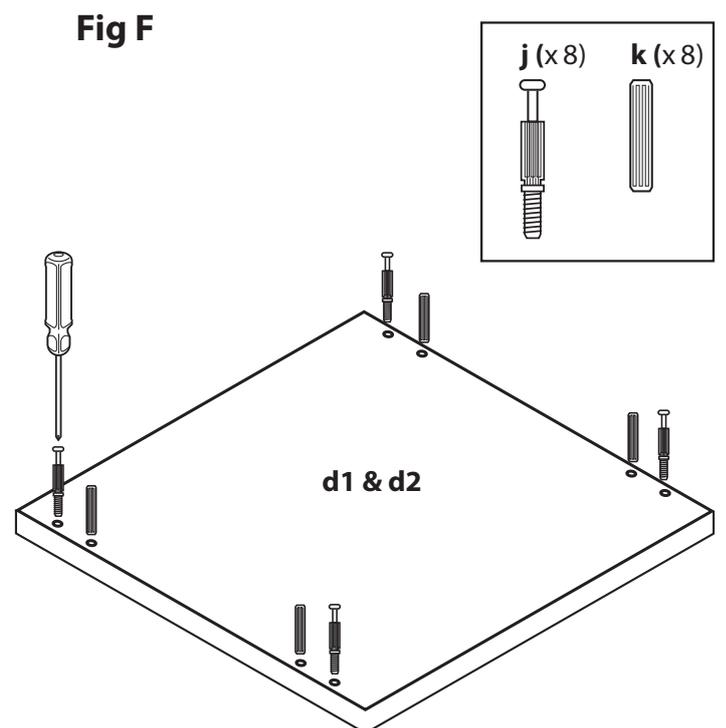
Each drawer unit should contain the following components – please check that you have all the items you require before starting to assemble the unit.

- a** drawer box(es) - ready assembled
- b** drawer front(s)
- c** drawer runners (2 for each drawer)
- d** x 1 cabinet top + x1 cabinet base
- e** x 2 cabinet sides
- f** x 1 cabinet back
- g** fixing screws (to fix drawer runners to side panels)
- h** fixing screws (to fix drawer runners to drawer box)
- i** fixing screws (to fix support rails to cabinet base)
- j** x 8 cam connectors
- k** x 8 fixing dowels
- l** fixing screws (to fix drawer front(s))
- m** panel pins (to fix cabinet back)
- n** x 8 cam coverings
- o** x 2 support rails with end caps
- p** x 2 fixing brackets



### 4.1 Preparing the cabinet base and top panels

Lay the cabinet base (**d1**) and cabinet top (**d2**) on a flat surface with the drilled holes facing upwards. Screw the 8 cam connectors (**j**) into the outermost holes and push the 8 fixing dowels (**k**) into the remaining holes – see **Fig F**.



## 4.2 Preparing the drawer runners

For each single drawer unit there are two drawer runners; for each two drawer unit there are four drawer runners. The drawer runners are universal (ie. not left or right handed) so they can be fitted to either side of the unit. Each drawer runner must be separated into two parts before fixing – one part will be fixed to the side panel of the cabinet and the other to the side of the drawer. To separate the two parts of each drawer runner, follow these steps:

- Hold the drawer runner with the roller bearings side facing you and the black buffer to the left - see **Fig G(i)**.
- Push firmly against the central section to release it from the black buffer and slide the whole central section of the drawer runner to the right as far as it will go - see **Fig G(ii)**.
- Flip the drawer runner over so that the roller bearings side is now facing away from you.
- At the slimmest end of the drawer runner you will see a black retaining peg; push upwards against this peg and at the same time pull the slim section away from the other part of the drawer runner until it detaches - see **Fig G(iii)**.

Of the two parts, the larger one attaches to the inside of the cabinet side panel (**e**) - see **4.3**; the smaller one attaches to the side of the drawer box (**a**) - see **4.4**. Repeat the above steps to separate all the remaining drawer runners in two separate parts.

