

# R0000712E Rotary Trunking

Installation of rotary energy chain and back plates

 Difficulty **Medium**

 Duration **2 hour(s)**

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Comments

## Introduction

### Tools Required

Standard set Hex keys

Standard socket set

Countersink bit and drill

Copper/hide hammer

Standard hss drill set

### Parts Required

D0006210 pre assembled energy chain

D0003929 Access panel

D0003930 Circular guide

D0003985 Upper circular guard

D0007817 Circular guard

D0001171 plug bracket

P0001023 6mm y adapter x 9

P0000401 non return valve

## Step 1 - Adhesive

All bolts must have Loctite 243 adhesive applied unless otherwise stated.

All bolts must be marked with pen once completed to indicate adhesive and correct tension has been applied



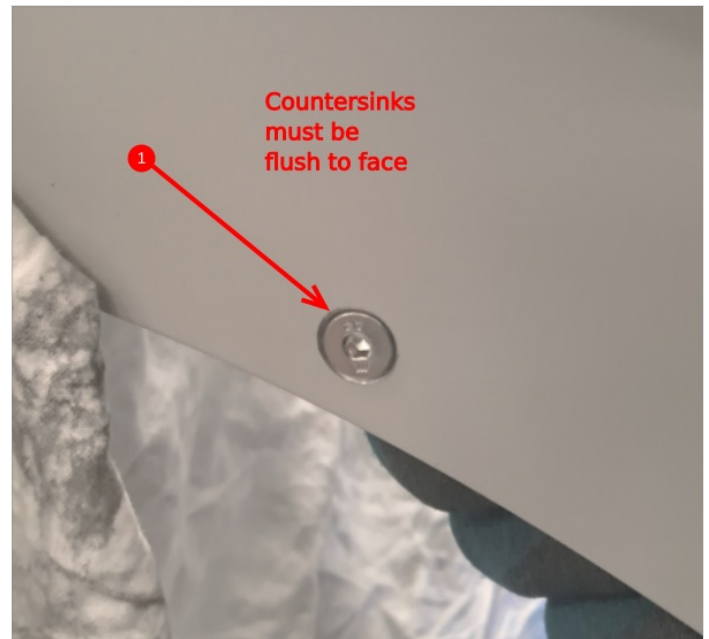
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## Step 2 - Prepare 1st guide Section

D0003985 needs preparing before fitting

1 All back plates for the rotary trunking need to be checked for correct countersink depth. Any protrusion from main face will cause energy chain failure

Check and if proud, use a countersink to increase depth



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## Step 3 - Fit Energy chain mounting bracket

