General BOM

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	DIN 0125-1A M4	Washer	12
2	DIN 0912 M3x10	Hex socket head cap screw	8
3	DIN 0912 M4x12	Hex socket head cap screw	4
4	DIN 0912 M4x20	Hex socket head cap screw	8
5	DIN 0912 M4x30	Hex socket head cap screw	4
6	DIN 0934 M3	Hex nut	4
7	DIN 0963 M3x16	Slotted countersunk head screw	4
8	DIN 0963 M4x12	Slotted countersunk head screw	4
9	DIN 0985 M3	Prevailing torque hex nut	4
10	DIN 0985 M4	Prevailing torque hex nut	24
11	HEDS-H9720 P	Encoder	1
12	HP45	Inkjet printhead	1
13	HP45 Standalone V3.00 PCBs	Inkjet controller	1
14	MGN12H	Linear guide carriage	1
15	OA-Y30-P01-02	Carriage block	1
16	OA-Y30-P02-01	Belt clamp T2.5	2
17	OA-Y30-P03-03	Head carrier	1
18	OA-Y30-P04-00	Cable pickup	1
19	OA-Y30-P05-01	Head mounting bracket	2
20	OA-Y30-P06-00	Head arm	2
21	OA-Y30-P07-00	Head arm	1
22	OA-Y30-P08-00	Head clamp	1