## 4.3 Fixing the drawer runners to the cabinet sides

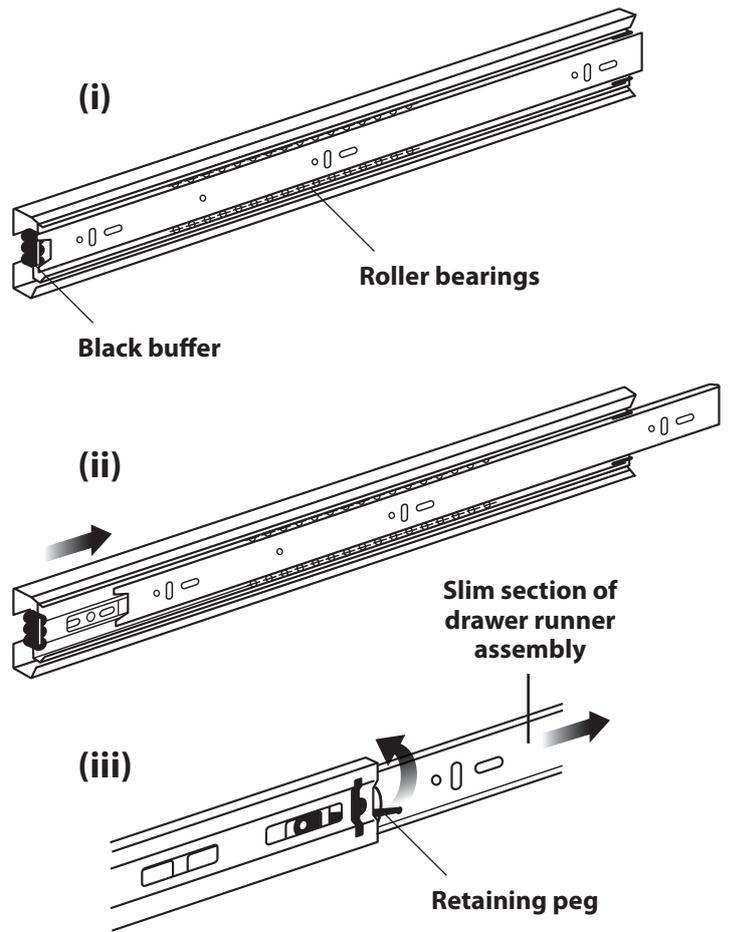
Lay one of the cabinet sides (**e1**) on a flat surface with the pre-drilled holes facing upwards. Take one of the larger sections of the drawer runners and position it over the top set of pre-drilled holes (if you have a two drawer unit) so that both sets of holes match up. Screw the drawer runner to the side panel (see **Fig H**) using four of the large fixing screws (**g**).

**Note:** Figure H shows the positioning of drawer runners for a two drawer unit; if your unit has only a single drawer there will only be one set of pre-drilled holes in the side panel.

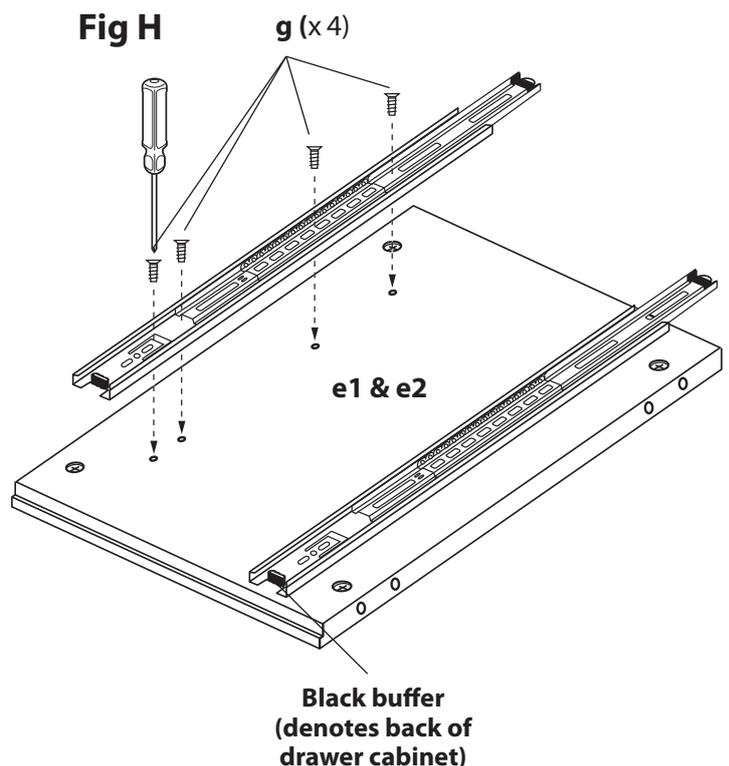
Repeat the above process to fix the remaining drawer runner(s) to the cabinet sides.

**Important:** When the drawer runners have been fixed in place, the position of the black buffer will indicate which edge is the back of the drawer cabinet.

**Fig G**



**Fig H**



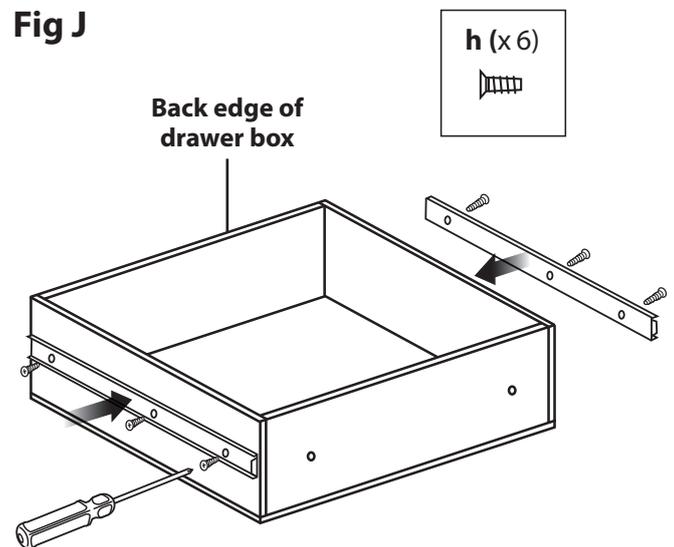
#### 4.4 Fixing the drawer runners to the drawer box sides

