B-TECH
BETTER BY DESIGN

BT8373

SYSTEM X™

UNIVERSAL CURVED VIDEOWALL STAND
INSTALLATION GUIDE & PARTS LIST

This Pack Contains 1 Stand

FEATURES

- Universal design suitable for all videowall screens
- Suitable for videowall screens from 39" - 70"
- Max weight per screen: 50kg (110lbs)
- Designed for screens with VESA® & non-VESA mounting patterns
- Tool-less micro-adjustments for seamless screen alignment
- Easy to use angle adjustment with a range up to +/-45
- Universal screen position spacer to speed up the installation process
- Includes adjustable levelling feet
- Integrated cable management
- Safety screws help prevent unauthorised removal of screens
- All mounting hardware included

70"
177cm

50kg
Per Screen

CONTENTS

INSTALLATION TOOLS REQUIRED

Crosshead screwdriver

10mm Spanner

Level

Knife

B-TECH AV MOUNTS
www.btechavmounts.com

INSTALLATION SAFETY INSTRUCTIONS

⚠ **CAUTION:** This stand is intended for use only with the maximum weights indicated. Use with flat screens heavier than the maximum indicated may result in instability causing possible injury.

Do not attempt to install this product until all instructions and warnings have been read and properly understood. Please keep these instructions for future reference.
Please check carefully to make sure there are no missing or defective parts - defective parts must never be used.
B-Tech International Design & Manufacturing Ltd, its distributors and dealers are not liable or responsible for damage or injury caused by improper installation, improper use or failure to observe these safety instructions. In such cases, all guarantees will expire.

General

Great care must always be taken during installation as most AV equipment is of a fragile nature, possibly heavy and easily damaged if dropped.
If you do not fully understand the instructions or are not sure how to install this product safely, then please consult a professional for advice and/or to install this product for you. Failure to mount this product correctly may cause serious injury or death both during installation and at any time thereafter.
Do not mount any AV equipment that exceeds the specific weight limit of the product you are installing. This weight limit will be clearly stated on each product and its packaging and will vary from product to product.

Product location

Please pay careful attention to where this product is located, some locations are not suitable for installation. For indoor use only. Install stand on level ground. When verifying the stability of the structure, consider the following external factors: The strength of the floor, exposure to sudden and severe wind and danger arising from contact with people and / or objects (eg installations in passageways, emergency exits), if located in a public or frequently populated area ensure that the product is out of the immediate reach of people.

Fixing hardware

It is highly recommended that all fixing screws be used where supplied and that the purpose of all other fixing hardware is fully understood. In some cases more AV equipment fixing hardware will be supplied to accommodate different models of equipment and set up configurations.
The installer must be satisfied that any supplied fixing hardware is suitable for each specific installation. If any fixing screws or included hardware are deemed not sufficient for a safe installation then please consult a professional or your local hardware store.

Hazard limitation

When routing cables take advantage of any built in cable management features that the product might provide and ensure that all cables are tidy and secure. Check to see that any moving aspect of the product can do so unhindered by any cabling.
Some products have moving parts and the potential to cause injury through the crushing or trapping of fingers or other body parts.
Particular attention to the nature of moving parts is required especially when assembling installing and adjusting during set up.
Immediately after installations double-check that the work done is safe and secure. Double-check all necessary fixings are present and are of ample tightness.
It is recommended that periodic inspections of the product and its fixing points are made as frequently as possible to ensure that safety is maintained. If in doubt consult a professional AV installer or other suitably qualified person.

CS

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FR

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RU

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توصي بي- تك للتجارة الدولية المحدودة بأن شخص محترف فى تركيب ال AV او شخص مؤهل تأهيلا مناسبا لتركيب هذا المنتج . بي- تك للتجارة الدولية، موزعيها والتجار ليست عرضة أو مسؤولة عن الأضرار أو الإصابات الناجمة عن تركيب غير سليم، والاستخدام غير السليم أو عدم مراعاة هذه التعليمات للسلامة. يجب أن يتم تركيب هذا المنتج فى بنية مناسبة ويجب استخدامة فقط لدعم الحد الأقصى للوزن المشار إليه.

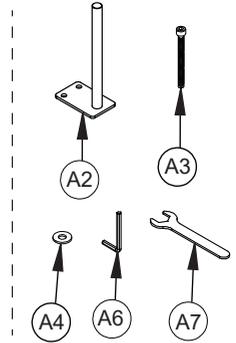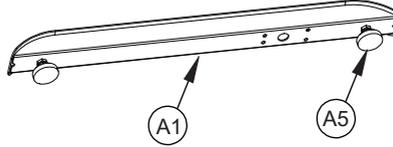Due to the multiple installations available each option below is dependent on the stand ordered.

PLEASE KEEP THIS FOR FUTURE REFERENCE

Ⓐ BASE

BT8380-BASE

ITEM	PART NAME	QTY PER PACK
A1	BASE	1
A2	SUPPORT STEM	1
A3	M8 x 90mm SCREW	4
A4	M8 WASHER	2
A5	LEVELLING FOOT	2
A6	6AF HEX KEY	1
A7	24mm SPANNER	1

Ⓑ COLUMN

BT8380-180 Height: 180cm	BT8380-060 Height: 60cm

ITEM	PART NAME	QTY PER PACK
B1	VERTICAL COLUMN	1
B2	END CAP*	1
B3	CABLE COVER	3
B4	PLASTIC SLOT INSERT	4
B5	M8 SLIDING NUT*	2
B6	M8 x 12mm SCREW*	2
B7	COLUMN JOINER**	4
B8	GRUB SCREW**	16
B9	M6 x 10mm HEX BOLT**	8
B10	3AF HEX KEY**	1

*Supplied with the BT8380-180
**Supplied with the BT8380-060
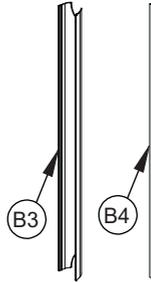
*Optional
*To fix shelves to a column

**Column Extension Kit

Ⓒ JOINING PLATE

BT8380-JPK

ITEM	PART NAME	QTY PER PACK
C1	JOINING PLATE	1
C2	M8 SLIDING NUT	8
C3	M8 x 12mm SCREW	4
C4	5AF HEX KEY	1
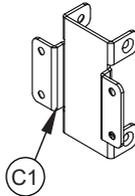
Ⓓ MOUNTING RAIL

BT8390-050 Length: 50cm	BT8390-070 Length: 70cm
BT8390-150 Length: 150cm	BT8390-175 Length: 175cm
BT8390-200 Length: 200cm	BT8390-300 Length: 300cm

ITEM	PART NAME	QTY PER PACK
D1	MOUNTING RAIL	1
D2	END CAP	2
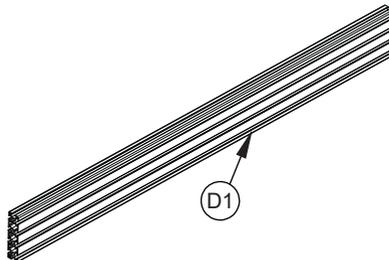
E ANGLE ADJUSTMENT CONNECTOR

BT8390-AAC

ITEM	PART NAME	QTY PER PACK
E1	ANGLE CONNECTOR	1
E2	M8 x 16mm SCREW	4
E3	M8 WASHER	12
E4	M8 x 12mm SCREW	8
E5	M8 SLIDING NUT	8
E6	5AF HEX KEY	1
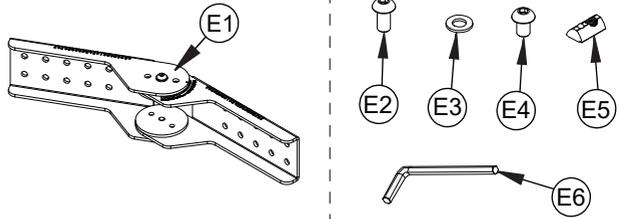
F SPACER

BT8390-SP

ITEM	PART NAME	QTY PER PACK
F1	SPACER	1
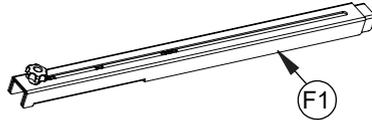
G INTERFACE KIT

ITEM	PART NAME	QTY PER PACK
G1	LEFT INTERFACE ARM	1
G2	RIGHT INTERFACE ARM	1
G3	ADJUSTABLE BRACE*	1
G4	M5 x 6mm SCREW*	2
G5	M6 x 35mm SCREW*	2
G6	3AF HEX KEY*	1
G7	4AF HEX KEY*	1
G8	5AF LONG HEX KEY	1

ITEM	SCREEN FIXING KIT	QTY PER PACK
A	M6 x 16mm SCREW	4
B	M6 x 25mm SCREW	4
C	M6 x 40mm SCREW	4
D	M8 x 16mm SCREW	4
E	M8 x 25mm SCREW	4
F	M8 x 40mm SCREW	4
G	5mm SPACER	4
H	13mm SPACER	4
I	24mm SPACER	4
J	M6 WASHER	4
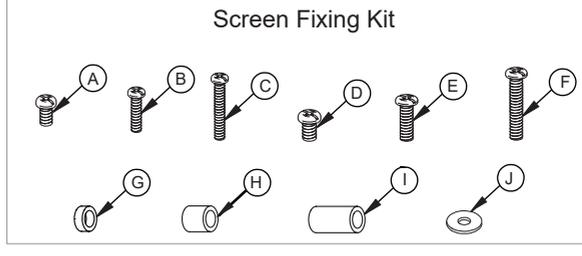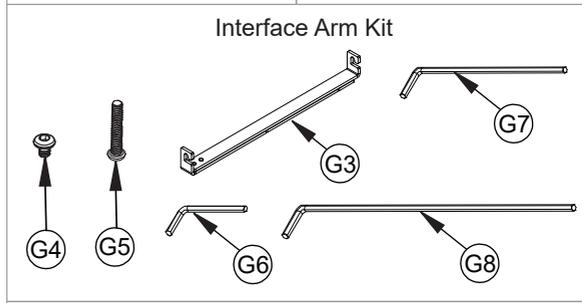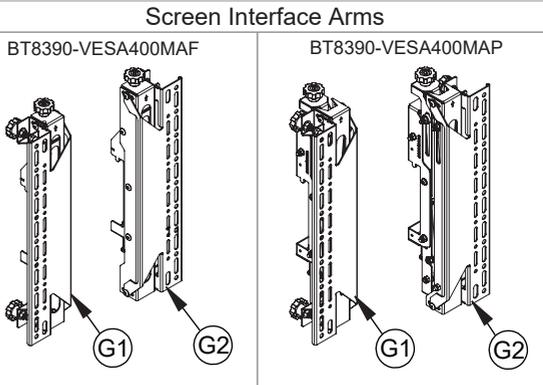
*Only supplied with the BT8390-VESA400MAP

