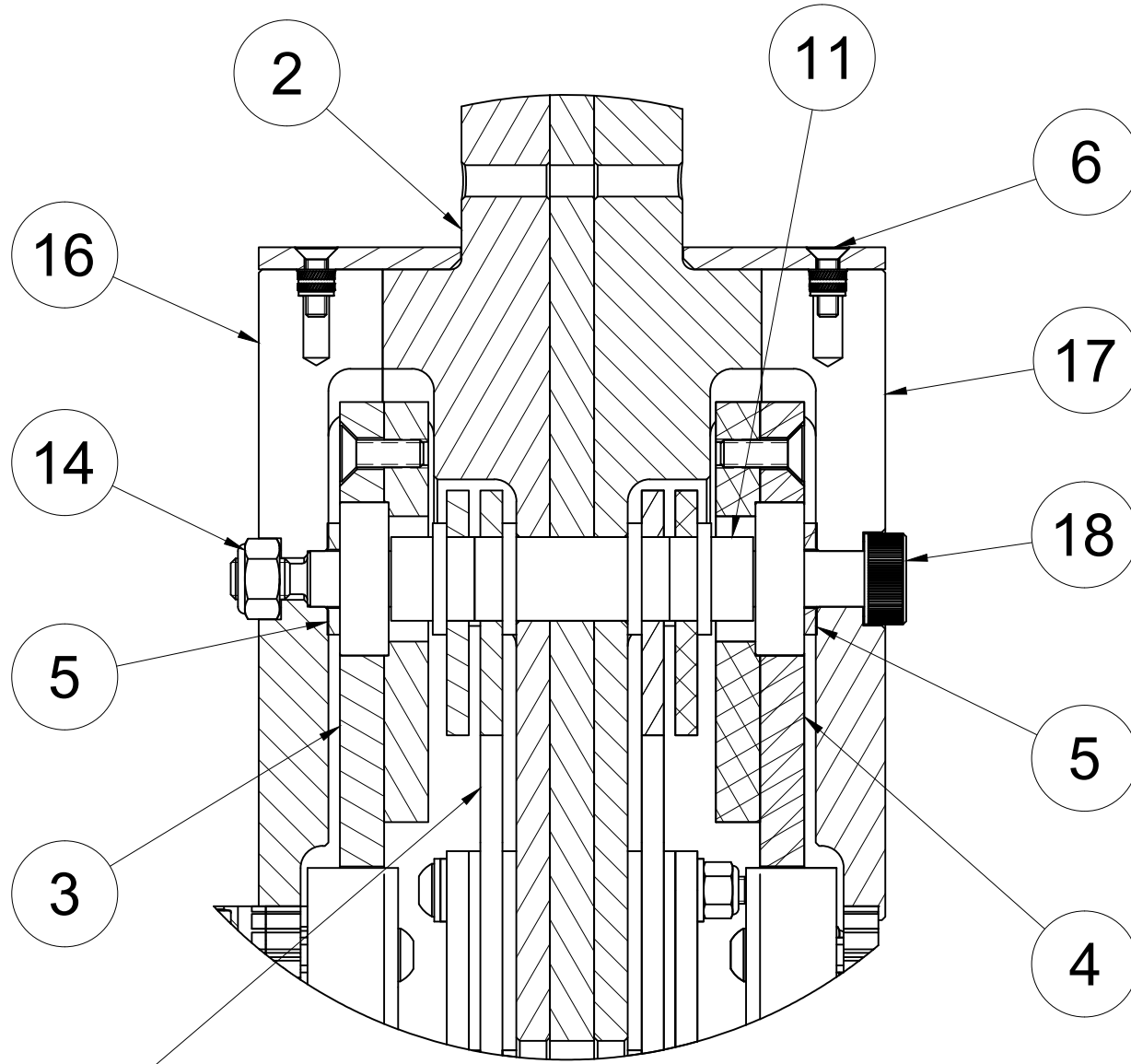


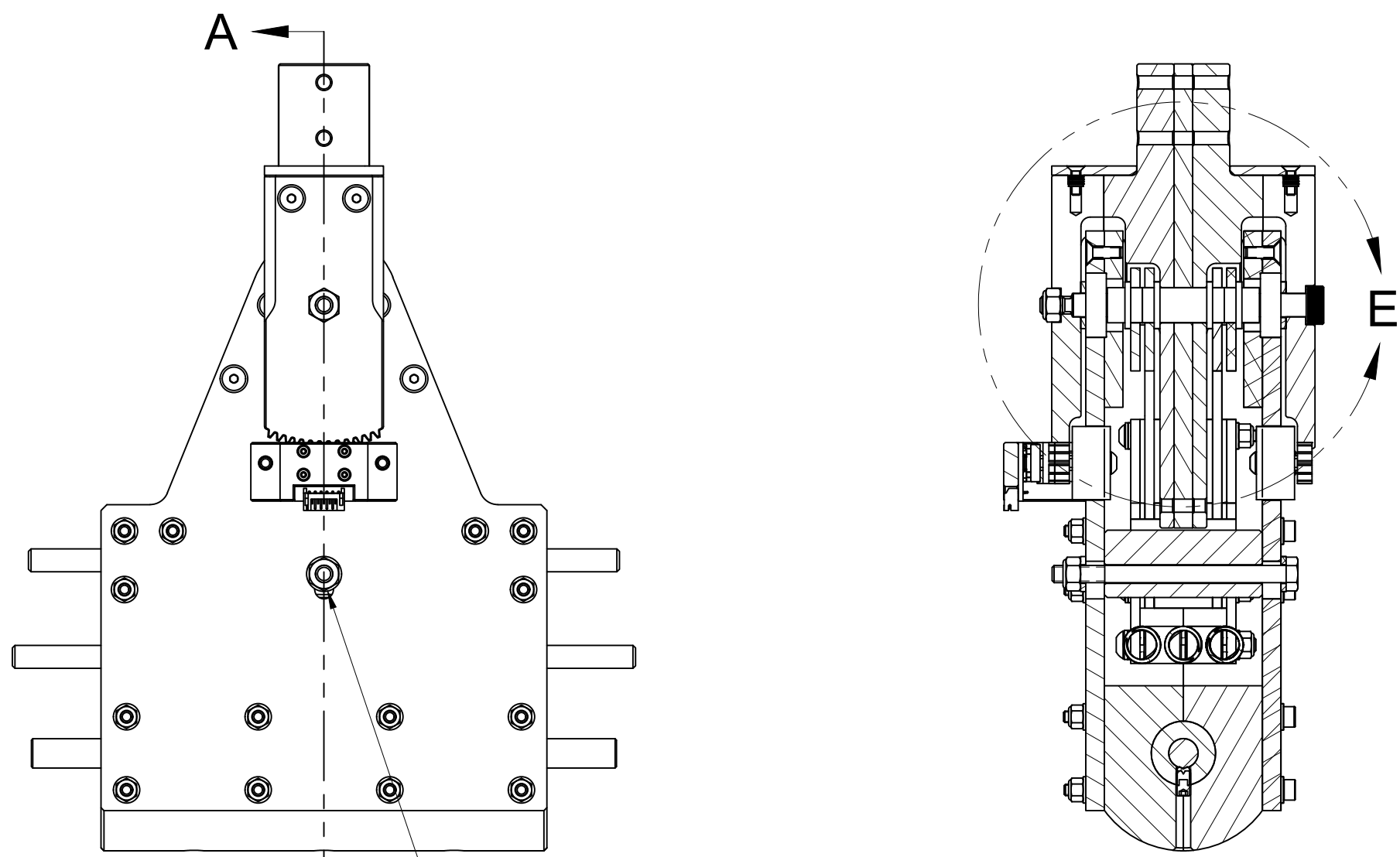
NOTES: (UNLESS OTHERWISE SPECIFIED)

1. SPECIFICATIONS AND DOCUMENTS:  
1.1. ELECTRICAL CONNECTIONS SHALL BE IAW OH-INTERCONNECT.
2. ALL ITEMS NOT EXPLICITLY DEFINED IN THIS DRAWING ARE DEFINED BY THE MASTER CAD MODELS. ALL DIMENSIONS NOT DEFINED ON THIS DRAWING ARE CONTAINED WITHIN THE FOLLOWING MANUFACTURING FILES:  
2.1. FLAT PARTS: <MATERIAL>\_<MATERIAL COLOR, IF APPLICABLE>\_<THICKNESS, IN DECIMAL INCHES>\_<PN>\_<REV>.<VERSION NUMBER OF MODEL>.DXF  
2.2. FDM 3D PRINTED PARTS: FDM\_<PN>\_<REV>.<VERSION # OF MODEL>.STL  
2.3. MACHINED OR BENT PARTS: <PN>\_<REV>.<VERSION # OF MODEL>.STEP

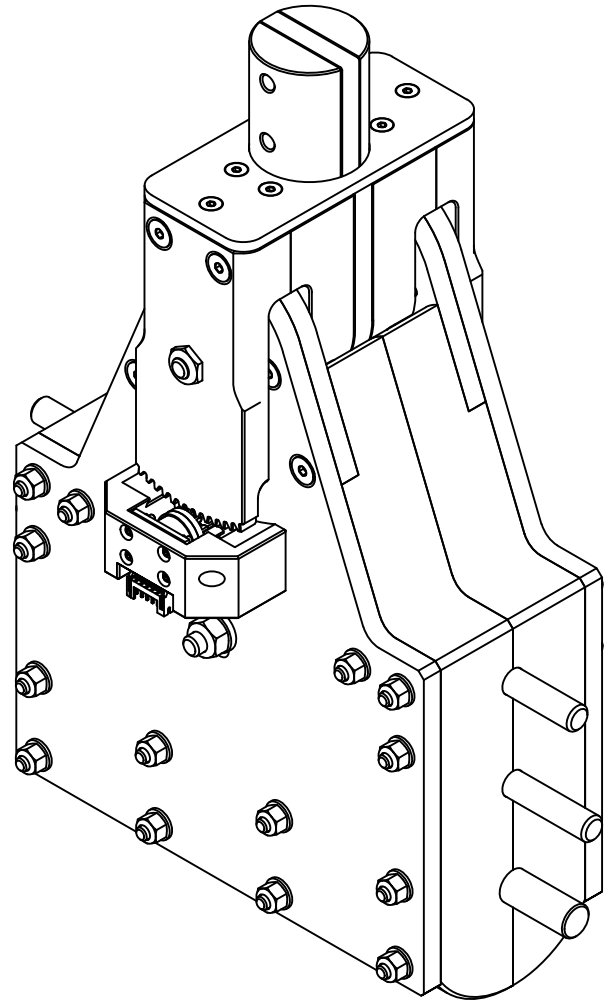
REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE	02/25/2024	