Mounting bracket D0006240 needs fitting to D0003985

1 Measure position of bracket onto circular guard (291mm)

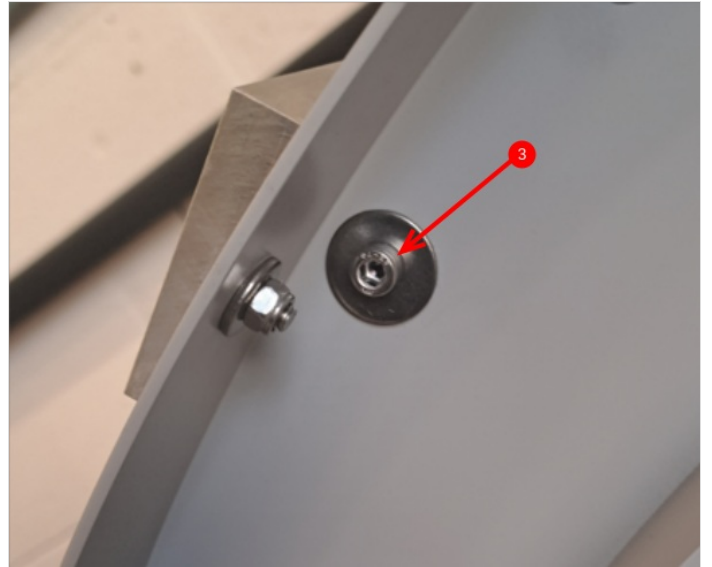
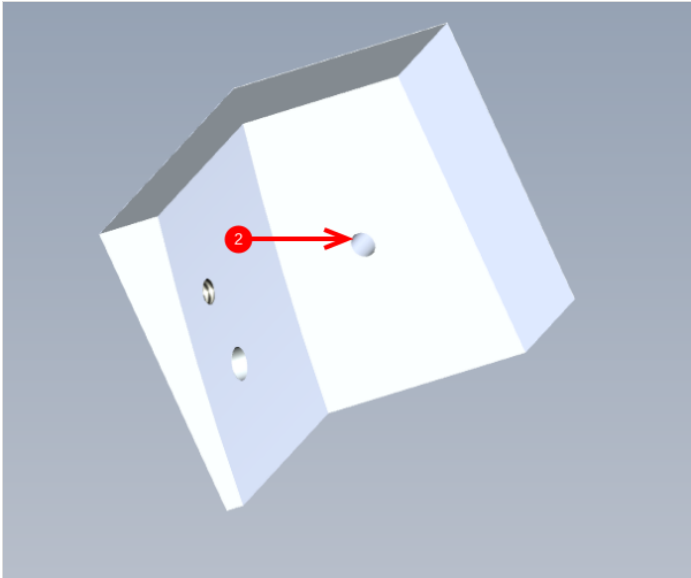
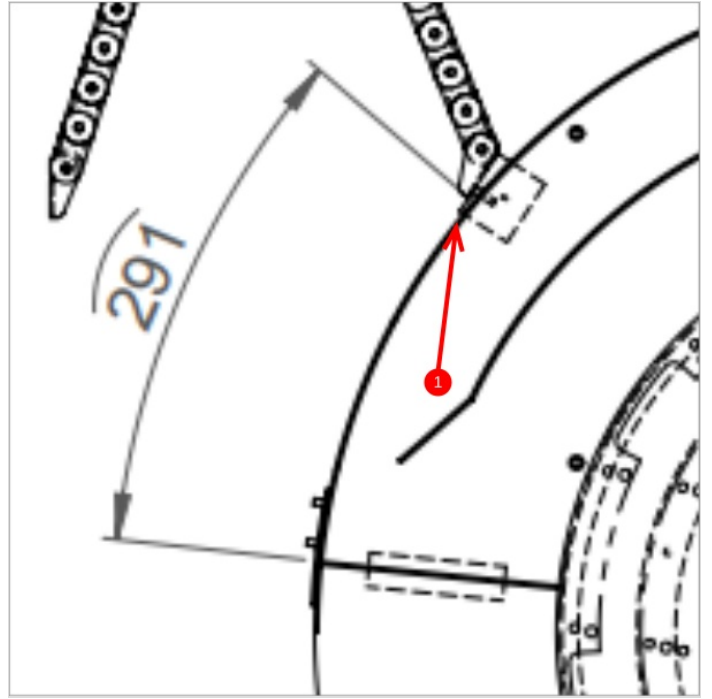
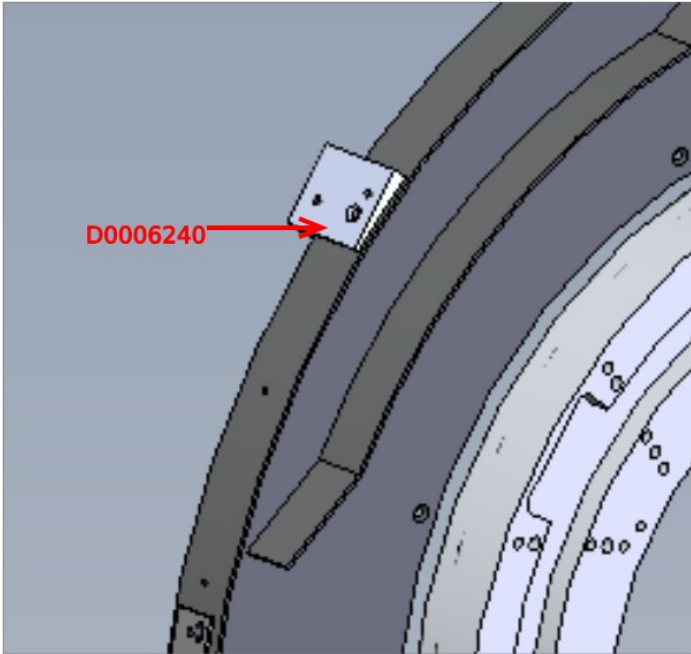
2 Use a pointed m5 grub screw screwed into bracket hole indicated, hold in position on guard, and use hide hammer to transfer position mark

