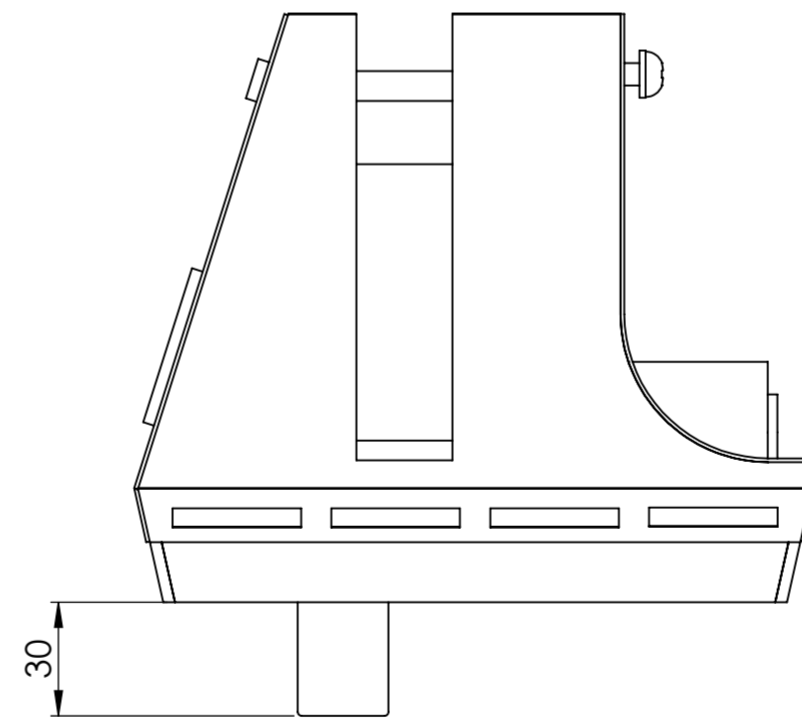
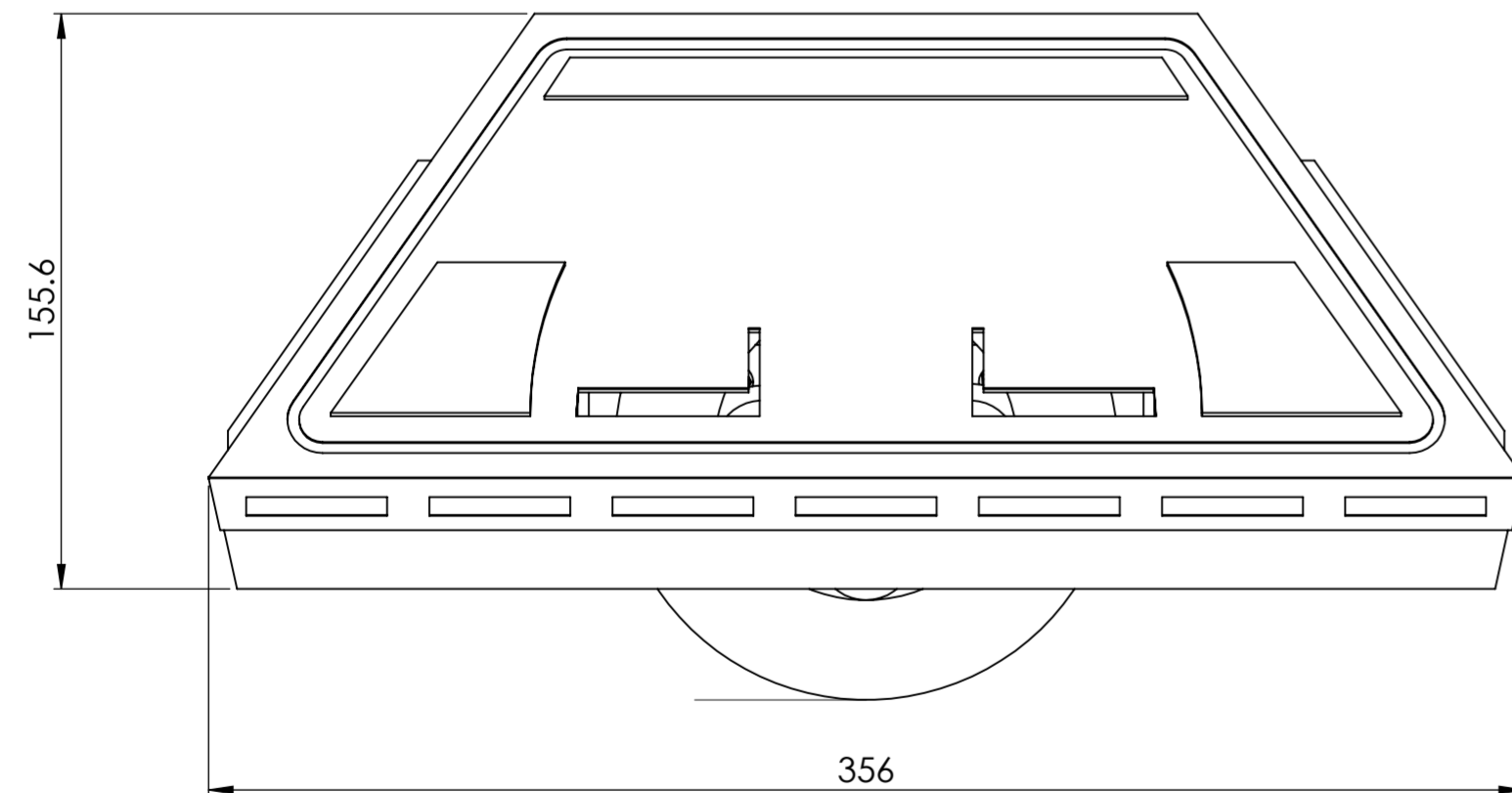
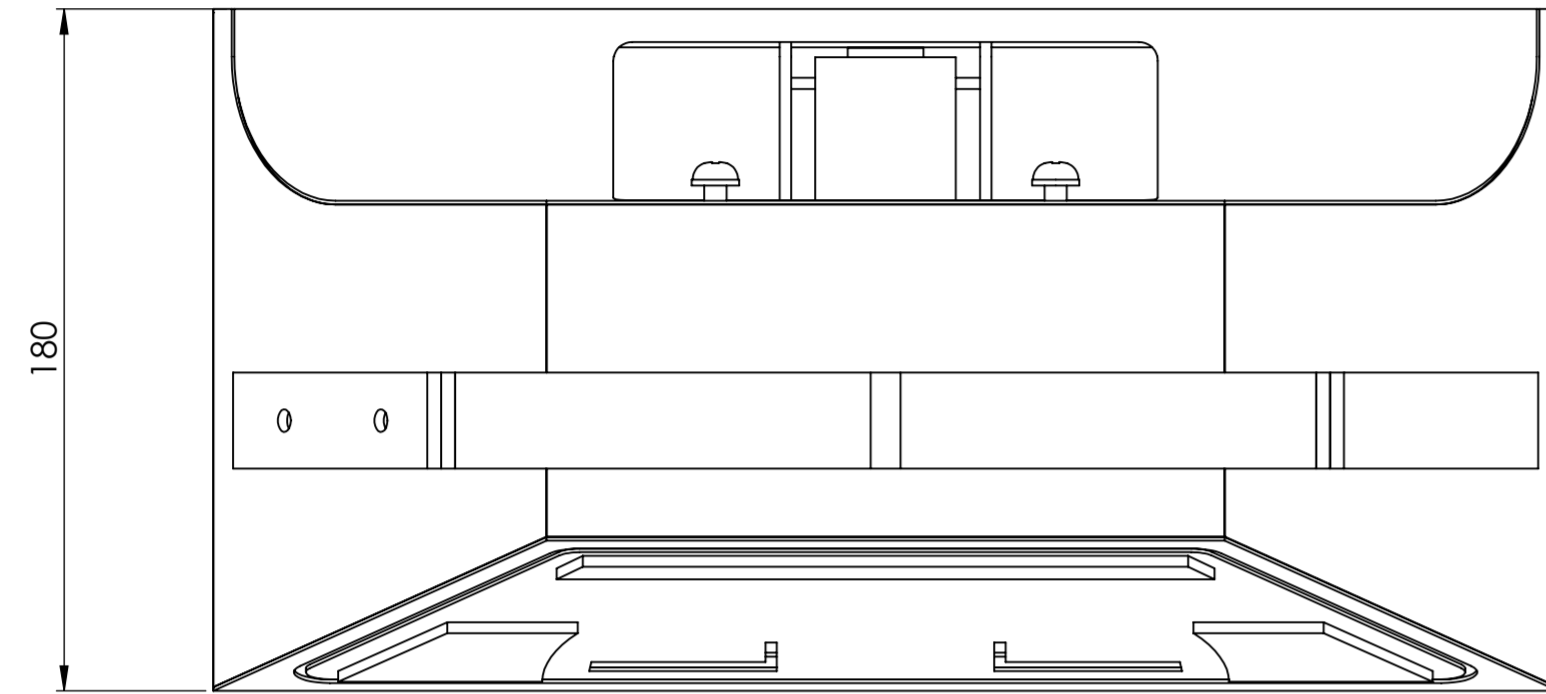


NOTE:
 - MAKE 1 FOOT AS SHOWN (LH) AND ANOTHER OPPOSITE HAND (RH) (L.H. FOOT SHOWN)

- ANKLE BOLT IS NOT USED FOR CLAMPING IT IS INTENDED ONLY AS A PIN DO NOT OVERTIGHTEN !!

- TEST ASSEMBLY AND TRIM / FIT PARTS AS REQUIRED BEFORE GLUING

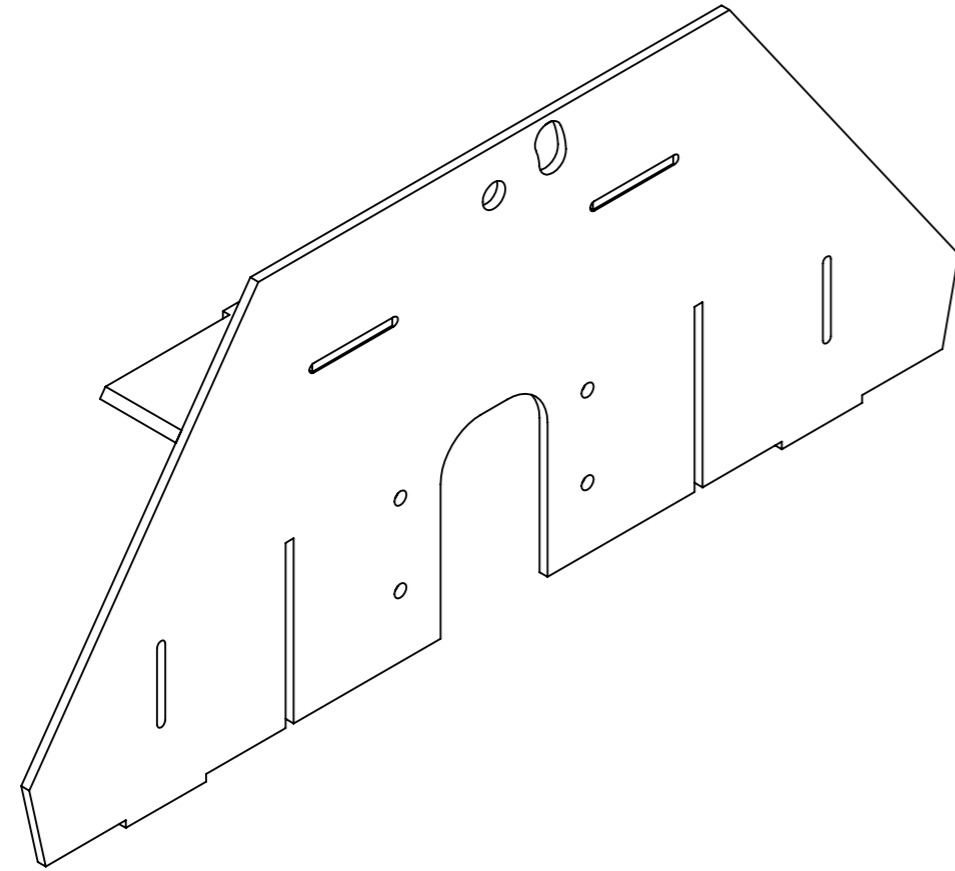


ITEM NO.	DESCRIPTION	THK	Default/ QTY.
1	FOOT - ANKLE SIDE	3	1
2	FOOT - ANKLE SIDE - BB - SIDE	3	1
3	FOOT - ANKLE SIDE - SHORT	3	1
4	FOOT - ANKLE BOTTOM	3	1
5	FOOT - MAIN RIB	3	1
6	FOOT - VERTICAL RIB	3	2
7	FOOT - VERTICAL RIB - CURVED	3	2
8	FOOT - VERTICAL RIB - TRIMMED	3	2
9	FOOT - MOTOR STIFFING PL	3	1
10	FOOT - BASE	3	1
11	FOOT - OUTER TOP	3	1
12	FOOT - INNER TOP	3	1
13	FOOT - MOTOR PL	3	2
14	FOOT - BACK	3	1
15	FOOT - OUTER FACE	3	1
16	FOOT - SKIRT OUTER	3	2
17	FOOT - SKIRT FRONT	3	2
18	FOOT - SIDE STRIP	3	1
19	FOOT - SIDE DETAIL	3	2
20	FOOT - INNER	3	1
21	FOOT - END	3	1
22	FOOT - END	3	1
23	FOOT - MOTOR SUPPORT RIB	3	1
24	FOOT - END STRIPS	3	1
25	FOOT - END STRIPS - HOLES	3	1
26	FOOT - NUT HOLDER	3	4
27	FOOT - M8 NUT HOLDER	3	3
28	1mm BITS		
29	FOOT - OUTER SKIN	1	1
30	FOOT - SKIRT FRONT SKIN	1	2
31	FOOT - SKIRT OUTER SKIN	1	2
32	FOOT - BATTERY SKIN	1	1
33	FASTENERS AND BITS		
34	Nyloc Nut M4		4
35	Hex Nut Plain M6		2
36	Hex Nut Plain M8		1
37	M4 PLAIN WASHER ZINC		8
38	M6 PLAIN WASHER ZINC		2
39	M8 PLAIN WASHER ZINC		1
40	Machine Screw Phillips CSK Head M3 x 10		3
41	Machine Screw Phillips Pan Head M6 x 20		2
42	Hex Head Set Screw M4 x 20		4
43	Hex Bolt M8 x 50		1
44	Jaycar Motor 50kgcm - CAT. NO. YG2738		1
45	DFROBOT WHEEL		1

