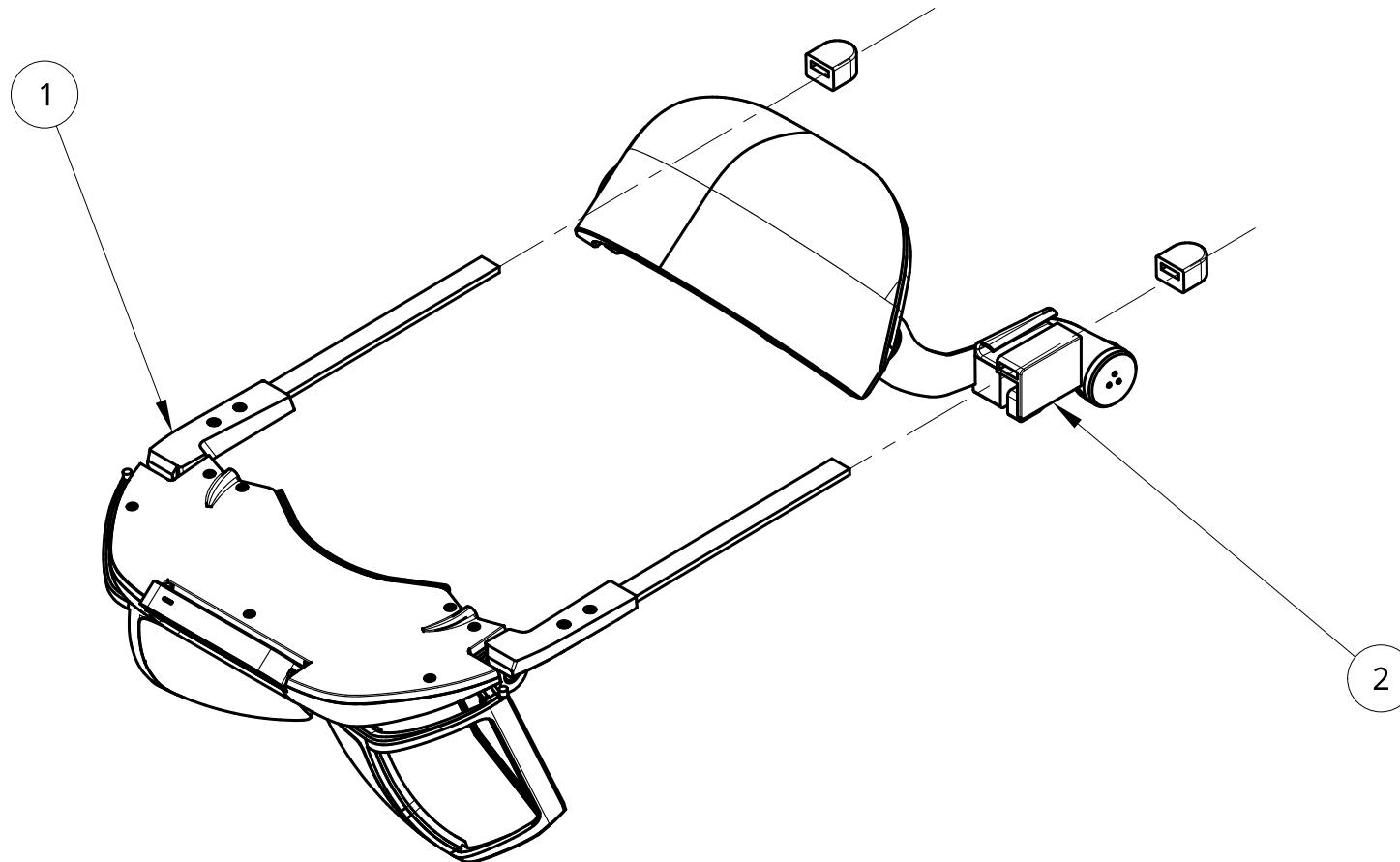


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NOTES:

1) Install endcaps from optics assembly last

Item No.	Quantity	Part number	Description
1	1	#100-000	OPTICS ASSM.
2	1	#200-000	HEADGEAR ASSM
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS		NAME	DATE
ANGULAR = \pm °	DRAWN	FLORIAN MAURER	01/15/2019
SURFACE FINISH ✓	CHECKED	JOHNATHON SELSTAD	01/15/2019
DO NOT SCALE DRAWING	APPROVED	DAVID HOLZ	01/15/2019
BREAK ALL SHARP EDGES AND REMOVE BURRS			
THIRD ANGLE PROJECTION	MATERIAL	FINISH	SIZE A DWG NO. #000-000 REV. 1
			SCALE 1:3 WEIGHT SHEET 1 of 1

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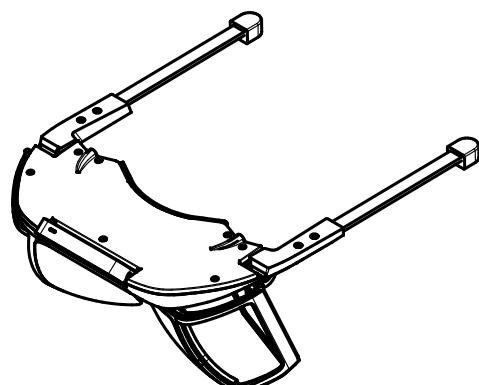
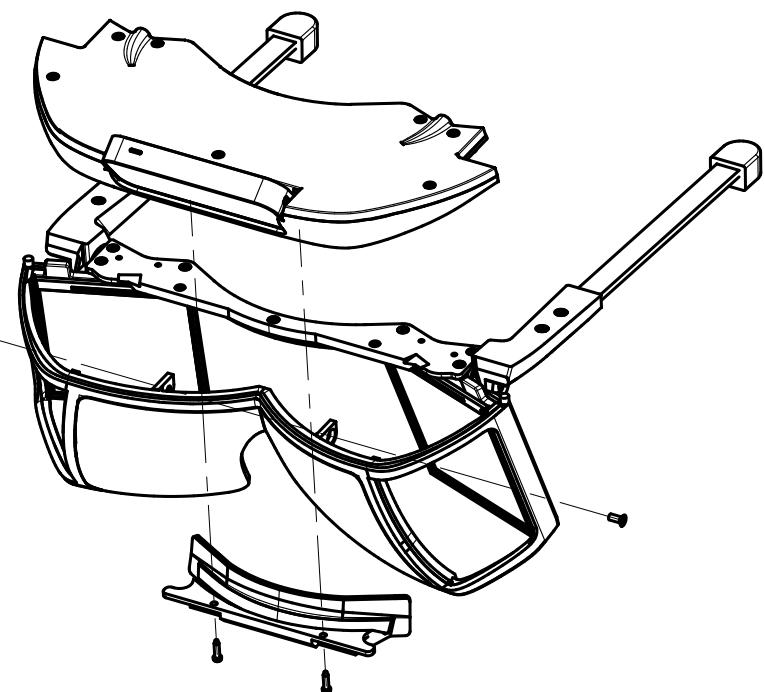
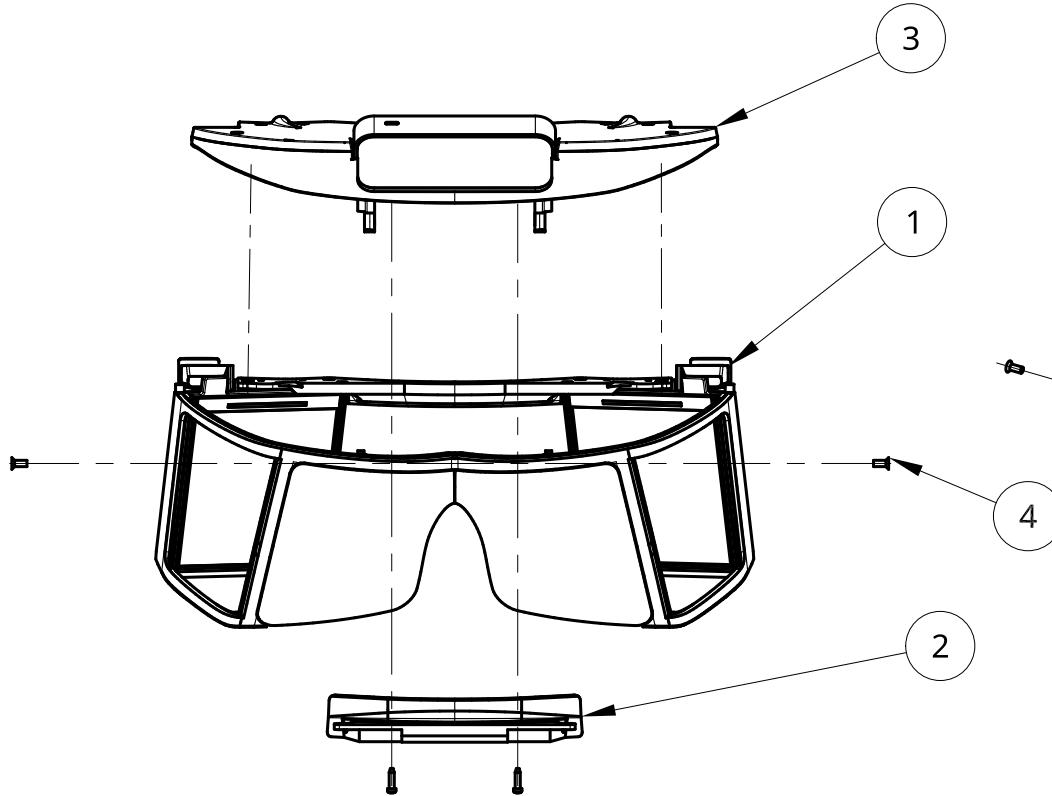
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SCALE 1:5