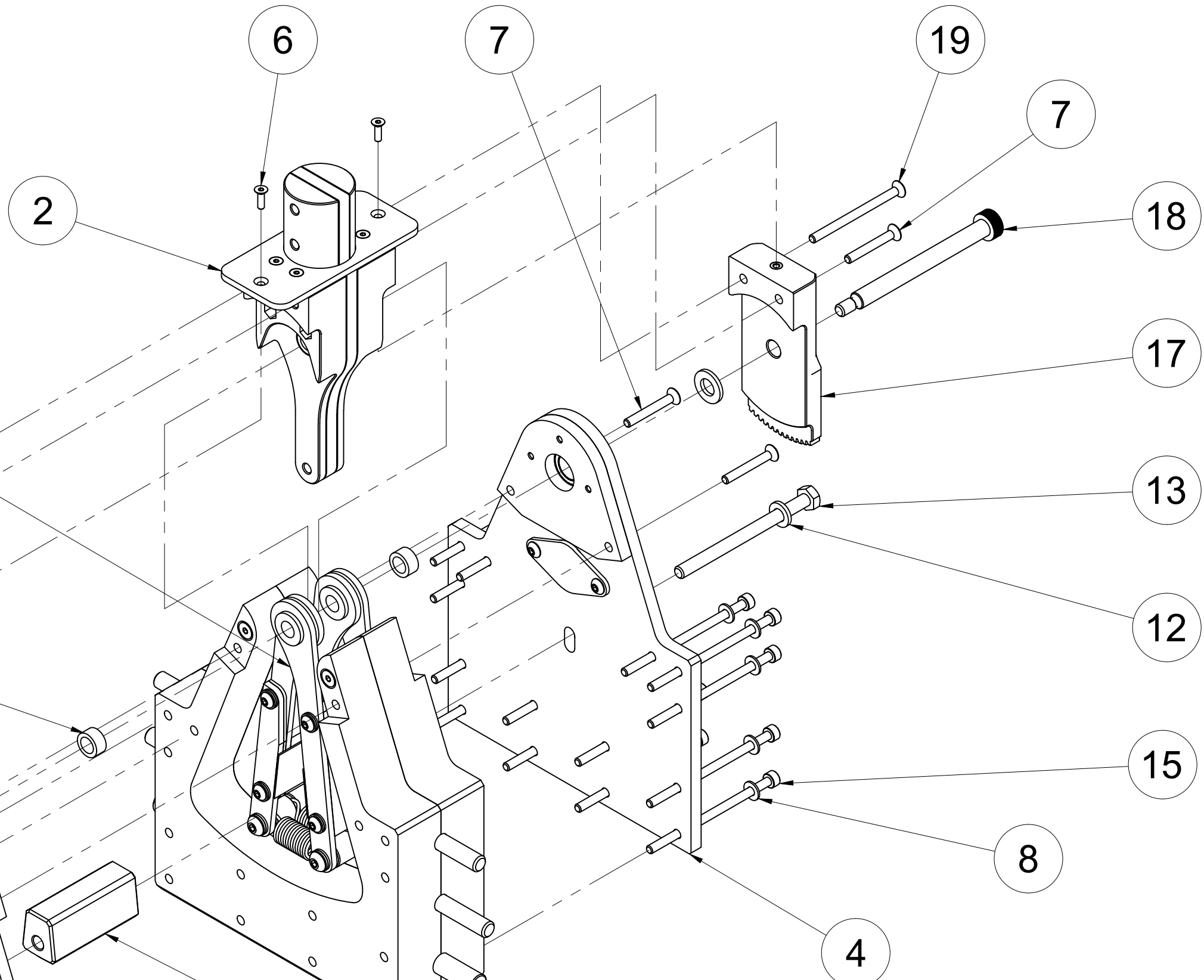
DETAIL E  
SCALE 1:1



SECTION A-A  
SCALE 1:2



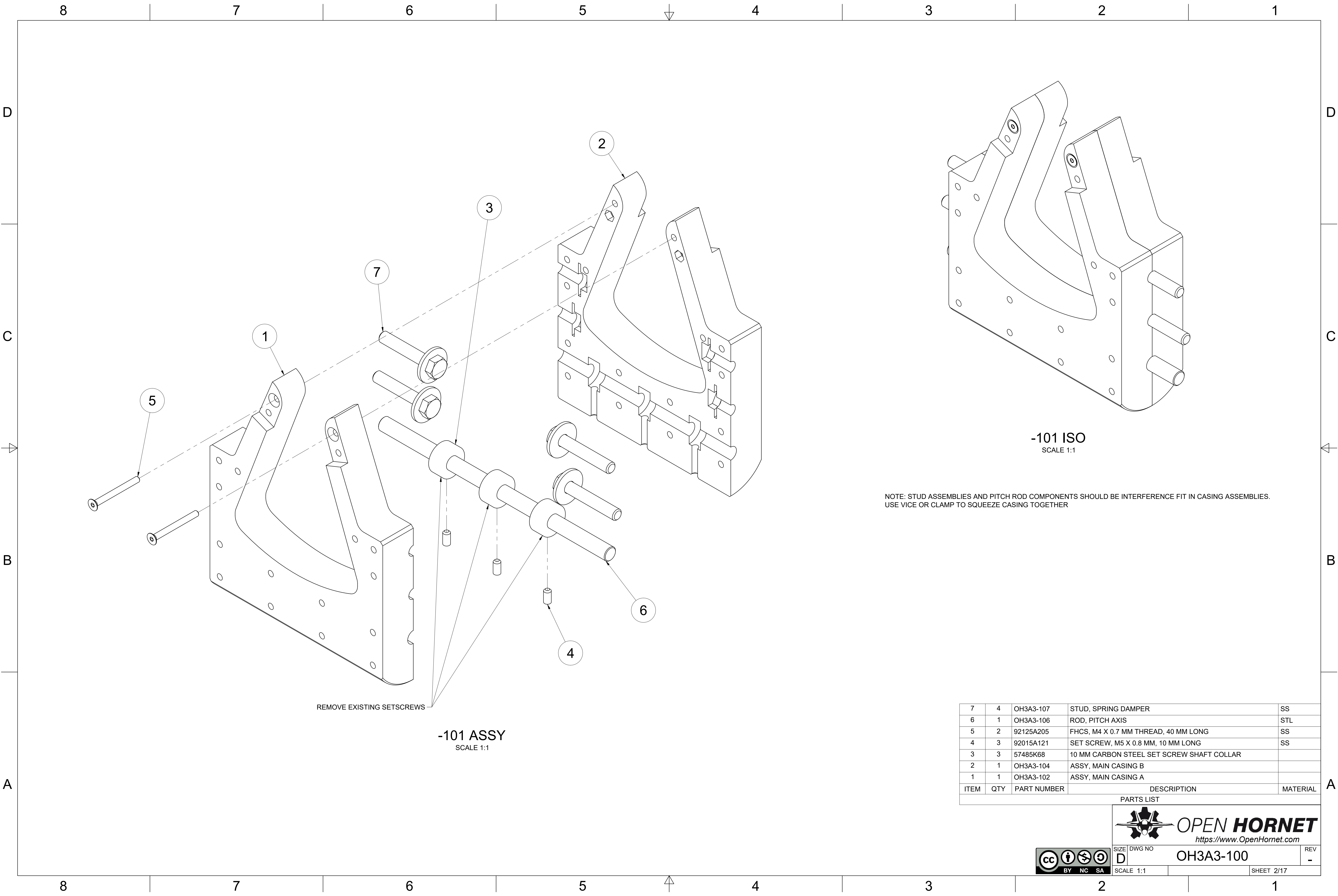
-100 ISO  
SCALE 1:2



-100 ASSY  
SCALE 1:2

20	1	OH3A3-125	ASSY, SCISSORS	
19	2	92125A373	FHCS, M4 X 0.7 MM THREAD, 55 MM LONG	SS
18	1	92981A230	SHOULDER SCREW, M6 X 1MM, 8MM SHOULDER DIA, 80MM SHOULDER LEN	STL
17	1	OH3A3-117	ASSY, ROLL DAMPER B	
16	1	OH3A3-115	ASSY, ROLL DAMPER ARM A	
15	14	91292A318	SHCS, M4 X 0.7 MM, 75 MM LONG	SS
14	2	93625A250	NYLOC HEX NUT, M6 X 1 MM	SS
13	1	91287A254	HHS, M6 X 1 MM, 80 MM LONG	SS
12	2	93475A250	FLAT WASHER, M6	SS
11	2	6658K734	8MM ID, 12MM OD, 6MM LG, OIL-EMBEDDED BRONZE SLEEVE BEARING	BRONZE
10	1	OH3A3-124	SCISSOR STOP	PETG
9	14	93625A150	NYLOC HEX NUT, M4 X 0.7 MM	SS
8	28	93475A230	FLAT WASHER, M4	SS
7	6	92125A203	FHCS - M4 X 0.7 MM THREAD, 30 MM LONG	SS
6	2	92125A130	FHCS, M3 X 0.5 MM, 10 MM LONG	SS
5	2	93475A270	93475A270 - FLAT WASHER, M8	SS
4	1	OH3A3-122	ASSY, AFT MAIN PLATE	
3	1	OH3A3-118	ASSY, FWD PLATE	
2	1	OH3A3-108	ASSY, PIVOTING STICK RISER MOUNT	
1	1	OH3A3-101	ASSY, MAIN CASING	
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

PARTS LIST			
UNLESS OTHERWISE SPECIFIED:		UOS INCH TOLERANCES ARE:	
DIMENSIONS ARE IN INCHES.		DECIMALS:	
DUAL DIMENSIONS ARE IN MILLIMETERS AND ENCLOSED IN SQUARE BRACKETS.		.X ± .1	
INTERPRET DRAWING IAW ASME Y14.100-2017.		.XX ± .03	
INTERPRET DIM AND TOL IAW ASME Y14.5-2009.		.XXX ± .010	
REMOVE ALL BURRS AND SHARP EDGES TO .05 MAX.		ANGLES:	
DIMENSIONS APPLY BEFORE FINISH.		MACHINED ± .5°	
		LOCATING ± .5°	
		FORMED ± 2°	
		CHAMFERS ± 5°	
		DRILLED HOLE DIAMETERS:	
		.0135 - .125: +.004/-0.001	
		.126 - .250: +.005/-0.001	
		.251 - .500: +.006/-0.001	
		.501 - .750: +.008/-0.001	
		.751 - 1.000: +.010/-0.001	
		1.001 - 2.000: +.012/-0.001	
DESIGNED	E. SCOTT	10/6/2022	
CHECKED	J. STEENSEN	05/03/2023	
DRAWN	E. SCOTT	10/6/2022	
		CC BY NC SA	
		OPEN HORNET	
		https://www.OpenHornet.com	
		TITLE	
		ASSY, STICK YOKE	
		CENTER TUB	
SIZE	D	DWG NO	OH3A3-100
SCALE	1:2	DO NOT SCALE DWG	SHEET 1/17



-101 ISO  
SCALE 1:1

NOTE: STUD ASSEMBLIES AND PITCH ROD COMPONENTS SHOULD BE INTERFERENCE FIT IN CASING ASSEMBLIES.  
USE VICE OR CLAMP TO SQUEEZE CASING TOGETHER