SUGGESTED RC MOTOR CONTROLLER FROM:-
 DIMENSION ENGINEERING
 1off MODEL 2x12 RC

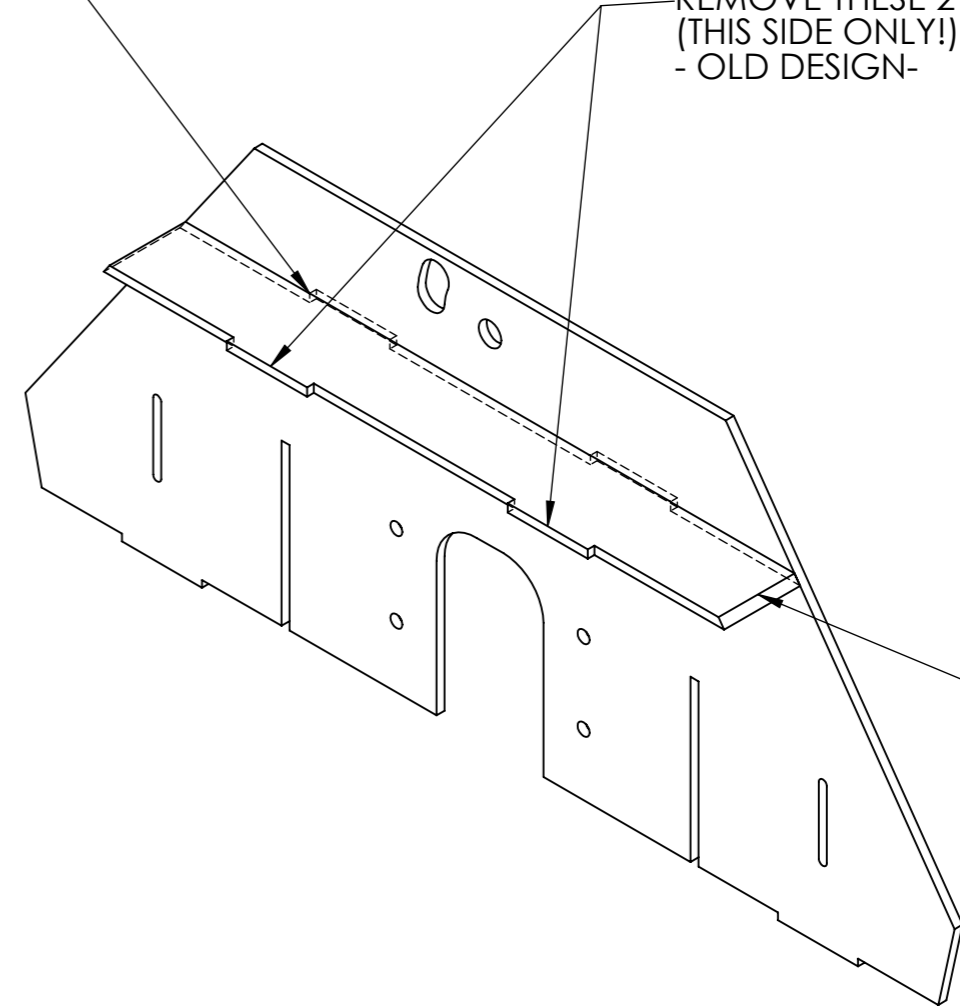
IT IS RECOMMENDED TO CUT 1mm "SKIN" PARTS OVERSIZED AND TRIM BACK AFTER GLUE HAS SET EXCEPT FOR THE "SIDE DETAIL" PARTS

These instructions are only a guide !!
 There are many versions of "R2" style units
 The builder is ultimately responsible for their build
 It is expected that builders have an understanding of use of tools and reading of drawings and common sense



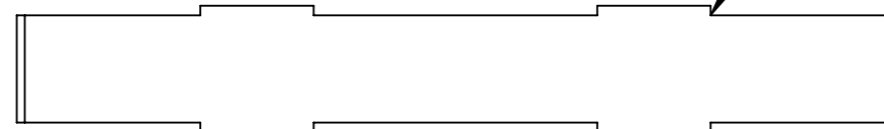
FILE / CUT TAB CORNERS
TO BE SQUARE

REMOVE THESE 2 TABS
(THIS SIDE ONLY!)
- OLD DESIGN-



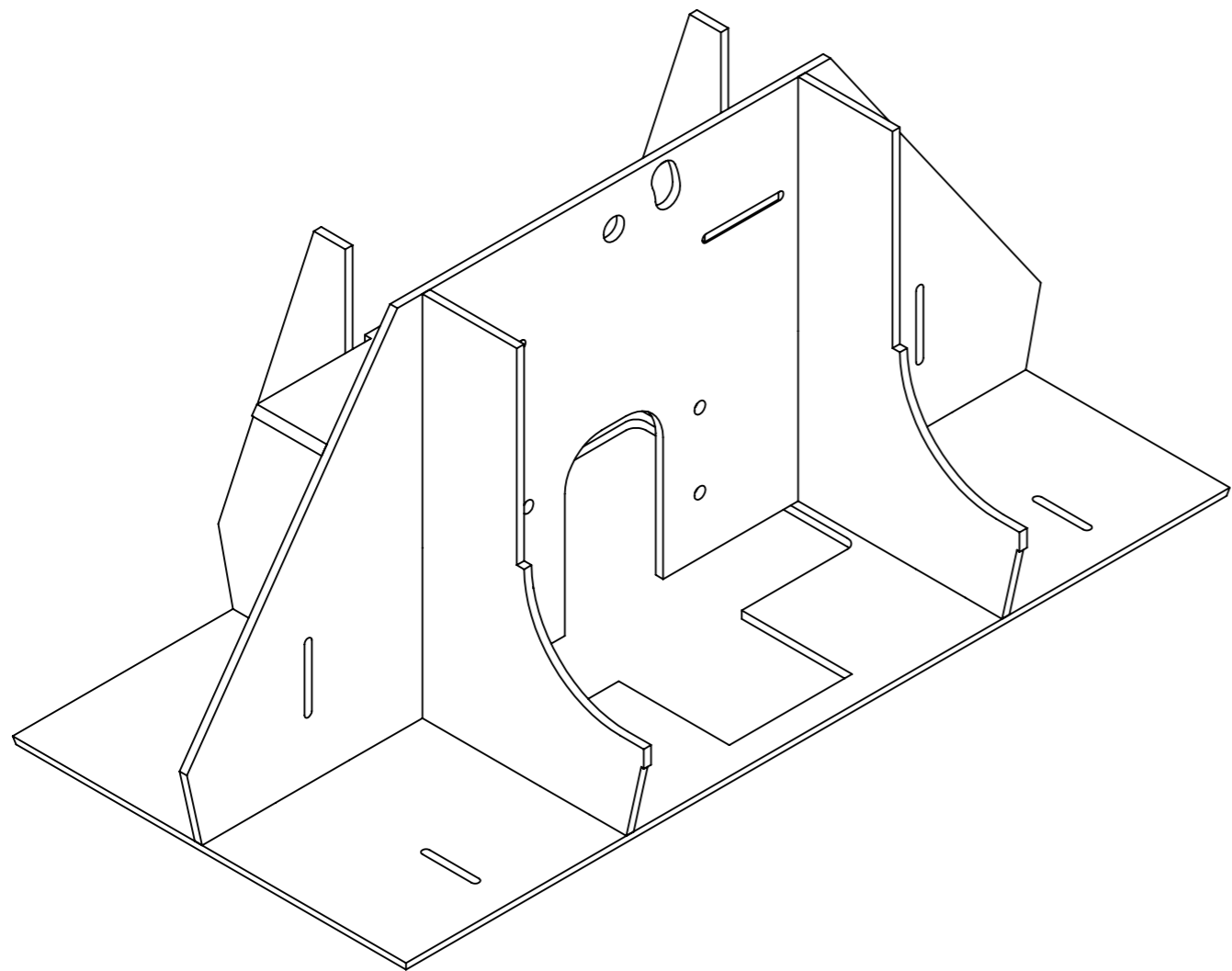
SHAPE ENDS LATER

FILE / CUT TAB CORNERS
TO BE SQUARE

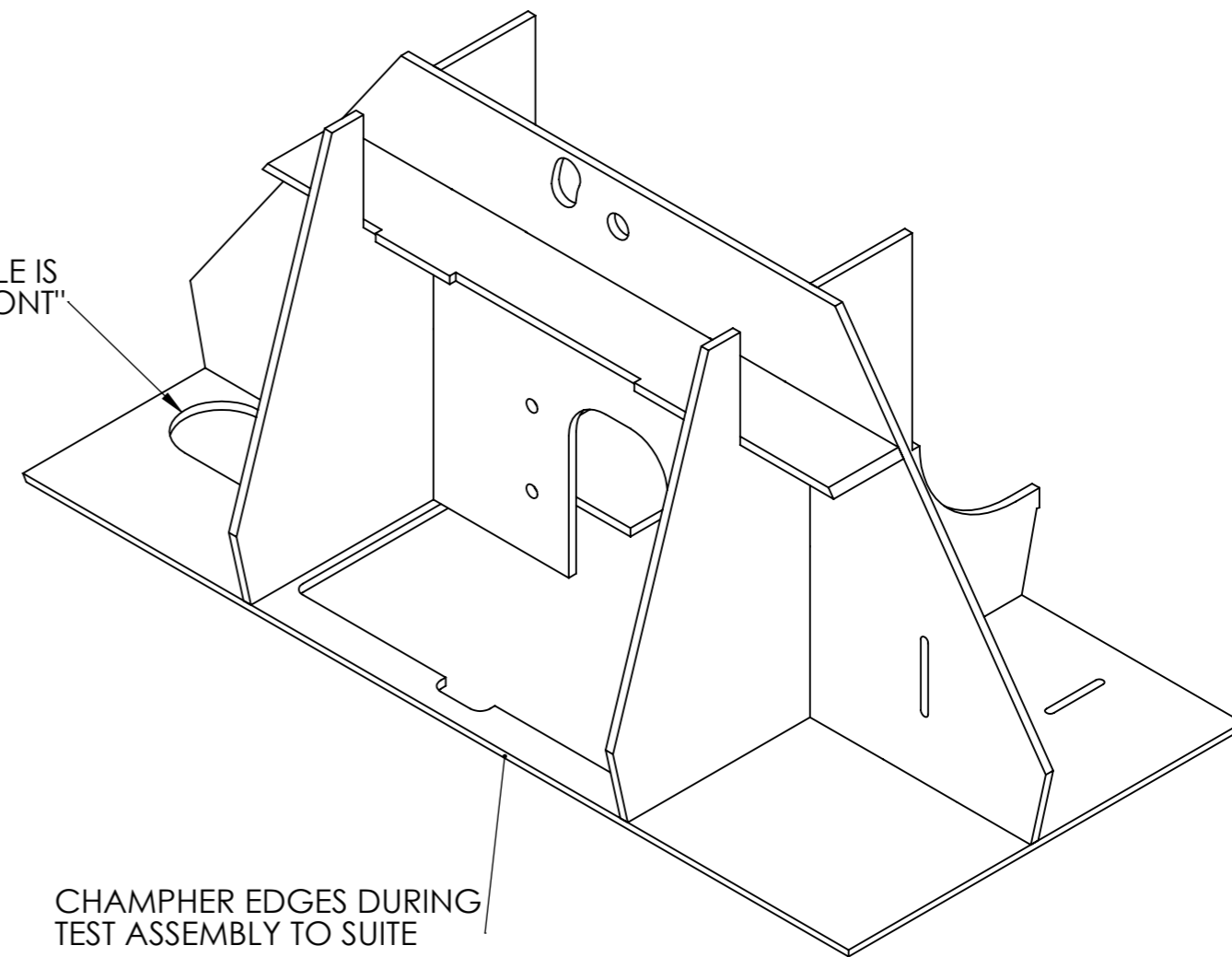


REMOVE THESE 2 TABS
(THIS SIDE ONLY!)
- OLD DESIGN-

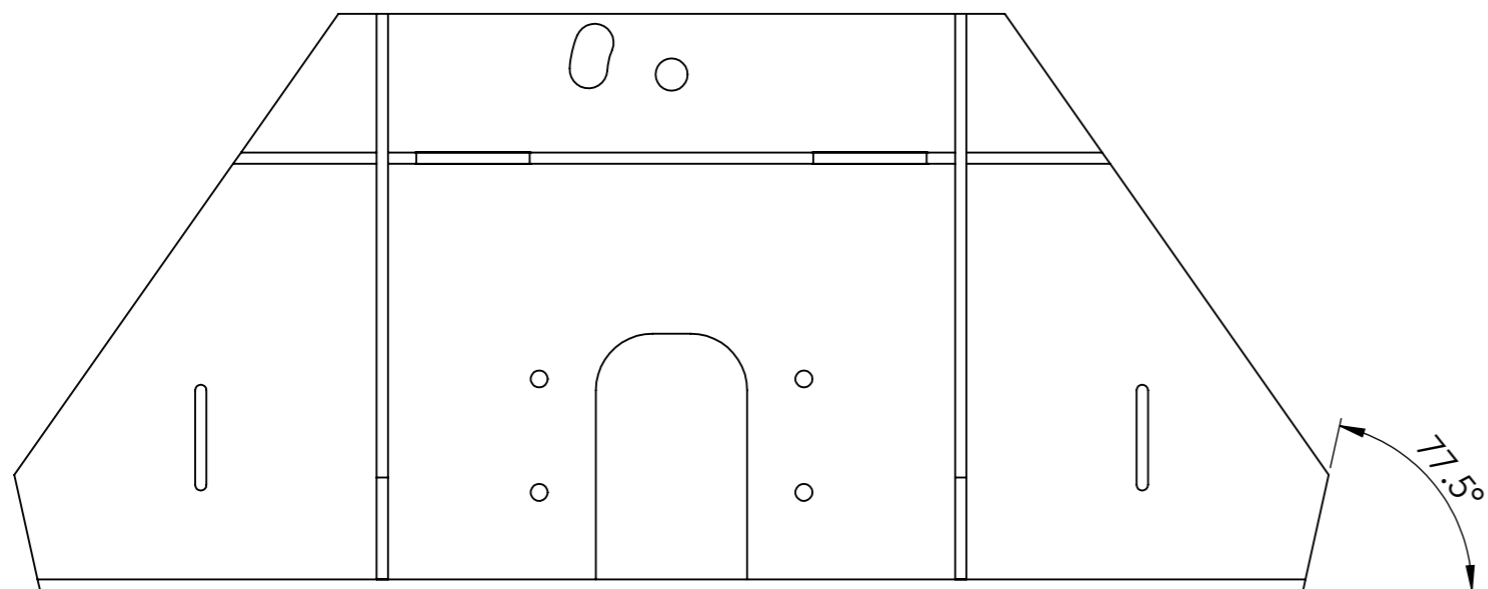
STEP " 01 "