3D printed parts glossary

1

Print direction

2 2X

Print direction

3

Print direction

4

Print direction

5 2X

Print direction

6 2X

Print direction

7

Print direction

8

Print direction
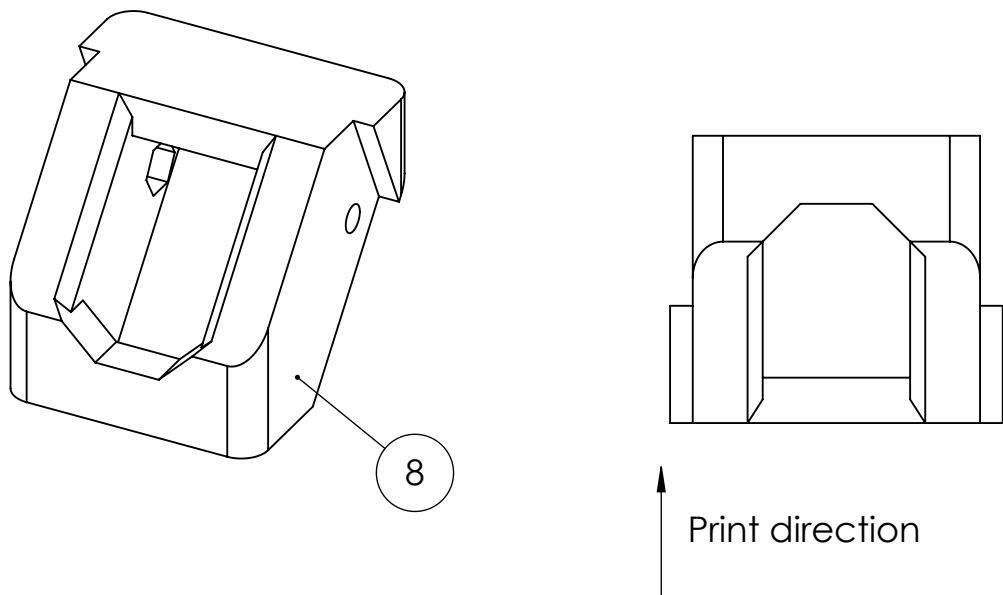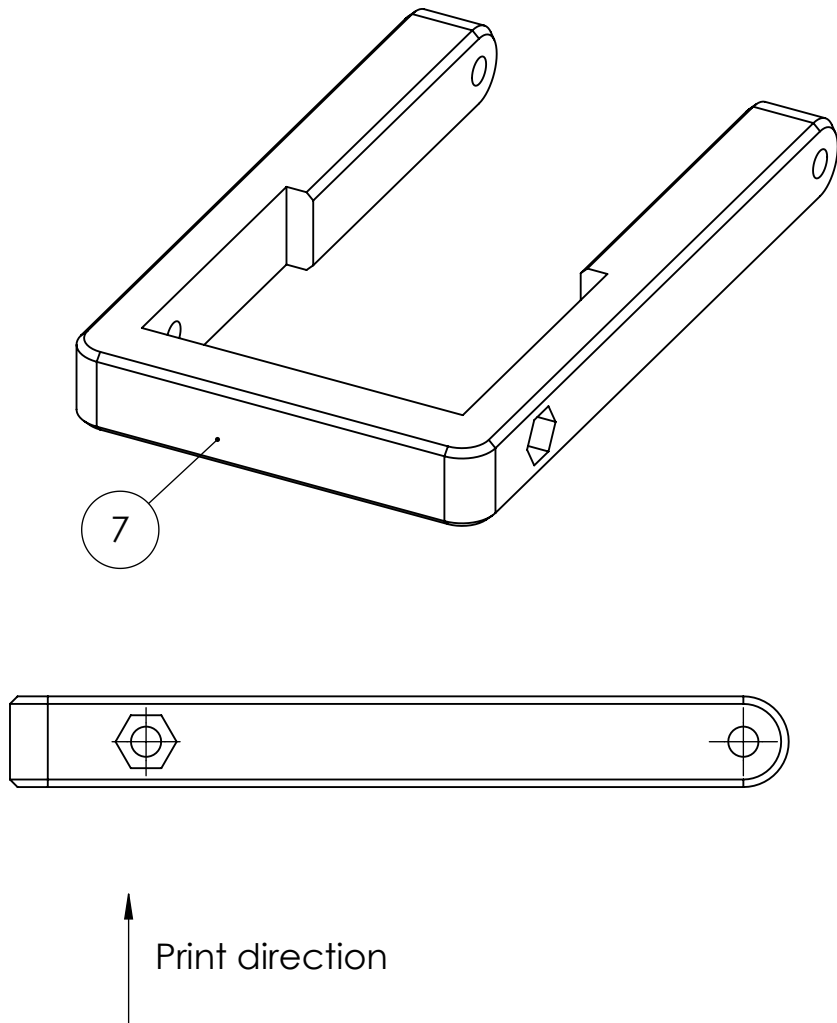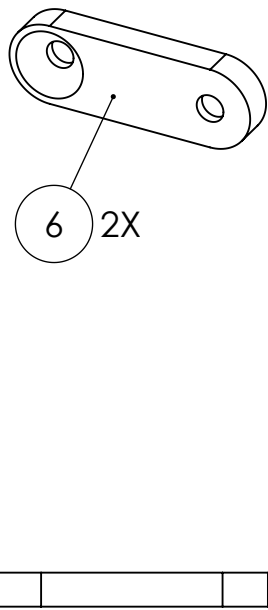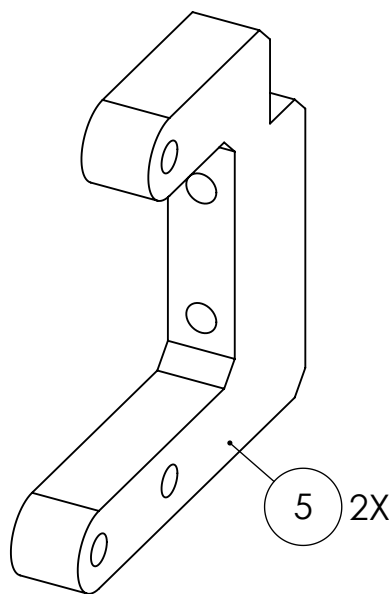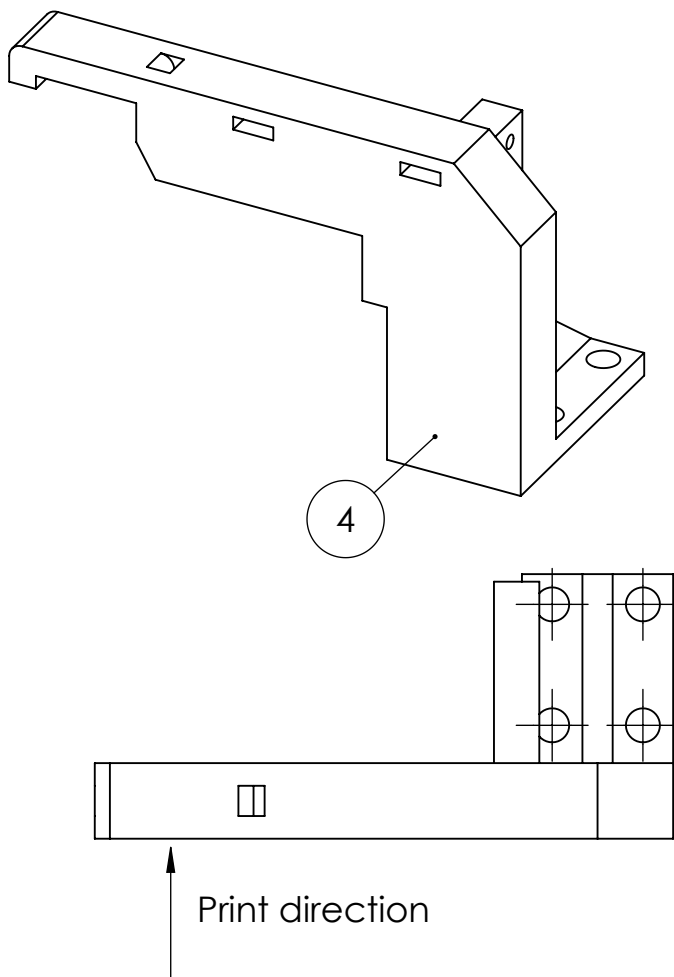