REMOVE EXISTING SETSCREWS

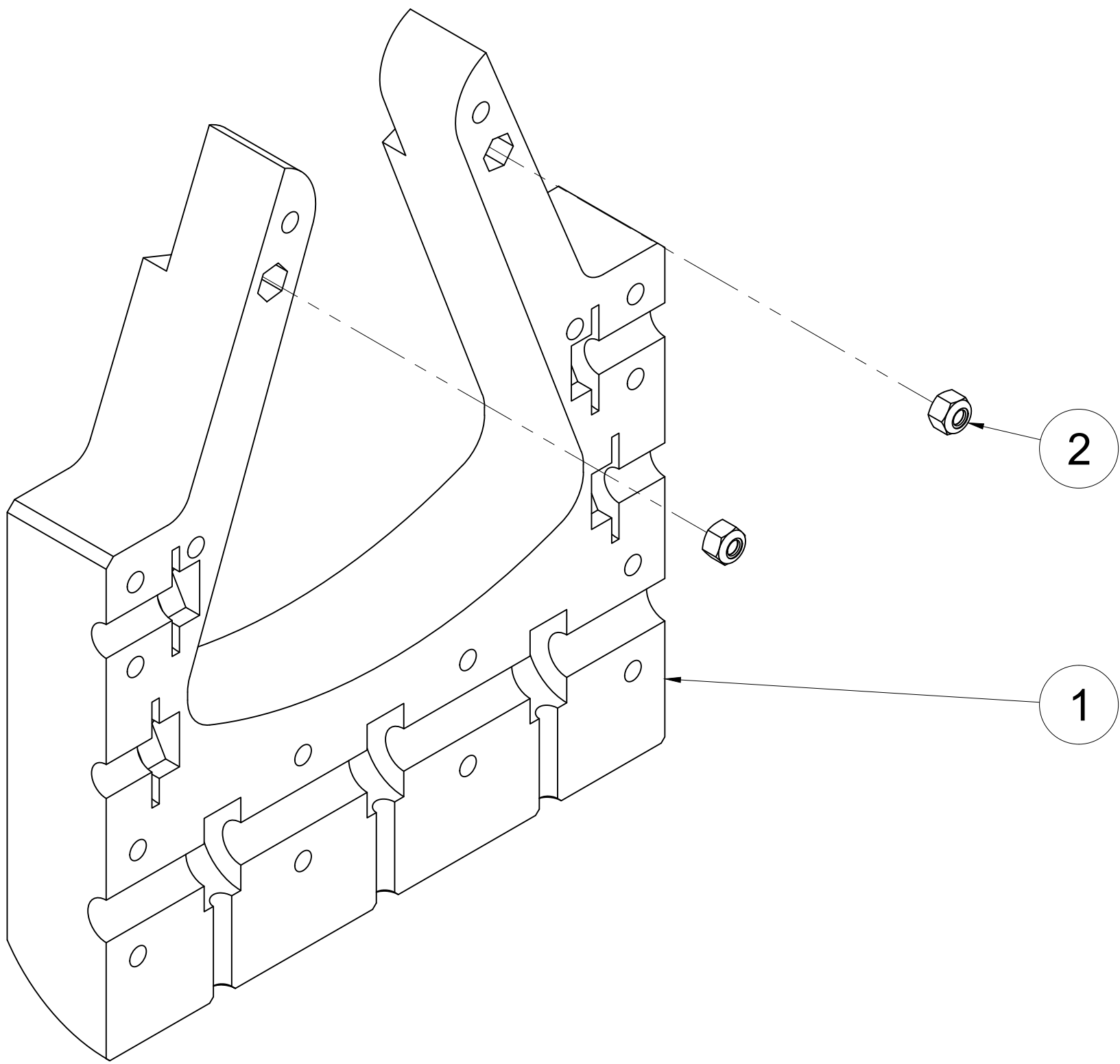
-101 ASSY  
SCALE 1:1

7	4	OH3A3-107	STUD, SPRING DAMPER	SS
6	1	OH3A3-106	ROD, PITCH AXIS	STL
5	2	92125A205	FHCS, M4 X 0.7 MM THREAD, 40 MM LONG	SS
4	3	92015A121	SET SCREW, M5 X 0.8 MM, 10 MM LONG	SS
3	3	57485K68	10 MM CARBON STEEL SET SCREW SHAFT COLLAR	
2	1	OH3A3-104	ASSY, MAIN CASING B	
1	1	OH3A3-102	ASSY, MAIN CASING A	
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
PARTS LIST				

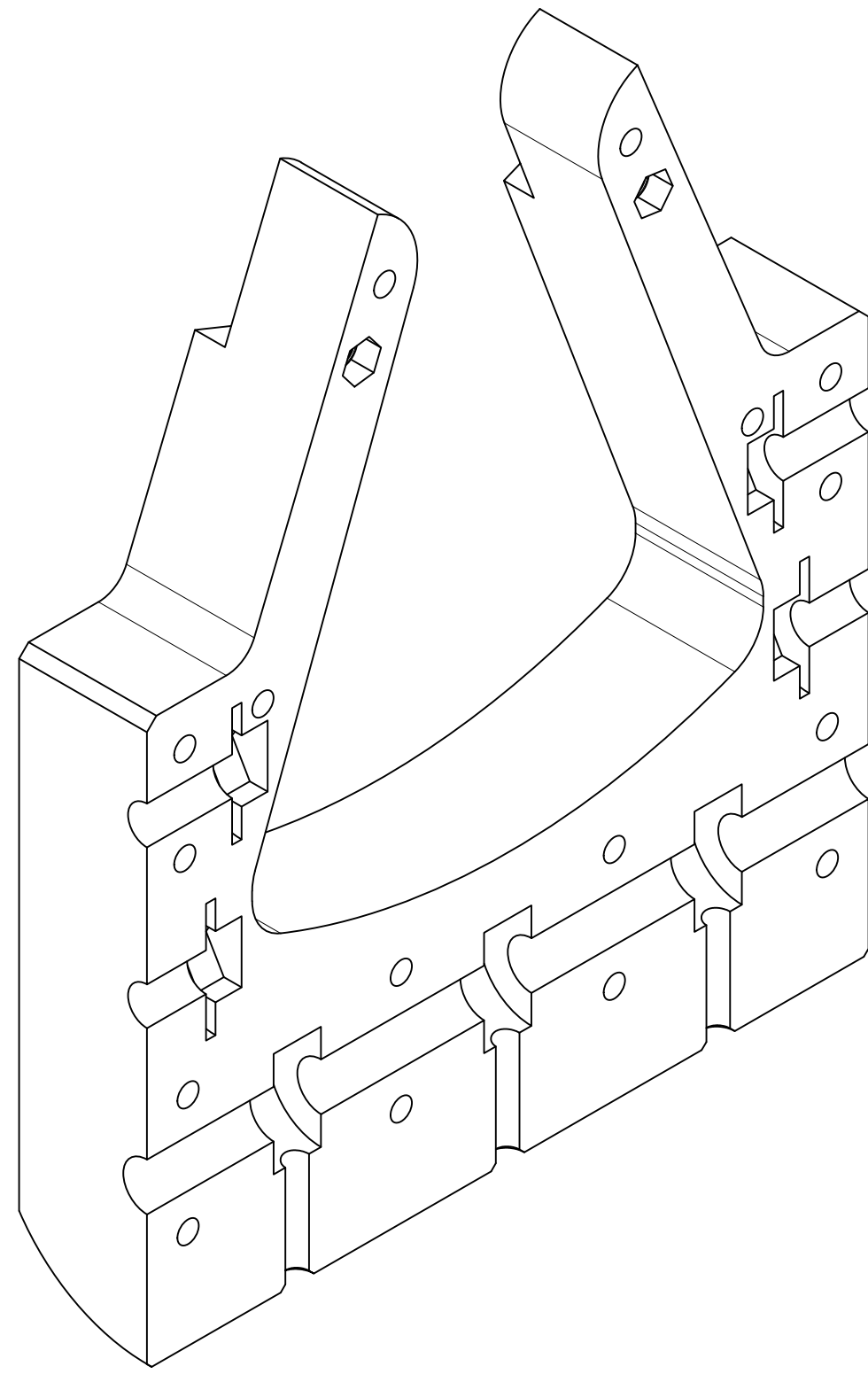


SIZE	DWG NO	REV
D	OH3A3-100	-
SCALE 1:1		SHEET 2/17





-102 ASSY  
SCALE 1:1



-102 ISO  
SCALE 1:1

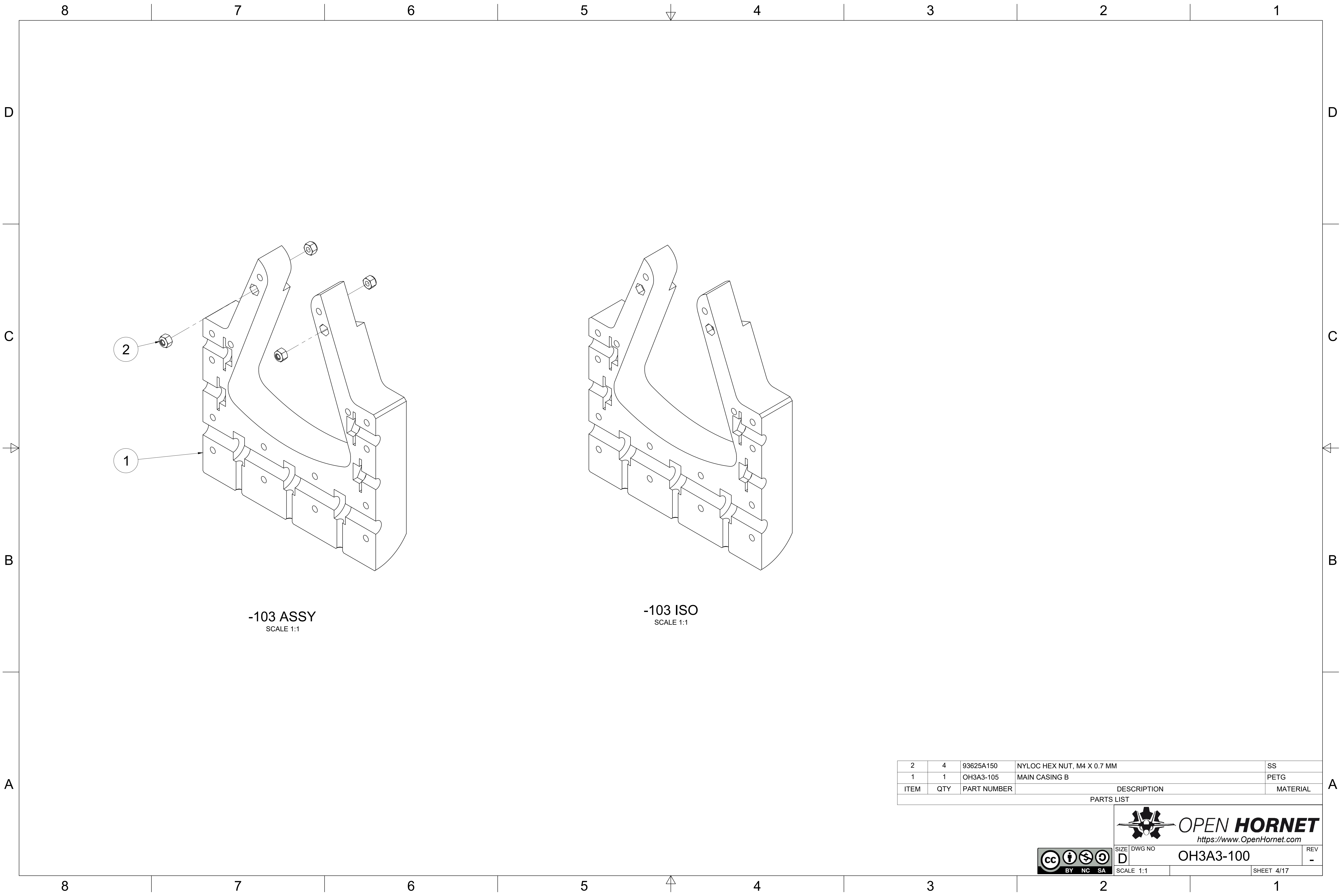
2	2	93625A150	NYLOC HEX NUT, M4 X 0.7 MM	SS
1	1	OH3A3-103	MAIN CASING A	PETG
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
PARTS LIST				