On each side of the drawer box (**a**) lay the smaller section of the drawer runners and position them over the set of pre-drilled holes so that both sets of holes match up. Screw each of the drawer runners to the side of the drawer box using three of the small fixing screws (**h**).

Repeat this process for the other drawer box.

**Note:** Ensure the open end of the small section of the drawer runner is fixed towards the back edge of the drawer box - see **Fig J**.

**Fig J**

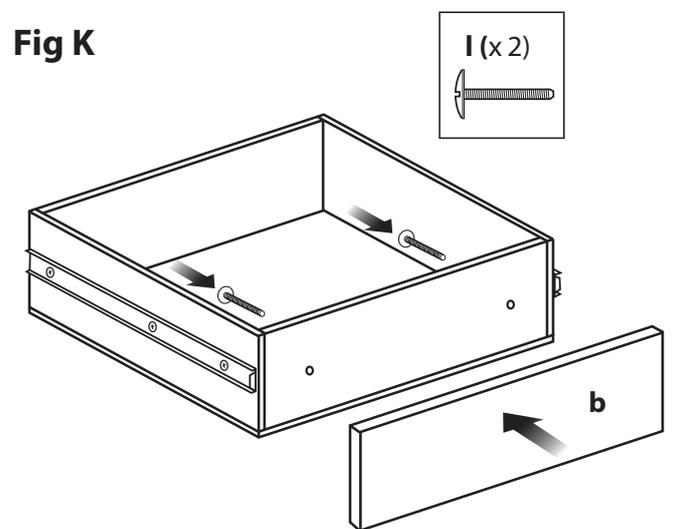


#### 4.5 Attaching the drawer fronts

Use two of the bolts (**l**) and push them from the inside of the drawer box through the pre-drilled holes in the front face of the drawer. Match up the ends of the bolts with the pre-drilled holes in the drawer front (**b**) and secure the drawer front by screwing the bolts from the inside of the drawer - see **Fig K**.

Repeat this process for the other drawer box.

**Fig K**



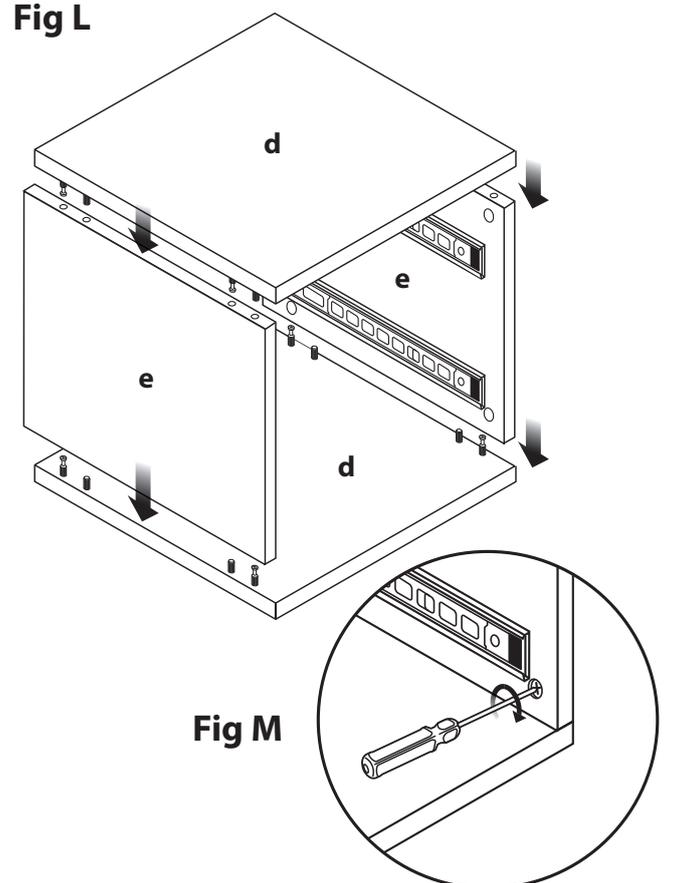
#### 4.6 Assembling the sides with the top and base

Fit the two side panels (**e**) to the base panel (**d1**) ensuring that the cam connectors and fixing dowels engage with the pre-drilled holes in the bottom edges. Then fit the top panel (**d2**) in place, again ensuring the cam connectors and fixing dowels engage with the pre-drilled holes in the top edges of each side panel - see **Fig L**.