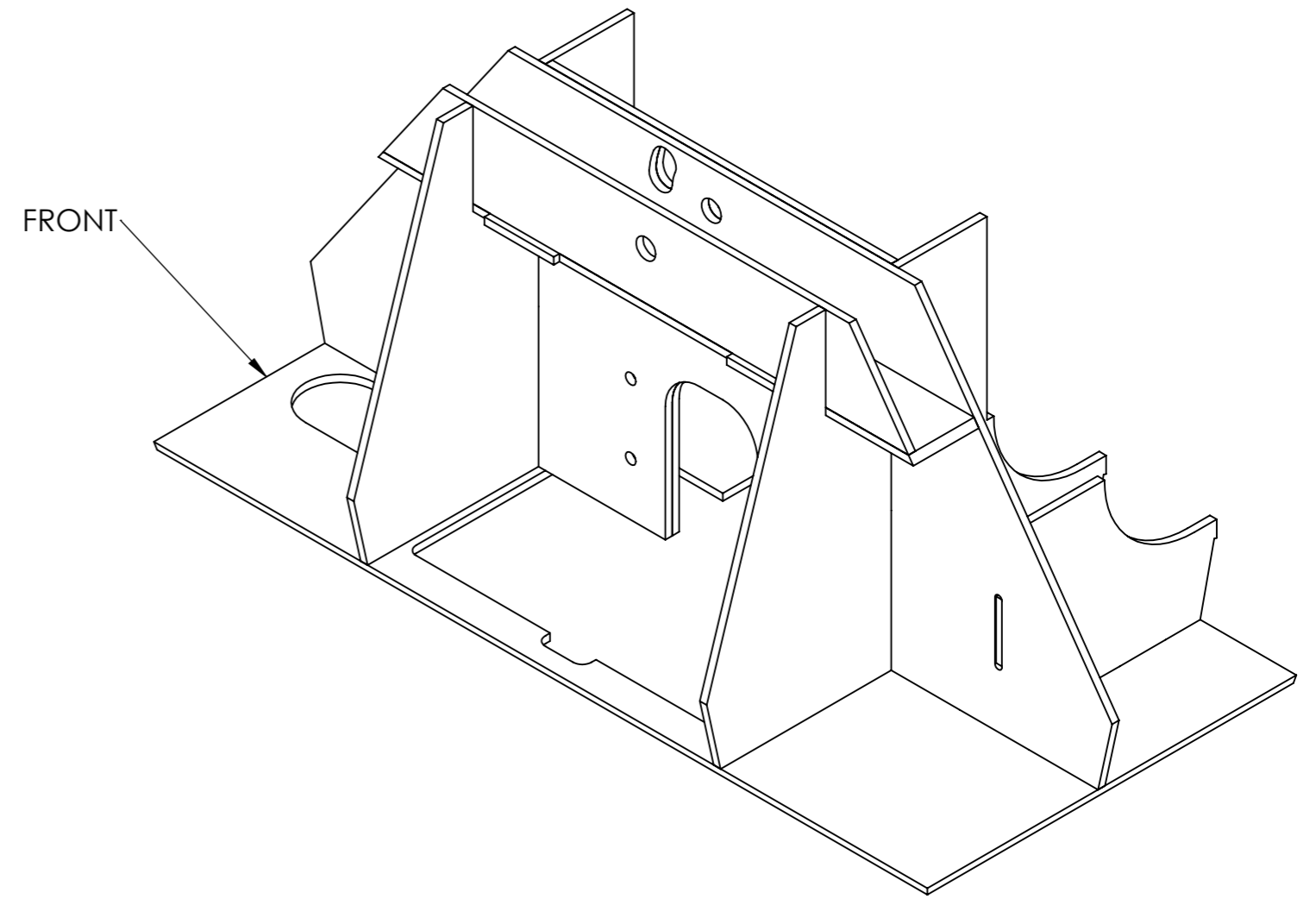
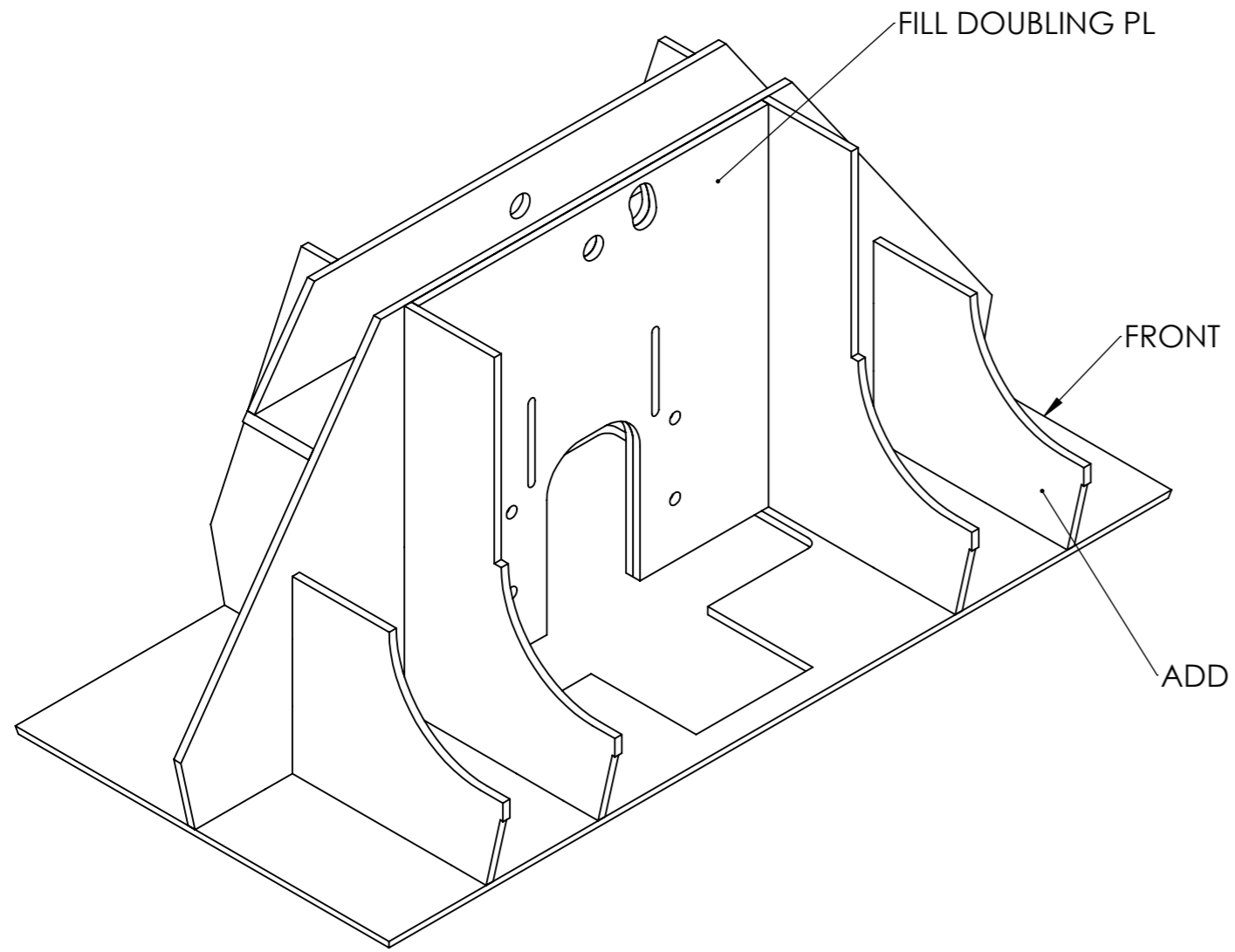
HOLE IS
"FRONT"



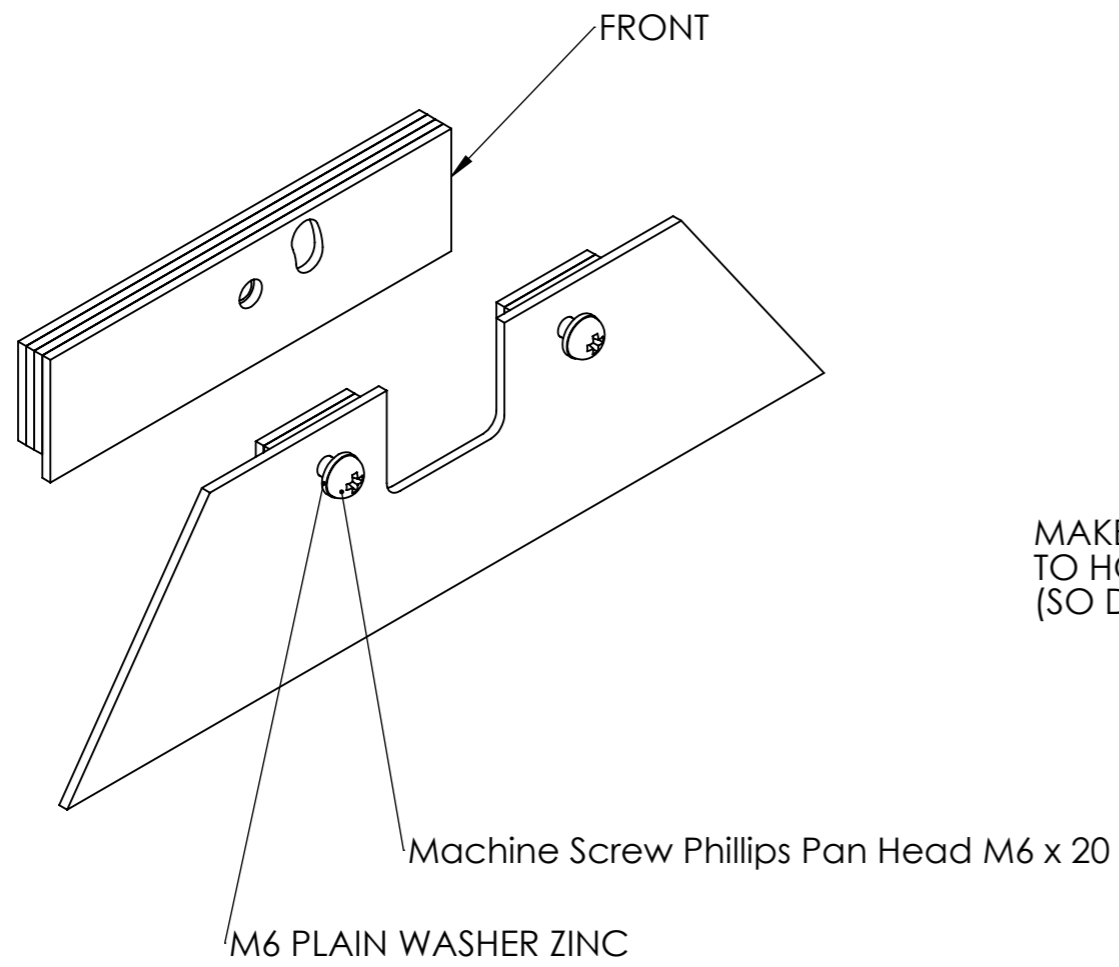
CHAMPHER EDGES DURING
TEST ASSEMBLY TO SUITE



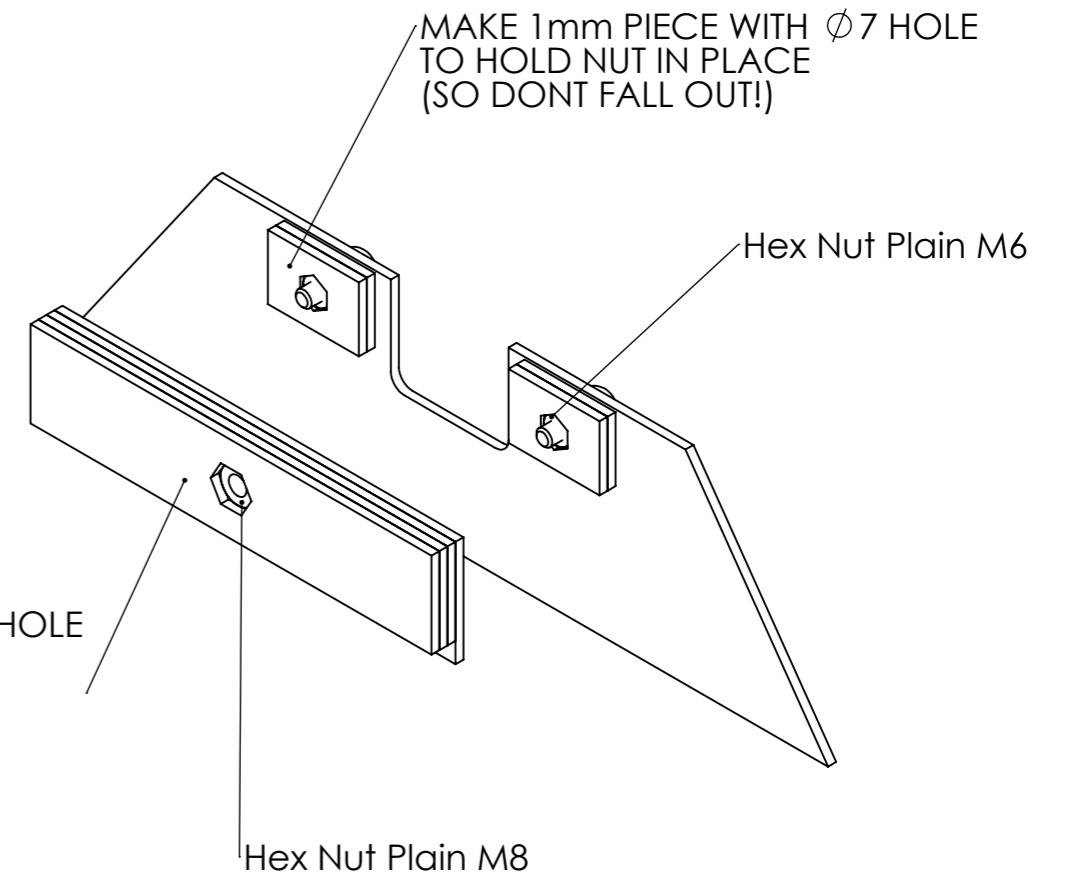
STEP " 02"



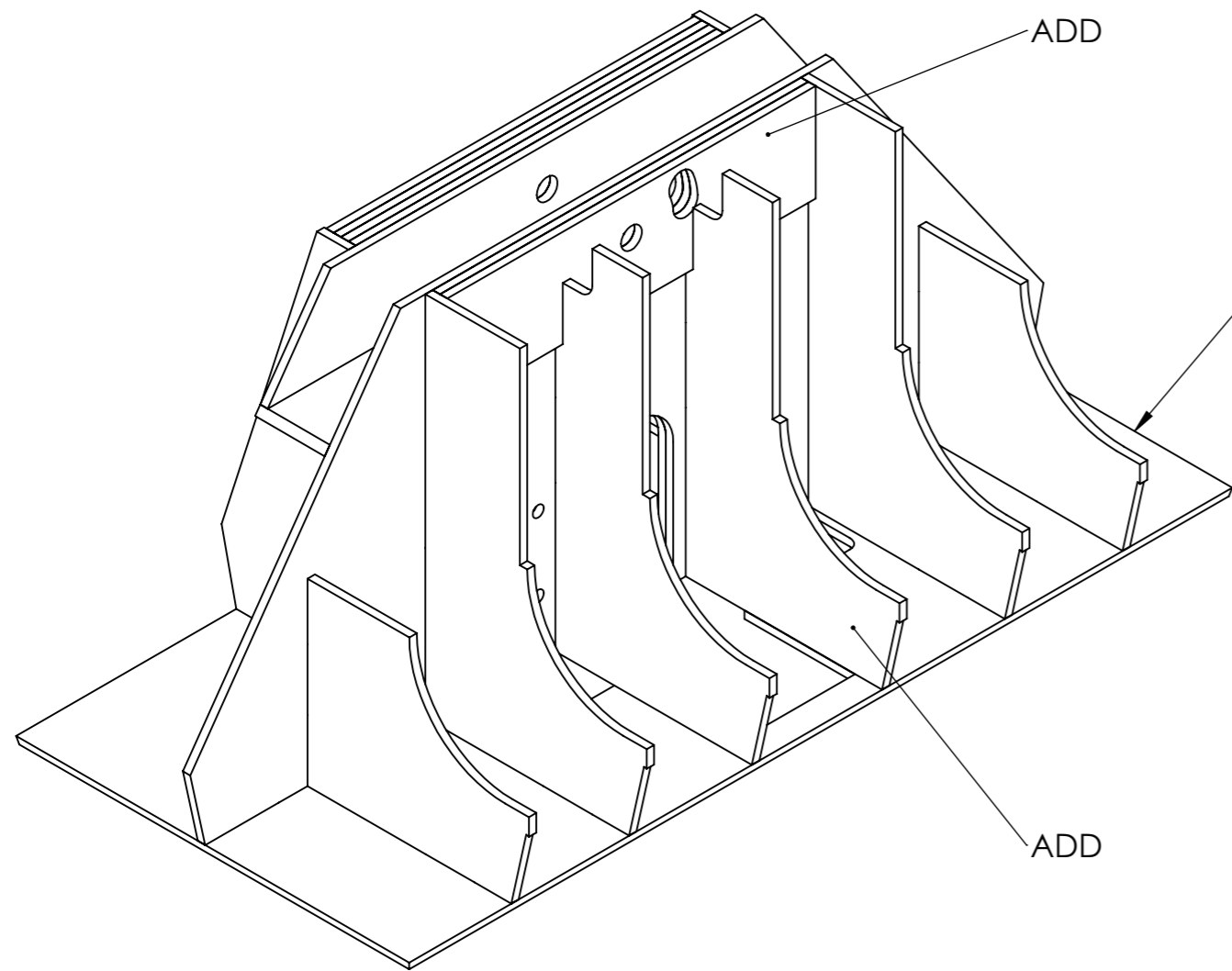
STEP " 03"



MAKE 1mm PIECE WITH $\varnothing 9$ HOLE
TO HOLD NUT IN PLACE
(SO DONT FALL OUT!)