Screen Interface Arms

BT8390-VESA400MAF

BT8390-VESA400MAP

Interface Arm Kit

Screen Fixing Kit

H OPTIONAL INTERFACE ADAPTOR ARMS

BT7564	BT7565	BT7566
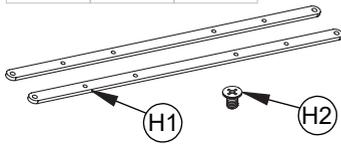
ITEM	PART NAME	QTY PER PACK
H1	ADAPTOR ARMS	2
H2	M8 x 12mm SCREW	4

Please refer to individual parts list for more information

INSTALLATION NOTES
FLOORSTAND STABILITY

⚠ **! ! ! WARNING - DANGER ! ! !** ⚠

• Install stand on level ground • Minimum two person assembly

When verifying the stability of the structure, consider the following external factors:
1. The strength of the floor.
2. Exposure to sudden and severe wind.
3. Danger arising from contact with people and / or objects. (eg installations in passageways, emergency exits).

DEPTH DIMENSIONS		
INTERFACE ARM	A	B
BT8390-VESA400MAF	500.9mm*	449.1mm*
BT8390-VESA400MAP *(Closed)*	481.6mm*	468.4mm*

*+/-10mm Micro-Adjustment
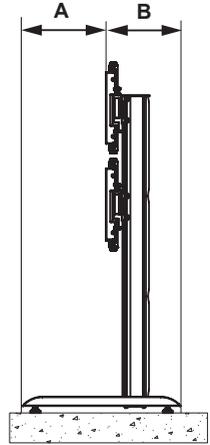
OPTIONAL ACCESSORIES

Cable Management Clip BT8390-CMC

Attach the *BT8390-CMC* cable management clips directly to item D1 to orgaise screen cables for a neat and tidy installation.

D1

BT8390-CMC
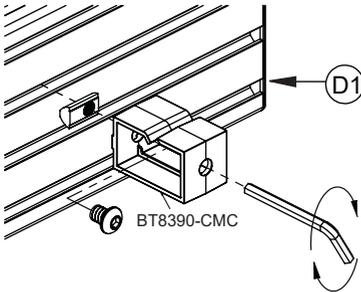
AV Component Shelfs

Mount a B-Tech shelf to item B1 using items B6 & B5. Use a *BT8390-SA* shelf adaptor to mount shelves to item D1.

BT7033

B1
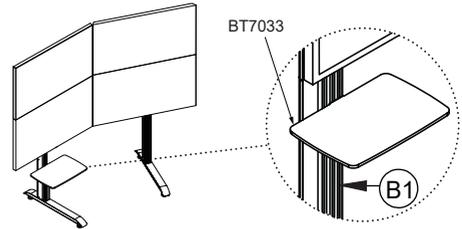
Floor Fixing Kit   BT8380-FBFK

Using suitable fixings and floor anchors, attach a floor base fixing bracket to the front and back of each item A1.
Note: The Floor Fixing Kit can only be used when the levelling feet are attached to the base.

BT8380-FBFK

A1

CONCRETE FLOOR
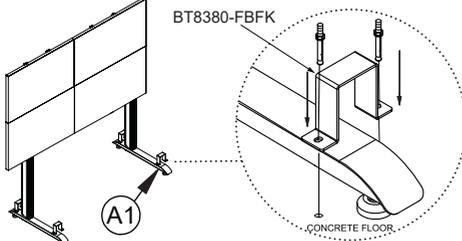
Wall Tie-Back   BT8380-WTB

For larger installations attach a *BT8380-WTB* Wall Tie-Back to item B1 and secure to a wall.

BT8380-WTB

B1
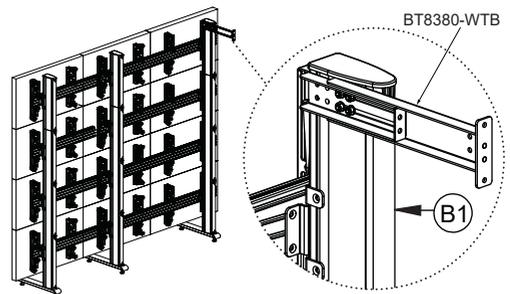
OPTIONAL: EXTENDING THE COLUMNS

i. Insert items B7 halfway into the
   non-threaded end of item B1.
   The two joining bars with grub screws go in
   the front of the column and the 2 joining
   bars with hex bolts go in the back.

B7

IMPORTANT: Joining bars should be
inserted into the non-threaded end of
the 180cm column.

B1

THREADS

X

- -
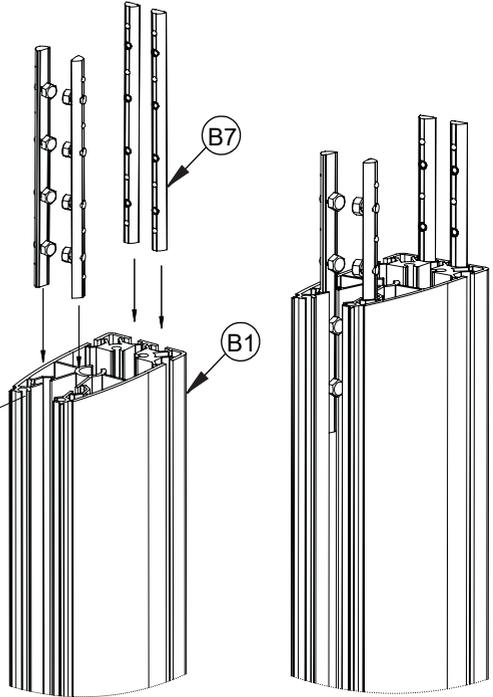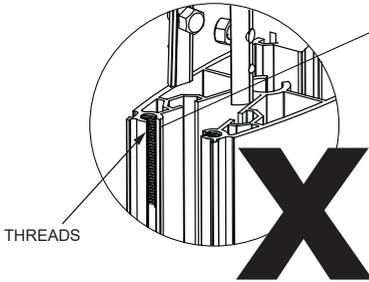
Front of Column

ii. The two joining bars with grub
    screws in the front of the column.
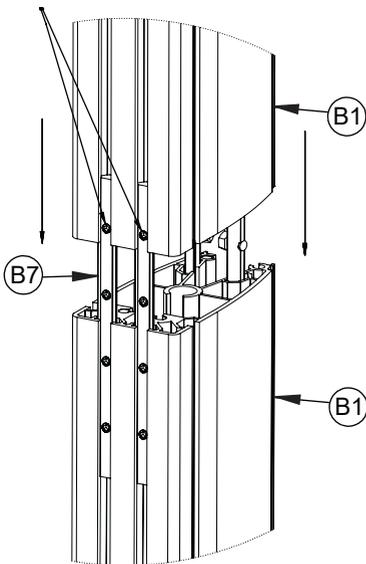
Back of Column

The two joining bars with hex
bolts in the rear of the column.
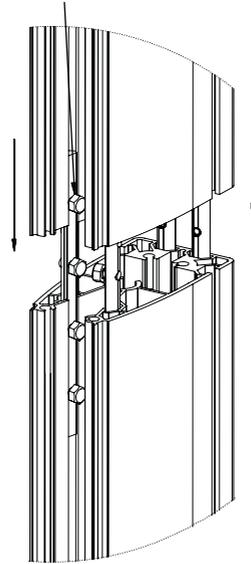
Tighten hex bolts by hand.
Finish tightening using a
10mm spanner.

B1

B7

B1

THREADED
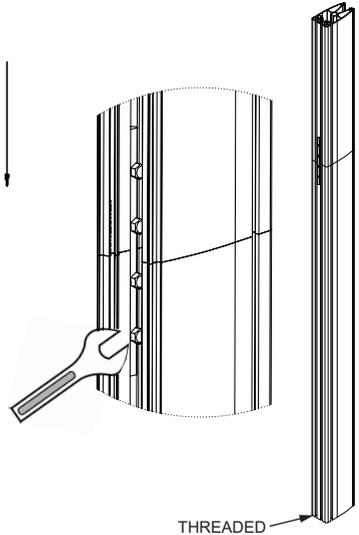
INSTALLATION INSTRUCTIONS

1 **Attach Joining Plate to Column**

i. Connect together four item C3 with item C2 onto each item C1 using item C4.

ii. Lay items B1 on the floor and slide two item C1 onto each item B1.

i.

ii.