Using a screwdriver, tighten the metal cams at each of the corners of the side panels by turning them clockwise, to secure all the four panels together - see **Fig M**.

Then, using the cam coverings (**n**) cover the heads of the eight cams on the inside of the cabinet.

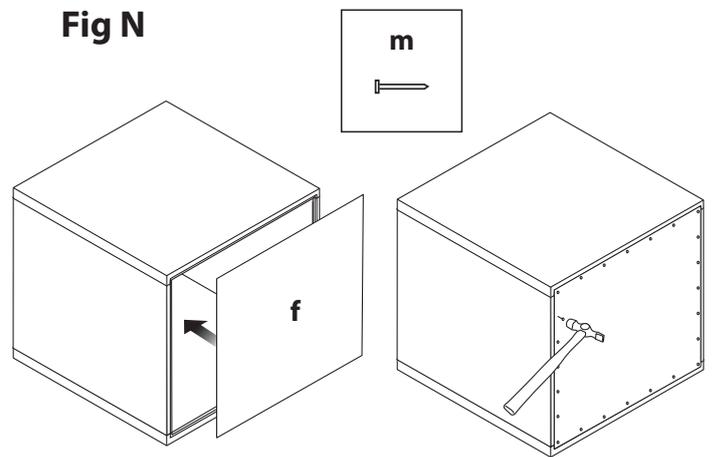
**Fig L**



**Fig M**

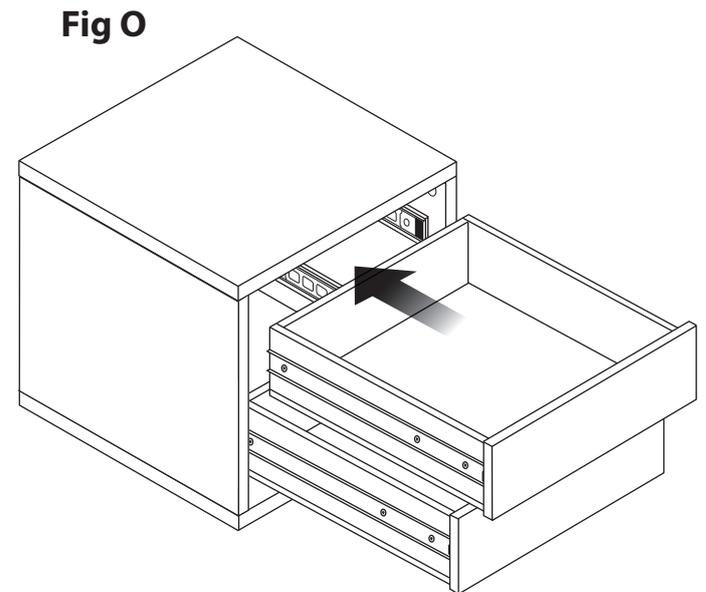
#### 4.7 Fitting the back panel and cam covers

Place the back panel (**f**) into the recessed area at the rear of the cabinet and secure in place with a pin hammer, using the panel pins (**m**) - see **Fig N**.



#### 4.8 Fitting the drawers

Each of the drawers can now be fitted by locating the drawer runner on each side with the drawer runners within the cabinet and pushing each drawer fully into the cabinet. You will hear a click as the retaining clip on each drawer's runners engages with the runners in the cabinet, so locking the two parts back together again - see **Fig O**.



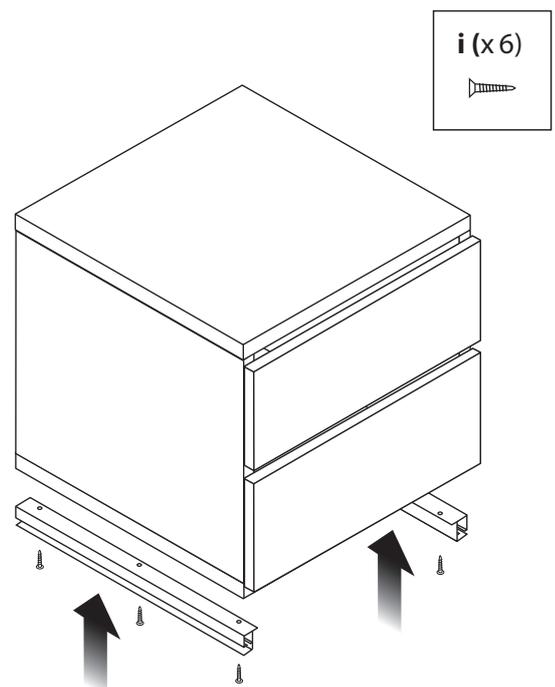
## 5. Fitting a Drawers Unit

#### 5.1 Attaching the support rails

Each drawers unit requires two support rails (**o**) to be fitted before it can be installed within the stanchions. Screw one support rail to the right hand side base of the drawers unit using three of the screws (**i**) provided; screw the other support rail to the left hand side base of the drawers unit.