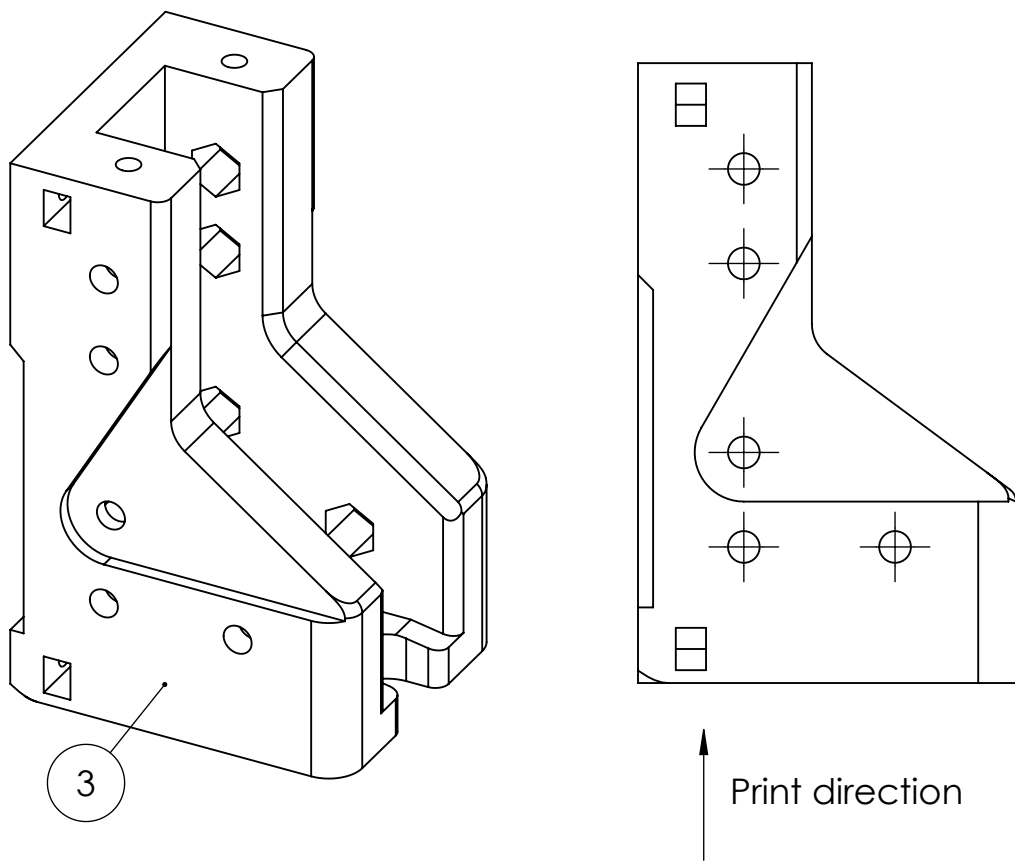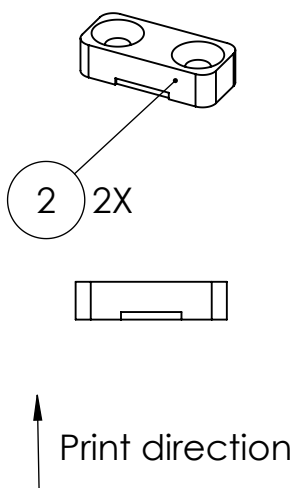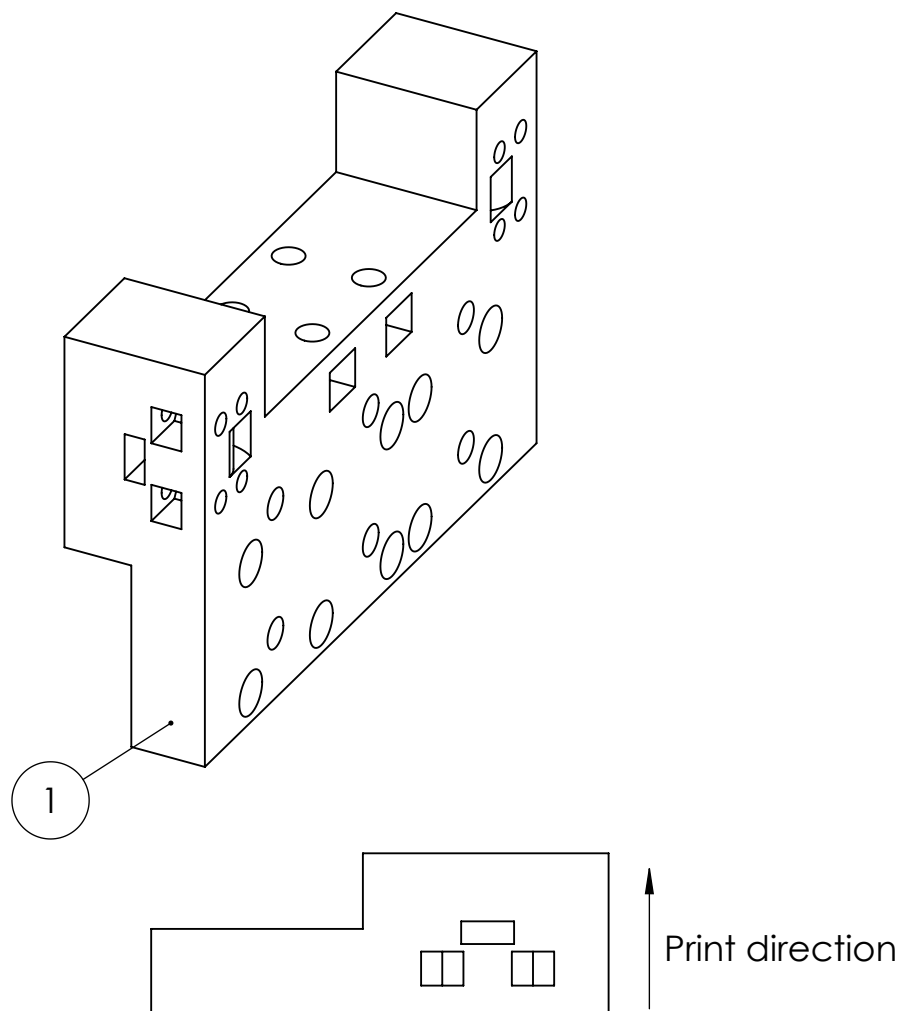
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	OA-Y30-P01-02	Carriage block	1
2	OA-Y30-P02-01	Belt clamp T2.5	2
3	OA-Y30-P03-03	Head carrier	1
4	OA-Y30-P04-00	Cable pickup	1
5	OA-Y30-P05-01	Head mounting bracket	2
6	OA-Y30-P06-00	Head arm	2
7	OA-Y30-P07-00	Head arm	1
8	OA-Y30-P08-00	Head clamp	1