C4

C2

C3

C1

C1

B1

C1

C1

C2

C3

B1
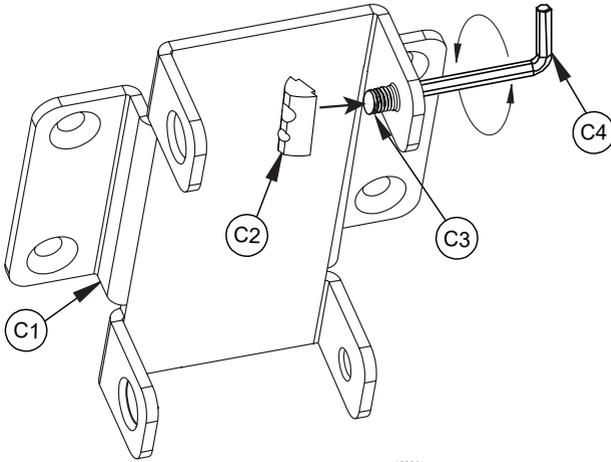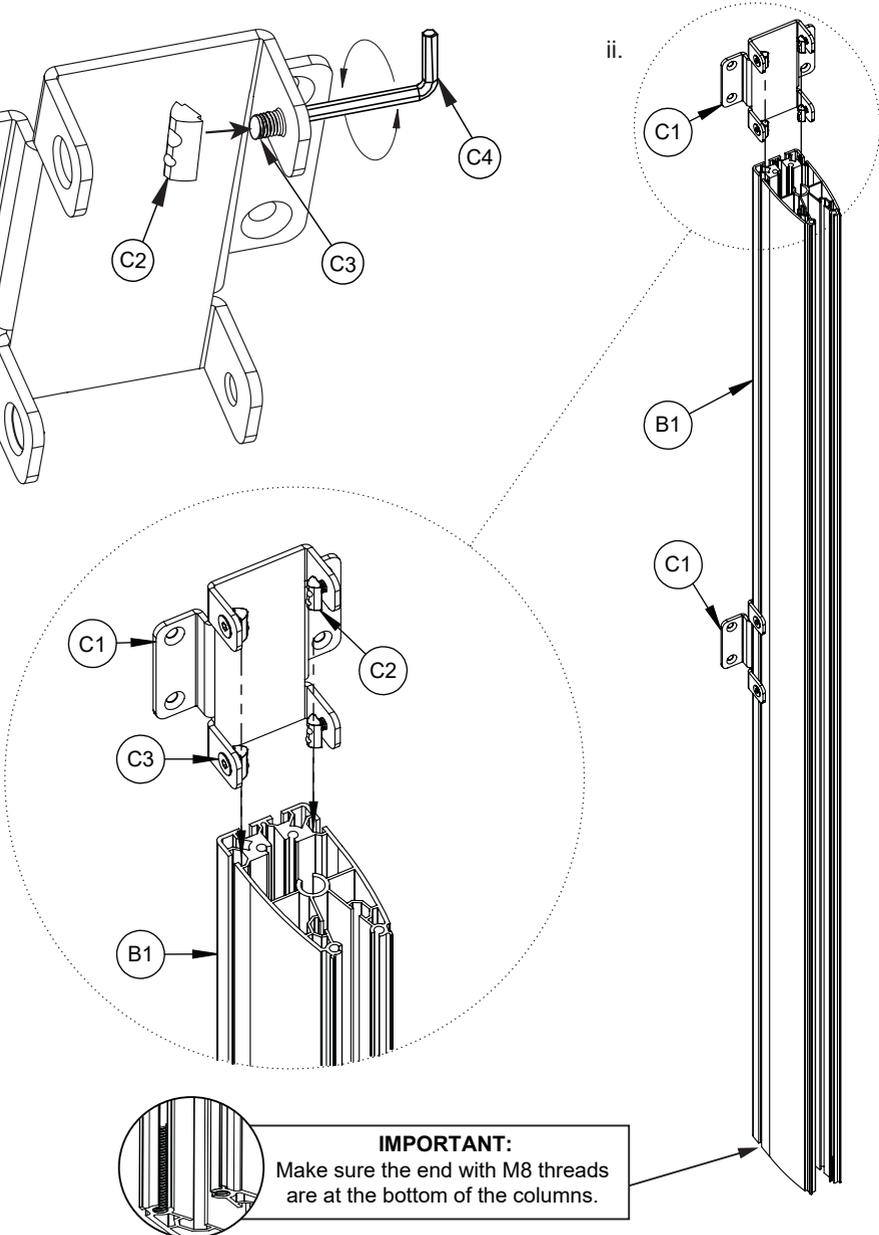
IMPORTANT:
Make sure the end with M8 threads
are at the bottom of the columns.

iii. Use item F1 to set the distance between items C1 on item B1 according to the screen size.
Once set, tighten item C3 with item C4.

F1

46 INCH
1026 x 580

C1

C1

F1

ADJUSTMENT
KNOB

B1

C1

Leave at least
a 5mm gap at
top of column
for item B4

C3

C4
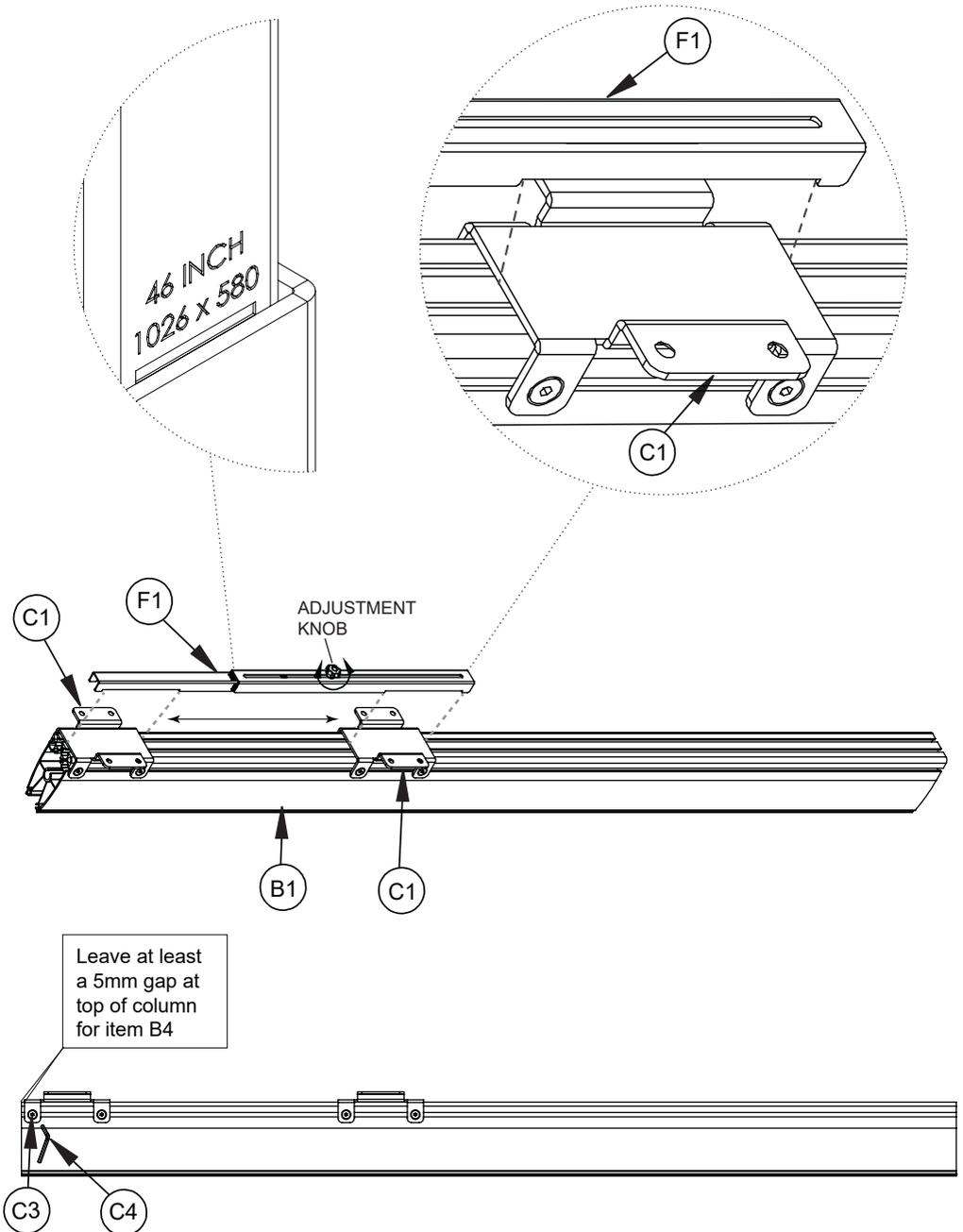
2 **Insert Sliding Nuts into Mounting Rails**

Lay items D1 on the floor.

For each attachment of item C1, insert 4 x item C2 into item D1. Two in the bottom slot, two in the second from top slot.

To attach item E1 to item D1, insert 4 x item E5 into the end of the rail. Two in each centre slot.