**OPEN HORNET**  
<https://www.OpenHornet.com>

SIZE	DWG NO	REV
D	OH3A3-100	-
SCALE 1:1	SHEET 3/17	



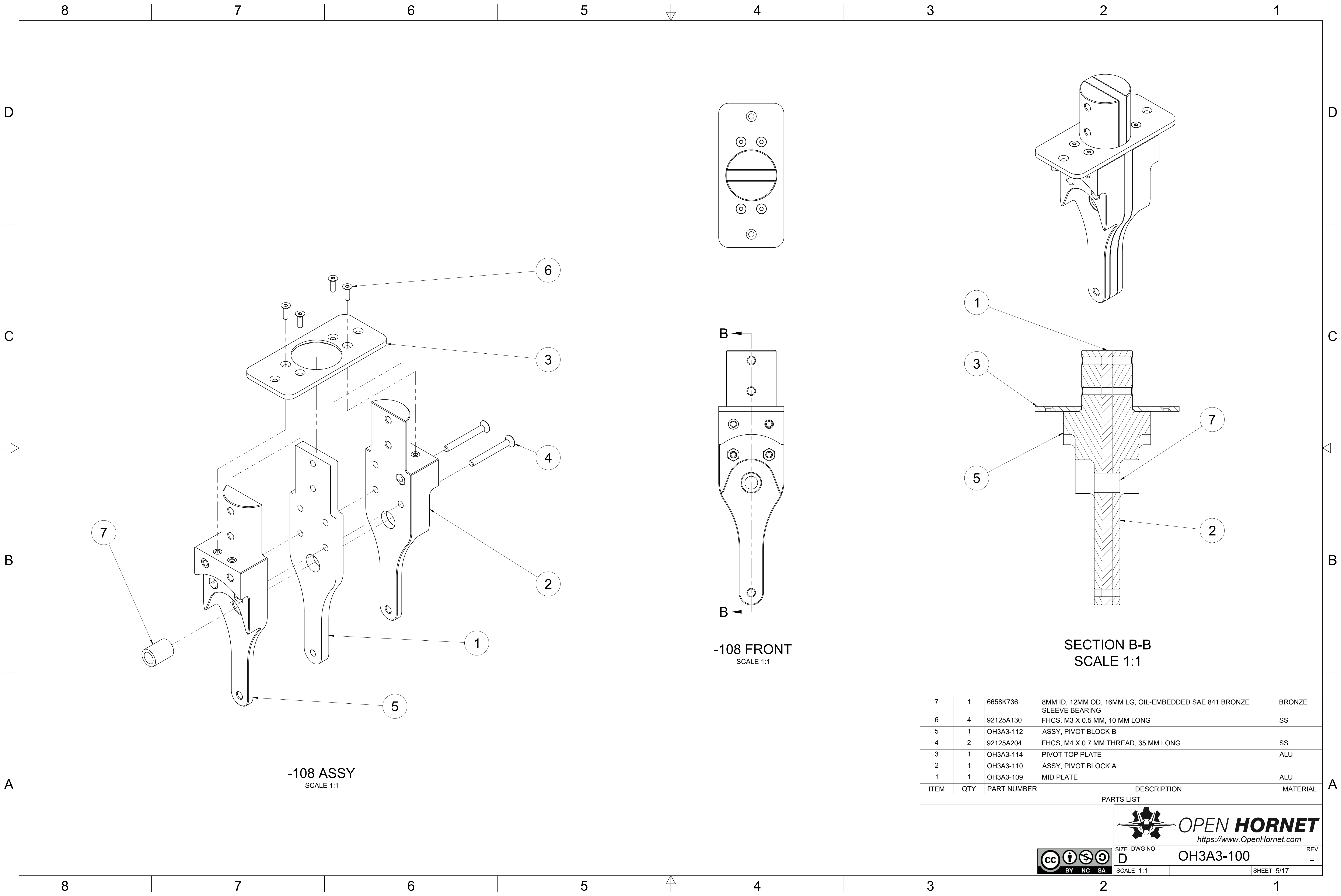
-103 ASSY  
SCALE 1:1

-103 ISO  
SCALE 1:1

2	4	93625A150	NYLOC HEX NUT, M4 X 0.7 MM	SS
1	1	OH3A3-105	MAIN CASING B	PETG
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
PARTS LIST				



SIZE	DWG NO	REV
D	OH3A3-100	-
SCALE 1:1		SHEET 4/17



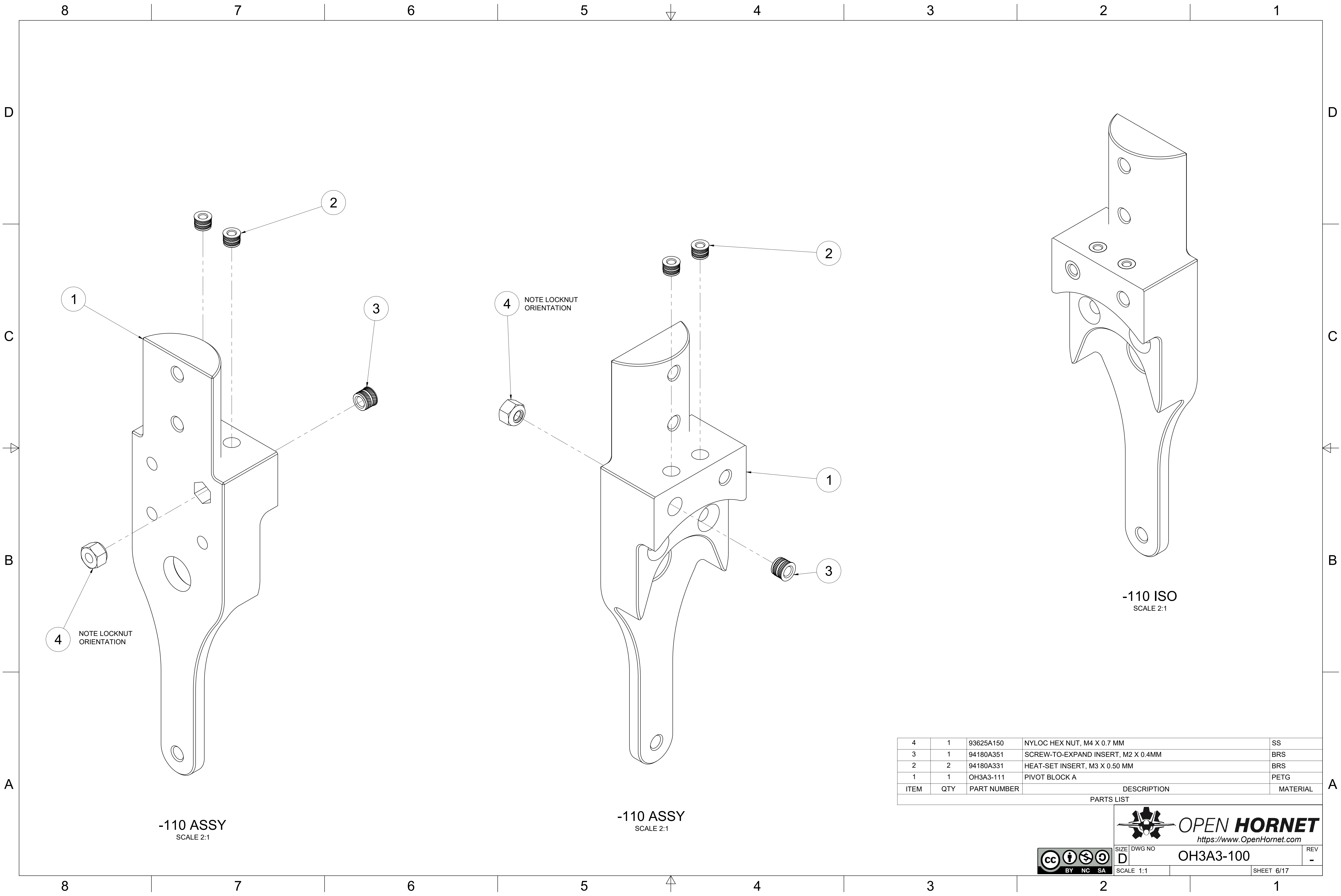
7	1	6658K736	8MM ID, 12MM OD, 16MM LG, OIL-EMBEDDED SAE 841 BRONZE SLEEVE BEARING	BRONZE
6	4	92125A130	FHCS, M3 X 0.5 MM, 10 MM LONG	SS
5	1	OH3A3-112	ASSY, PIVOT BLOCK B	
4	2	92125A204	FHCS, M4 X 0.7 MM THREAD, 35 MM LONG	SS
3	1	OH3A3-114	PIVOT TOP PLATE	ALU
2	1	OH3A3-110	ASSY, PIVOT BLOCK A	
1	1	OH3A3-109	MID PLATE	ALU
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
PARTS LIST				