| SCALE:1:1 | MATERIAL: | | Description | |
| DO NOT SCALE DRAWING | | | Carriage assembly | |

TITLE:

OA-Y30-A01-01

A2

Assembly instructions, Printhead
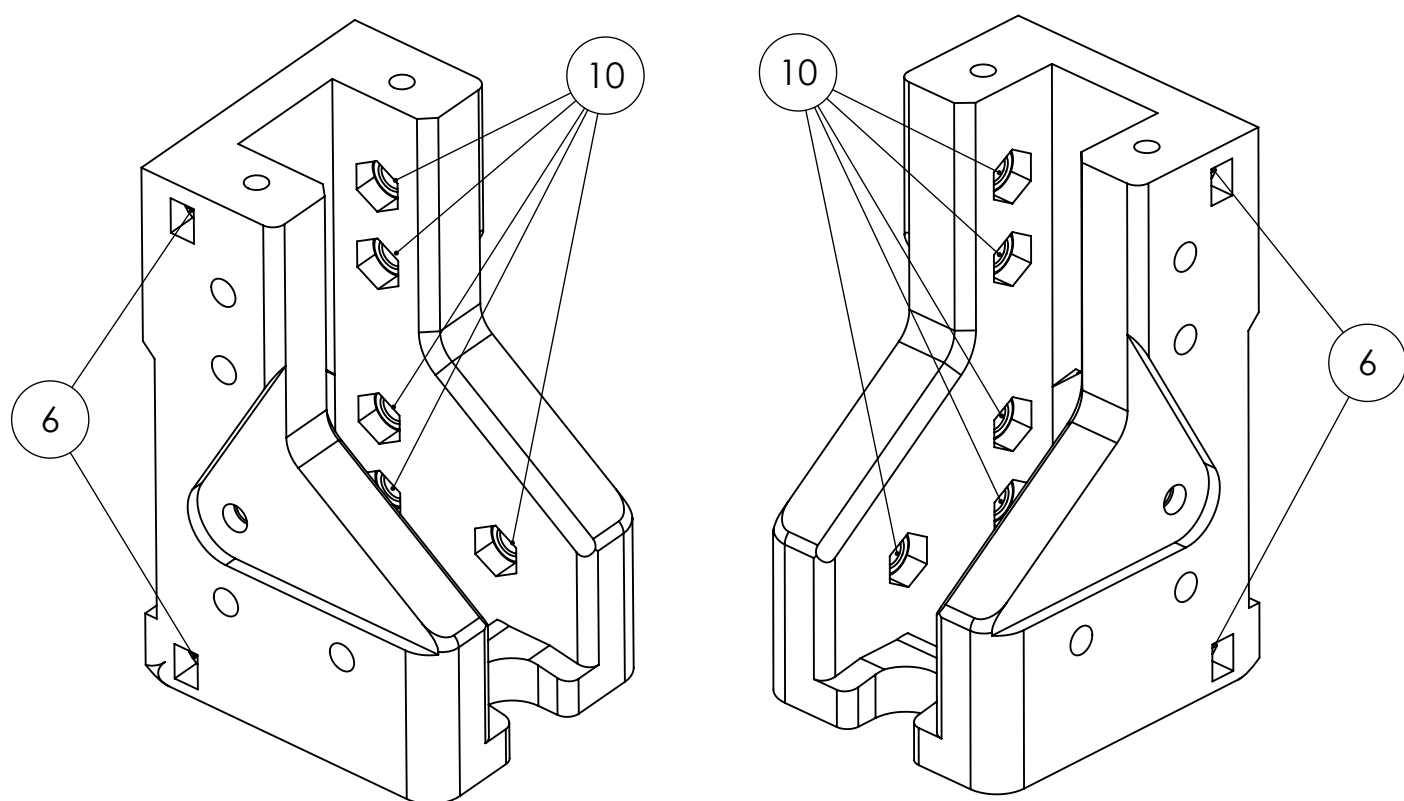
1. Insert nuts in printhead carrier
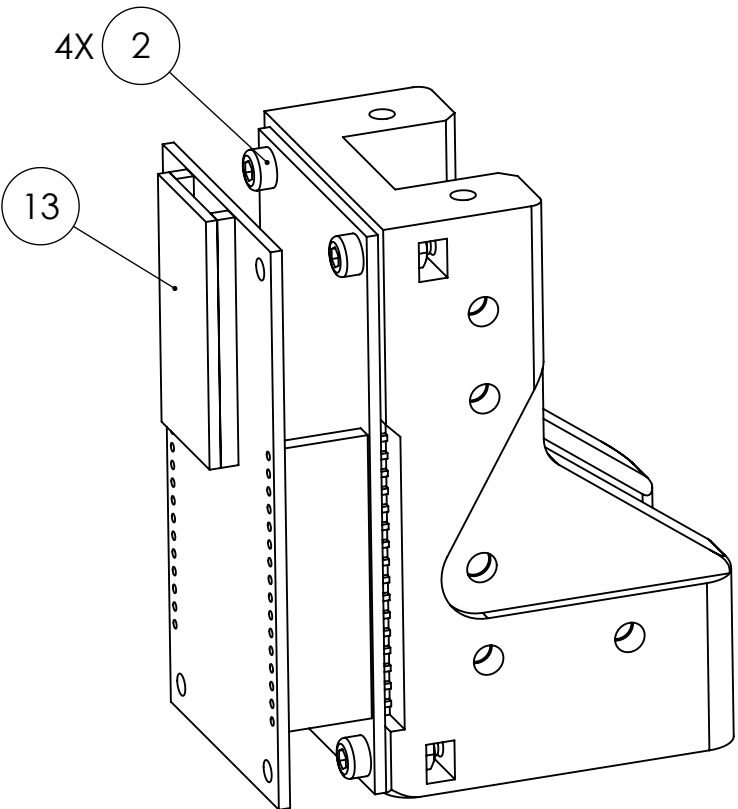
2. Mount the controller
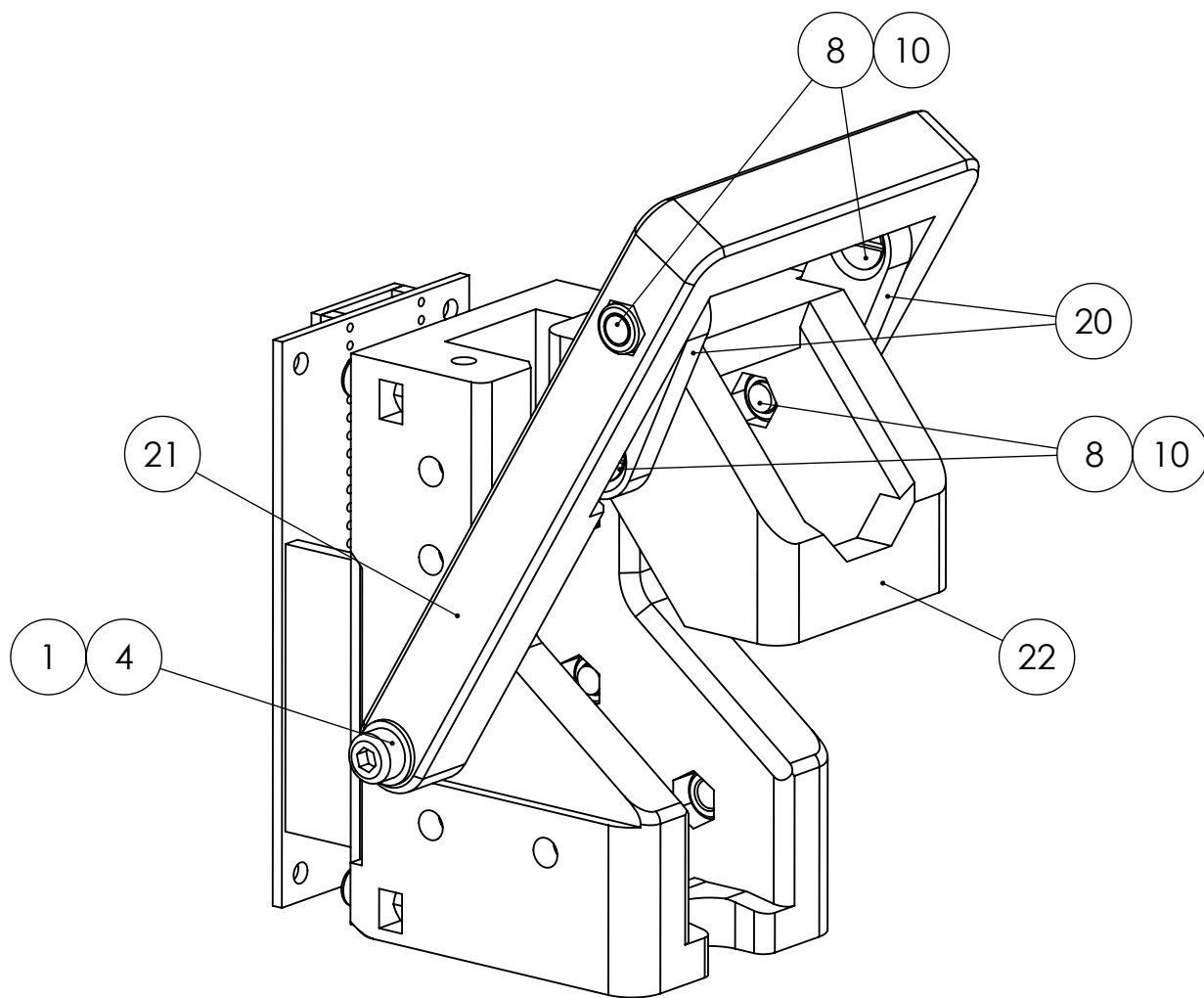
3. Mount arm