D1

E5

C2

C2

E5
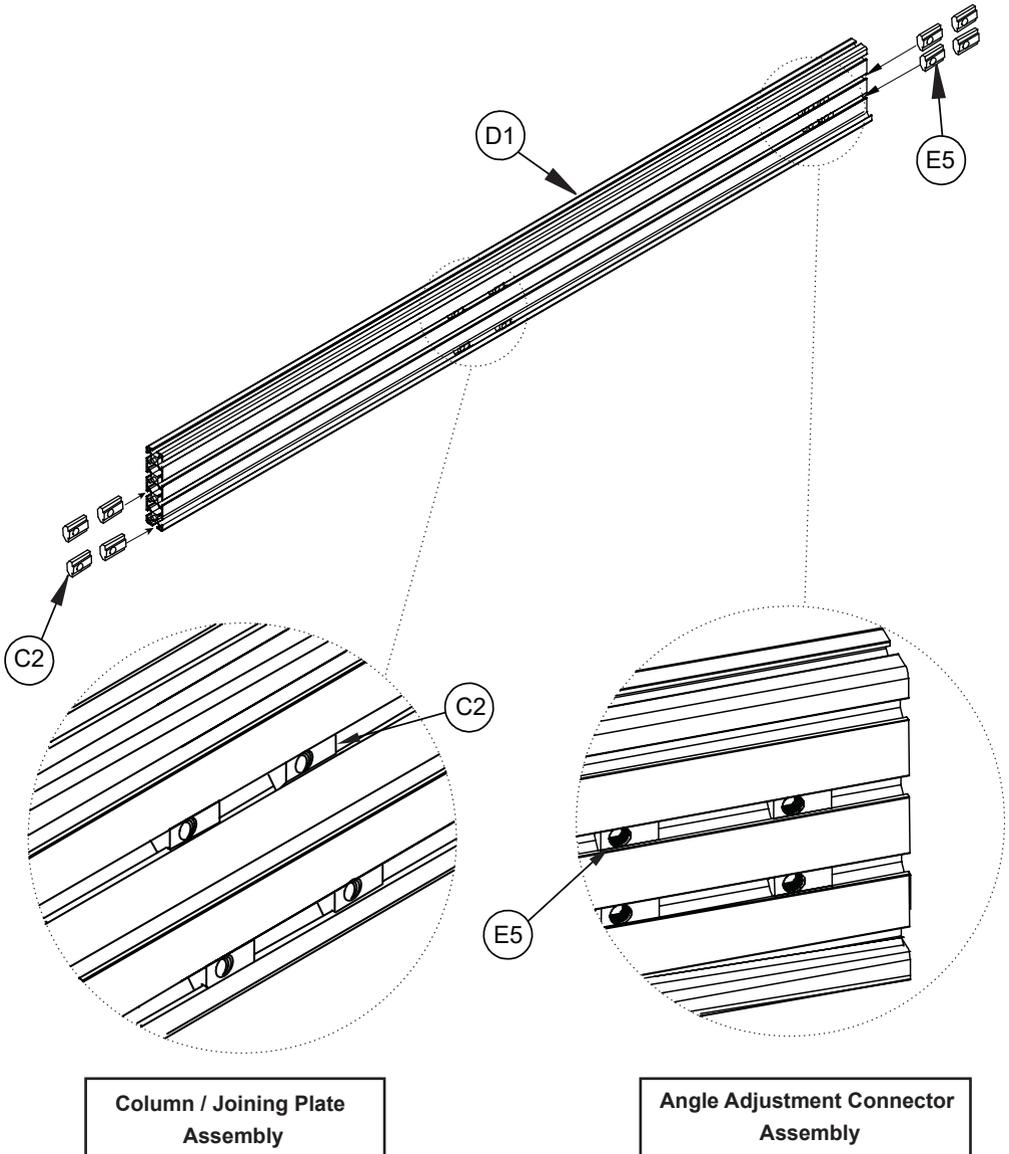
Column / Joining Plate Assembly

Angle Adjustment Connector Assembly

3

Connect Rails Together using the Angle Adjustment

i. Assemble items E2 and E3 to item E1. *Do not fully tighten the screws and washers.*

ii. With the rails flat on the floor, fix item E1 to 2 x item D1 using items E3, E4 and E5. Make sure all rails are fixed using the same positions on item E1*.

i.

ii.
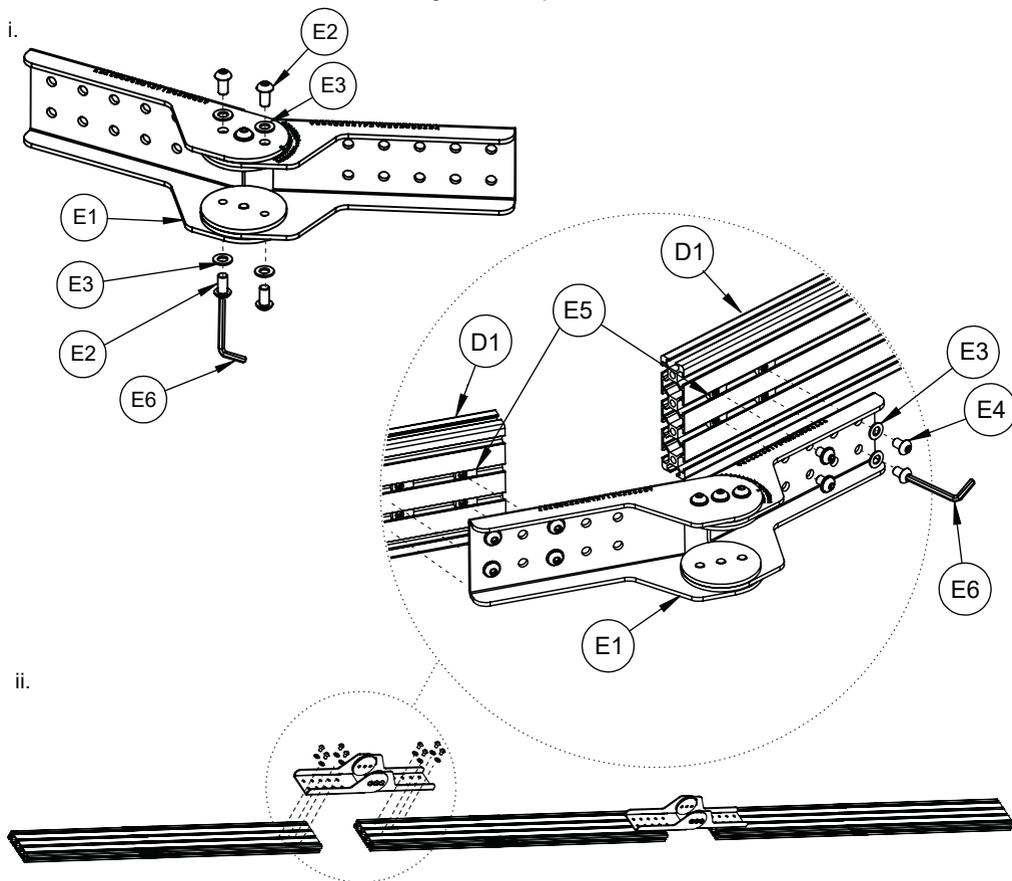
*Note: The rail fixing positions to use on item E1 are dependent on the size of screens being used.

For help with the rail fixing postion contact: *technical@btechavmounts.co.uk*

Please state the screen size, screen depth, rail length and curve angle of the installation.

Fixing positions A-V

Fixing positions A-V
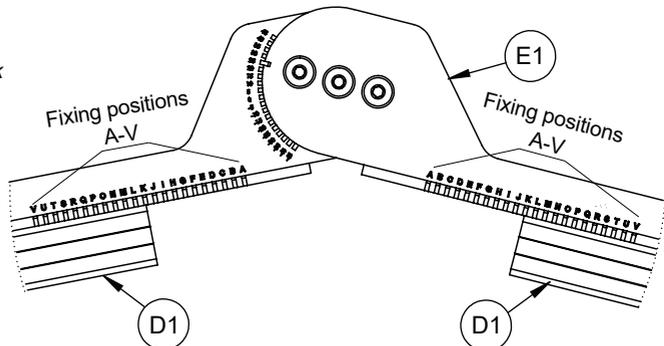
4 **Attach Columns to Rails**

On the floor, lay item B1 onto item D1. Attach item C1 to item D1 by fastening item C3 into the inserted items C2.

To ensure straight assembly of item B1 make sure the distance of items C1 to the end of item D1 are set the same on each rail.

Assemble as shown

D1

CORRECT

X

D1

WRONG

BACK

Equal distance to end of rail

C1

C3

D1

C2

B1

C4

C3

C1

B1

D1
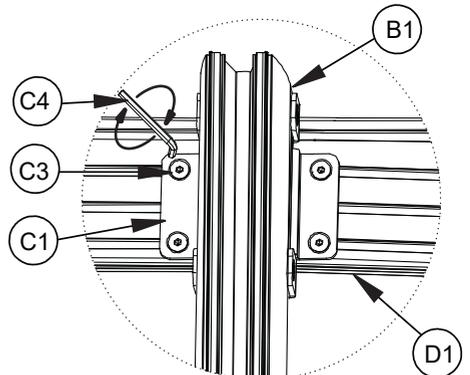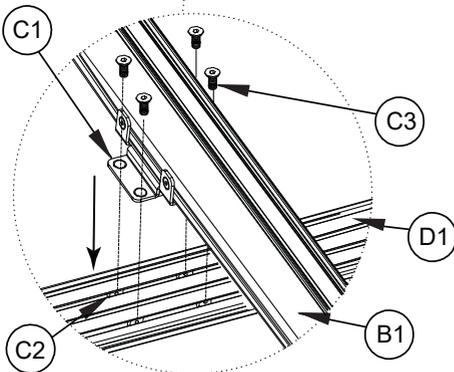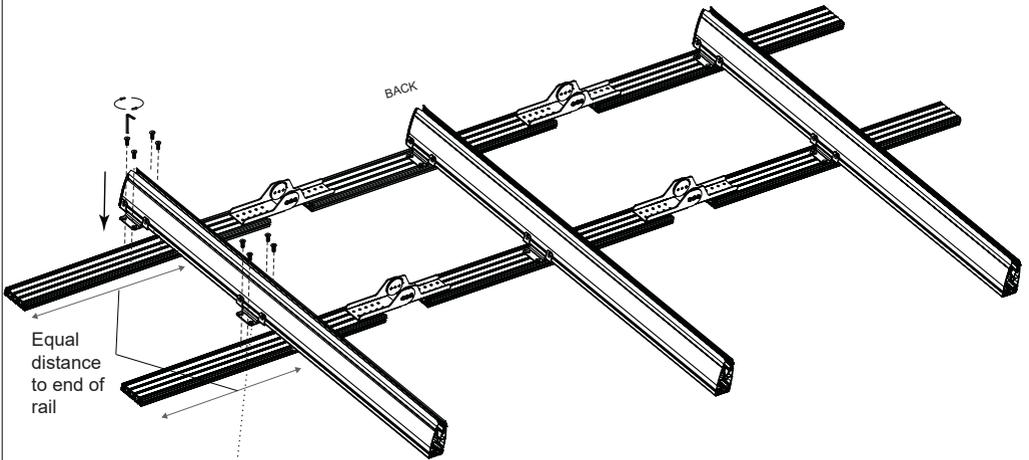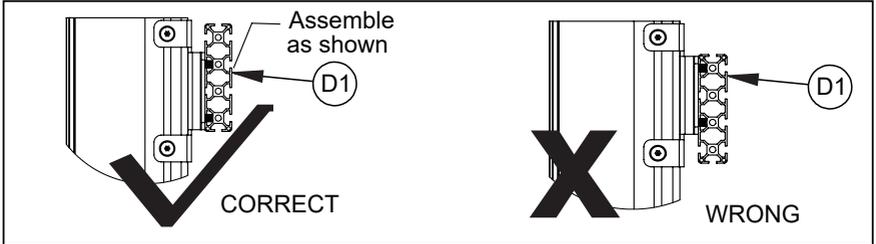
5 Assemble Bases to Columns

Attach item A1 to item B1 using items A2, A3 & A4.
Once bases are fixed to columns, return stand to upright position.