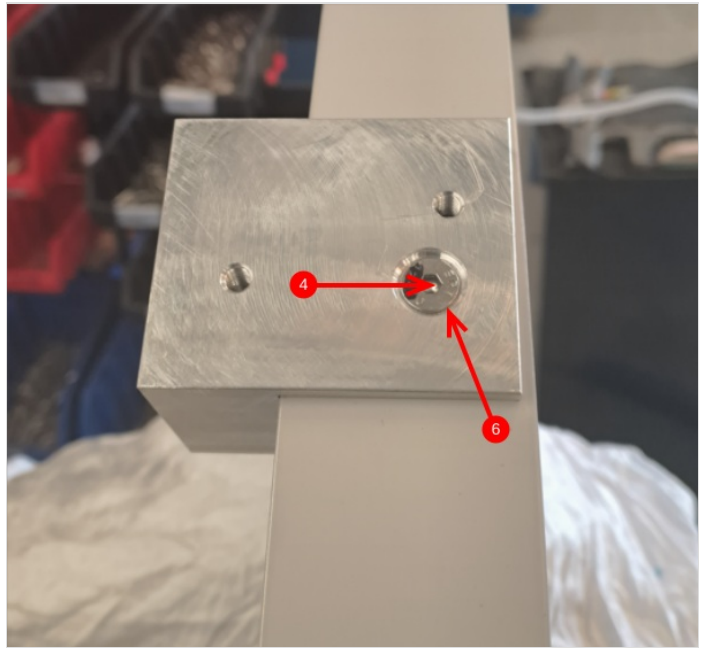
3 Drill to 6mm and fix bracket with m5x 16 cap head and large m5 washer

4 Drill 6mm through indicated hole

5 Fix with M5 x 16 countersink, large m5 washer and nyloc nut

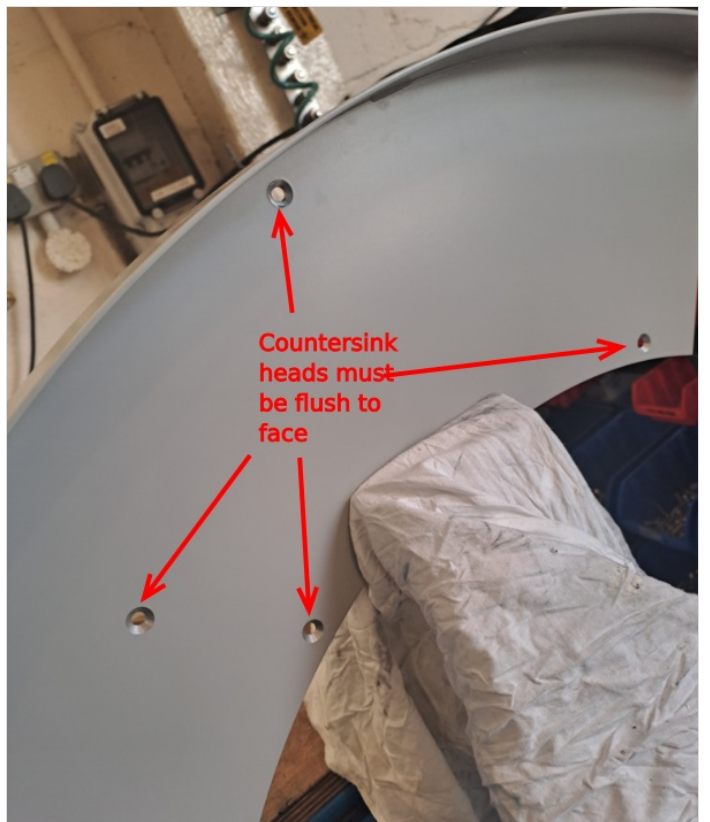
6 This countersink bolt head must be flush to block. If proud, use a countersink bit to increase depth





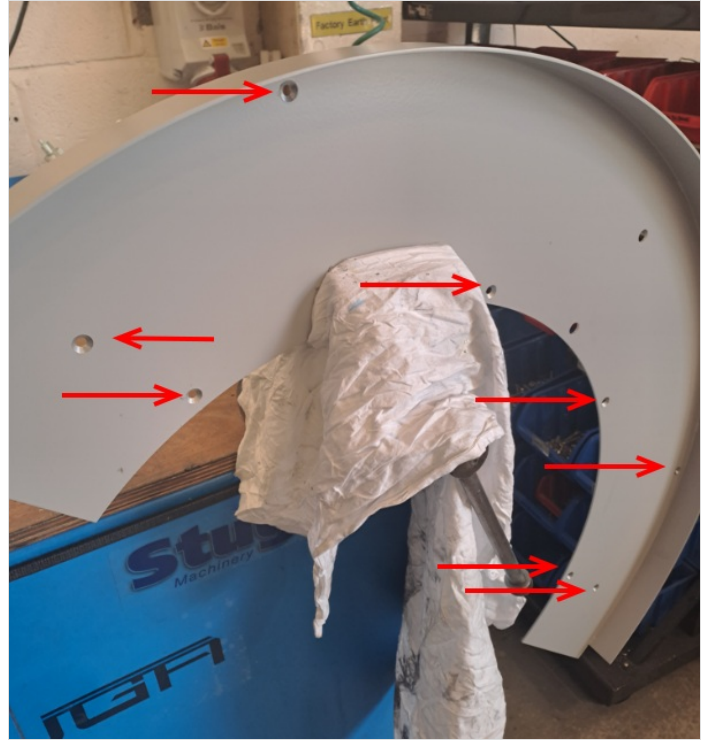
## Step 4 - Prepare second section

Check countersink holes in D0003930 are to the correct depth.  
Rework with countersink if fasteners sit proud.