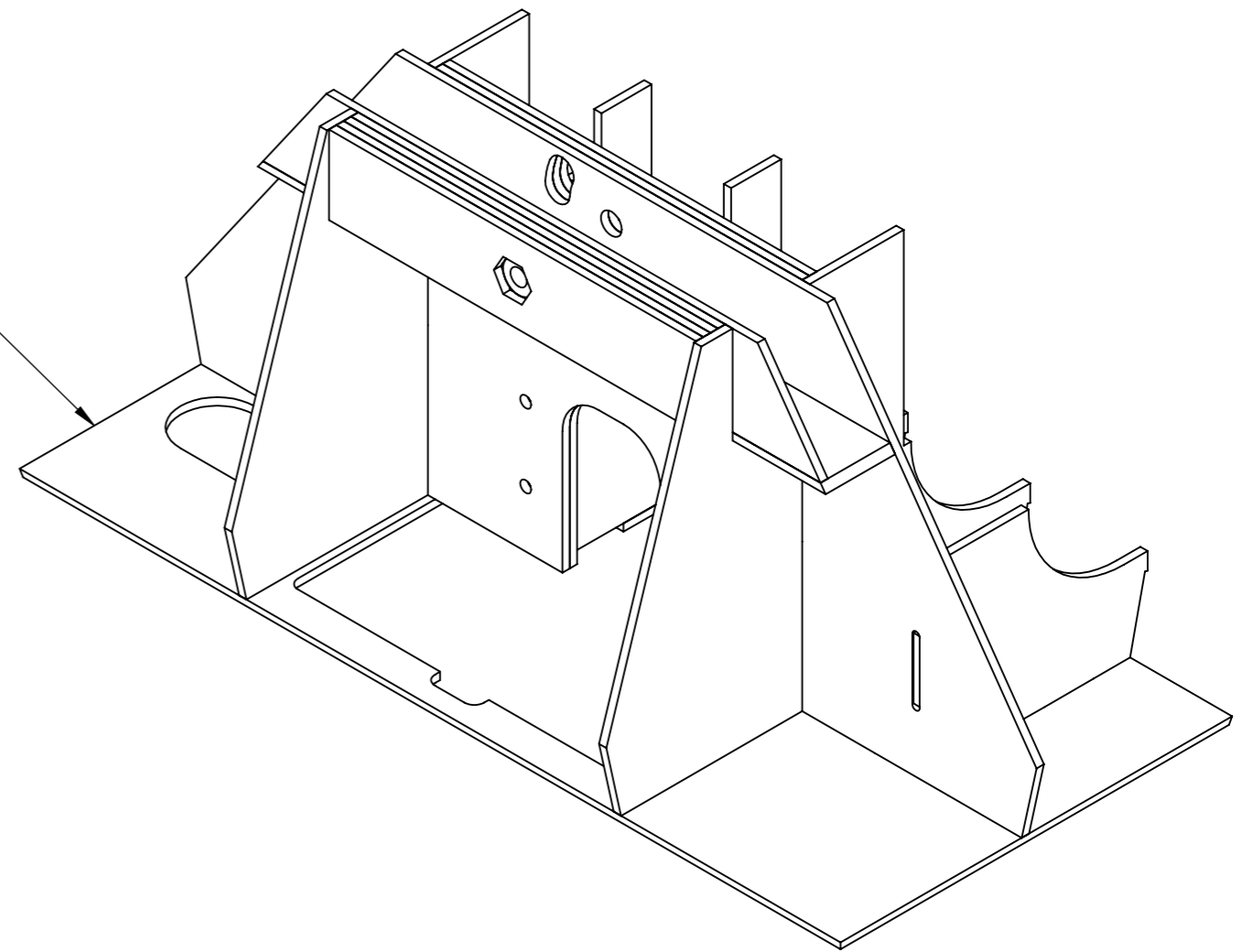


STEP " 04"

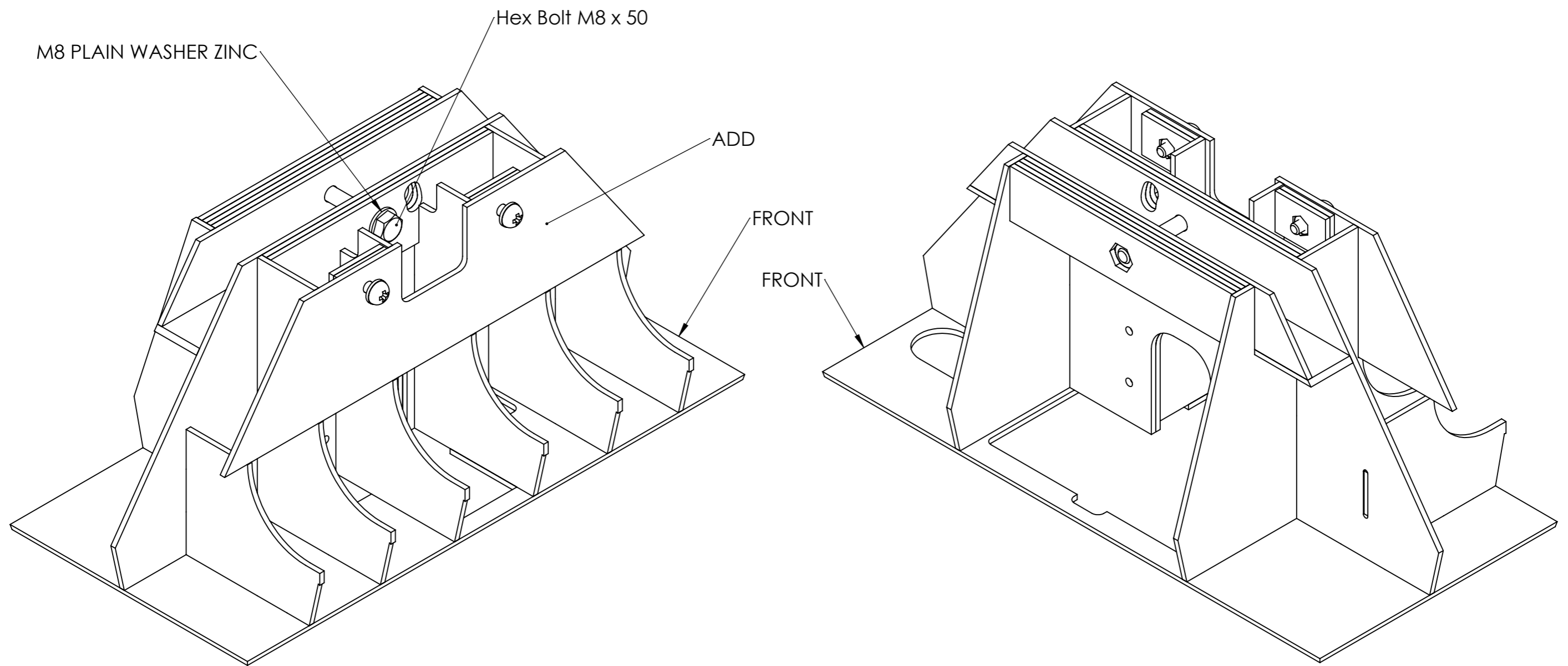


FRONT

FRONT

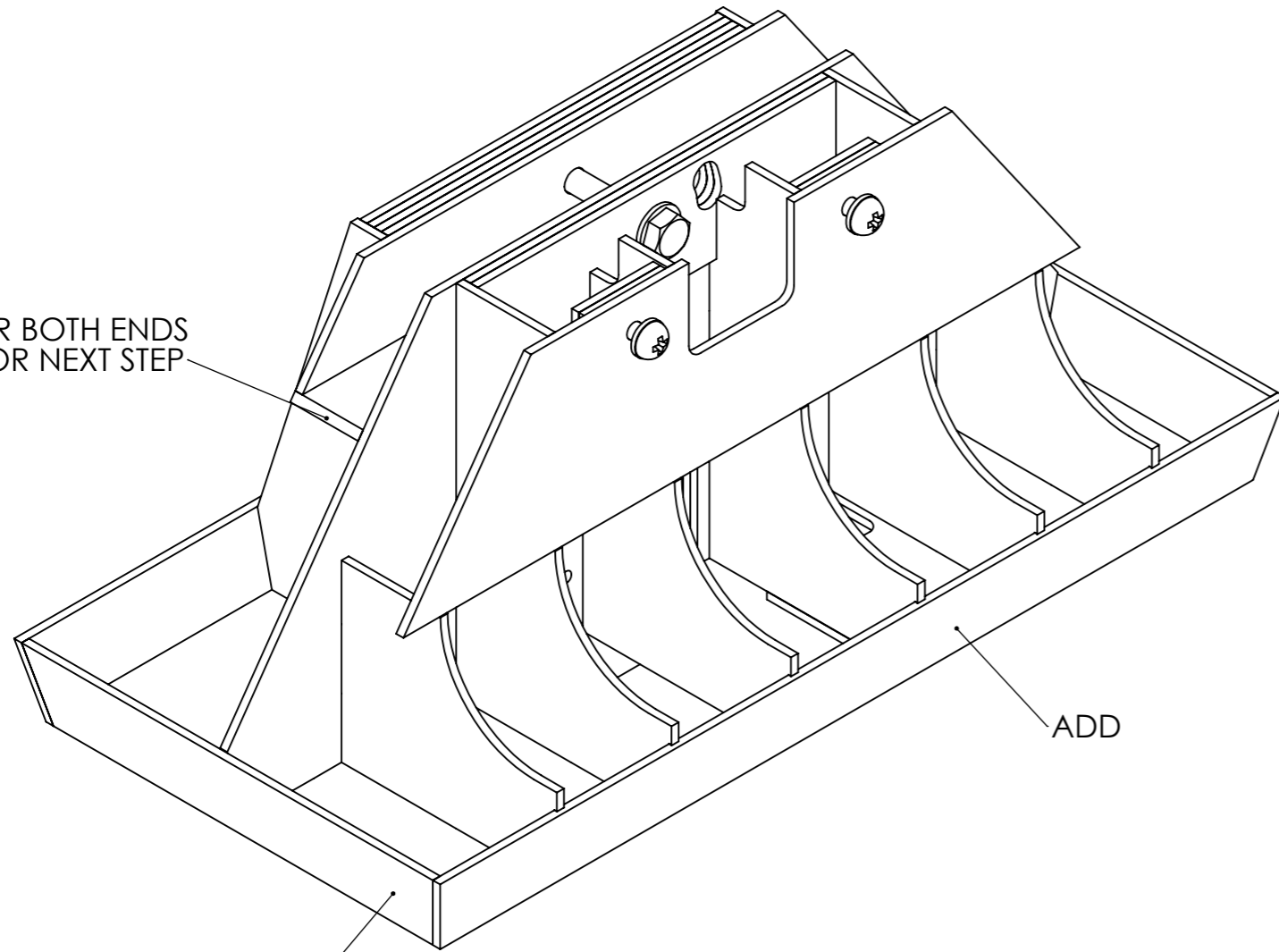


STEP " 05"



STEP " 06"