Item No.	Quantity	Part number	Description
1	1	#110-000	HINGED OPTICS BRACKET ASSM.
2	1	#115-000	FACIAL INTERFACE ASSM.
3	1	#120-000	HALO ELECTRONICS MODULE ASSM.
4	2	#640-001	M2.5x0.45 6mm LONG STEEL FLAT HEAT SCREW 90 DEG CS

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETERS
ANGULAR = \pm °
SURFACE FINISH ✓
DO NOT SCALE DRAWING
BREAK ALL SHARP EDGES AND REMOVE BURRS
THIRD ANGLE PROJECTION

	NAME	DATE	Project: North Star	
DRAWN	FLORIAN MAURER	01/15/2019	TITLE	
CHECKED	JOHNATHON SELSTAD	01/15/2019		
APPROVED	DAVID HOLZ	01/15/2019		
			SIZE	DWG NO.
			A	#100-000
	SCALE	1:3	WEIGHT	SHEET
				1 of 1

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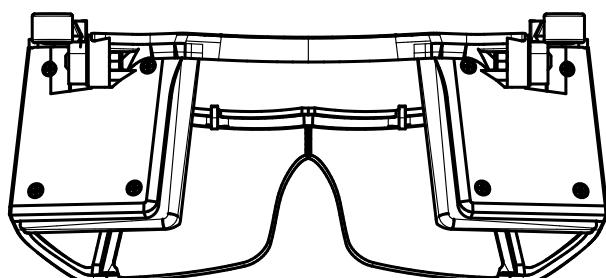
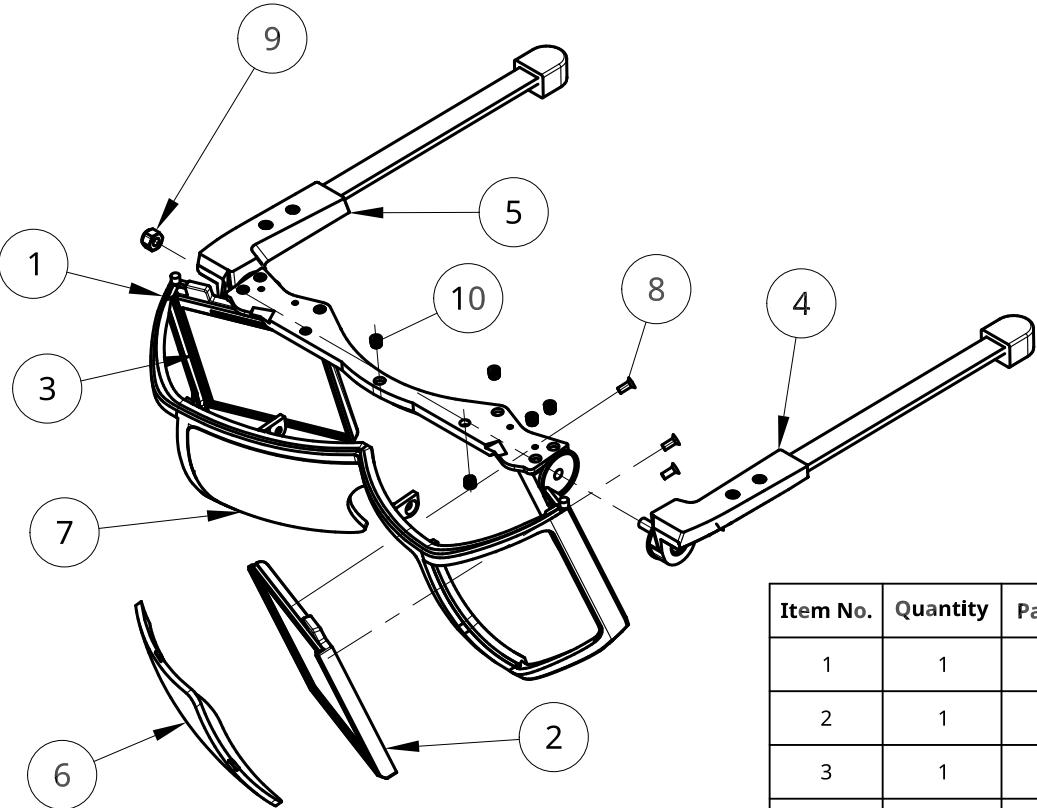
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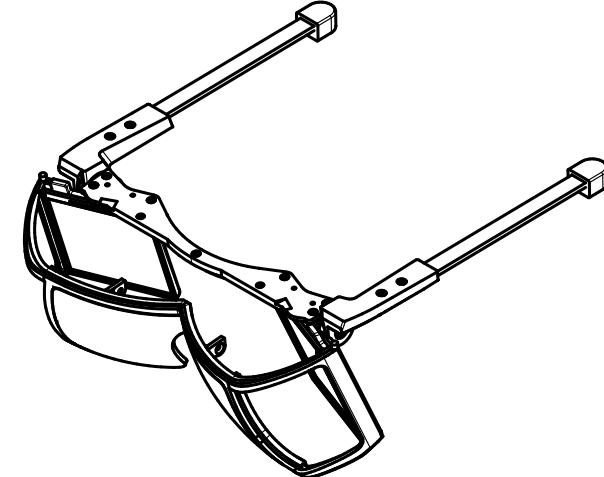
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BACK
SCALE 1:4