THREADED

A4

A3

A2

A1

A6

A5

A7
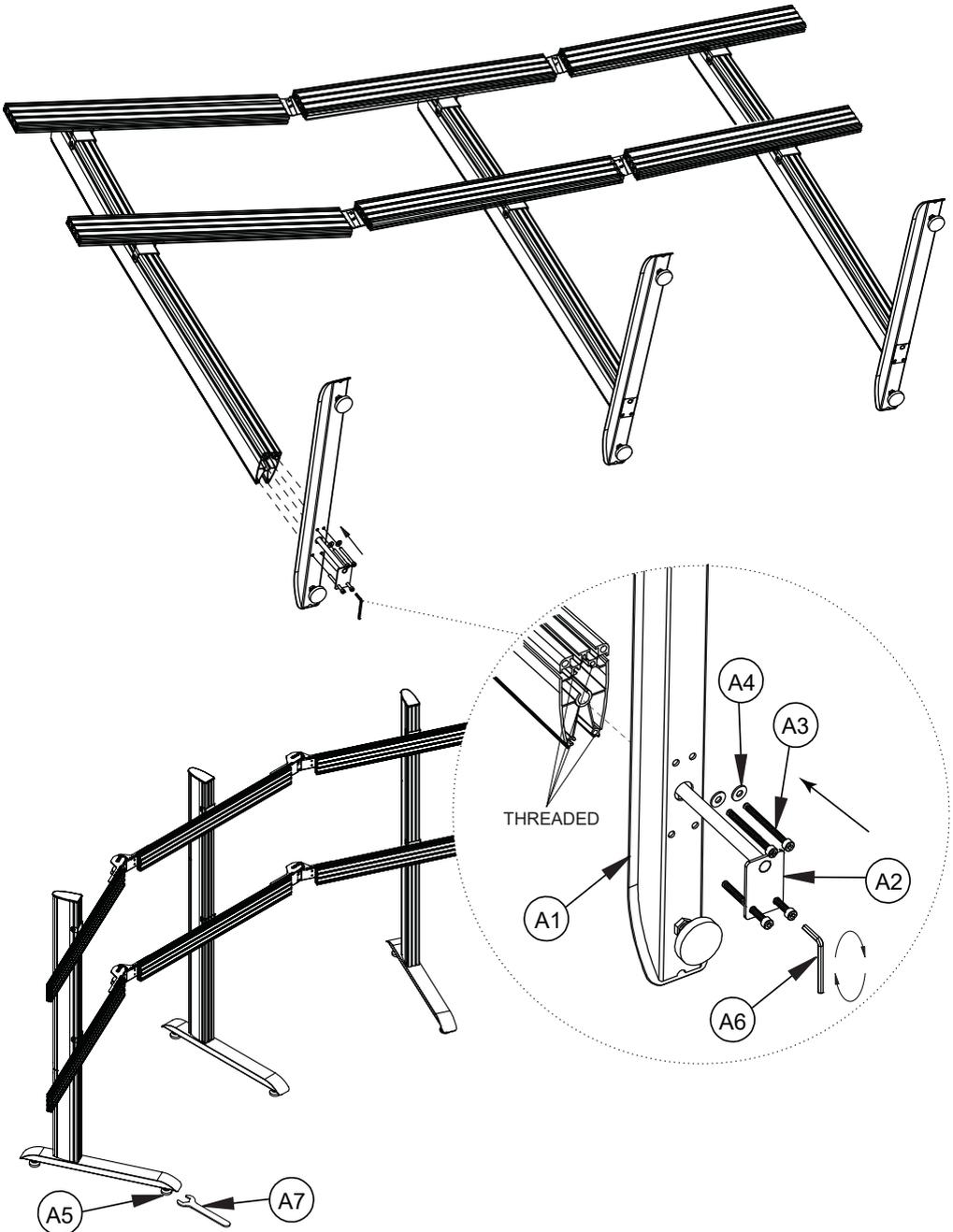
NOTE: If necessary use item A7 to adjust item A5.

6 Fix Angle

Set the angle required on item E1 and fully tighten all screws with item E6.

E1

E6

45
40
35
30
25
20
15
10
5
0
-5
-10
-15
-20
-25
-30
-35
-40
-45
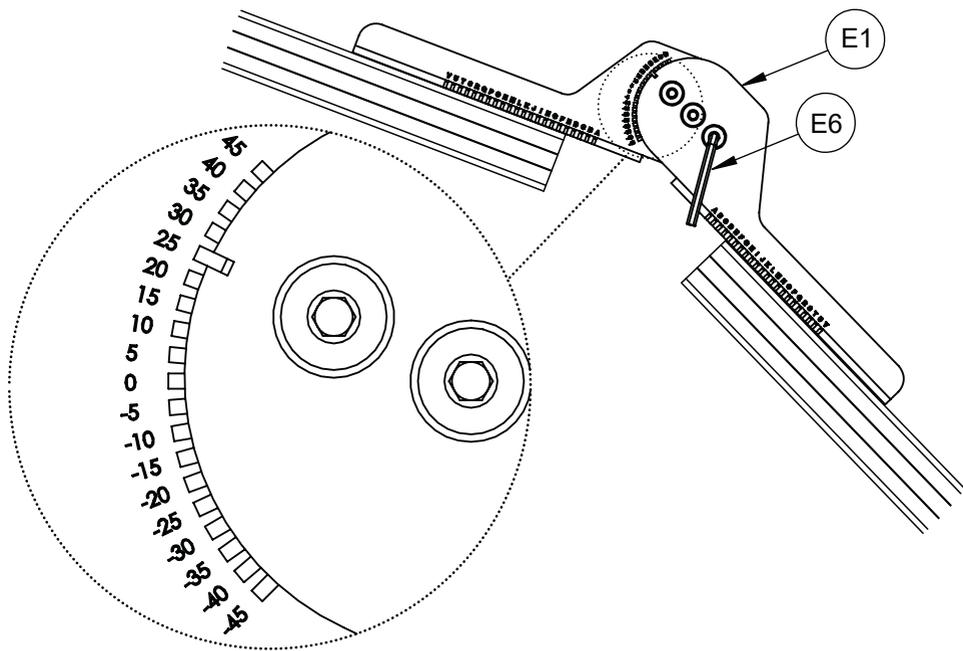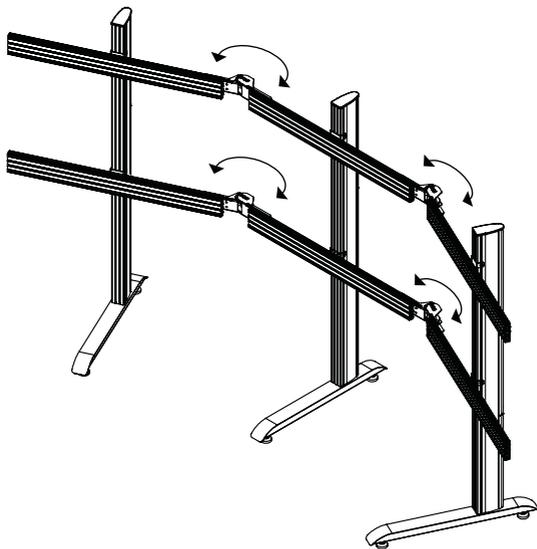
Attach Interface Arms to Screen (BT8390-VESA400MAF Arms)

Attach items G1 & G2 to the back of the screens using items A-F.

SCREEN FIXING KIT

A-F

J

TOP

G2

G1

BOTTOM

SCREEN

NOTE: Ensure the same holes are used on both of the interface arms.

Use spacers for screens with recessed fixings

G H I

SCREEN

Using Interface Adaptor Arms

G2   H2   G1

H1

SCREEN FIXING KIT

TOP
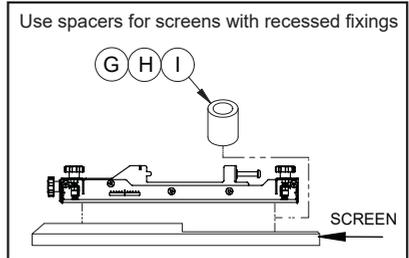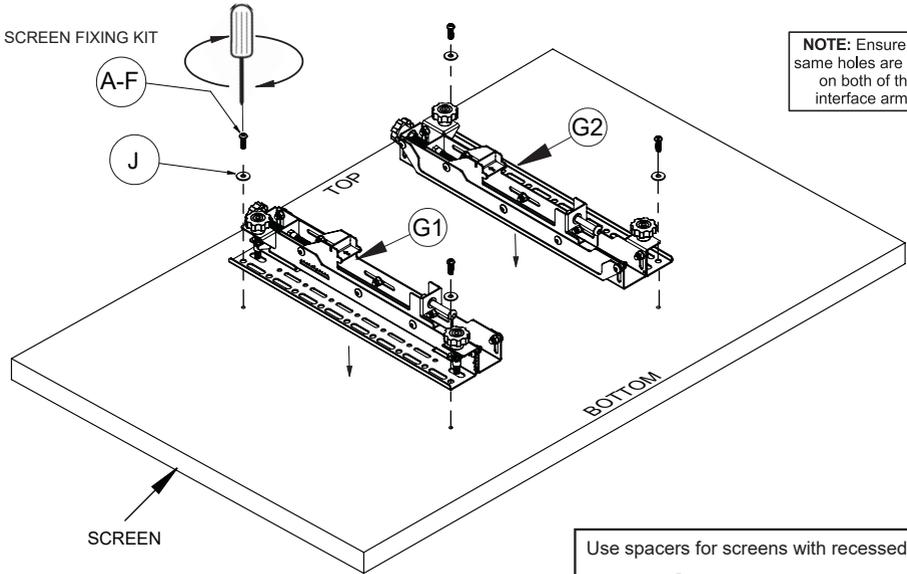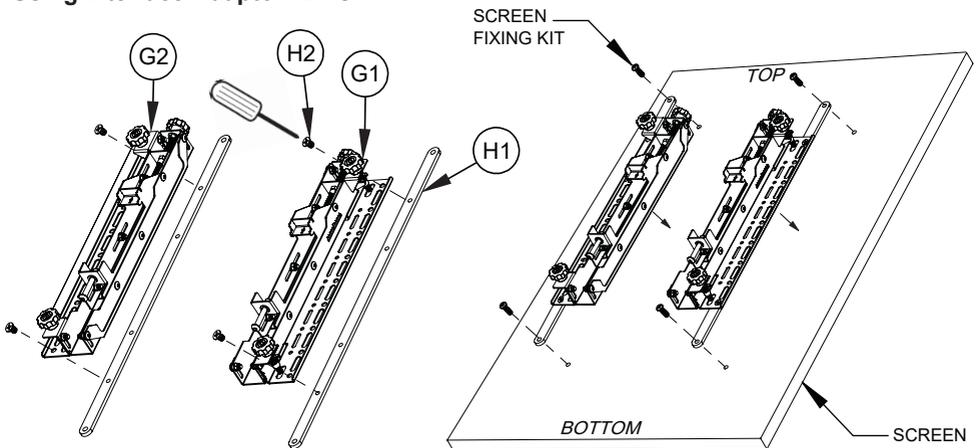
BOTTOM