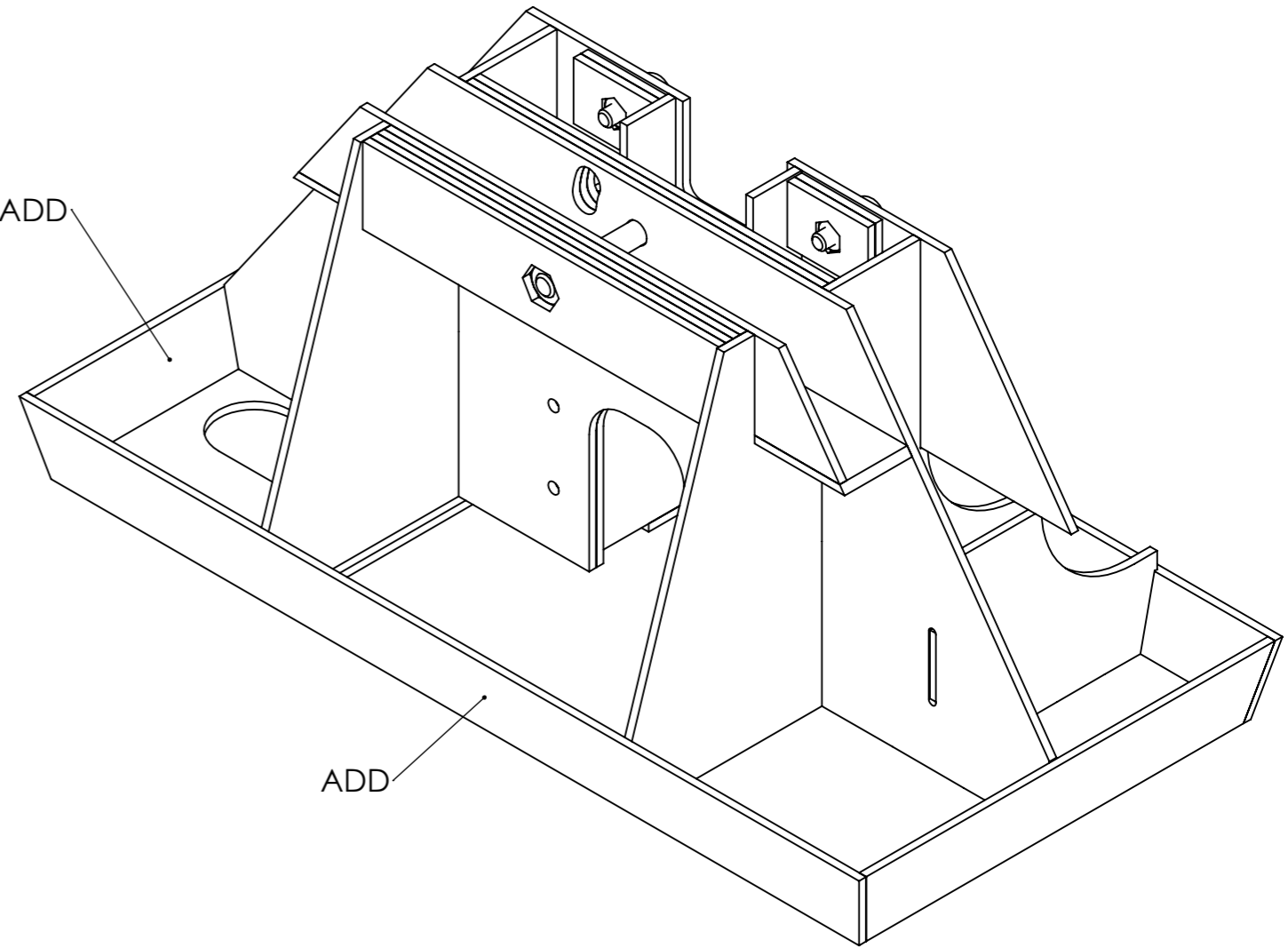
CHAMFER BOTH ENDS
READY FOR NEXT STEP



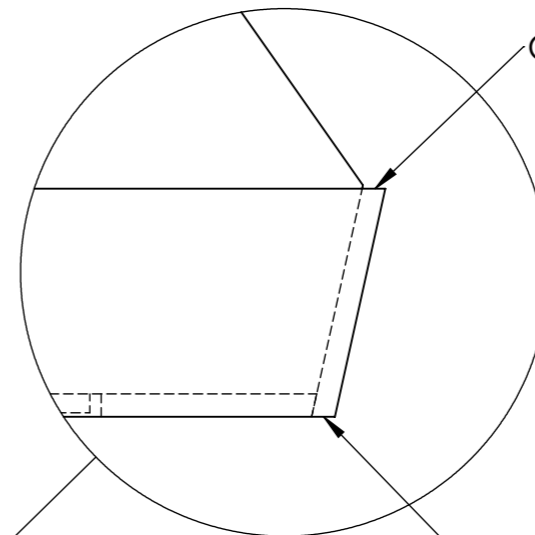
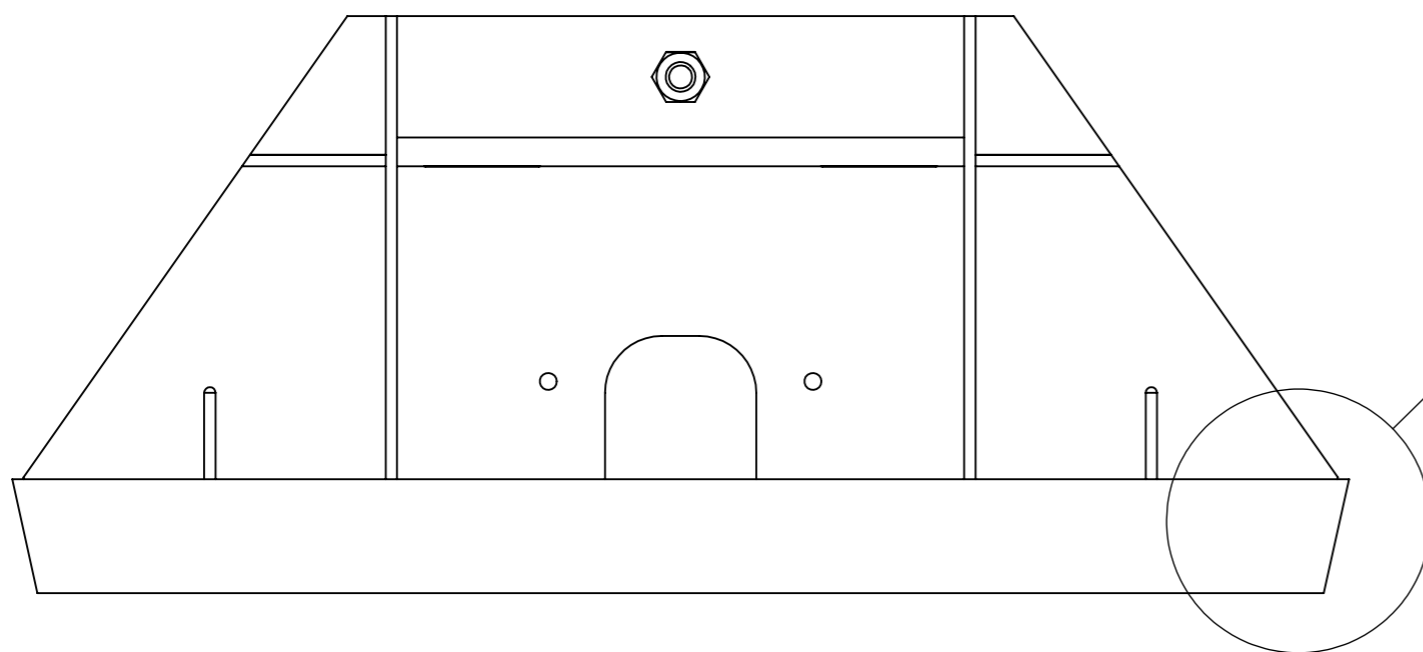
ADD

ADD

ADD



ADD

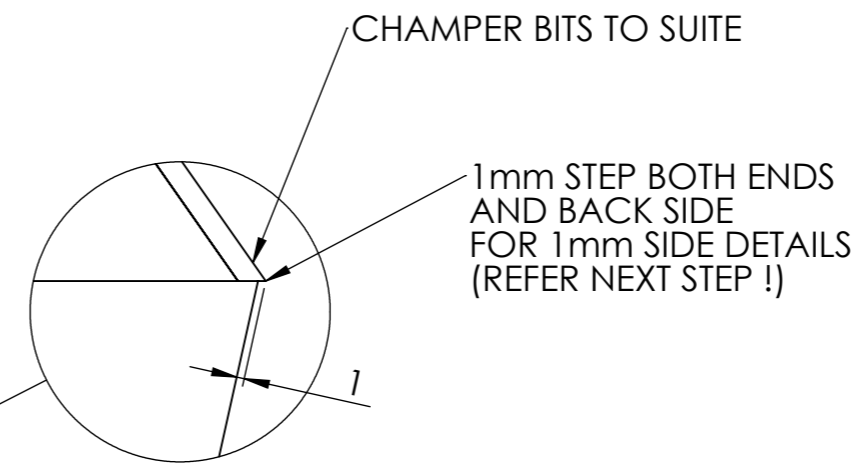
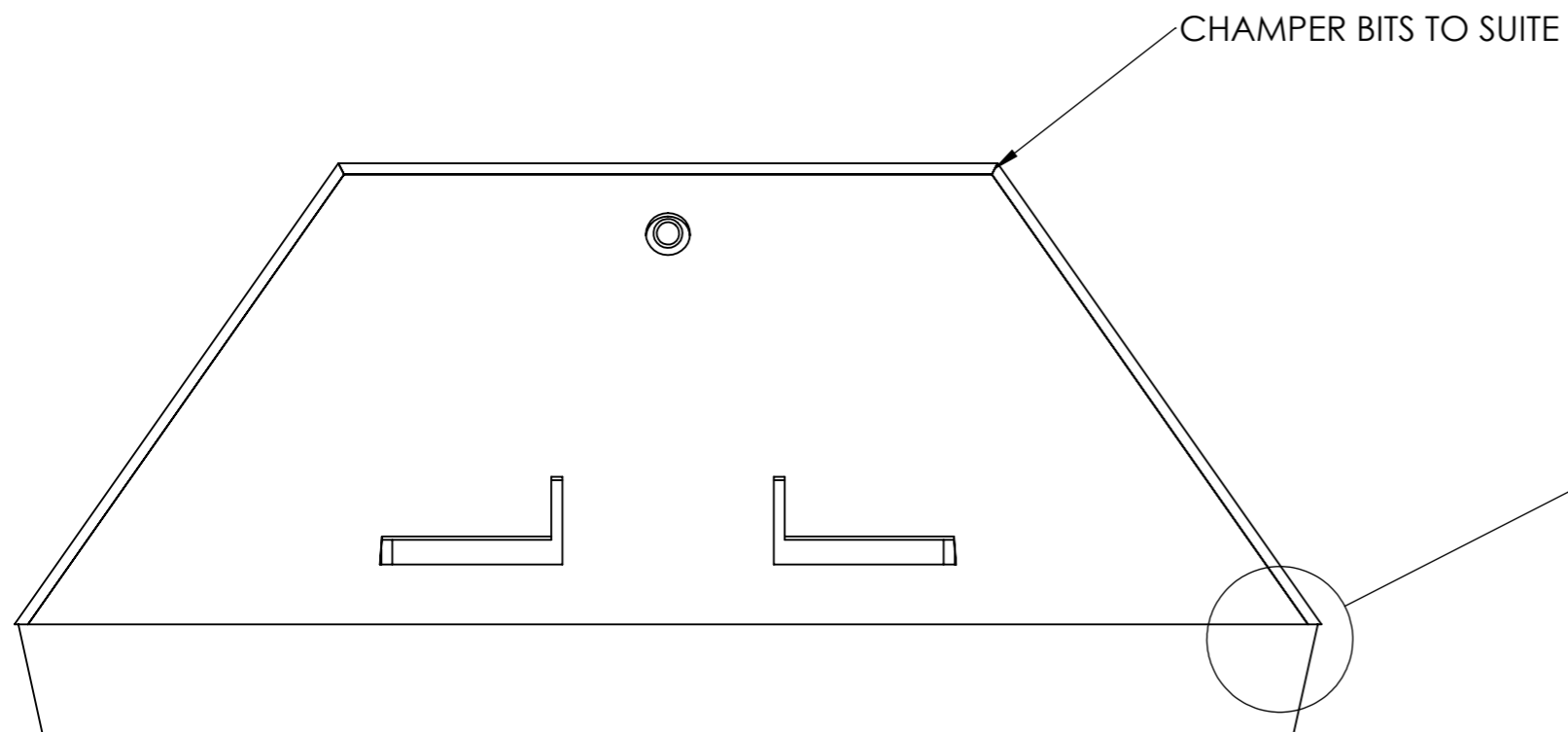
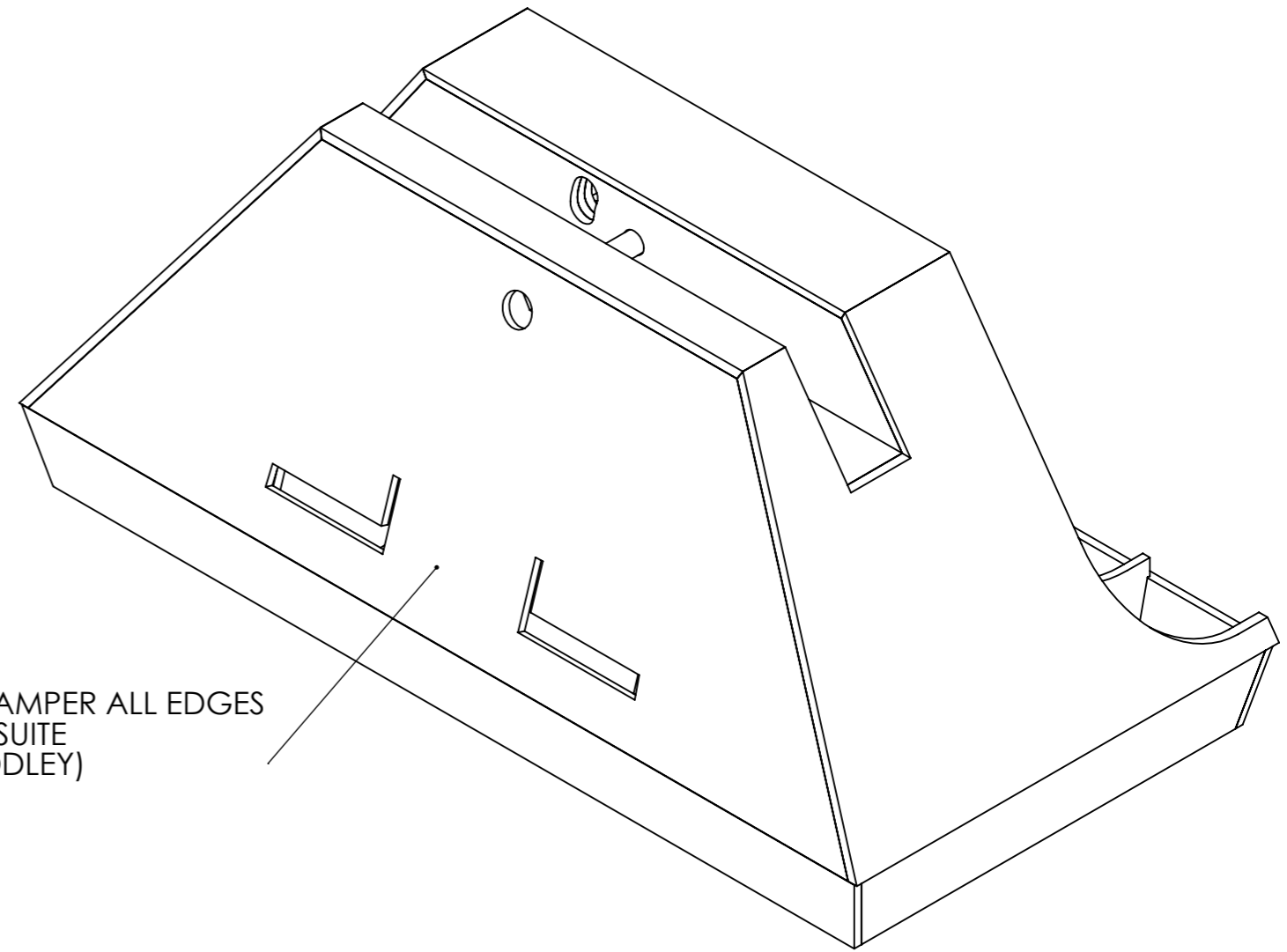
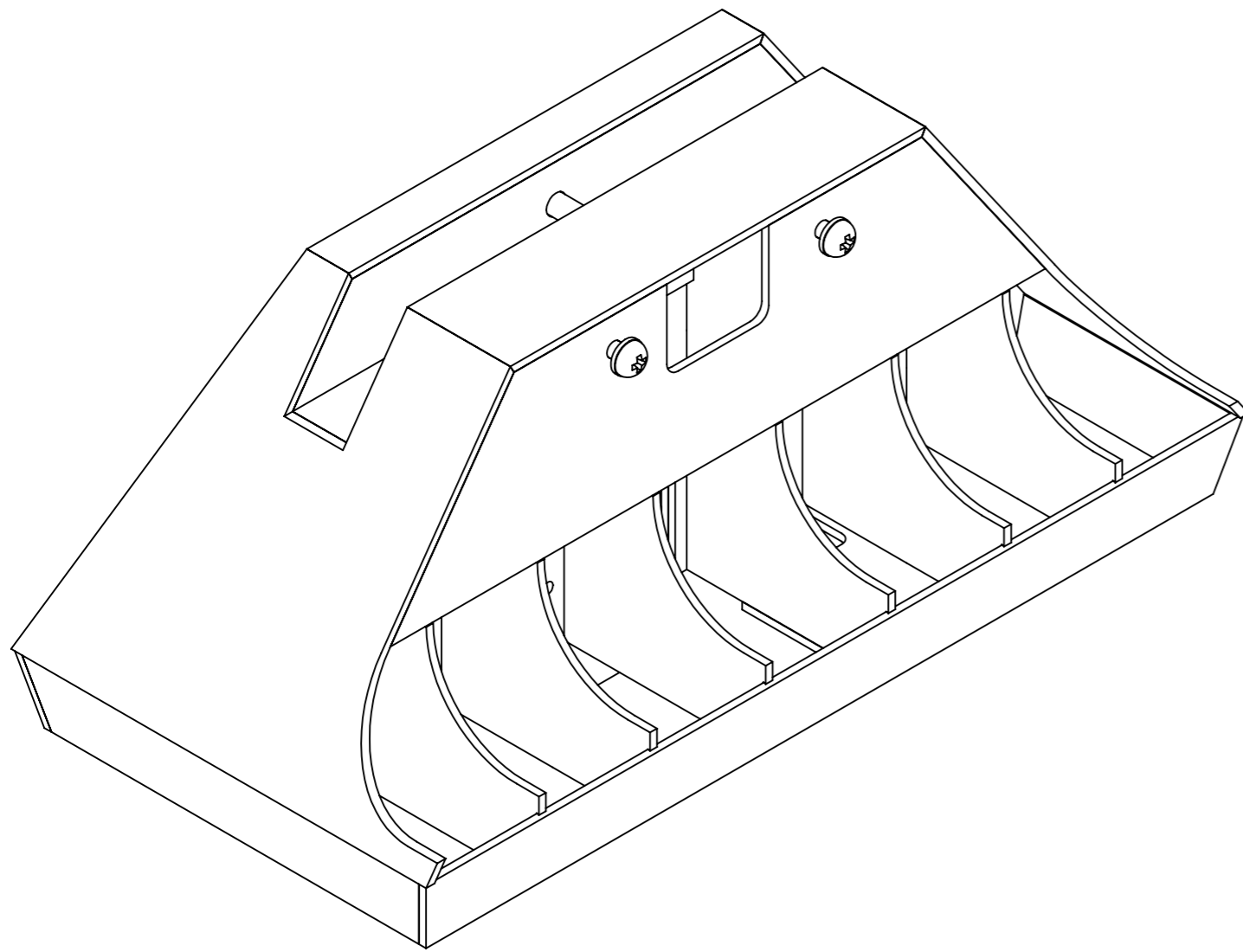