## Step 5 - Prepare 3rd section

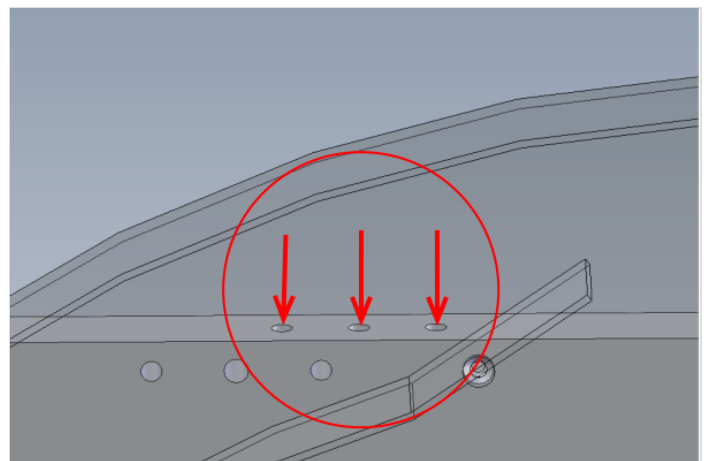
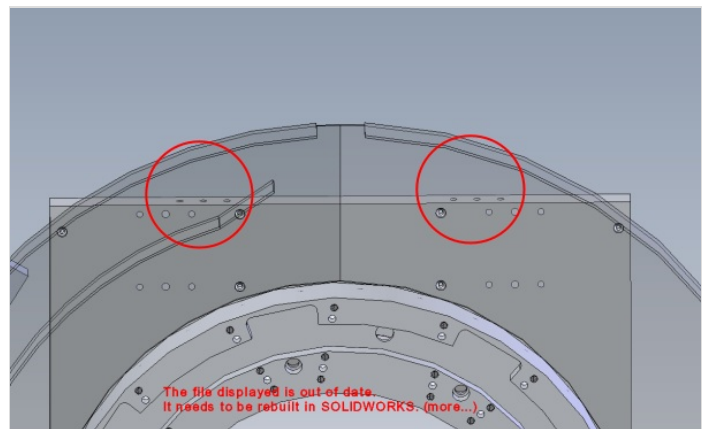
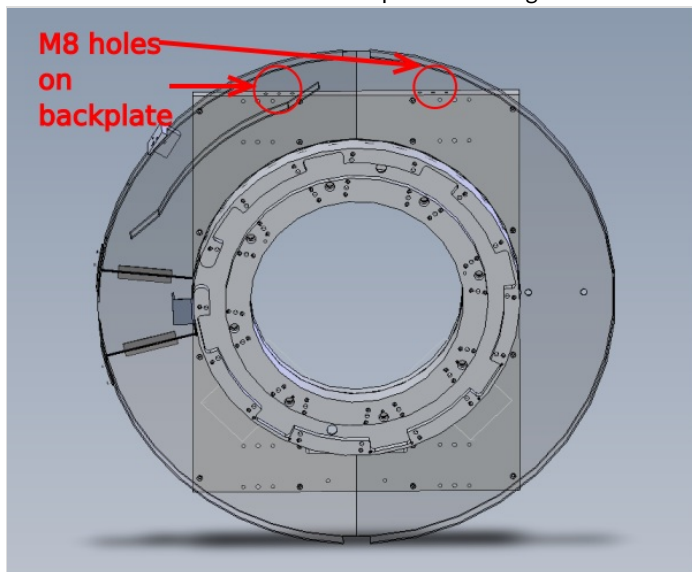
Check countersink holes in D0007817 are to the correct depth.  
Rework with countersink if fasteners sit proud.