**OPEN HORNET**  
<https://www.OpenHornet.com>



SIZE	DWG NO	REV
D	OH3A3-100	-
SCALE 1:1		SHEET 5/17



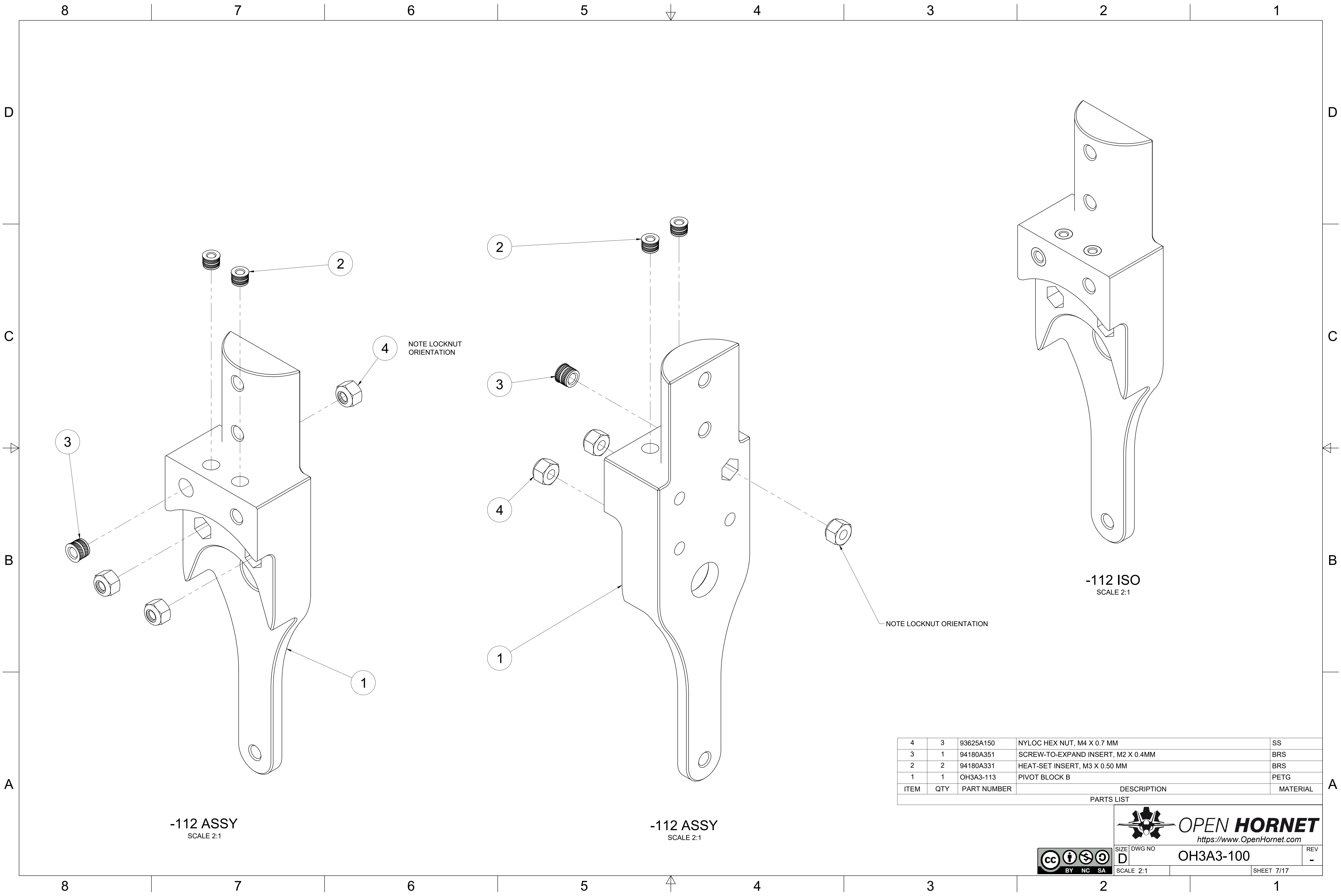
4	1	93625A150	NYLOC HEX NUT, M4 X 0.7 MM	SS
3	1	94180A351	SCREW-TO-EXPAND INSERT, M2 X 0.4MM	BRS
2	2	94180A331	HEAT-SET INSERT, M3 X 0.50 MM	BRS
1	1	OH3A3-111	PIVOT BLOCK A	PETG
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
PARTS LIST				

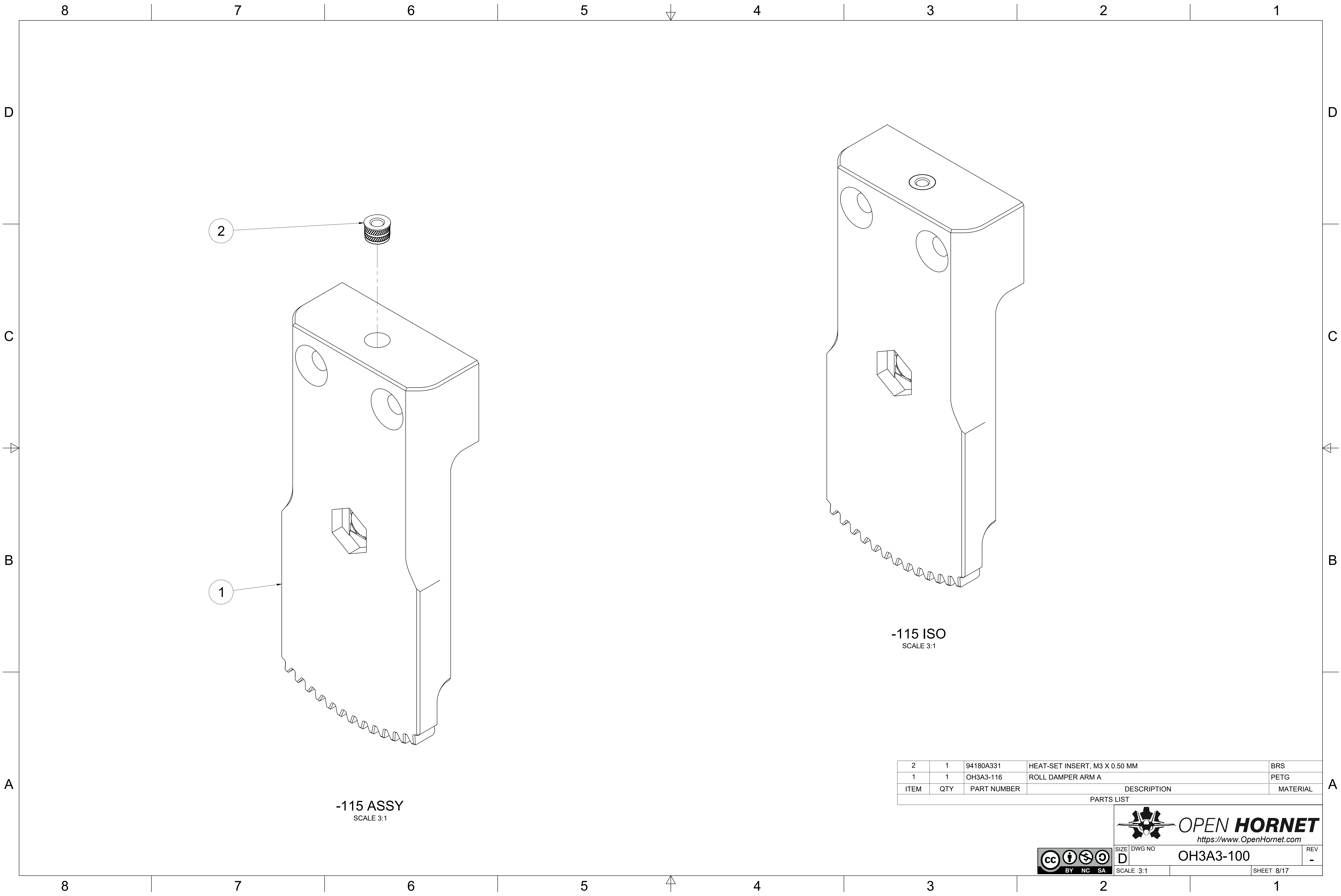


**OPEN HORNET**  
<https://www.OpenHornet.com>

SIZE	DWG NO	REV
D	OH3A3-100	-
SCALE 1:1	SHEET 6/17	







2	1	94180A331	HEAT-SET INSERT, M3 X 0.50 MM	BRS
1	1	OH3A3-116	ROLL DAMPER ARM A	PETG
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
PARTS LIST				