**Note:** the flanged side of each support rail should face outwards from the unit - see **Fig P**.

**Fig P**



### 5.1 Fitting the fixing brackets

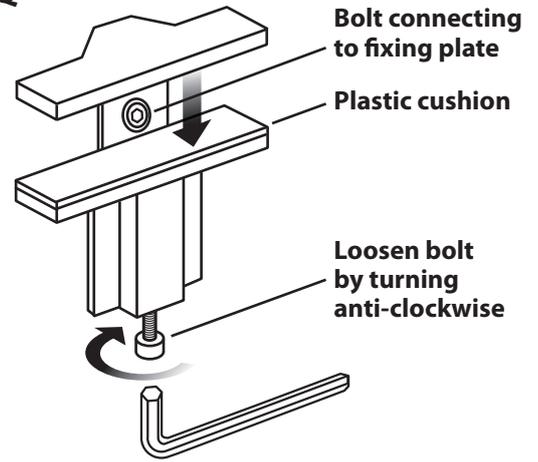
After deciding what height you wish your drawers unit to be fixed to the stanchions you will first need to fit a fixing bracket (p) to each stanchion to support the drawers unit.

Using the allen key provided, loosen the bolt in the base of the fixing bracket until the bottom section of the bracket can be lowered enough to reveal a second bolt that connects to the fixing plate - see **Fig Q**.

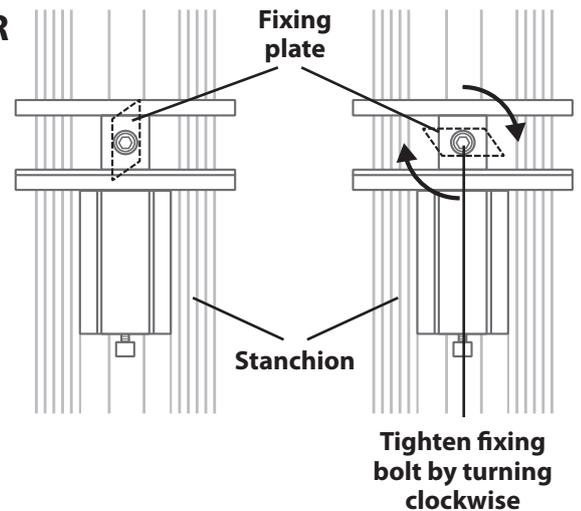
Position the fixing bracket in the channel of the stanchion at the height that you wish the base of the drawers unit to be supported, ensuring the small fixing plate at the rear of the bracket is vertical and sits within the channel of the stanchion. Then, using the allen key, tighten the bolt for the fixing plate in a clockwise direction; this will cause the fixing plate to rotate, so locking the bracket to the stanchion - see **Fig R**.

Repeat this process on the next stanchion with the second fixing bracket. Using a spirit level, check that both brackets are positioned at the same height on their respective stanchions. Using the allen key, tighten the bottom bolt in each bracket (by turning clockwise) so that the gap between the plastic cushion and the top part of the bracket is approximately 5mm.

**Fig Q**



**Fig R**



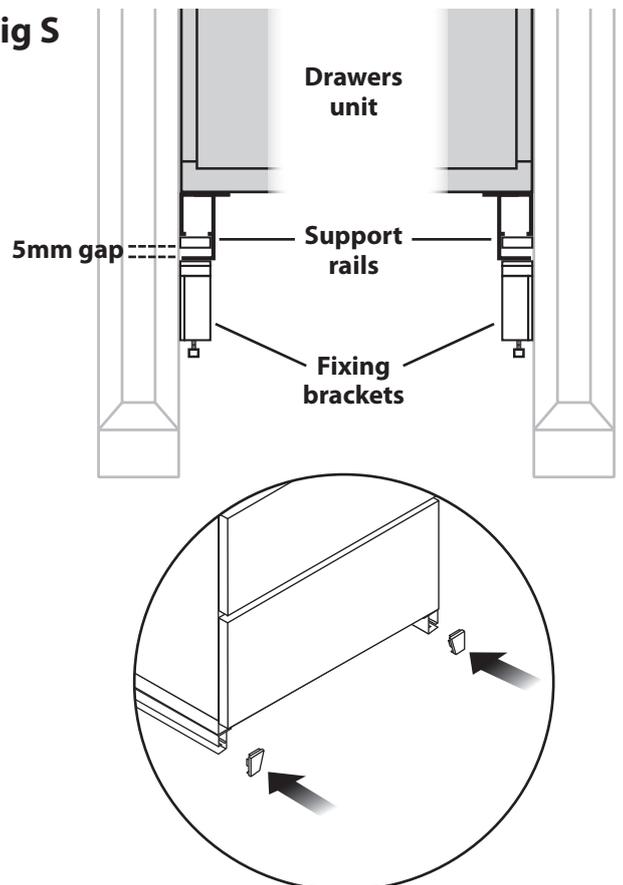
### 5.2 Installing the drawers unit

To make handling easier, we recommend that the drawers themselves are removed from the unit before installing it between the stanchions. Carefully slide the unit between the two stanchions, ensuring that the flanges on the support rails slide into the 5mm gap left in the fixing bracket - see **Fig S**.