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	DIN 0125-1A M4	Washer	12
2	DIN 0912 M3x10	Hex socket head cap screw	8
3	DIN 0912 M4x12	Hex socket head cap screw	4
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5	DIN 0912 M4x30	Hex socket head cap screw	4
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10	DIN 0985 M4	Prevailing torque hex nut	24
11	HEDS-H9720 P	Encoder	1
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13	HP45 Standalone V3.00 PCBs	Inkjet controller	1
14	MGN12H	Linear guide carriage	1
15	OA-Y30-P01-02	Carriage block	1
16	OA-Y30-P02-01	Belt clamp T2.5	2
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18	OA-Y30-P04-00	Cable pickup	1
19	OA-Y30-P05-01	Head mounting bracket	2
20	OA-Y30-P06-00	Head arm	2
21	OA-Y30-P07-00	Head arm	1
22	OA-Y30-P08-00	Head clamp	1

| SCALE:1:1	MATERIAL:	Description	Carriage assembly
DO NOT SCALE DRAWING			

TITLE: OA-Y30-A01-01

Assembly instructions, Carriage
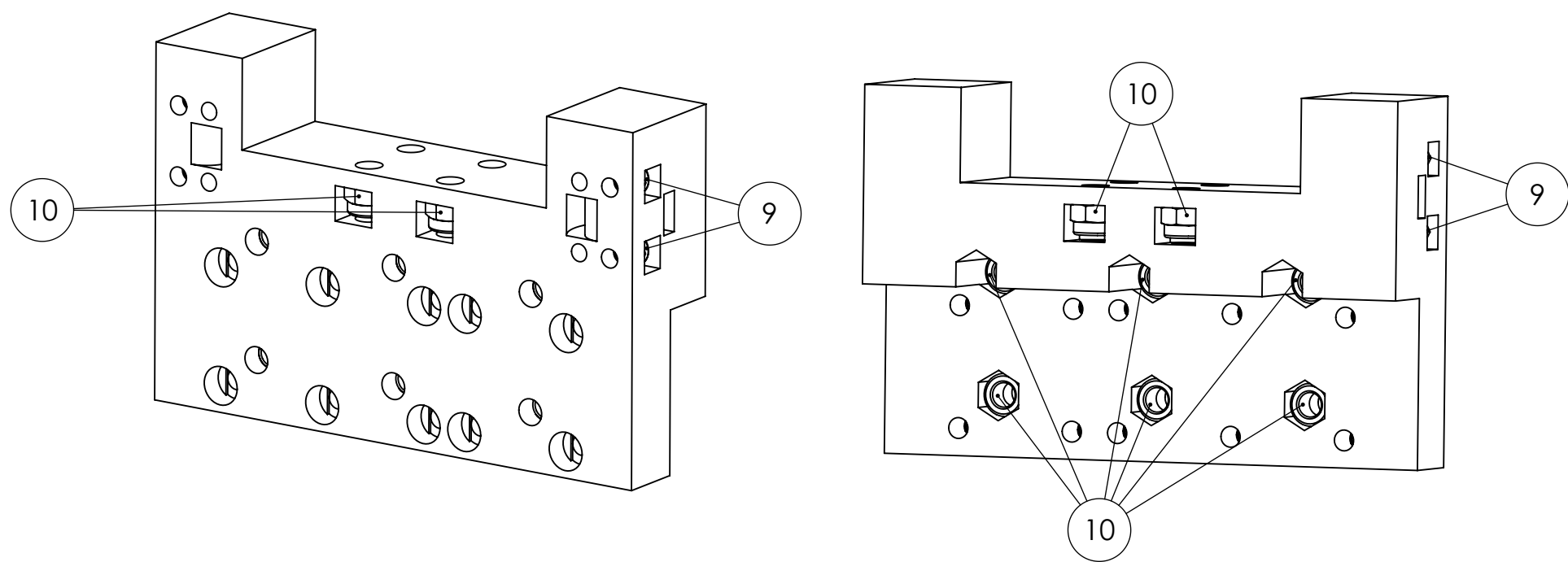
4. Insert nuts in carriage