## Step 6 - Orientation

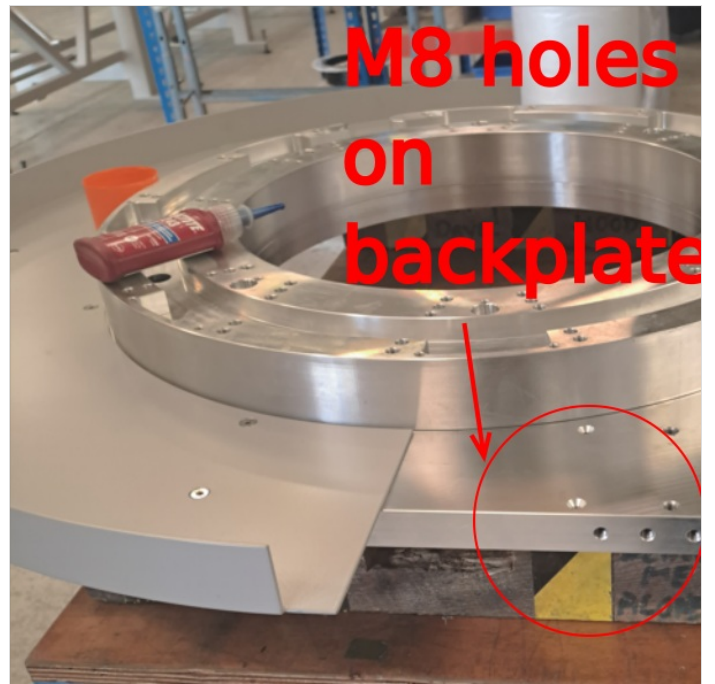
It is vital to achieve correct orientation of above parts

Use M8 holes indicated as reference point for fitting



## Step 7 - Fit D0007817

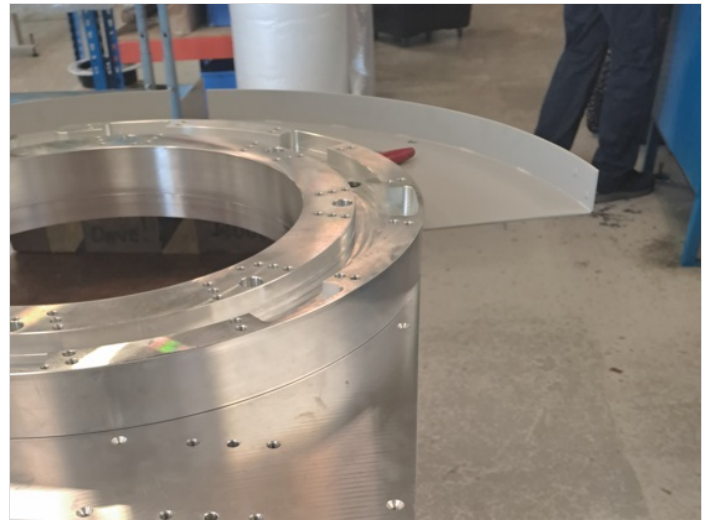
Mount D0007817 to main rotary base and fix with m5 x 10 countersink bolts



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## Step 8 - Fit D0003930

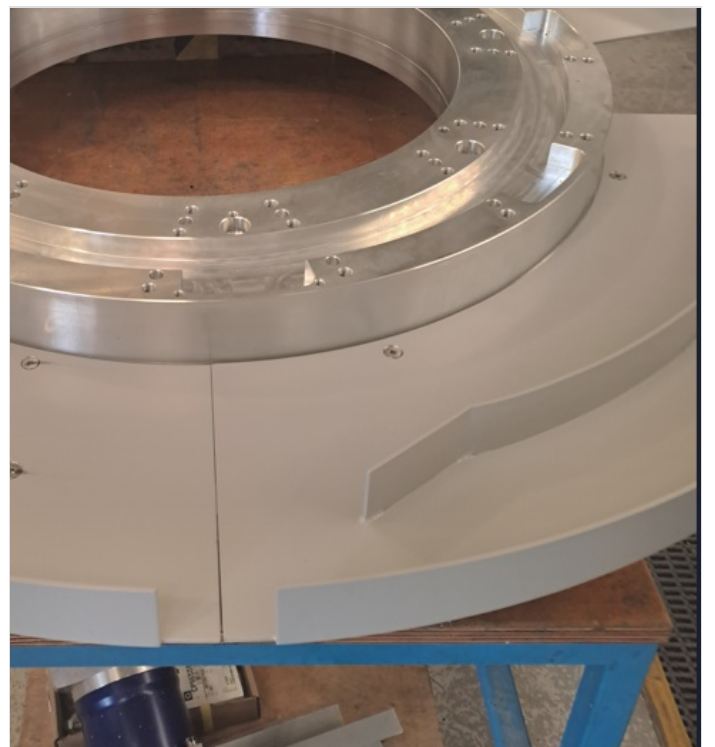
Mount D0003930 to main rotary base and fix with m5 x 10 countersink bolts