SCREEN

NOTE: Portrait mounting shown.
For landscape mounting attach adaptor arms horizontally

Hook Screen onto the Stand

Hook the first screen centrally onto the bottom rail and align screen with the horizontal centre of the trolley / stand
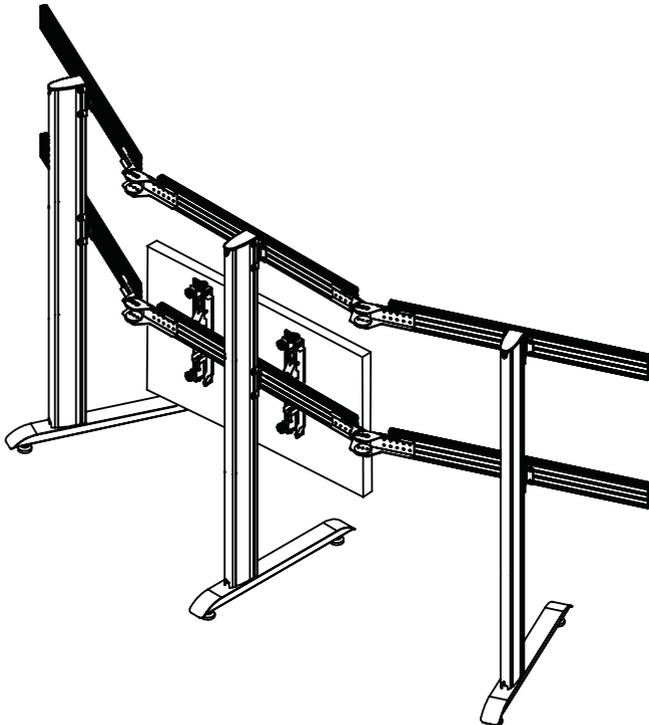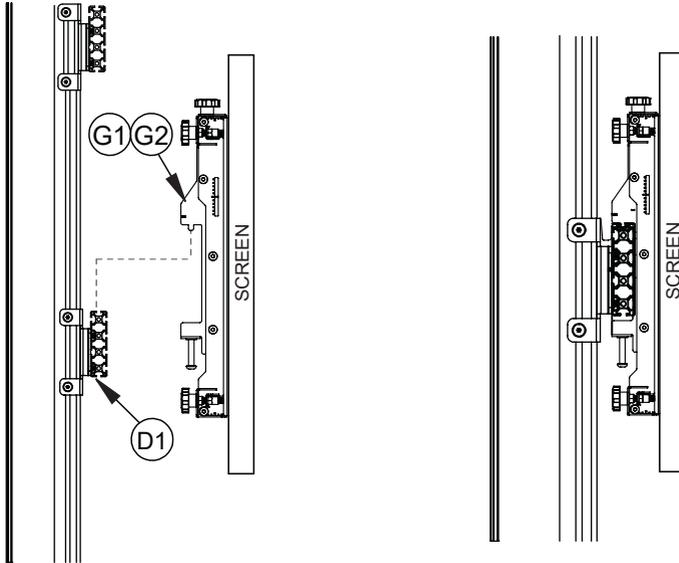
Attaching Pop-Out Interface Arms to Screens (BT8390-VESA400MAP Arms)

i. Attach items G1 & G2 to the back of the screens using items A-F.

G1

NOTE: Ensure the same holes are used on both of the interface arms.

A-F

G2

J

TOP

BOTTOM

SCREEN

SCREEN RECESS

Use spacers (parts G, H & I) for screens with recessed fixings.

G-I
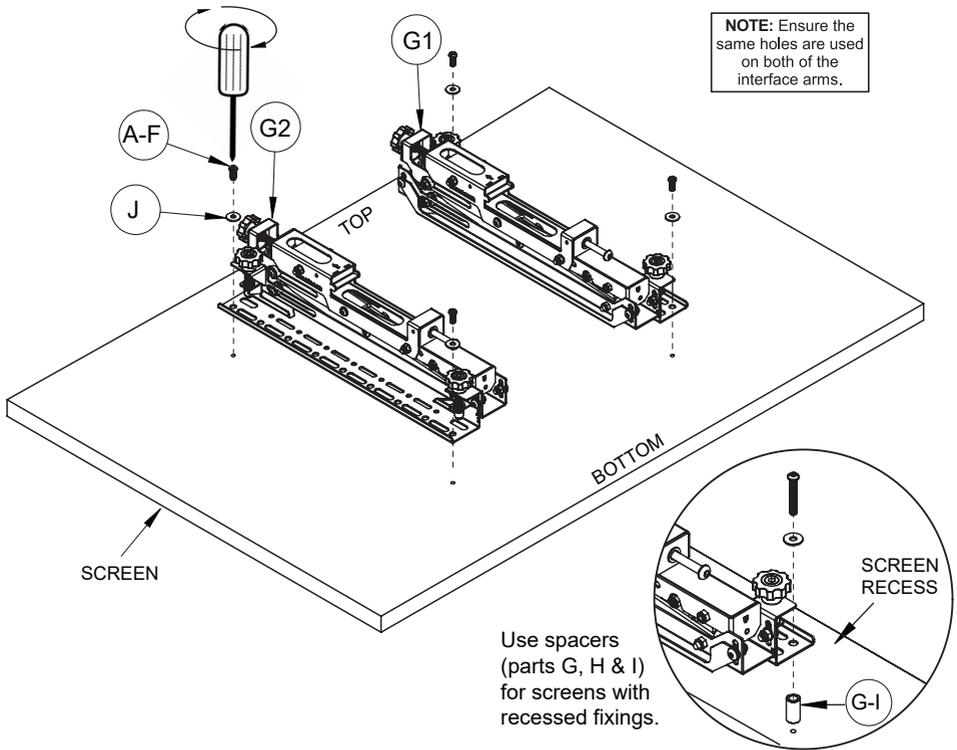
ii. Connect interface arms with the adjustable brace

Extend item G3 and fix at desired length by tightening the 2 screws.

The 3 notches show the position for interface fixings at 400mm, 500mm and 600mm.

Note: The adjustable brace (part G3) is only suitable for horizontal VESA fixings from 400 - 600mm.

G3

For screens with interface holes 600mm apart, extend brace to the 600 settting.

600

SCREWS

G6
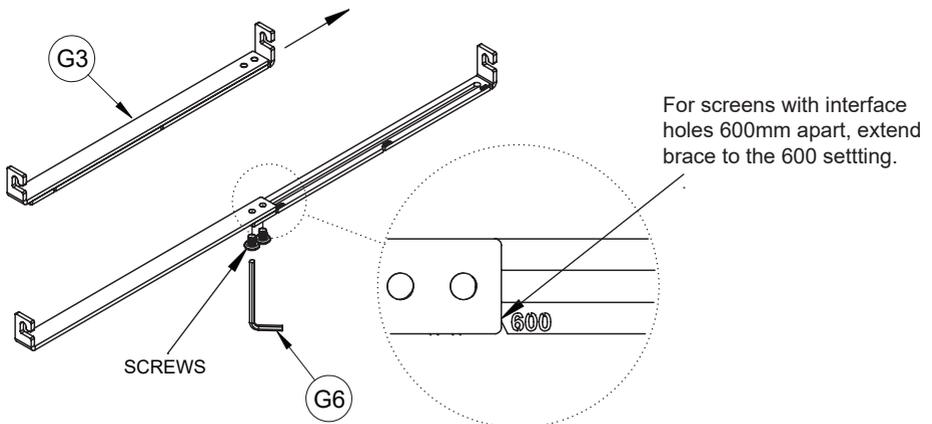
iii. Fix item G3 to items G1 & G2 for easy lateral adjustment of screen.
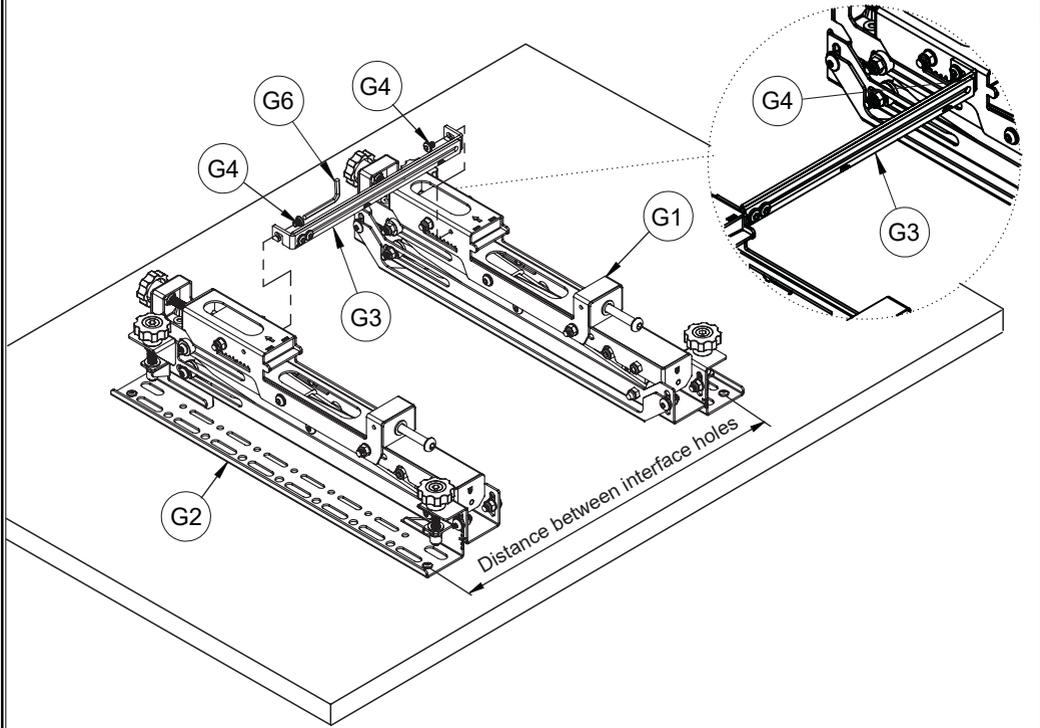
G6
G4
G4
G4
G1
G3
G3
G3
G2

Distance between interface holes

Hook Screen onto the Stand

Hook the first screen centrally onto the bottom rail.