Zip-tie holes

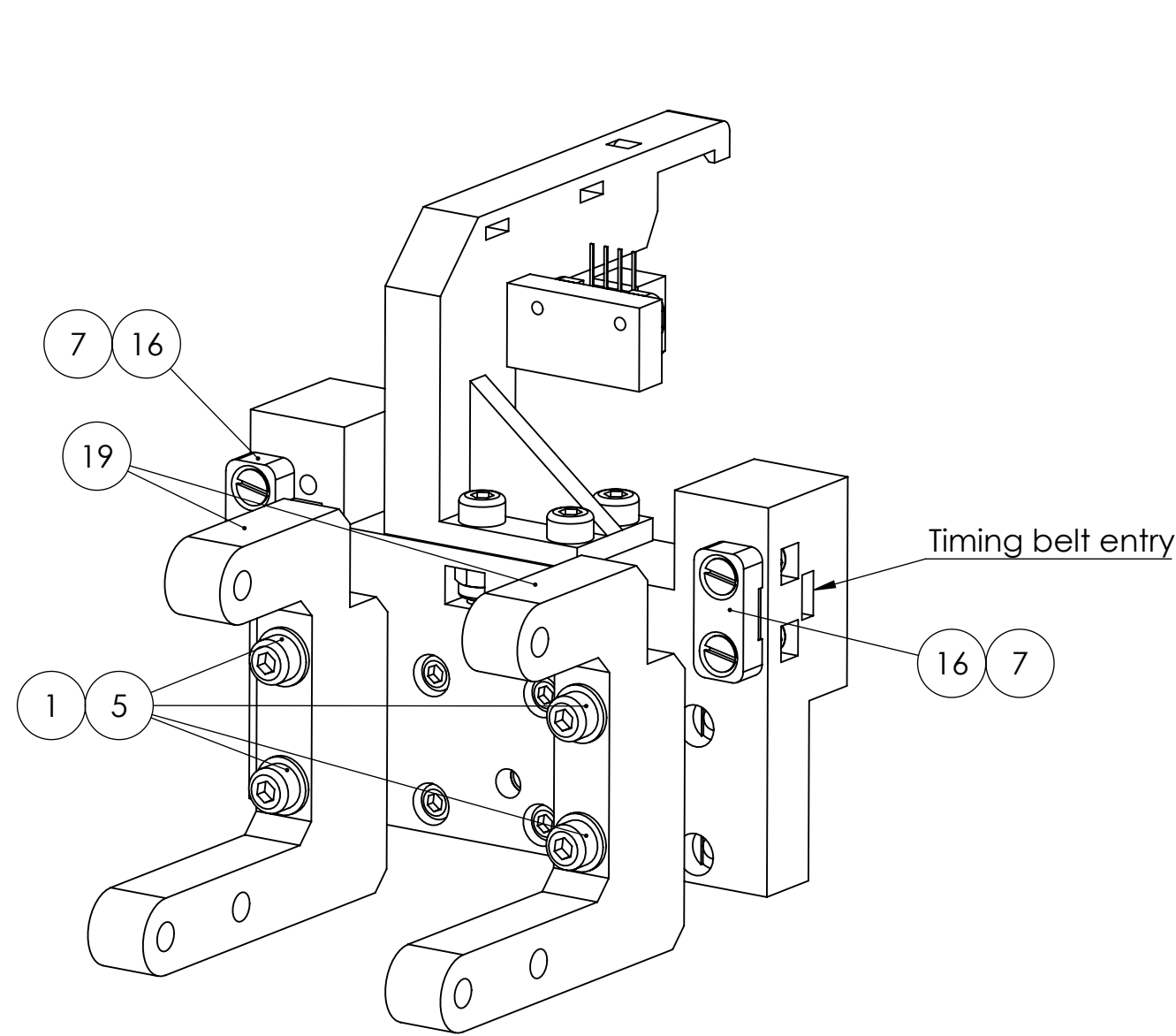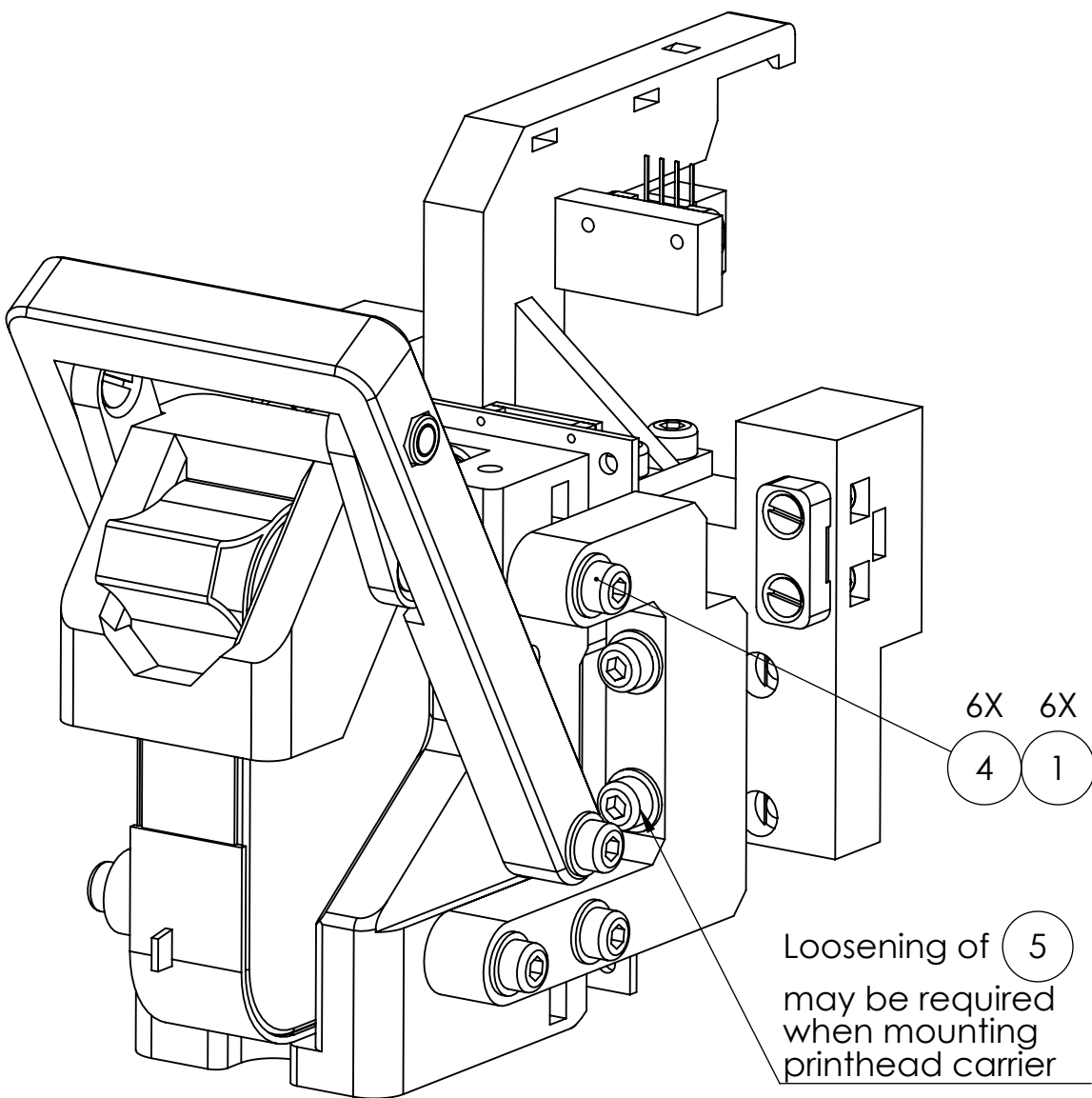Mount using