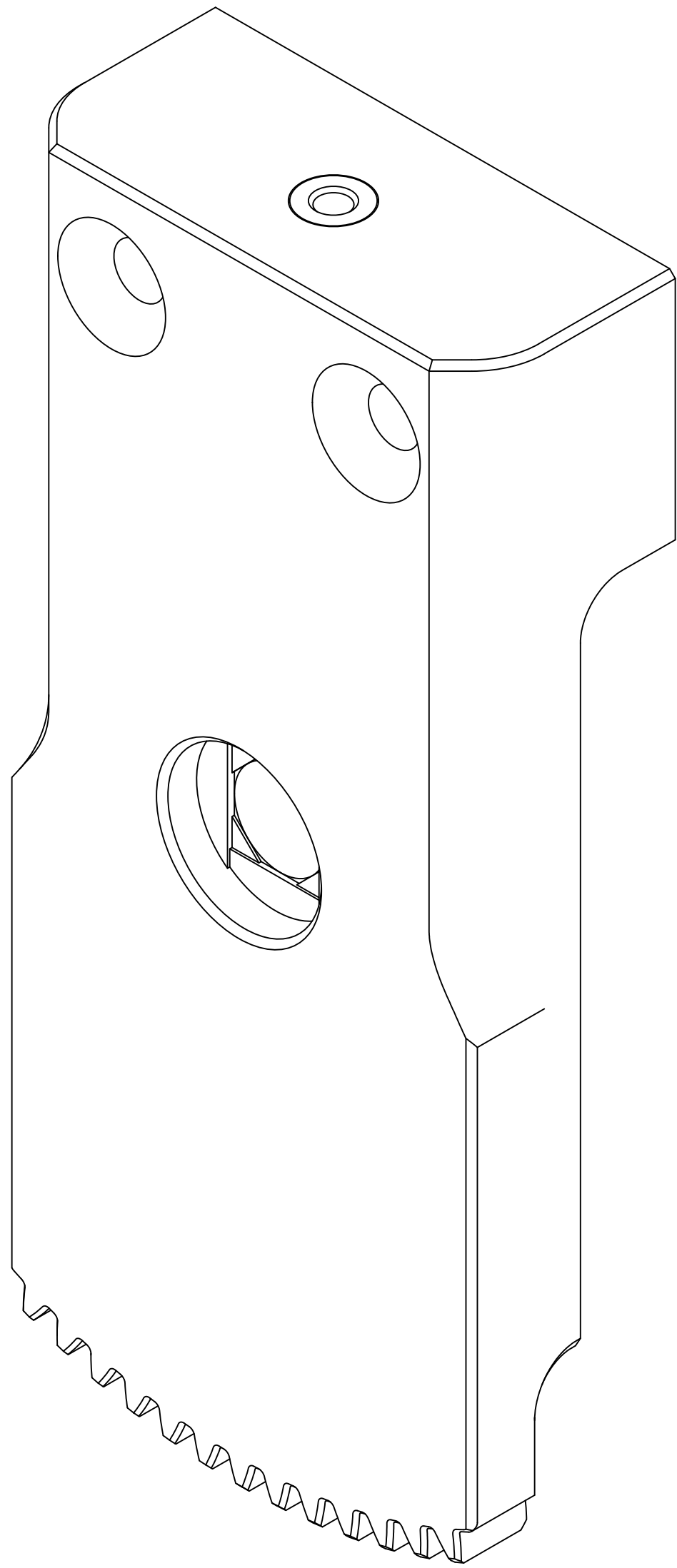
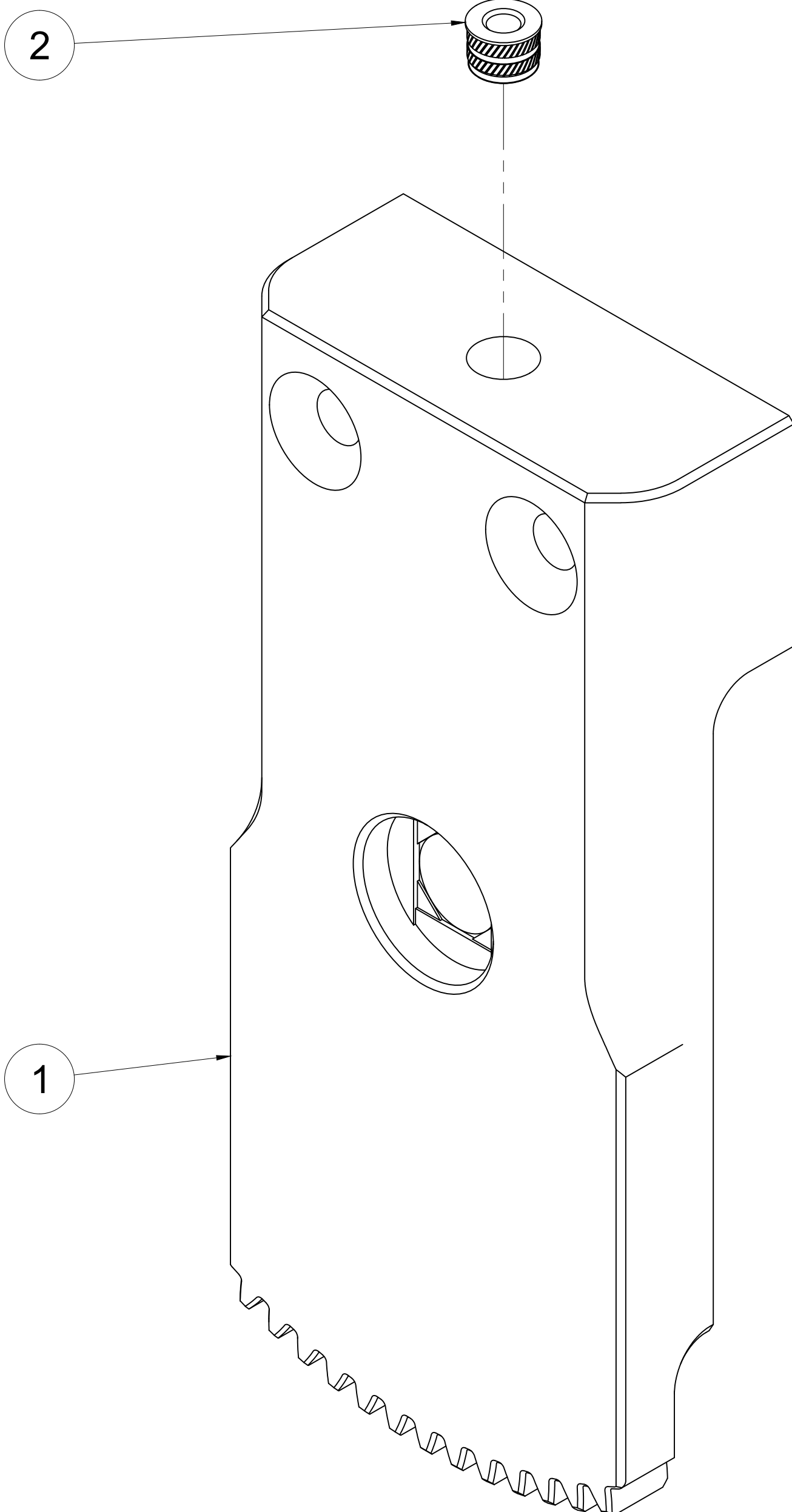
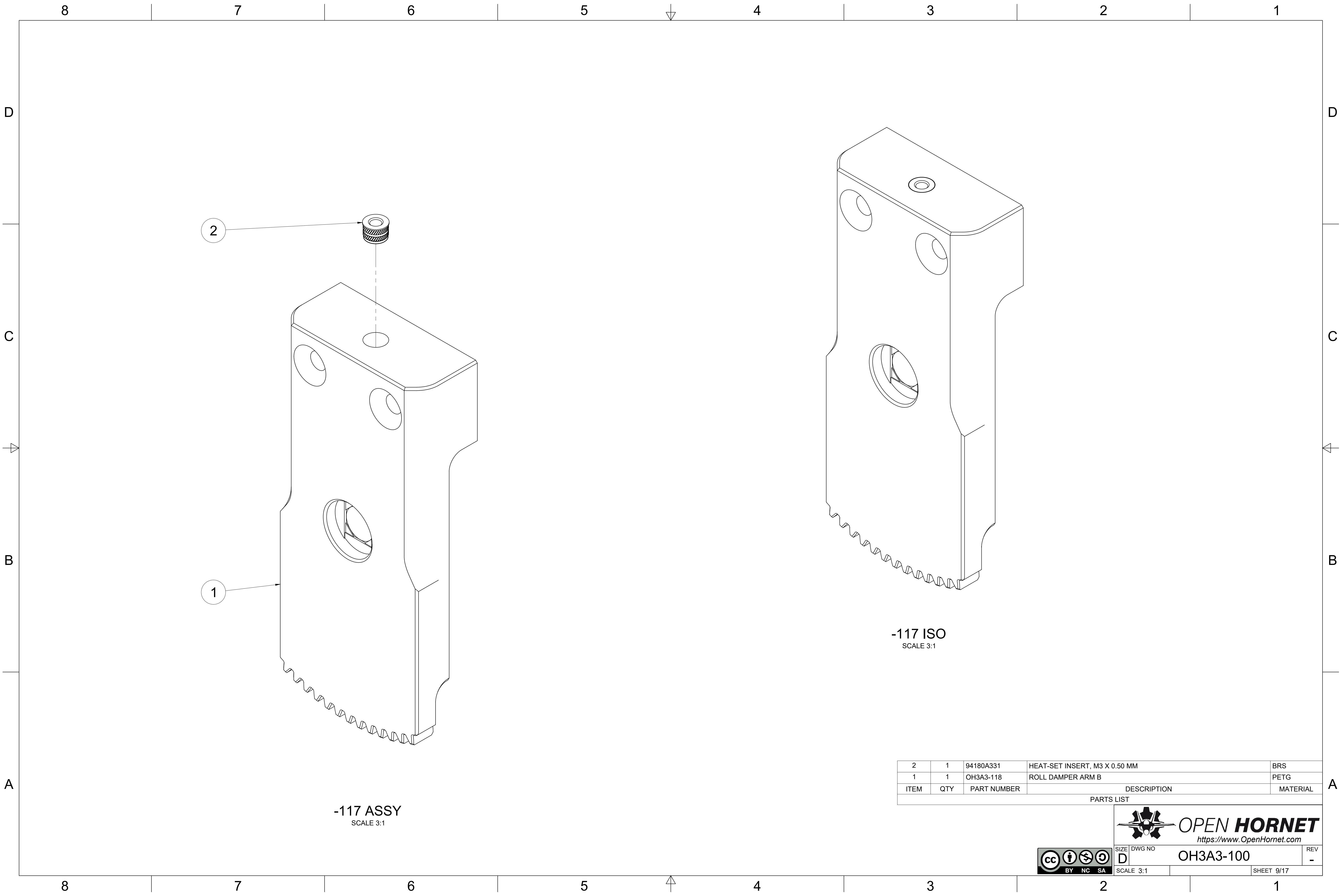




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<https://www.OpenHornet.com>

SIZE	DWG NO	REV
D	OH3A3-100	-
SCALE 3:1		SHEET 8/17






-117 ISO  
SCALE 3:1

-117 ASSY  
SCALE 3:1

2	1	94180A331	HEAT-SET INSERT, M3 X 0.50 MM	BRS
1	1	OH3A3-118	ROLL DAMPER ARM B	PETG
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL

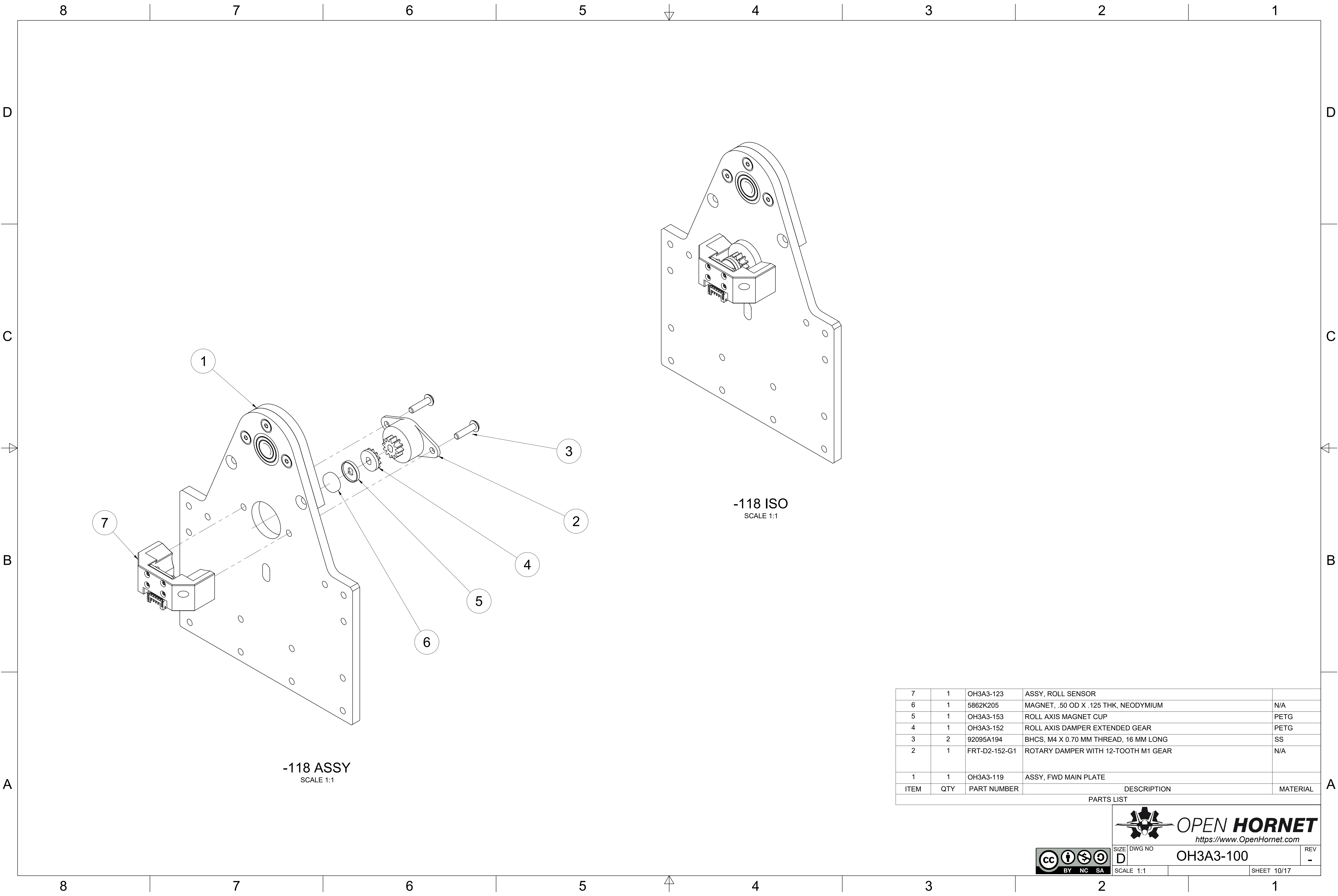
PARTS LIST





**OPEN HORNET**  
<https://www.OpenHornet.com>

SIZE	DWG NO	REV
D	OH3A3-100	-
SCALE 3:1	SHEET 9/17	



7	1	OH3A3-123	ASSY, ROLL SENSOR	
6	1	5862K205	MAGNET, .50 OD X .125 THK, NEODYMIUM	N/A
5	1	OH3A3-153	ROLL AXIS MAGNET CUP	PETG
4	1	OH3A3-152	ROLL AXIS DAMPER EXTENDED GEAR	PETG
3	2	92095A194	BHCS, M4 X 0.70 MM THREAD, 16 MM LONG	SS
2	1	FRT-D2-152-G1	ROTARY DAMPER WITH 12-TOOTH M1 GEAR	N/A
1	1	OH3A3-119	ASSY, FWD MAIN PLATE	
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
PARTS LIST				