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## Step 9 - Fit D0003985

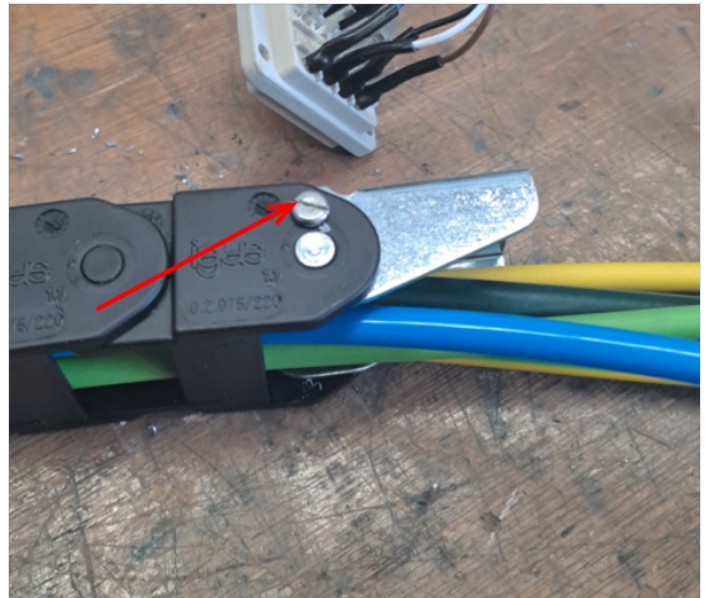
Mount D0003985 to main rotary base and fix with m5 x 10 countersink bolts



## Step 10 - Fit locking screw to energy chain

Drill and tap m3 to plugged end ONLY of energy chain assembly  
Use m3 x 6 pan head bolt to secure

**⚠** ...Caution damage to cables is possible Use a shield over cables to protect

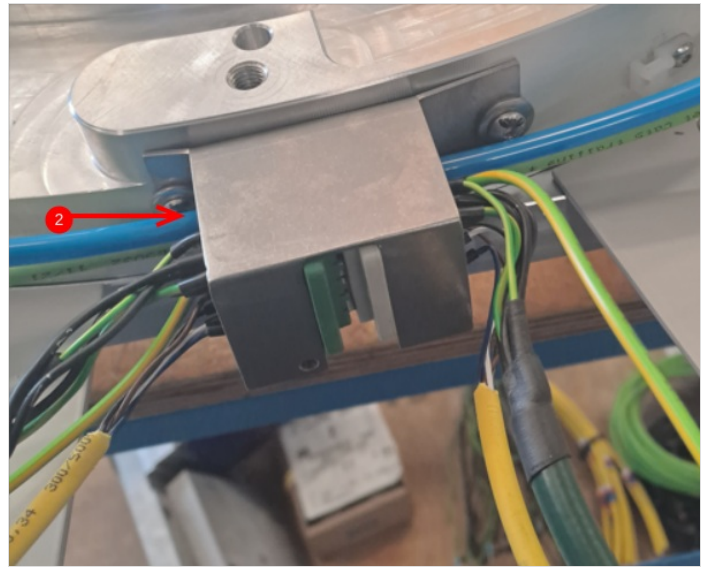
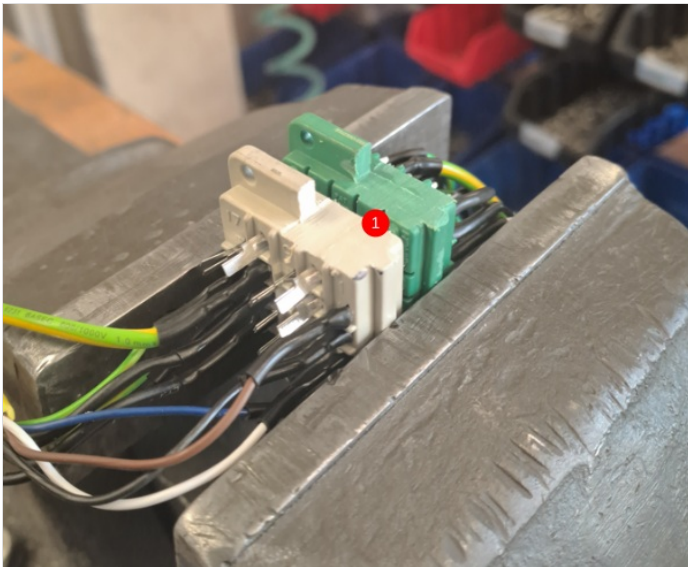