CHAMFER BITS TO SUITE

CHAMFER BITS TO SUITE

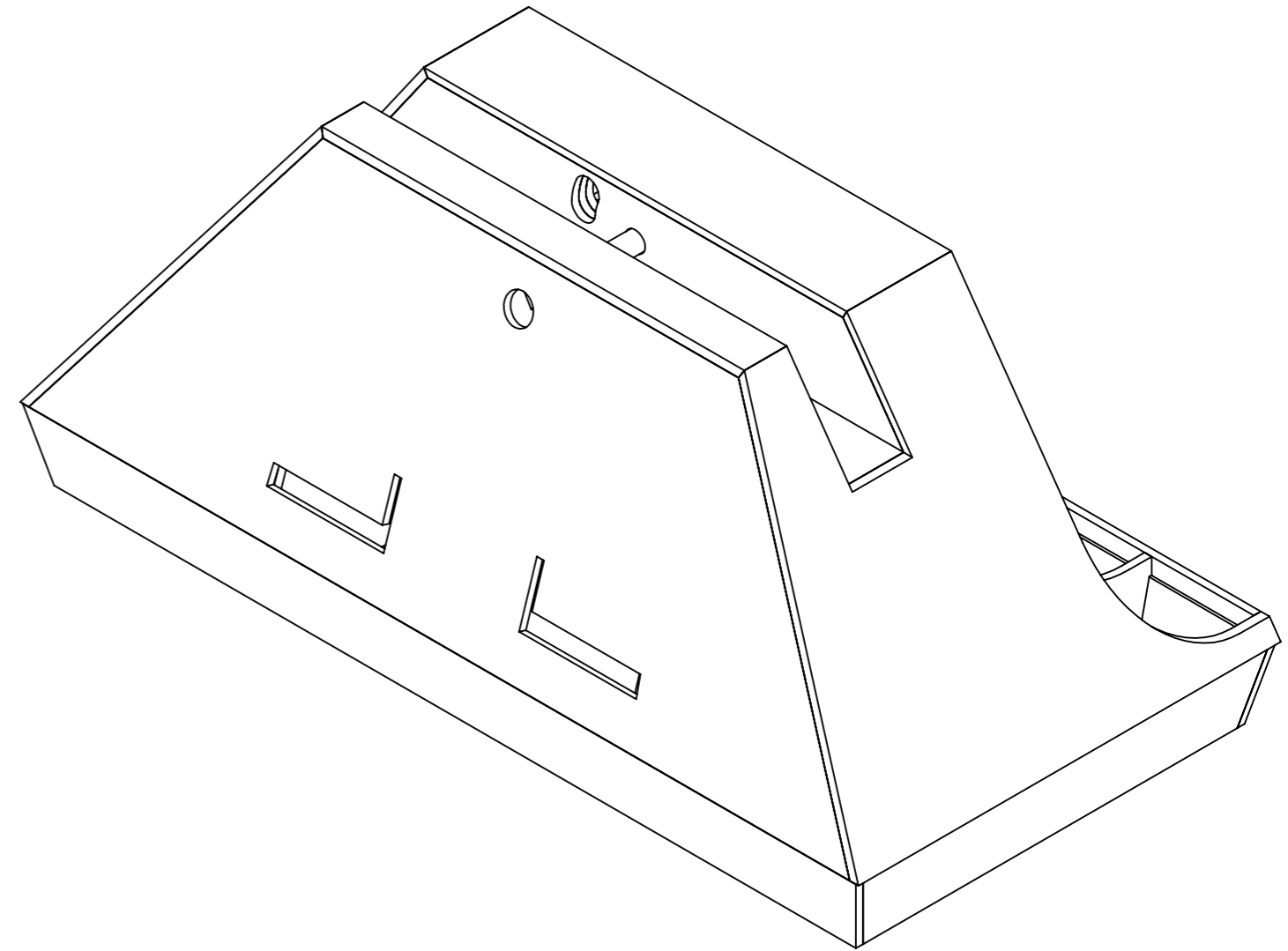
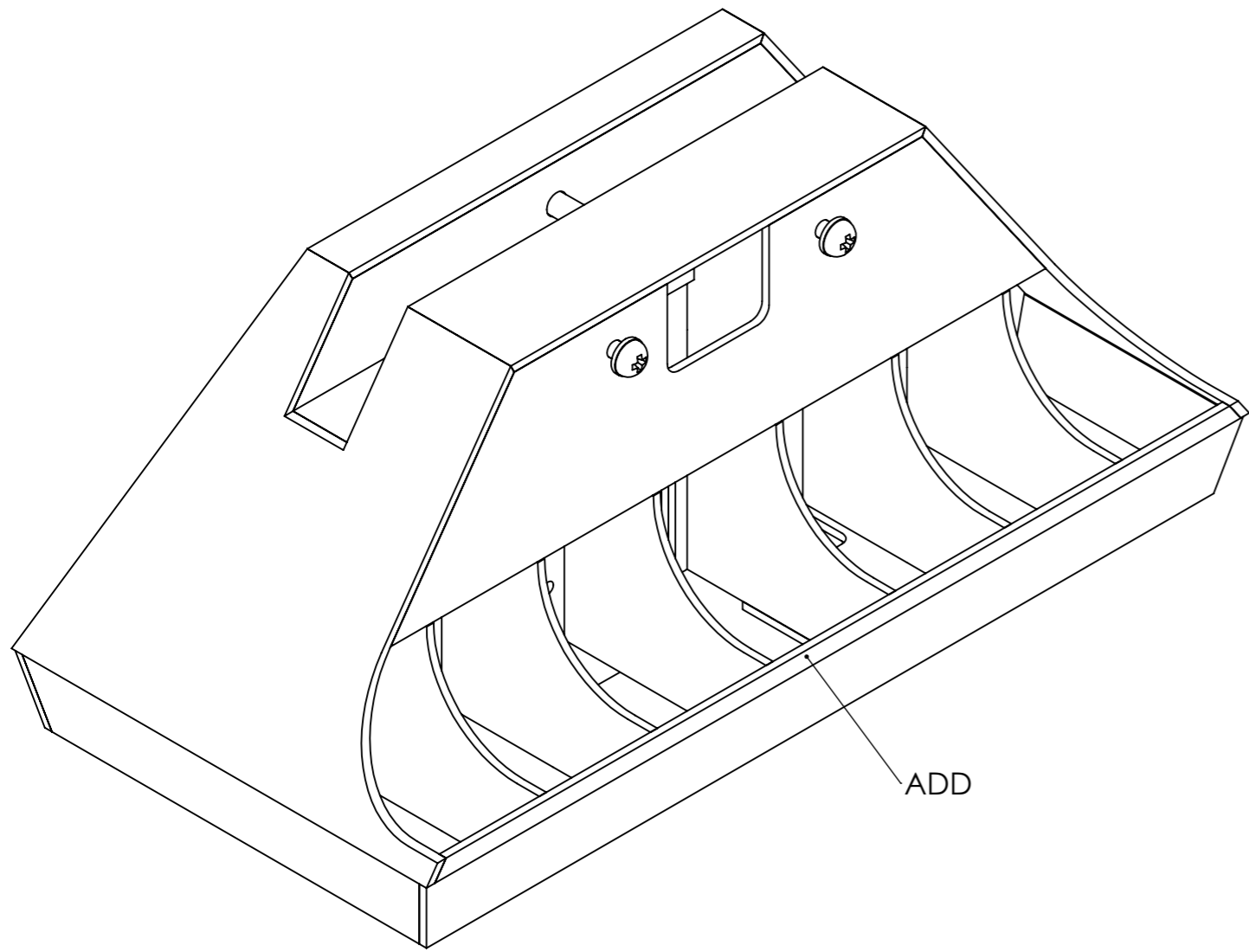
DETAIL B
SCALE 1 : 1

STEP " 07"

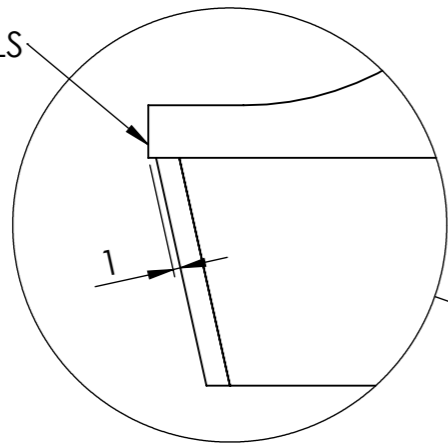


DETAIL A
SCALE 1 : 1

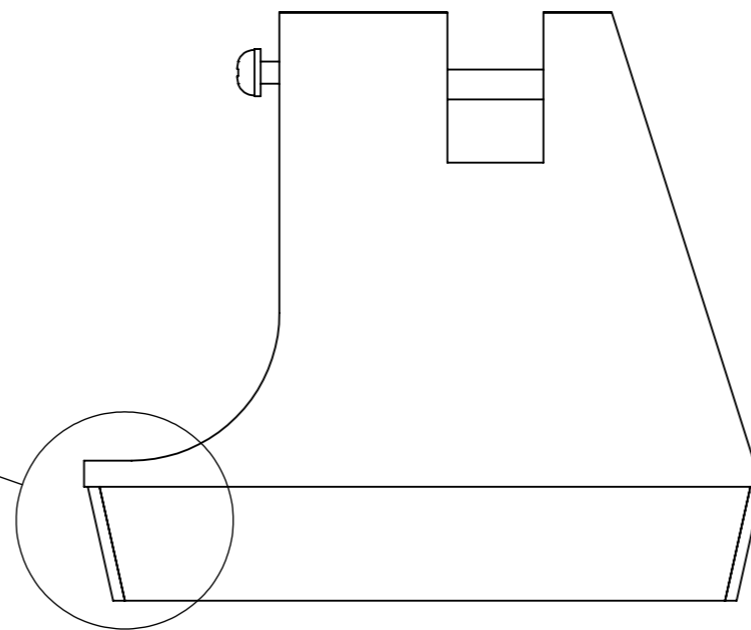
STEP " 08"