small wood screws (not specified)
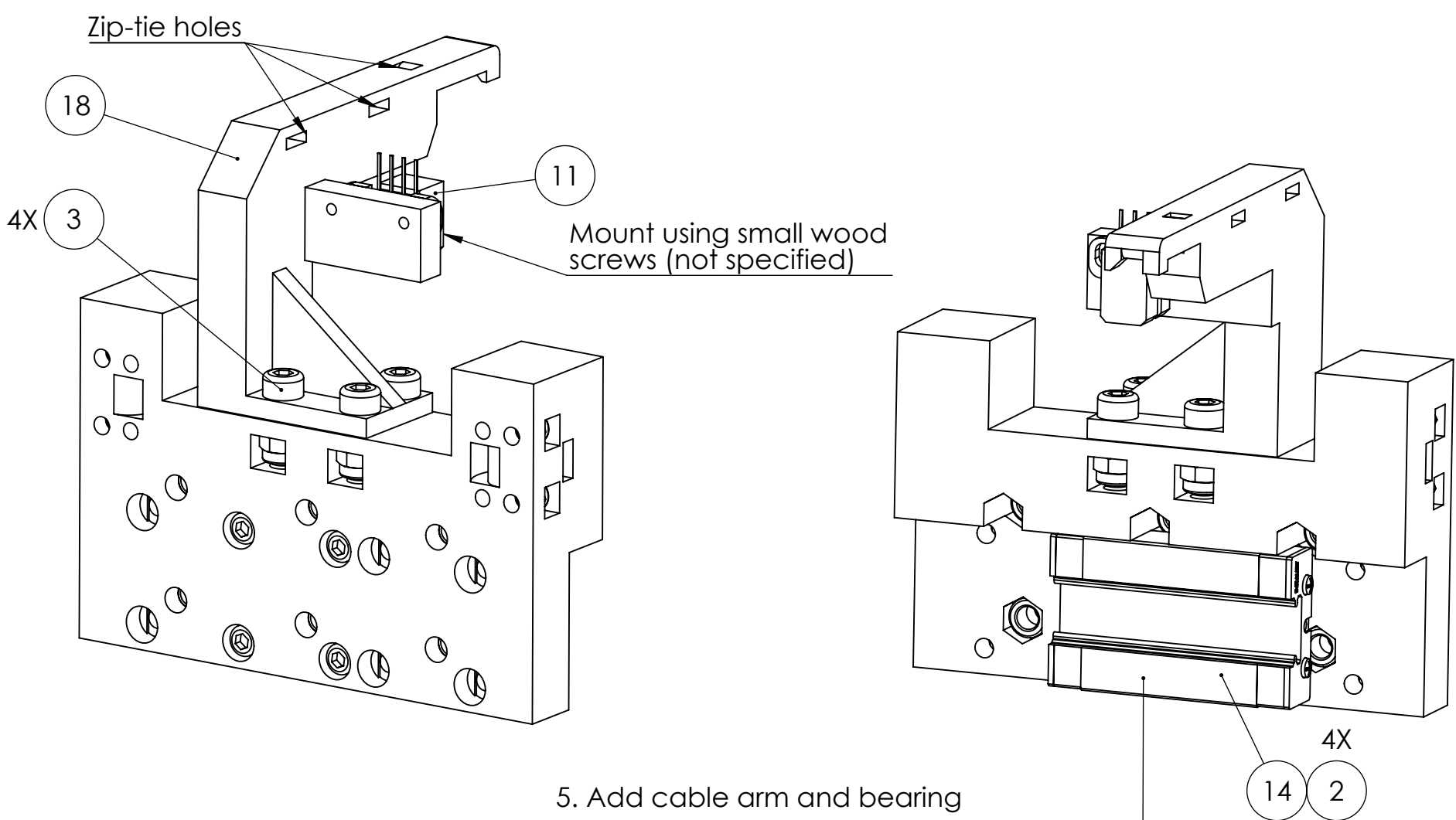
5. Add cable arm and bearing