SCALE 1:4

Item No.	Quantity	Part number	Description
1	1	#110-001	OPTICS BRACKET MAIN BODY - 3DPRINT
2	1	#111-000	LEFT DISPLAY ASSM.
3	1	#112-000	RIGHT DISPLAY ASSM.
4	1	#113-000	LEFT ROT. SLIDE MOUNT ASSM.
5	1	#114-000	RIGHT ROT. SLIDE MOUNT ASSM.
6	1	#500-001	LEFT REFLECTOR
7	1	#500-002	RIGHT REFLECTOR
8	8	#640-001	M2.5x0.45 6mm LONG STEEL FLAT HEAD SCREW 90 DEG CS
9	2	#660-001	M4x0.7mm ZINC PLATED NYLON INSERT HEX LOCK NUT
10	9	#690-001	M2.5x0.45 3.4mm LONG HEAT-SET INSERT FOR PLASTICS

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETERS

ANGULAR = \pm °

SURFACE FINISH ✓

DO NOT SCALE DRAWING

BREAK ALL SHARP EDGES AND
REMOVE BURRS

THIRD ANGLE PROJECTION

NAME DATE

DRAWN FLORIAN MAURER 01/14/2019

CHECKED JOHNATHON SELSTAD 01/15/2019

APPROVED DAVID HOLZ 01/15/2019

SIZE A DWG NO. #110-000 REV. 1

SCALE 1:3 WEIGHT

Project: North Star

TITLE

HINGED OPTICS BRACKET ASSM.