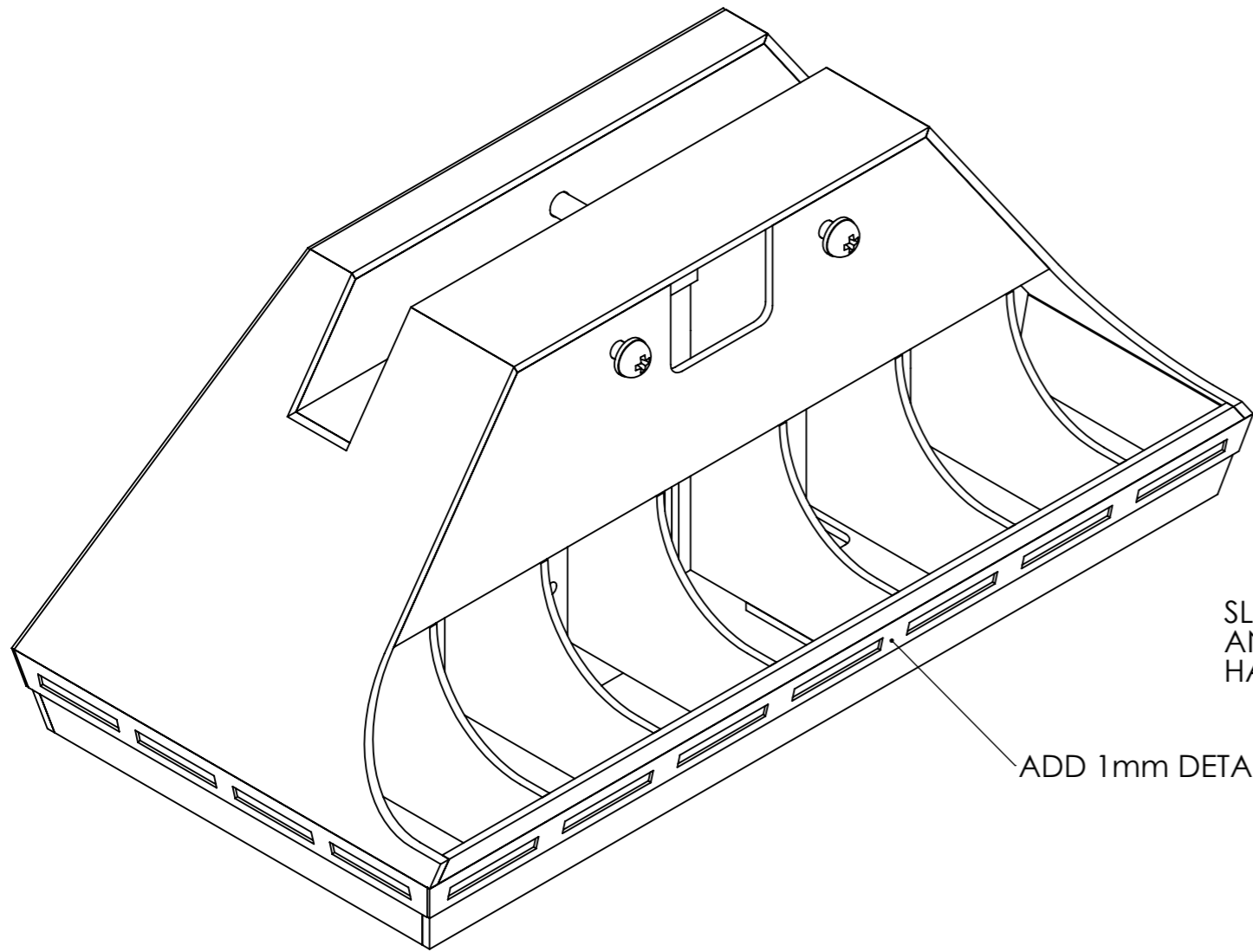
1mm STEP
FOR 1mm SIDE DETAILS



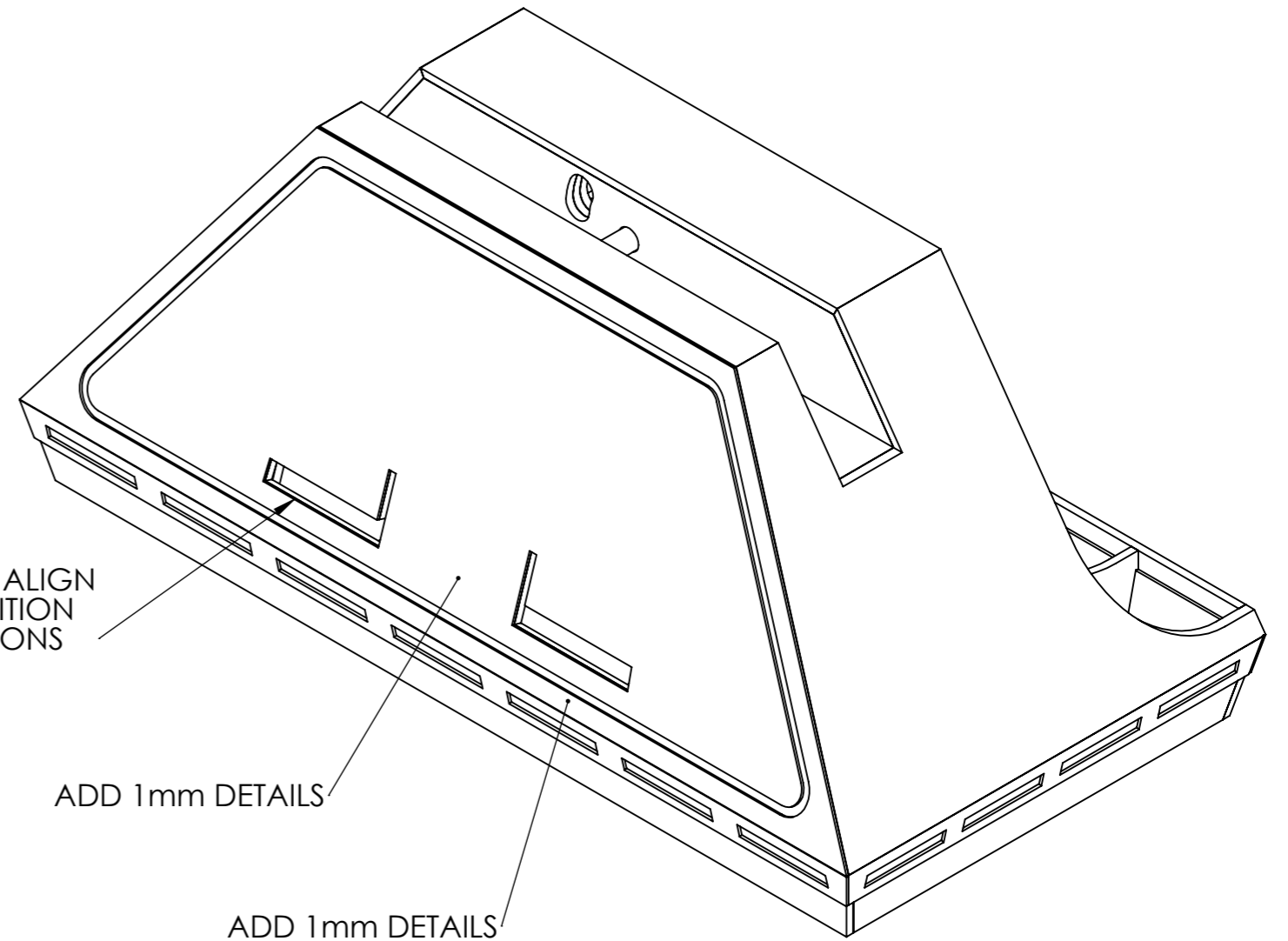
DETAIL C
SCALE 1 : 1



STEP " 09"



ADD 1mm DETAILS



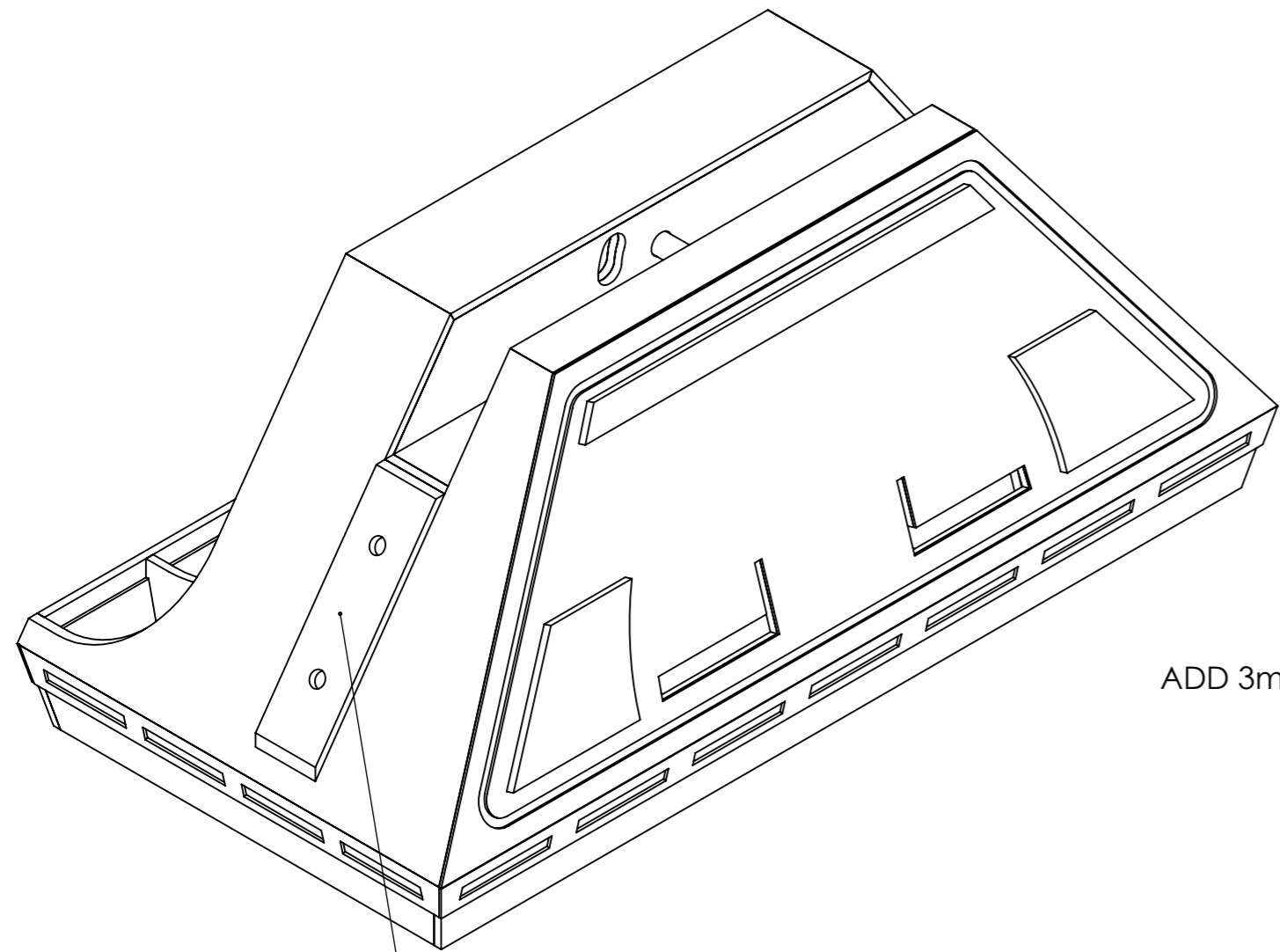
SLOTS TO ALIGN
AND POSITION
HALF-MOONS

ADD 1mm DETAILS

ADD 1mm DETAILS

FILL GAPS AND
BLOCK SAND ALL OVER
FOR UNIFORM FINISH

STEP " 10"



ADD 3mm DETAILS

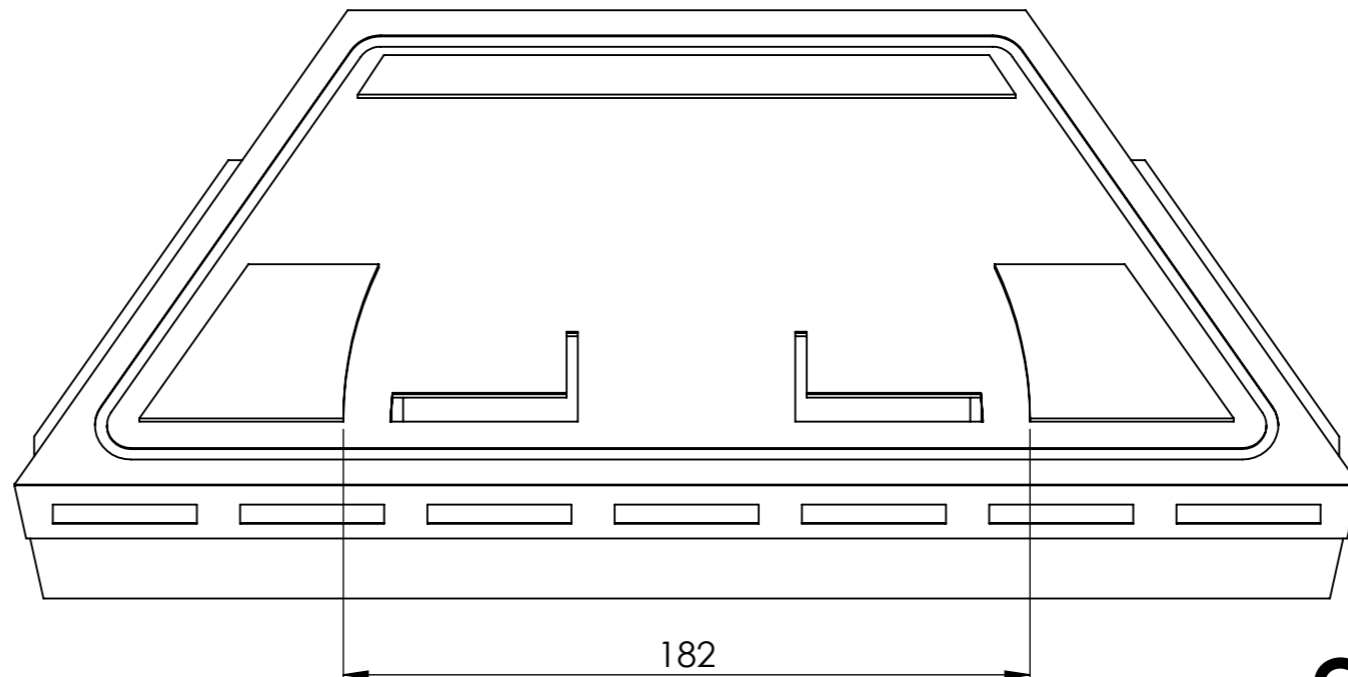
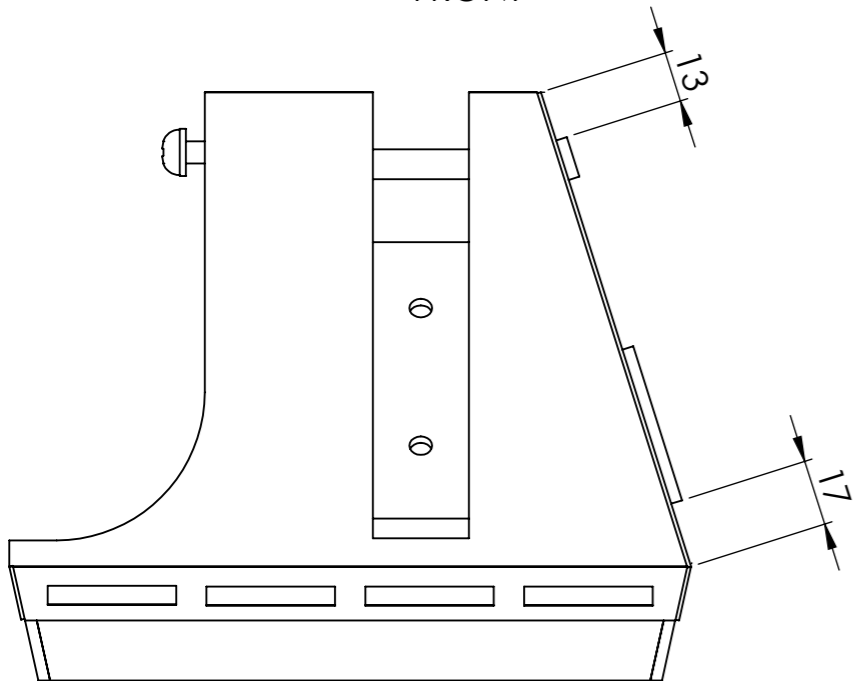
FRONT

ADD 3mm DETAILS

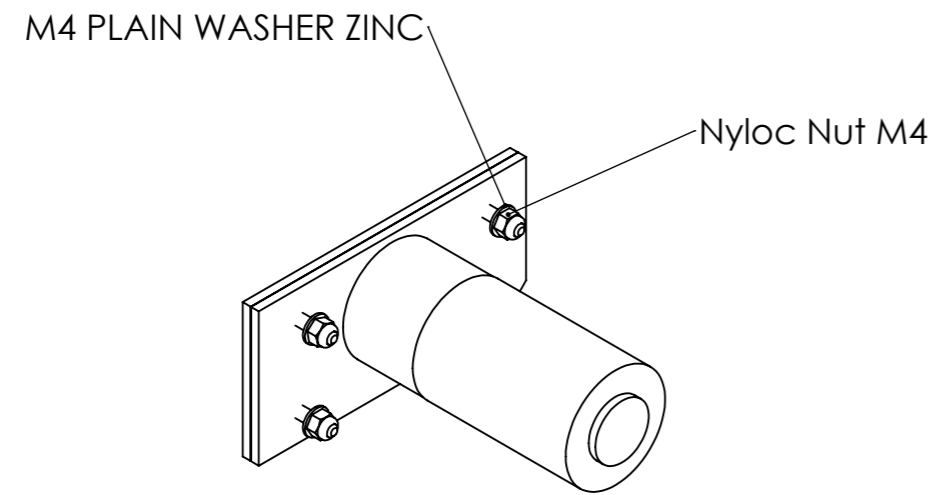
ADD 3mm DETAILS

ADD 3mm DETAILS

ADD 3mm DETAILS FRONT



STEP " 11 "

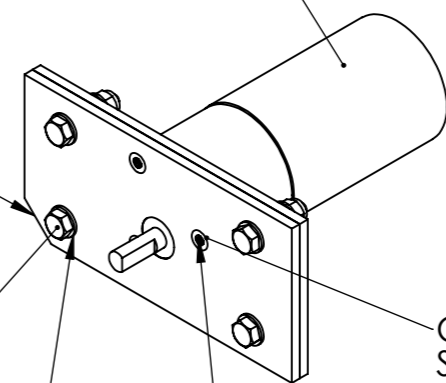


Jaycar Motor 50kgcm - CAT. NO. YG2738

DRILL & TAP M4 FOR SCREW
Hex Head Set Screw M4 x 20
(SCREW HEAD TYPE NOT IMPORTANT)