SIZE	DWG NO	REV
D	OH3A3-100	-
SCALE 1:1		SHEET 10/17

D

C

B

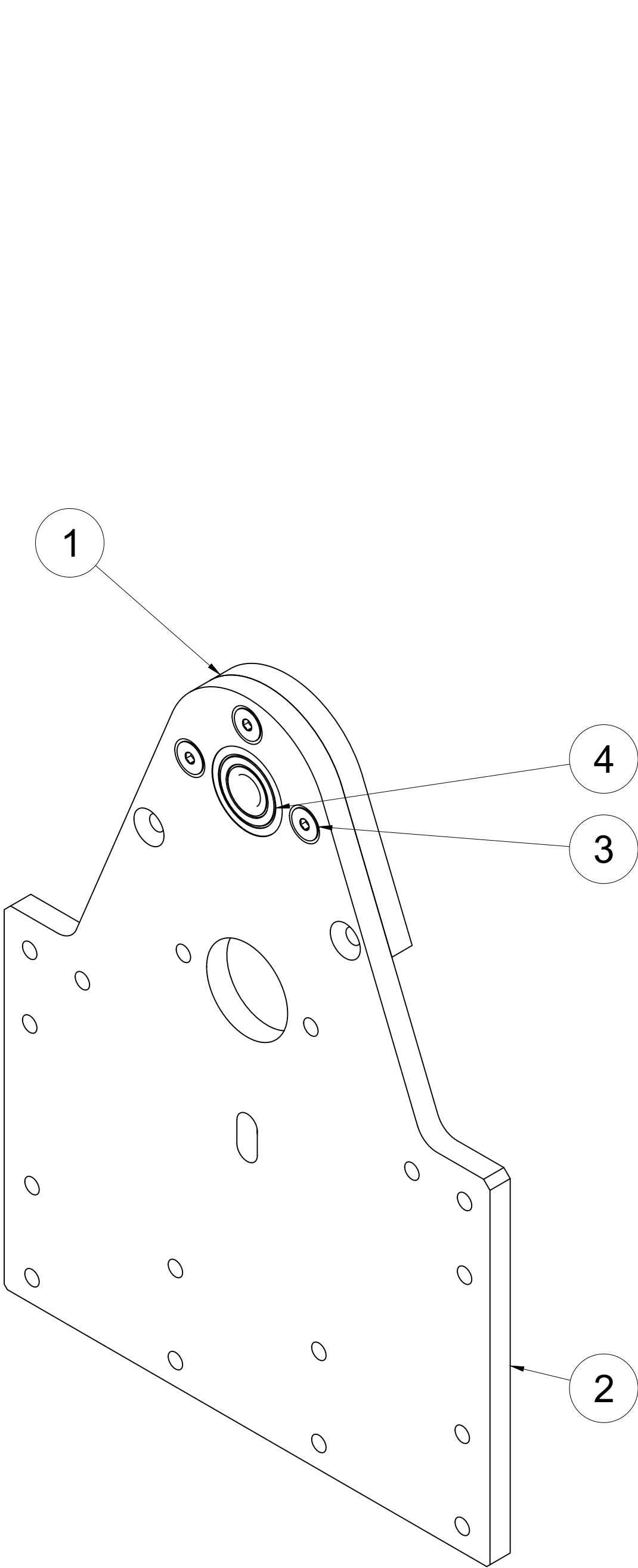
A

D

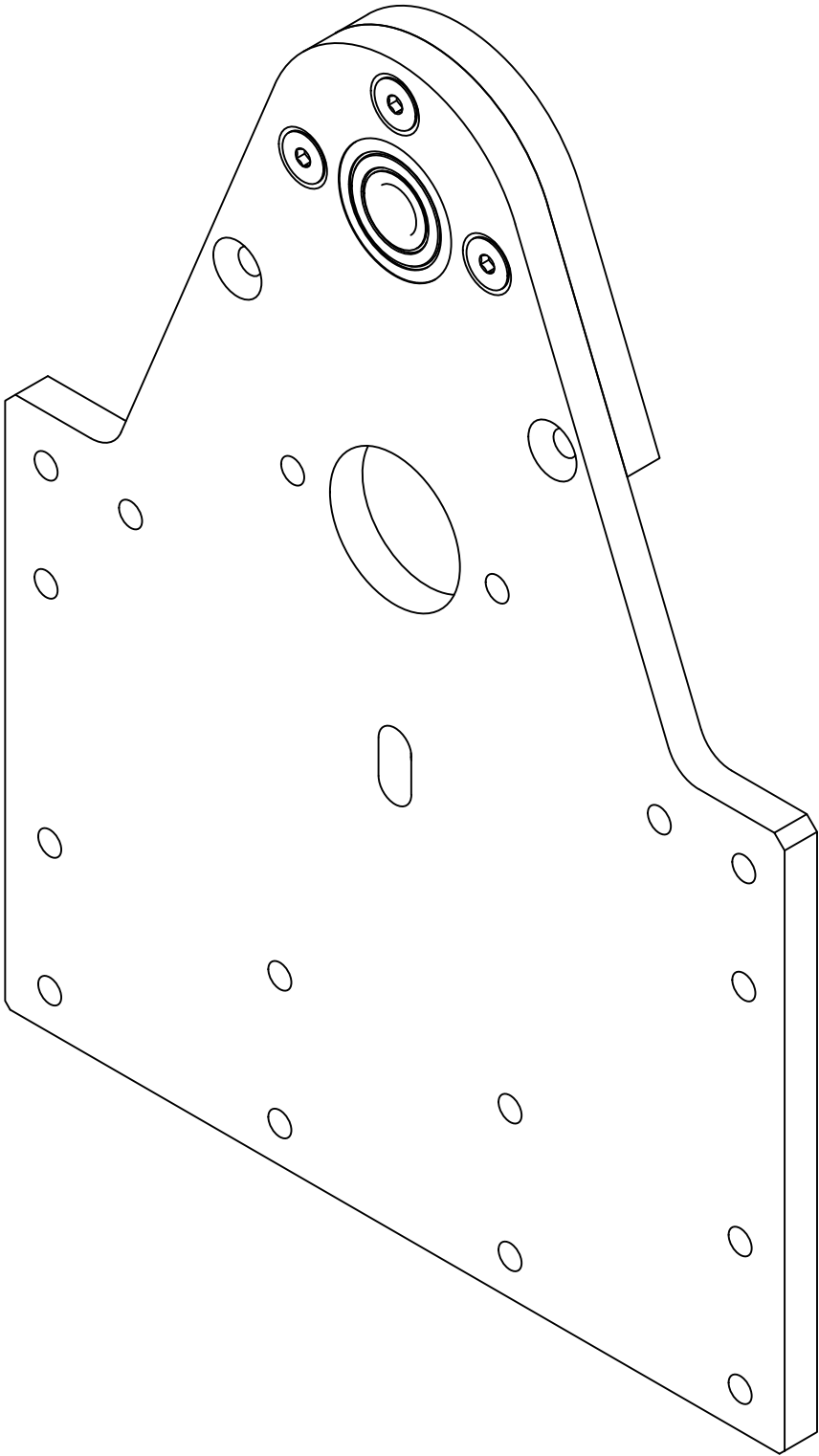
C

B

A



-119 ASSY  
SCALE 1:1



-119 ISO  
SCALE 1:1

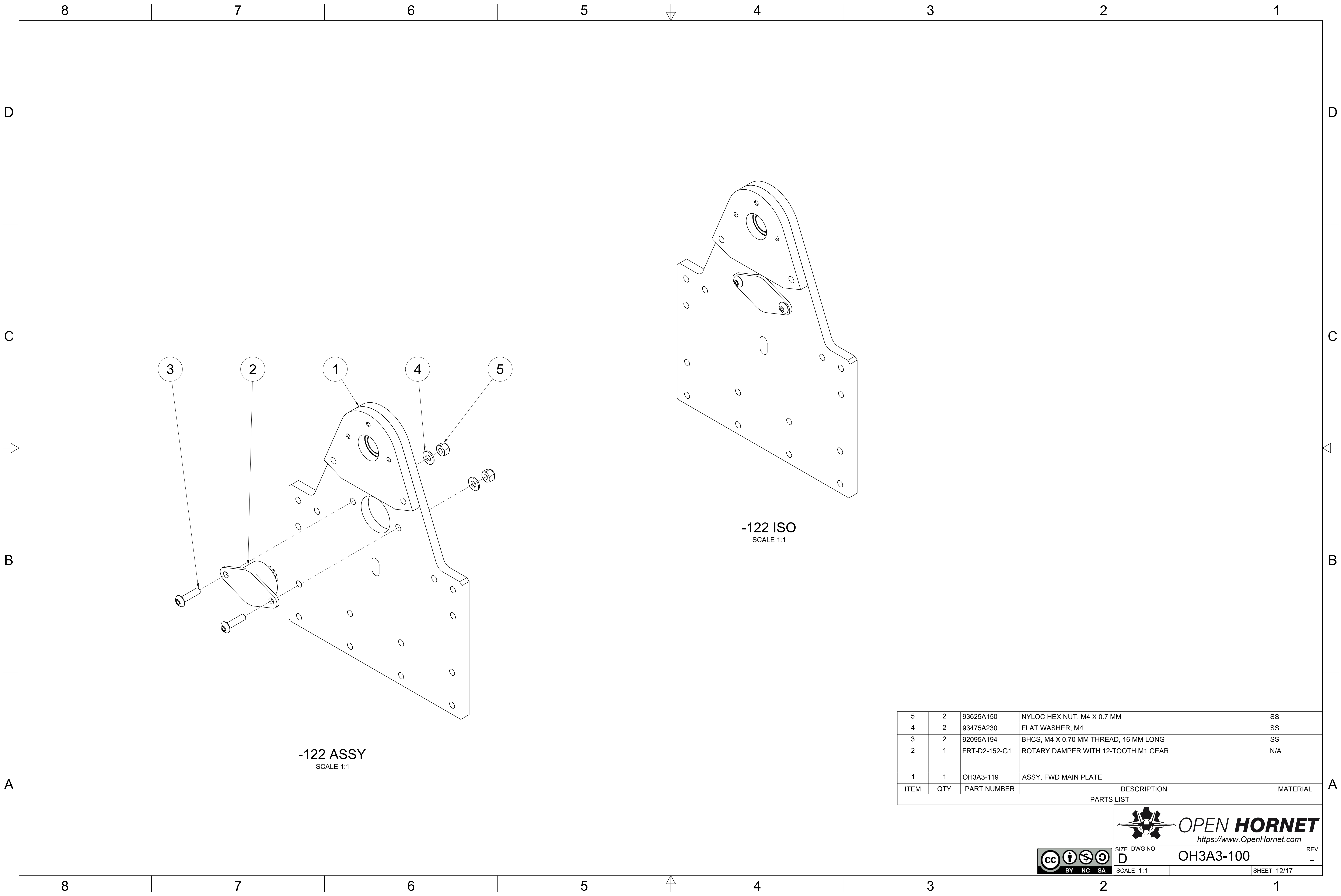
4	1	608-2RS	8X22X7 SEALED RADIAL BALL BEARING	STEEL
3	3	92125A192	FHCS, M4 X 0.7 MM, 12 MM LONG	SS
2	1	OH3A3-120	MAIN PLATE	ALU
1	1	OH3A3-121	BEARING PLATE	ALU
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
PARTS LIST				