1 Bearing configuration shown here
Optional 2 bearing configuration possible
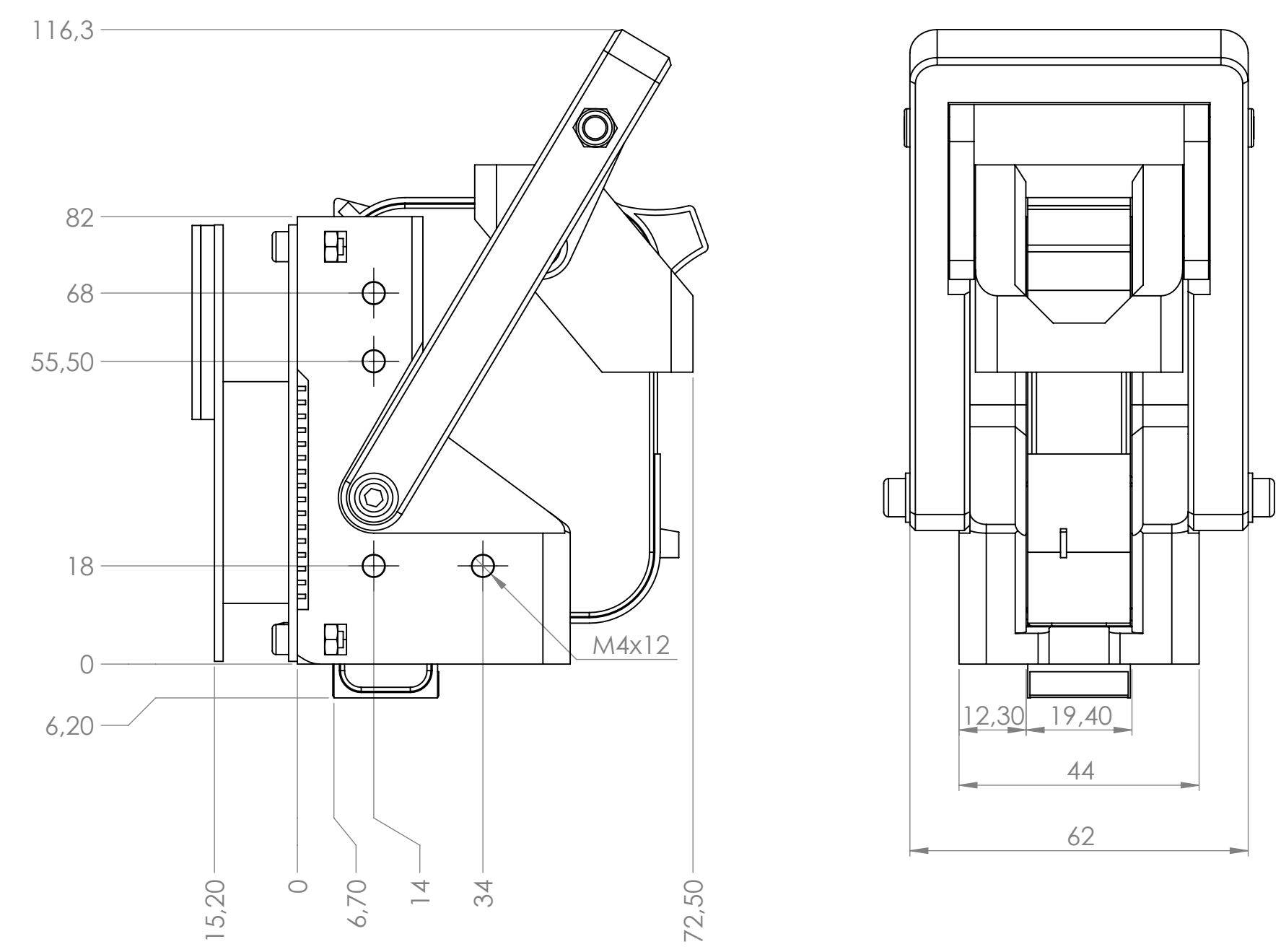
Timing belt entry

6. Add printhead arms

7. Add printhead Carrier

Loosening of 5 may be required when mounting printhead carrier

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
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19	OA-Y30-P05-01	Head mounting bracket	2
20	OA-Y30-P06-00	Head arm	2
21	OA-Y30-P07-00	Head arm	1
22	OA-Y30-P08-00	Head clamp	1

Dimensions

Printhead general dimensions

Carriage holes

M4 (6x)

MGN12H Dimensions

M3x3.5

Bottom of rail