G1 G2

SCREEN

SCREEN

D1

B1
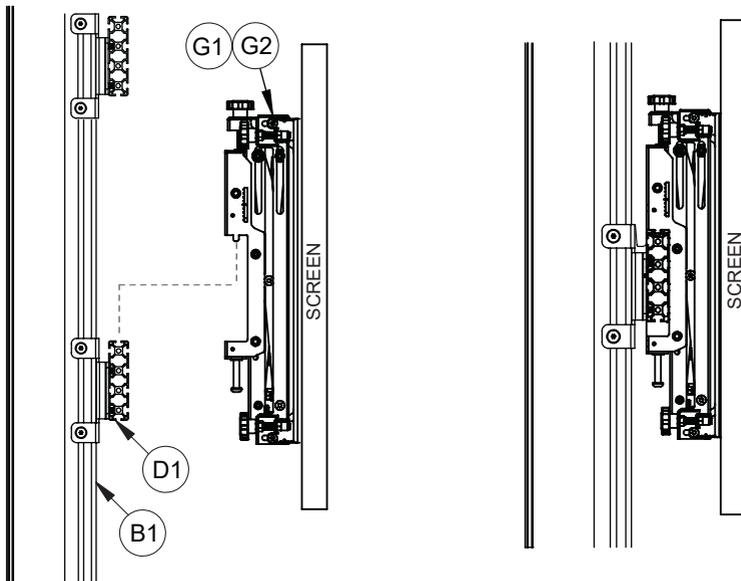
9 Mount and Align Screens

i. Laterally adjust the screen to the desired position, ensure the screen is level and parallel to the floor using the micro-adjustment knobs on the interface arms - *See Step 10*.
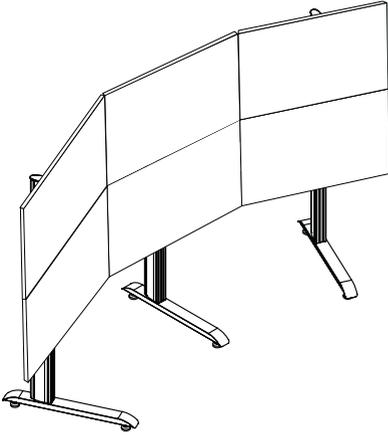

Lateral
Adjustment
X axis
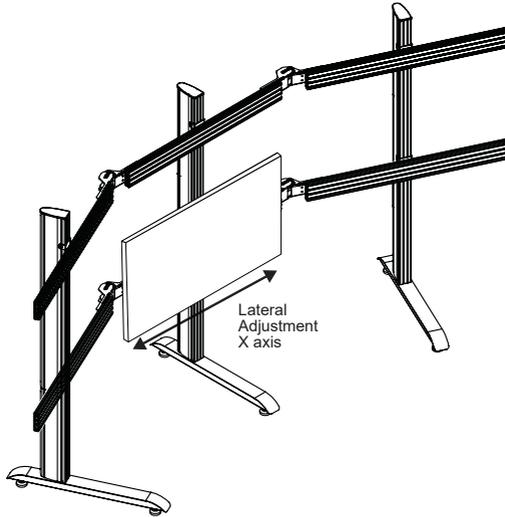
ii. Hook on the remaining flat screens. After mounting each screen use the micro-adjustment knobs on the items G1 & G2 to level and align screens.
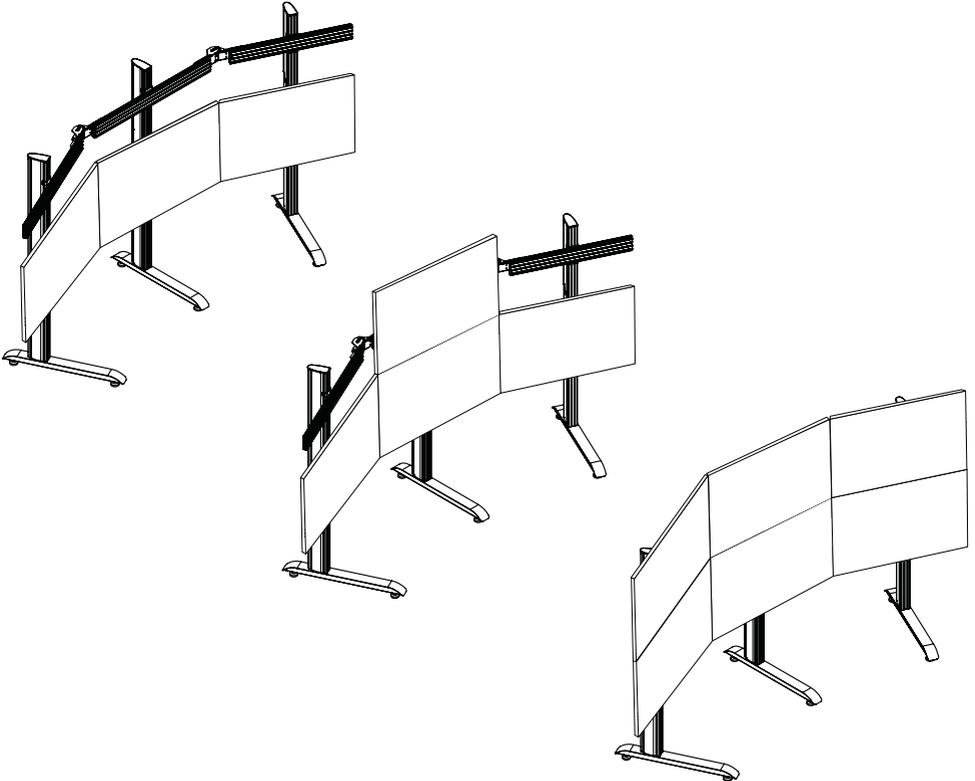
1 □   Align Screens using Micro-Adjustment

i. Align the flat screen to the floor using the height adjustment knobs.

ii. Use the depth adjustment knobs to ensure flat screen is perpendicular with the floor and to ensure that each corner of the screen is aligned evenly.

Micro-adjust top row first and work down row by row.

HEIGHT ADJUSTMENT **Z AXIS** KNOB

DEPTH ADJUSTMENT **Y AXIS** KNOB

DEPTH ADJUSTMENT **Y AXIS** KNOB
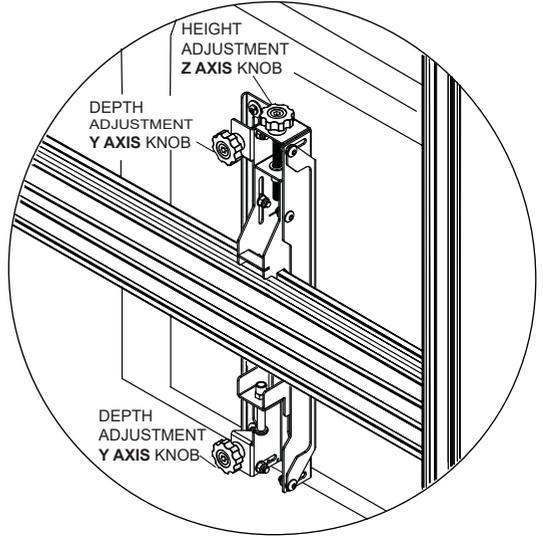
Use **Depth Adjustment**
(Y axis knobs) to align front of screens
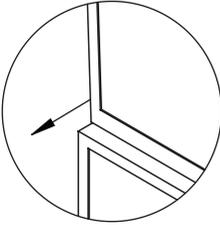
Use **Lateral Adjustment**
to align sides of screens
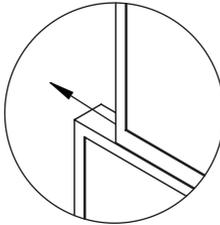
Use **Height Adjustment**
(Z axis knobs) to align bottom/top of screens

Adjustment knobs are also compatible with 6mm allen key

Adjustment lines to help with accurate Y axis screen alignment

Note: Light pressure in the desired direction of travel will assist in the adjustment of knobs when using heavier screens
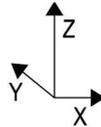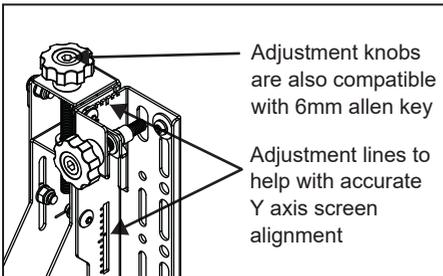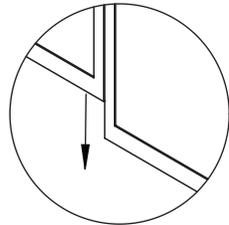
BT8390-VESA400MAF

Total Y axis adjustment is 20mm

Total Z axis adjustment is +/-25mm

BT8390-VESA400MAP

Total Y axis adjustment is 20mm

Total Z axis adjustment is +/-20mm

1 1 Secure Screens

Once screens are aligned, tighten the safety screws on the bottom items G1 & G2.
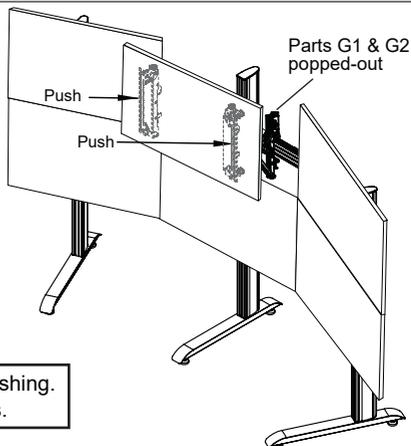
G1

G2

G8

SAFETY
SCREW
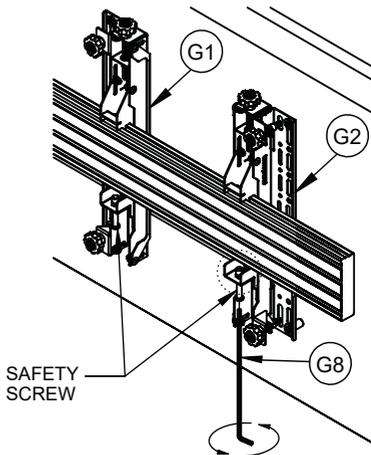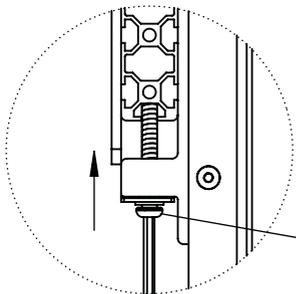
1 2 Servicing Screens *(Pop-Out Arms only)*

Push centrally at the left and right of the screen to pop-out the mount. The screen will rest in the 'open' position for servicing.