**OPEN HORNET**  
<https://www.OpenHornet.com>

SIZE	DWG NO	REV
D	OH3A3-100	-
SCALE 1:1		SHEET 11/17

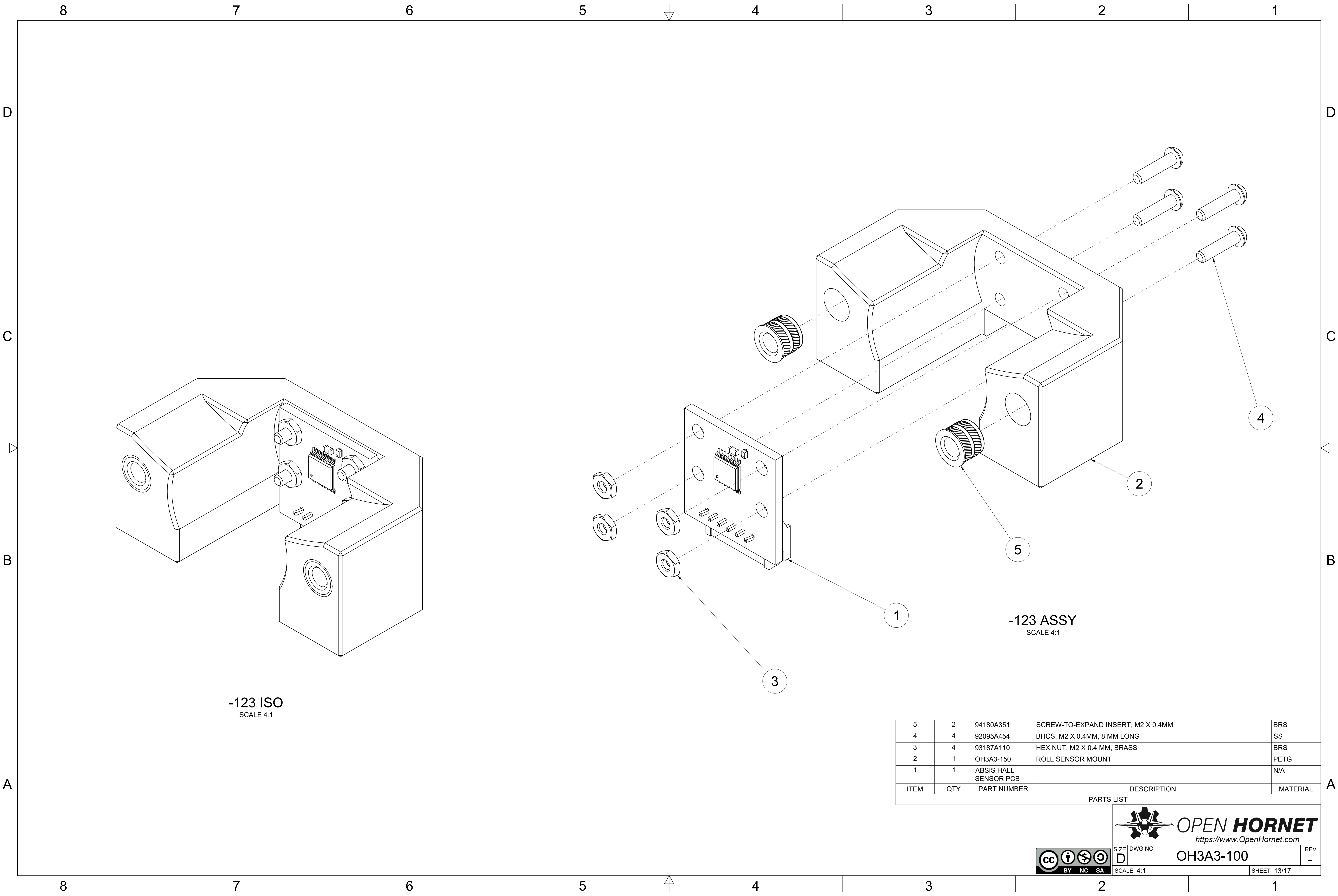




5	2	93625A150	NYLOC HEX NUT, M4 X 0.7 MM	SS
4	2	93475A230	FLAT WASHER, M4	SS
3	2	92095A194	BHCS, M4 X 0.70 MM THREAD, 16 MM LONG	SS
2	1	FRT-D2-152-G1	ROTARY DAMPER WITH 12-TOOTH M1 GEAR	N/A
1	1	OH3A3-119	ASSY, FWD MAIN PLATE	
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
PARTS LIST				



SIZE	DWG NO	REV
D	OH3A3-100	-
SCALE 1:1		SHEET 12/17



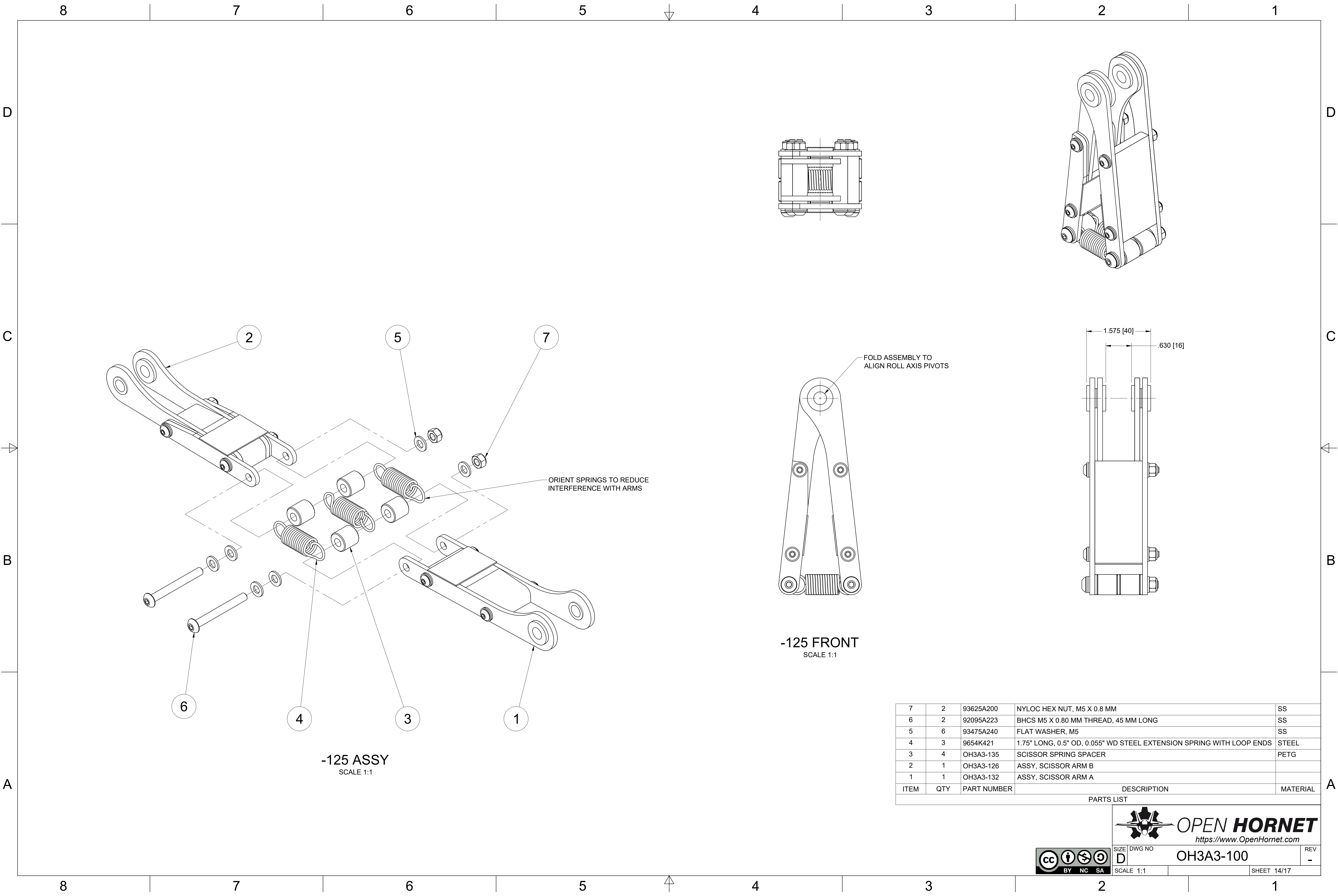
-123 ISO  
SCALE 4:1

-123 ASSY  
SCALE 4:1

5	2	94180A351	SCREW-TO-EXPAND INSERT, M2 X 0.4MM	BRS
4	4	92095A454	BHCS, M2 X 0.4MM, 8 MM LONG	SS
3	4	93187A110	HEX NUT, M2 X 0.4 MM, BRASS	BRS
2	1	OH3A3-150	ROLL SENSOR MOUNT	PETG
1	1	ABSIS HALL SENSOR PCB		N/A
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
PARTS LIST				



SIZE	DWG NO	REV
D	OH3A3-100	-
SCALE 4:1		SHEET 13/17



7	2	93625A200	NYLOC HEX NUT, M5 X 0.8 MM	SS
6	2	92095A223	BHCS M5 X 0.80 MM THREAD, 45 MM LONG	SS
5	6	93475A240	FLAT WASHER, M5	SS
4	3	9654K421	1.75" LONG, 0.5" OD, 0.055" WD STEEL EXTENSION SPRING WITH LOOP ENDS	STEEL
3	4	OH3A3-135	SCISSOR SPRING SPACER	PETG
2	1	OH3A3-126	ASSY, SCISSOR ARM B	
1	1	OH3A3-132	ASSY, SCISSOR ARM A	
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL
PARTS LIST				

**OPEN HORNET**  
<https://www.OpenHornet.com>

SIZE	DWG NO	REV
D	OH3A3-100	-
SCALE 1:1		SHEET 14/17