Position the unit centrally within the depth of the installation - ie. the verticals of the stanchions should be approximately half way along each side of the drawers unit (see illustration on **page 1**). Using the allen key provided, tighten the bottom bolt of each fixing bracket so that the flange on each support rail is gripped firmly. Using a spirit level, check again that the unit is sitting horizontally between the two stanchions before replacing the drawers.

For a neat finish, fit the end caps to the support rails - these simply push in to each end of the support rail.

**Fig S**

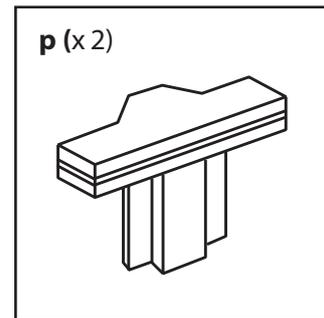


## 6. Fitting a Shelf

The shelf uses two fixing brackets (p) to support it.

### 6.1 Fitting the fixing brackets

Follow the instructions in the preceding section 5.1 to loosen the brackets to allow them to be fixed to the stanchions. Using a spirit level, ensure that both brackets are fixed at the same height to their respective stanchions. Using the allen key, loosen the bottom bolt in each bracket (by turning clockwise) so that the gap between the plastic cushion and the top part of the bracket is approximately 25mm.

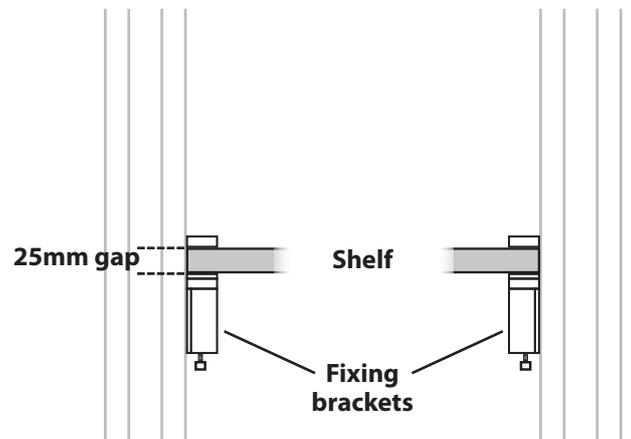


### 6.2 Installing the shelf

Carefully slide the shelf between the two stanchions, ensuring that each side slides into the 25mm gap left in the fixing bracket - see Fig T.

Position the shelf centrally within the depth of the installation - ie. the verticals of the stanchions should be approximately half way along each side of the shelf (see illustration on page 1). Using the allen key, tighten the bottom bolt of each fixing bracket so that the shelf is gripped firmly. Finally, using a spirit level, check again that the shelf is sitting horizontally between the two stanchions.

Fig T



## 7. Fitting a Hanging Rail

Hanging rails are supplied in 600mm or 900mm lengths but can be cut to shorter lengths if required.

### 7.1 Cutting a hanging rail to size

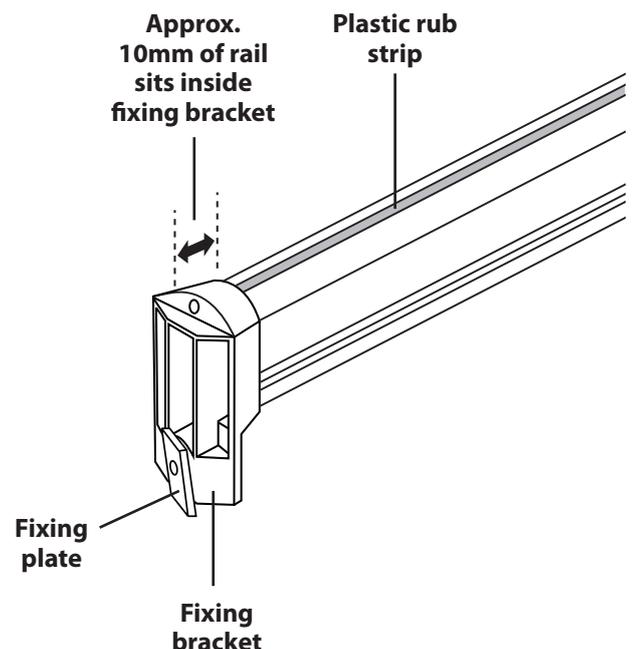
If you need to reduce the length of your hanging rail, cut it to size referring to the instructions in section 3.1 for cutting with a hacksaw.