**Note:** Ensure pop-out function is not disabled *(see below).*

Parts G1 & G2 popped-out

Push

Push

IMPORTANT: Be careful not to damage the screen when pushing. Keep hold of the screen as it moves outwards.

Disabling Pop-Out Function *(optional)*

To prevent interface arms from popping out, fully insert and tighten item G5 at the padlock* symbol at the bottom of items G1 & G2.
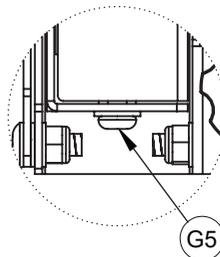
G2

G1
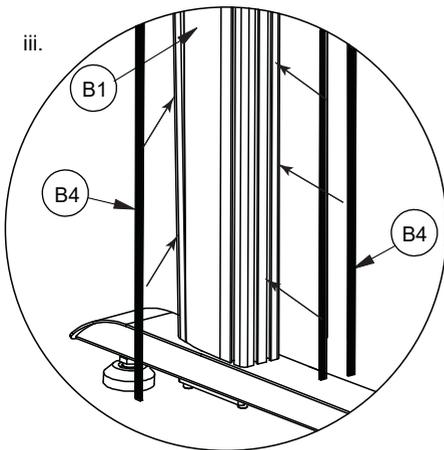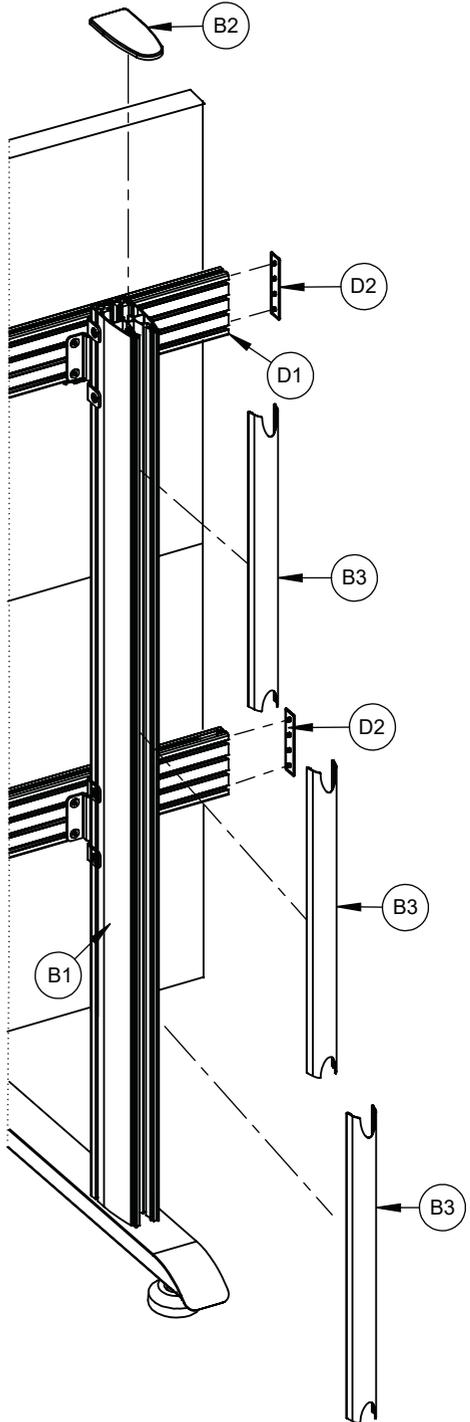
Unlocked Position
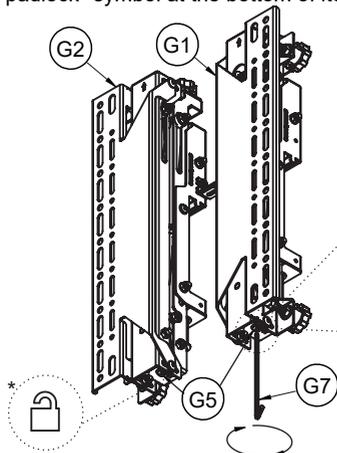
Unlocked Position 20mm
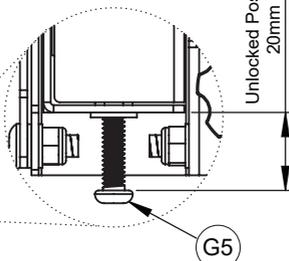
Locked Position
part G5 fully inserted

G5

G5

G5

G7

*

IMPORTANT
Do not fully insert part G5 when interface arms are popped out.

1 3   Add End Caps & Cable Management Covers

i. Once all the screens and power
cables are connected and if possible routed down
the backs of item B1, partially clip on items B3,
this allows easy removal if more cables need
adding. Once satisfied all cables are fitted, clip
items B3 on fully.

ii. Fit items D2 to items D1.
Fit items B2 to items B1.

iii. With a knife, cut to length items B4
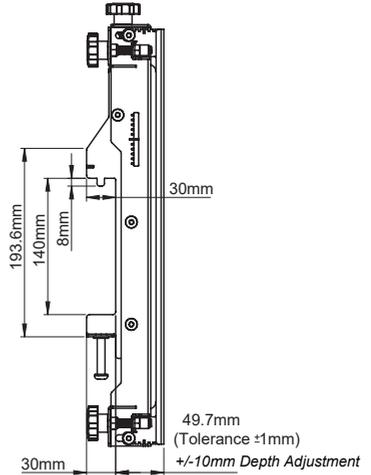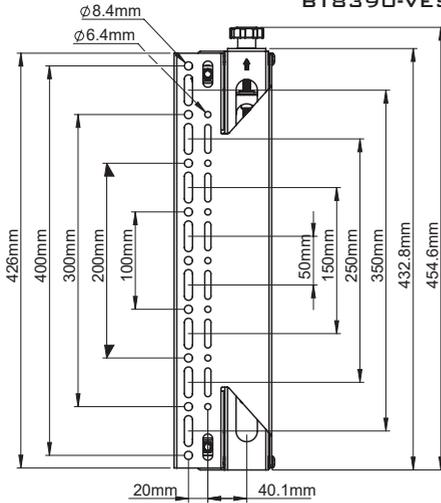and slot into the front and sides of item B1.
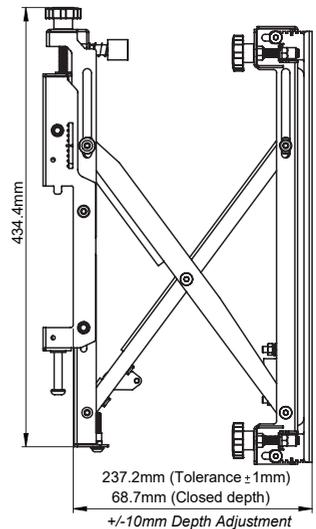
PRODUCT DIMENSIONS
BASE AND INTERFACE ARMS

BT8380-BASE

950mm

ADJUSTMENT
18mm

57mm
51mm
51mm

793.5mm

210mm

BT8390-VESA400MAF

∅8.4mm
∅6.4mm

426mm
400mm
300mm
200mm
100mm
50mm
150mm
250mm
350mm
432.8mm
454.6mm

20mm
40.1mm

193.6mm
140mm
8mm
30mm

49.7mm
(Tolerance ±1mm)
+/-10mm Depth Adjustment

30mm

BT8390-VESA400MAP

451.6mm
426mm
400mm
300mm
200mm
100mm
50mm
150mm
250mm
350mm

18.8mm
146.8mm
6mm
65mm
280mm

100.7mm
110.9mm

434.4mm

237.2mm (Tolerance ±1mm)
68.7mm (Closed depth)
+/-10mm Depth Adjustment
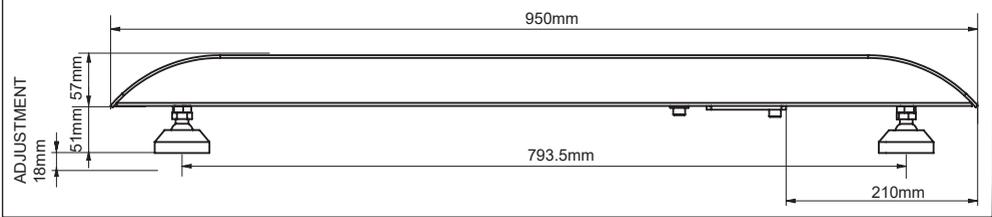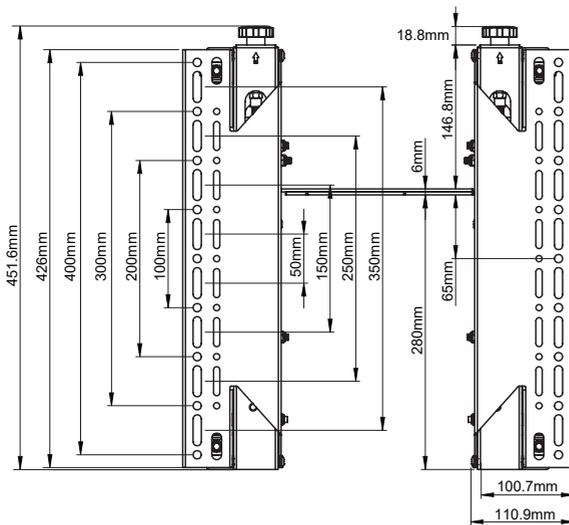
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