NOTCH ON BOTTOM

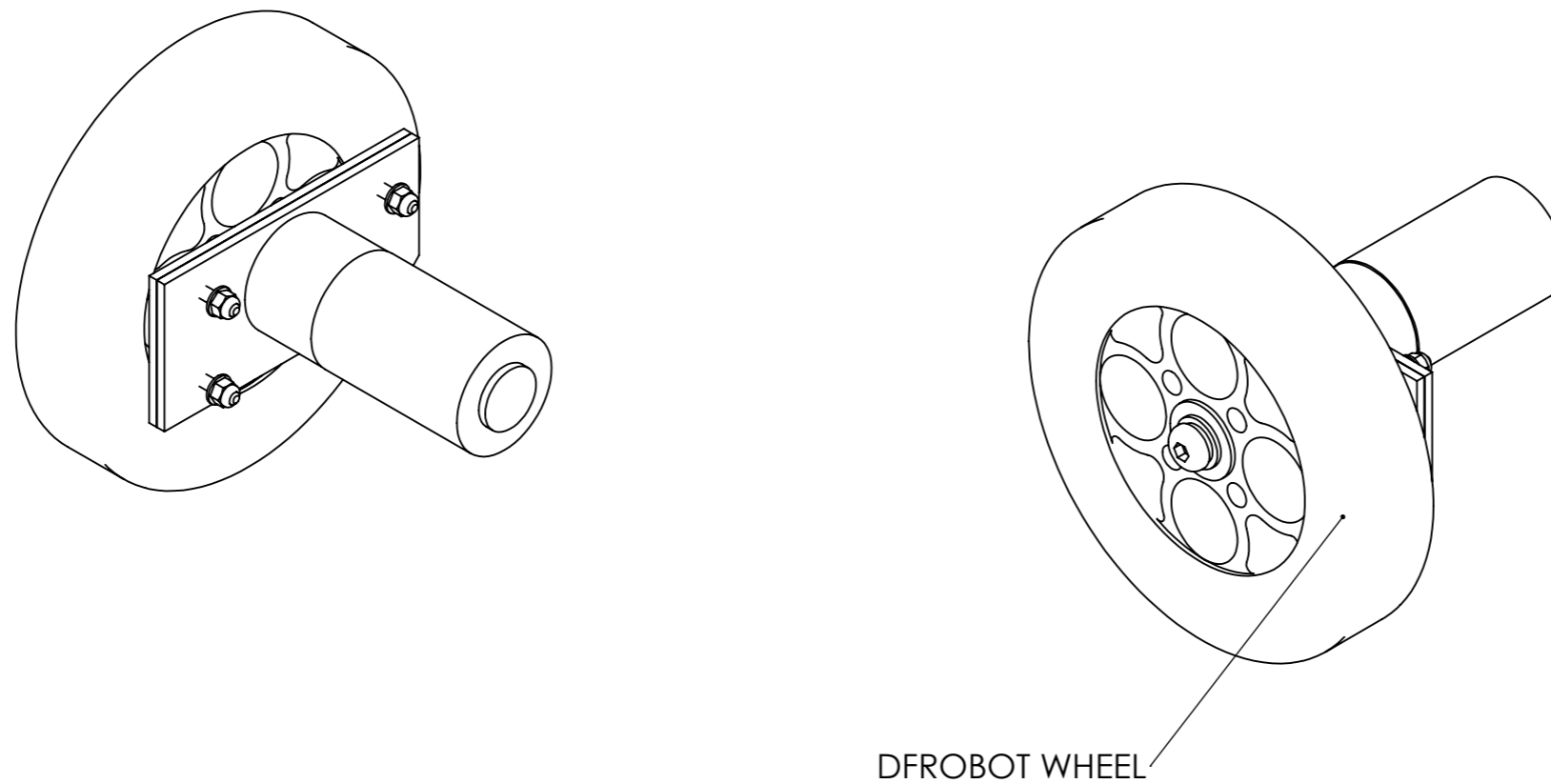
M4 PLAIN WASHER ZINC



COUNTER-SINK HOLES
SO SCREWS SIT FLAT

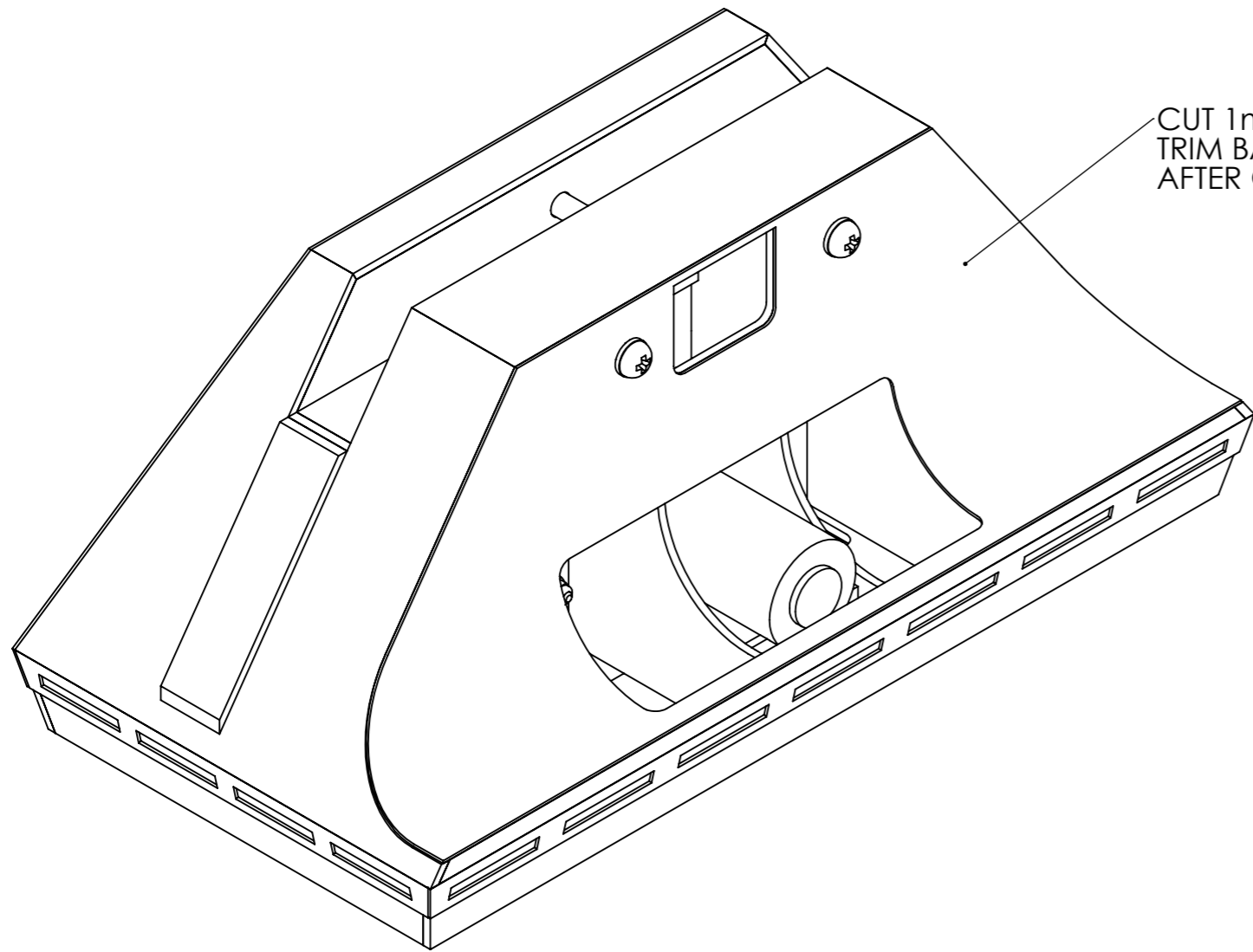
Machine Screw Phillips CSK Head M3 x 10

STEP " 12"

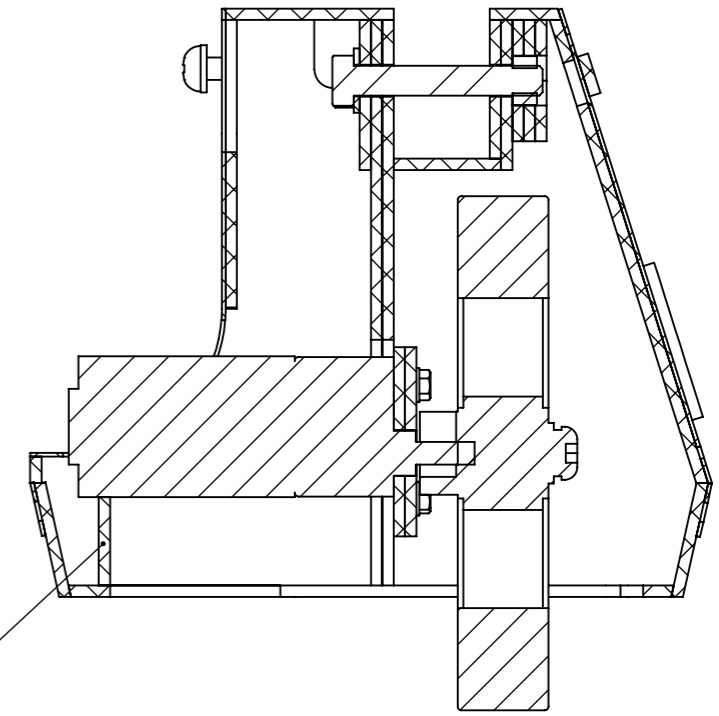


DF ROBOT ϕ 135 WHEEL ASSEMBLY
www.dfrobot.com
RUBBER WHEEL 136x24mm (KIT)
TO SUITE 6mm MOTOR SHAFT

STEP " 13"



CUT 1mm SKIN 160 x 350 AND
TRIM BACK & CUT HOLES
AFTER GLUE SETS

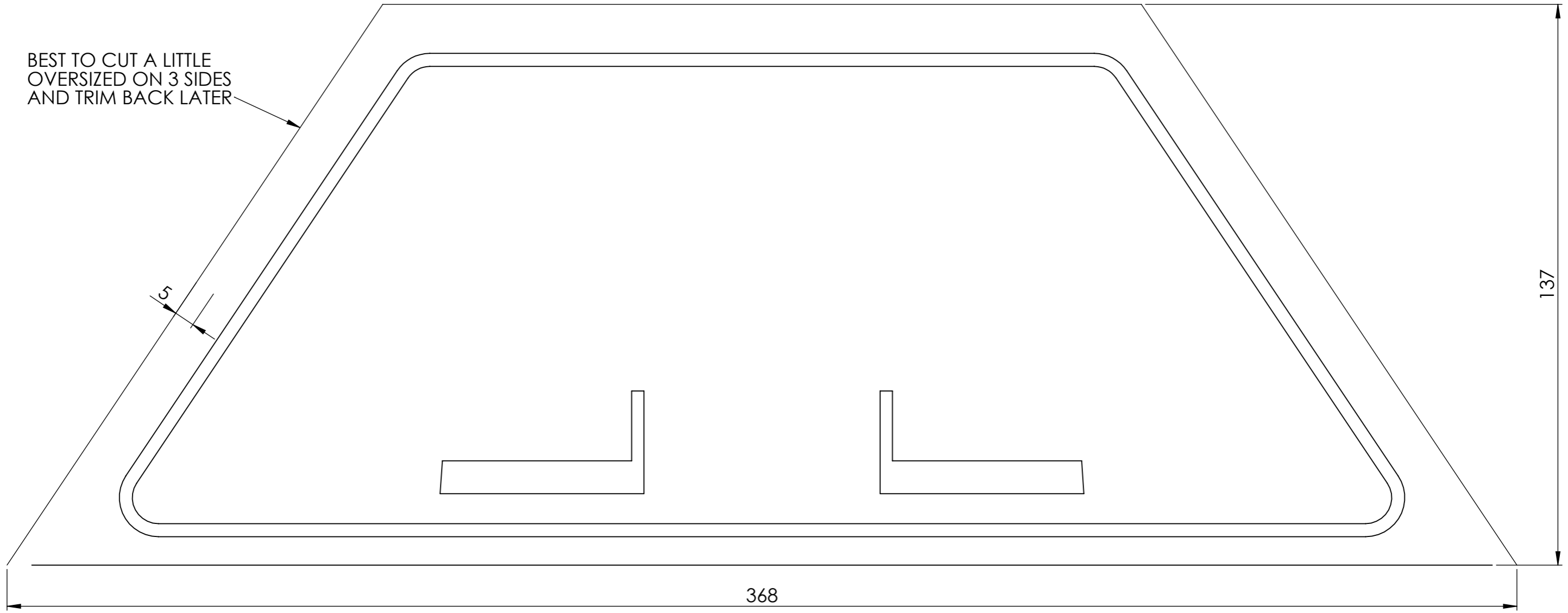


FIT MOTOR SUPPORT PLATE
ADJUST TO SUITE
(SIT GENTLY ON MOTOR)

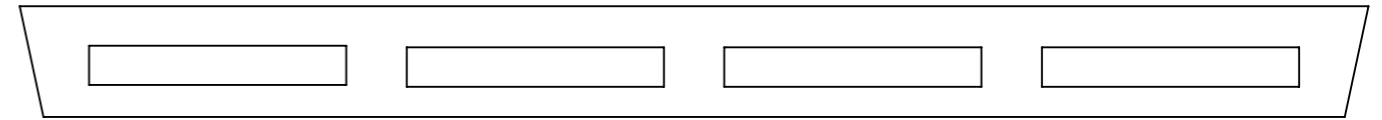
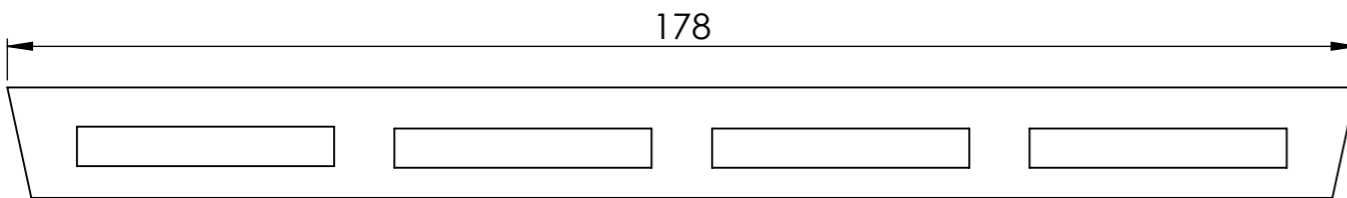
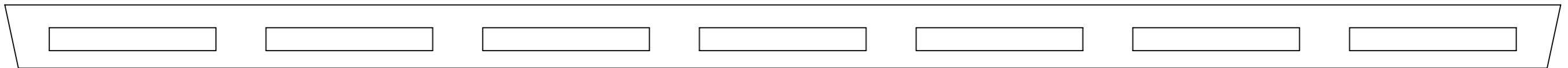
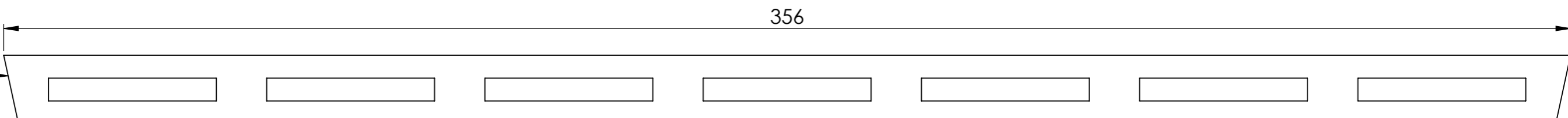
SECTION E-E

STEP " 14"

BEST TO CUT A LITTLE
OVERSIZED ON 3 SIDES
AND TRIM BACK LATER



CUT A LITTLE LONGER
BOTH ENDS AND
TRIM BACK LATER



1mm CUTTING
PRINT "FULL SIZE" ON A3 PAPER
AND CHECK DIMENSIONS AFTER PRINTING