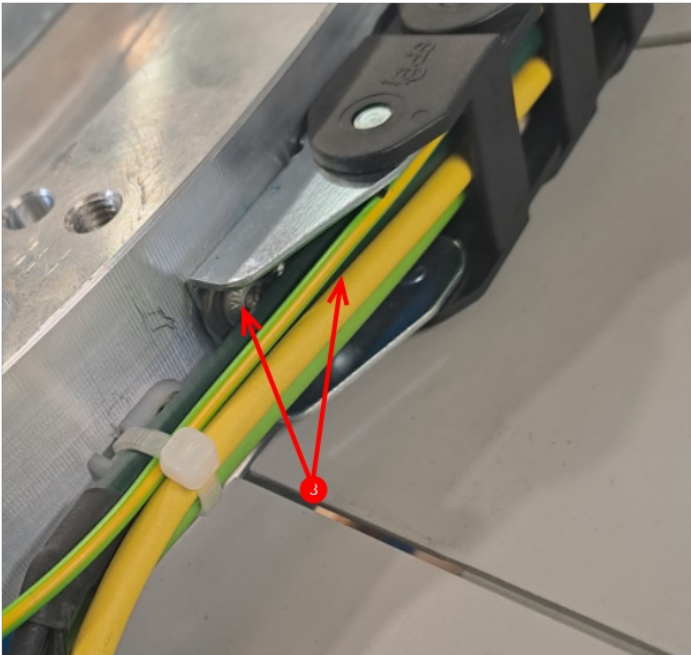
## Step 11 - Modify plug and mount echain bracket

1 Modify plug to allow cable and pipe clearance as shown

2 Modification is required to give access as indicated

3 Attach chain bracket plug on end of cables at this end, with 2 off m5 x 10 button head and washers



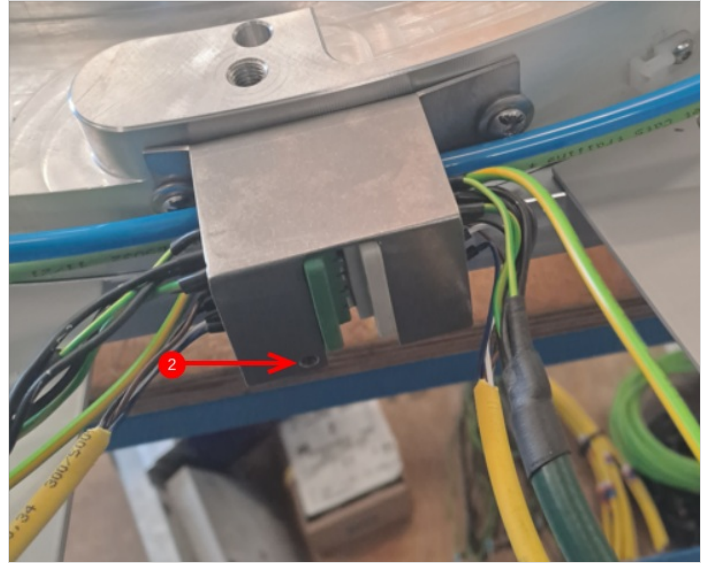
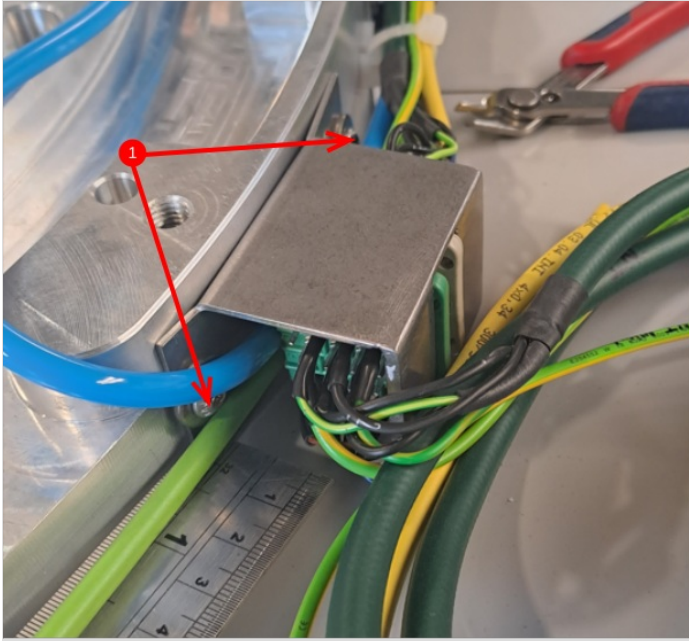