To determine the length your hanging rail needs to be cut to, follow these steps:

- Measure the internal distance between the two stanchions you wish to fit the hanging rail between.
- From this measurement subtract **6mm**.
- Cut your hanging rail to this length.

#### Example:

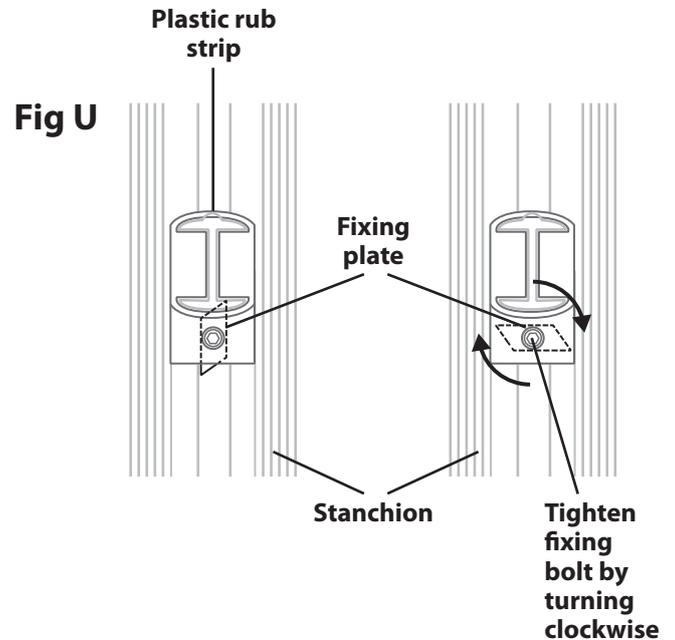
- Distance between stanchions: **860mm**
- Subtract 6mm: **860 - 6 = 854mm**
- Cut hanging rail to **854mm length**



## 7.2 Installing the hanging rail

Fit the fixing brackets to each end of the hanging rail by simply pushing on and tightening the small grub screw using a small allen key (not supplied).

Ensuring that the clear plastic rub strip on the rail is uppermost, insert the fixing bracket at one end of the hanging rail into the bevelled channel in one of the stanchions. Ensure that the fixing plate on the rear of the bracket sits vertically within the channel in the stanchion. Manoeuvre the other end of the hanging rail into the channel of the second stanchion and slide the complete rail up or down to the desired position. Use a spirit level to check that the rail is positioned horizontally and then, using the allen key supplied, turn the bolts on the underside of the hanging rail clockwise in each fixing bracket to lock the rail into position - see **Fig U**.



## 8. Fitting a Shoe Rack

Shoe racks are supplied at 600mm or 900mm lengths but can be cut to shorter lengths if required.

### 8.1 Cutting a shoe rack to size

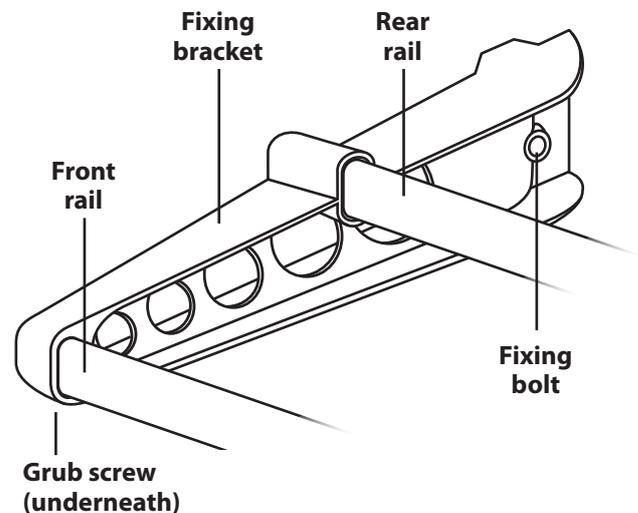
If you need to reduce the length of the rails of your shoe rack, cut them to size referring to the instructions in section 3.1 for cutting with a hacksaw.

To determine the length your shoe rack rails need to be cut to, follow these steps:

- Measure the internal distance between the two stanchions you wish to fit the shoe rack between.
- From this measurement subtract **6mm**.
- Cut your shoe rack rails to this length.

#### Example:

- Distance between stanchions: **575mm**
- Subtract 6mm: **575 - 6 = 569mm**
- Cut shoe rack rails to **569mm length**.



## 8.1 Installing the shoe rack

There are two options for positioning your shoe rack:

**Option 1:** The shoe rack can be positioned so that it projects in front of the stanchions.

**Option 2:** The shoe rack can be positioned so that it sits behind the stanchions.

If you have ordered more than one shoe rack it is possible to fit one that projects in front of the stanchions and a second that sits behind the stanchions - see **Fig V** for positioning of the fixing brackets.