## Step 12 - Mount bracket

1 Mount bracket D0001171 using 2 off m5 x 10 button heads and heavy washers

2 Captivate plug with m4 x 12 socket cap

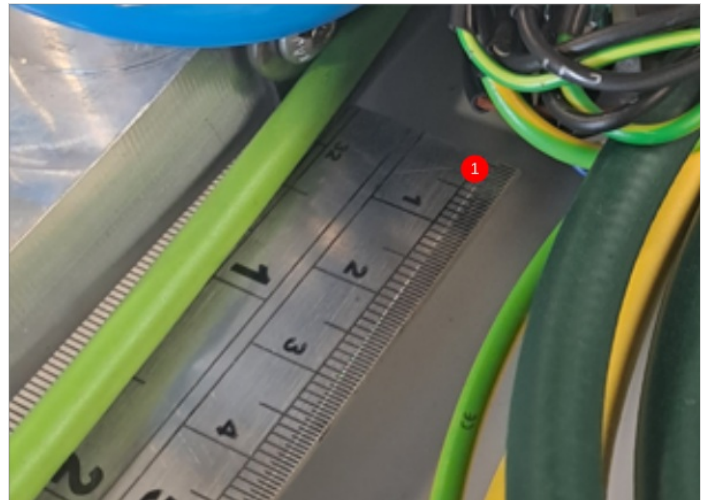


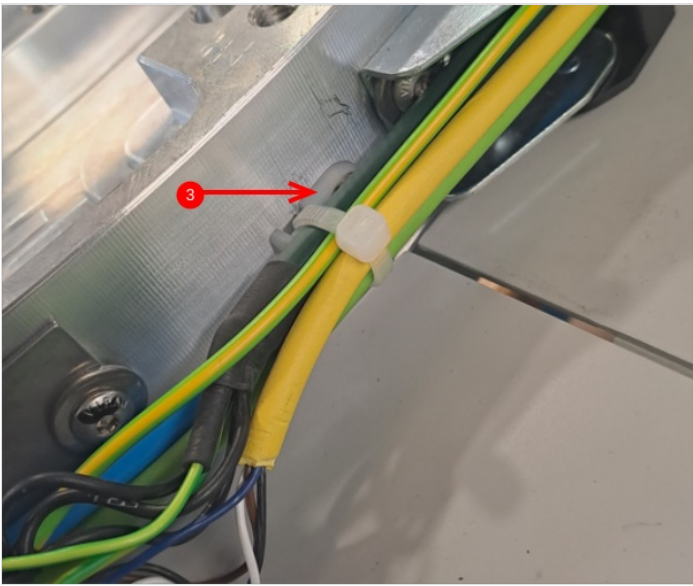
## Step 13 - Finalise energy chain cables

1 ensure 600mm of green ethernet cable is set

2 ensure 6mm blue pipe is set to position

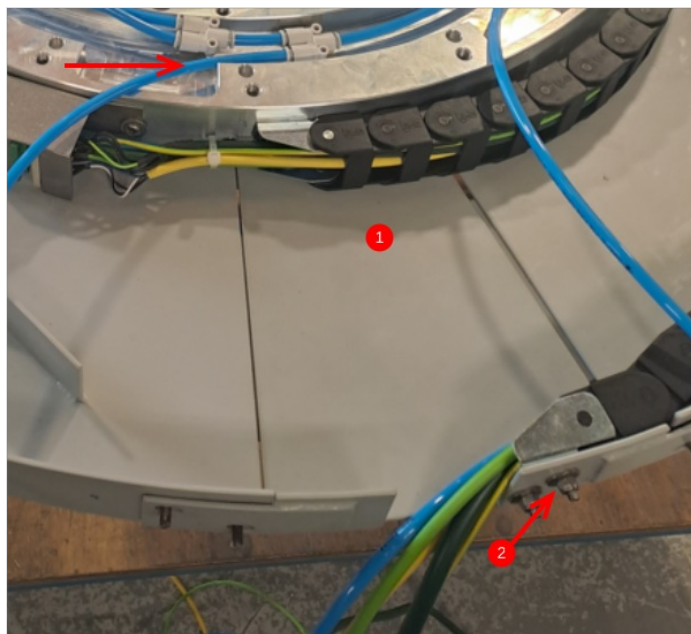
3 Ensure cable restraint is used once cable and pipe length are set ( M4 may need drilling )





## Step 14 - Fit Access panel

- 1 slide access panel into position
- 2 Fix energy chain to panel with m5 x 16 button heads, washers and nyloc nuts



## Step 15 - Add air ring main

- 1 Connect ring main as shown. Ensure fittings P0001023 are placed in the same locations as shown in picture
- 2 Cap off 8 off ends of air pipe as shown
- 3 Add P0000401 to end of trailing 6mm blue pipe. Note orientation of non return valve
- 4 Purge system with air to perform pneumatic leak test. Once purged, system should hold pressure for minimum 1 hour