To install a shoe rack in either of the above two positions first fit the two rails into one of the end brackets and tighten the grub screw for the rail at the narrower end of the bracket using a small allen key (not supplied). Fit the second fixing bracket and again, tighten the grub screw for the front rail.

### Option 1 Installation (in front of stanchions)

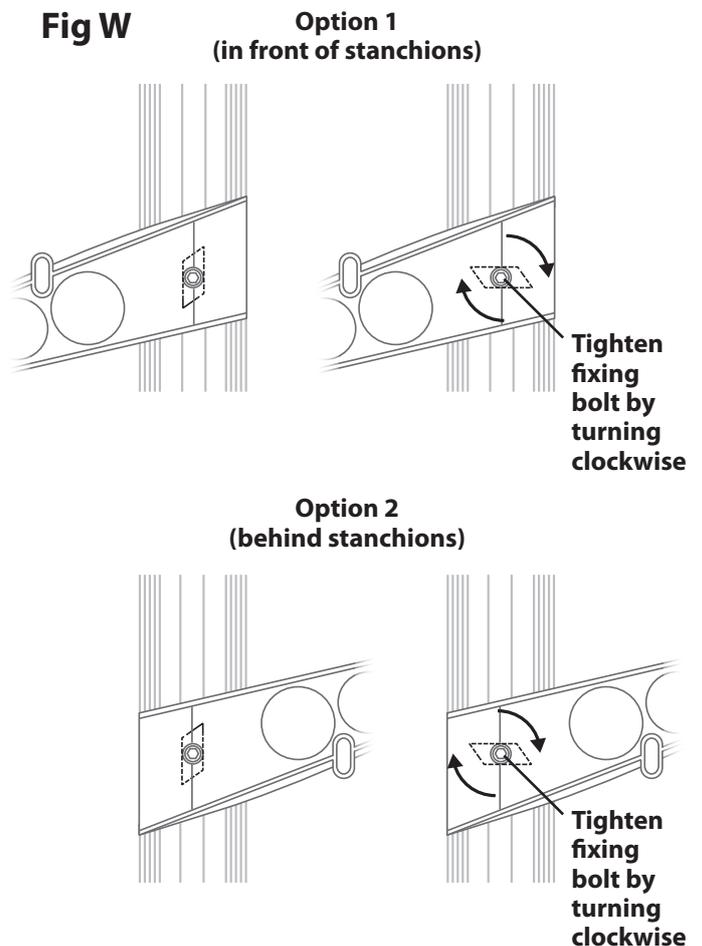
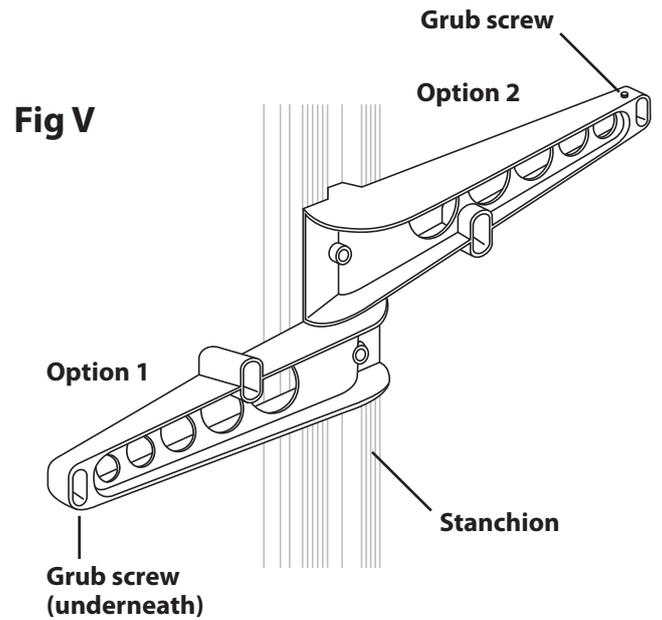
Insert the fixing bracket at one end of the shoe rack into the bevelled channel in one of the stanchions, so that the shoe rack is sloping **downwards** and **towards you**.

Ensure that the fixing plate on the rear of the bracket sits vertically within the channel in the stanchion. Manoeuvre the other end of the shoe rack into the channel of the second stanchion and slide the complete shoe rack up or down to the desired position. Use a spirit level to check that the shoe rack is positioned horizontally and then, using the allen key provided, turn the bolts on the rear of each of the fixing brackets clockwise to lock the shoe rack in place - see **Fig W**.

### Option 2 Installation (behind stanchions)

Insert the fixing bracket at one end of the shoe rack into the bevelled channel in one of the stanchions, so that the shoe rack is sloping **upwards** and **away from you**.

Repeat the same process as above to fix the shoe rack in place - see **Fig W**.



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The information provided herein is intended as a guide to good practice. Wardrobe Doors Direct cannot be held responsible or liable for any damage, wear or malfunction caused to components due to inadequate or improper installation.

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