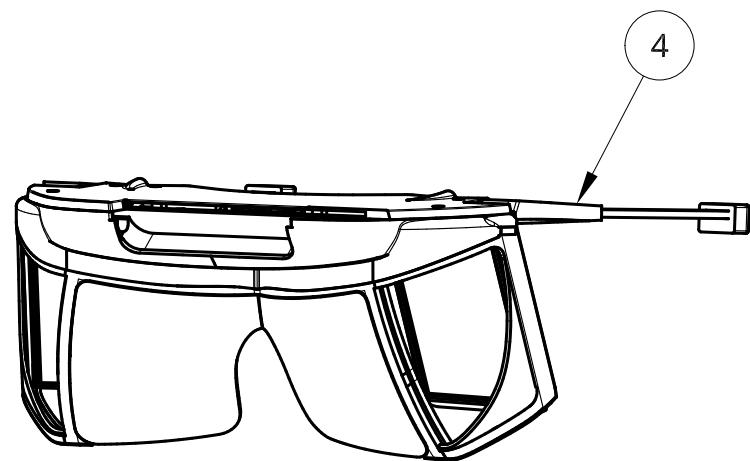
SHEET 1 of 1

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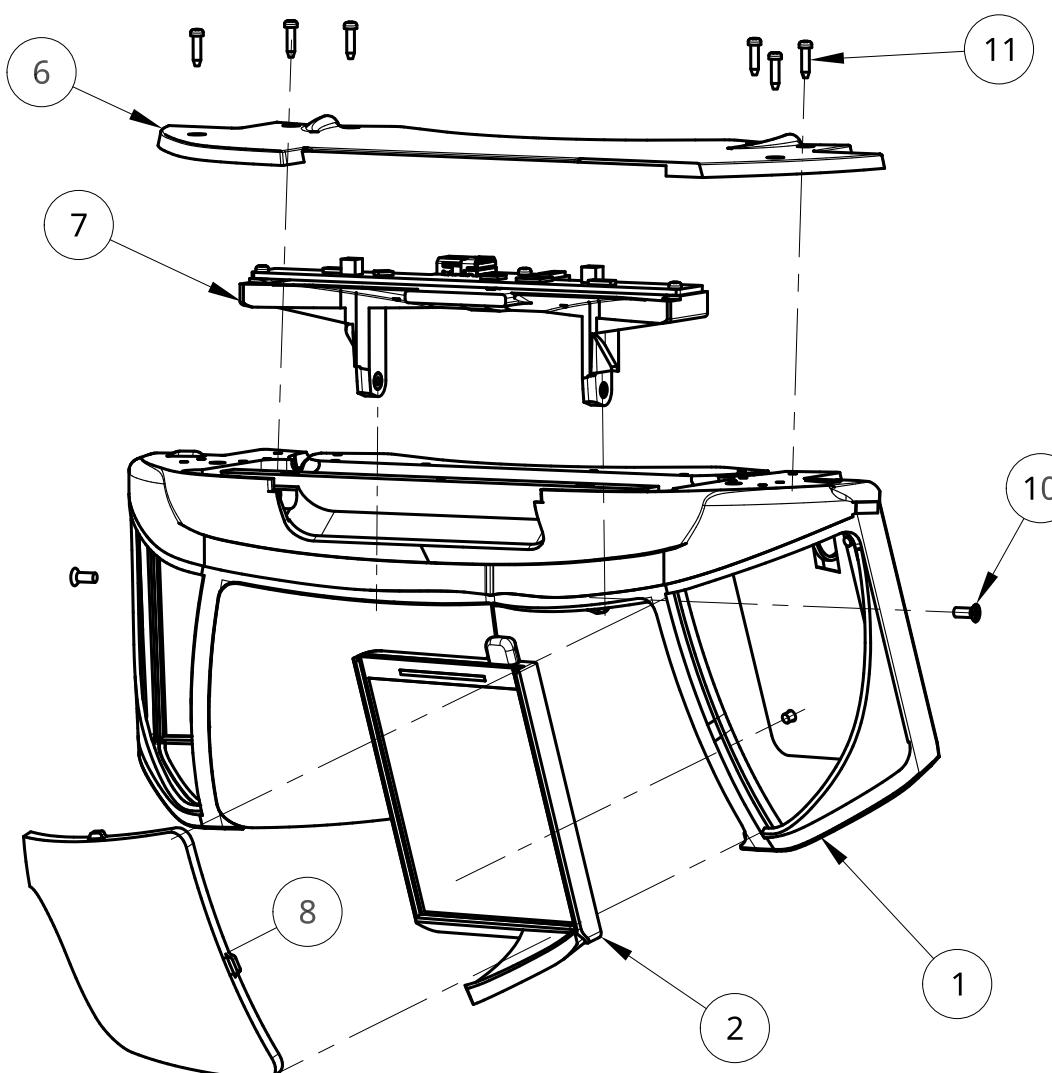


SCALE 1:3

NOTES:

- 1) Install Items 8 and 9 last

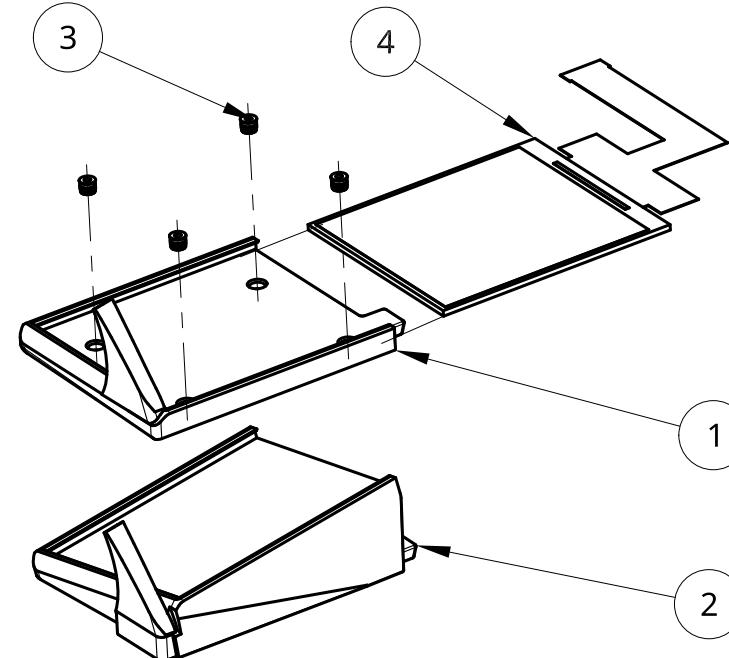
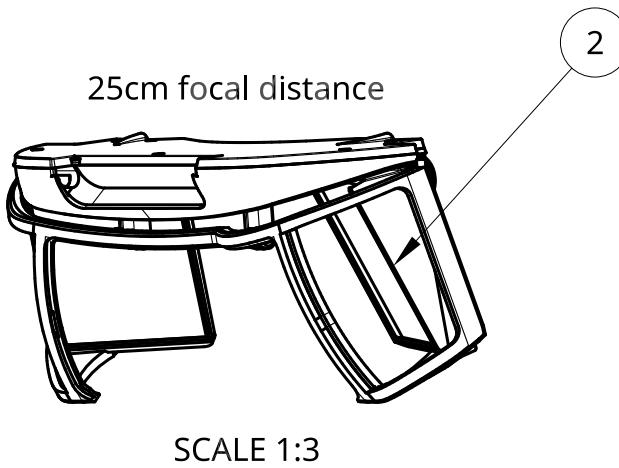
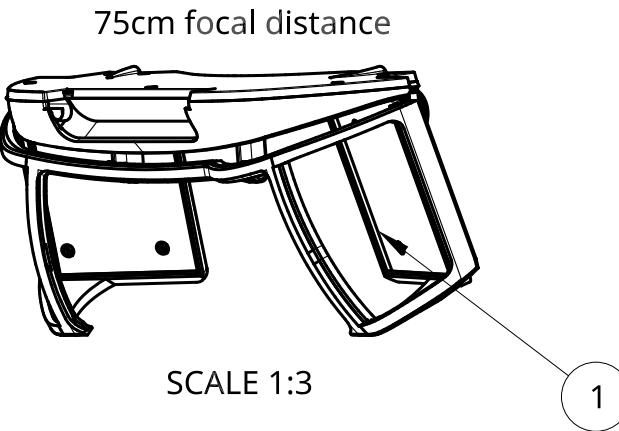
Item No.	Quantity	Part number	Description
1	1	#130-001	SIMPLIFIED OPTICS MAIN BODY - 3DPRINT
2	1	#111-000	LEFT DISPLAY ASSM.
3	1	#112-000	RIGHT DISPLAY ASSM.
4	1	#113-000	LEFT ROT. SLIDE MOUNT ASSM.
5	1	#114-000	RIGHT ROT. SLIDE MOUNT ASSM.
6	1	#120-002	HALO LID - 3DPRINT
7	1	#131-000	SIMPLIFIED ELECTRONICS BAY ASSM.
8	1	#500-001	LEFT REFLECTOR
9	1	#500-002	RIGHT REFLECTOR
10	10	#640-001	M2.5x0.45 6mm LONG STEEL FLAT HEAD SCREW 90 DEG CS
11	6	#650-001	M2x8mm LONG THREAD-FORMING SCREWS FOR PLASTIC



UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS			
ANGULAR = \pm °			
SURFACE FINISH ✓			
DO NOT SCALE DRAWING			
BREAK ALL SHARP EDGES AND REMOVE BURRS			
THIRD ANGLE PROJECTION			
DRAWN		NAME	
CHECKED		DATE	
APPROVED		TITLE	
Project: North Star			
SIMPLIFIED OPTICS MODULE ASSM.			
SIZE	DWG NO.	#130-000	
A	REV. 1		
SCALE 1:2		WEIGHT	
SHEET 1 of 1			

2

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NOTES:
 1) Select either Item 1 or 2
 2) Repeat for mirror assembly on right side

Item No.	Quantity	Part number	Description
1	1	#111-001	LEFT DISPLAY TRAY - 75cm FOCAL - 3DPRINT
2	1	#111-002	LEFT DISPLAY TRAY - 25cm FOCAL - 3DPRINT
3	4	#690-001	M2.5x0.45 3.4mm LONG HEAT-SET INSERT FOR PLASTICS
4	1	#700-002	BOE 3.5-in VS035ZSM-NW0 120HZ LTPS 1440*1600 Module

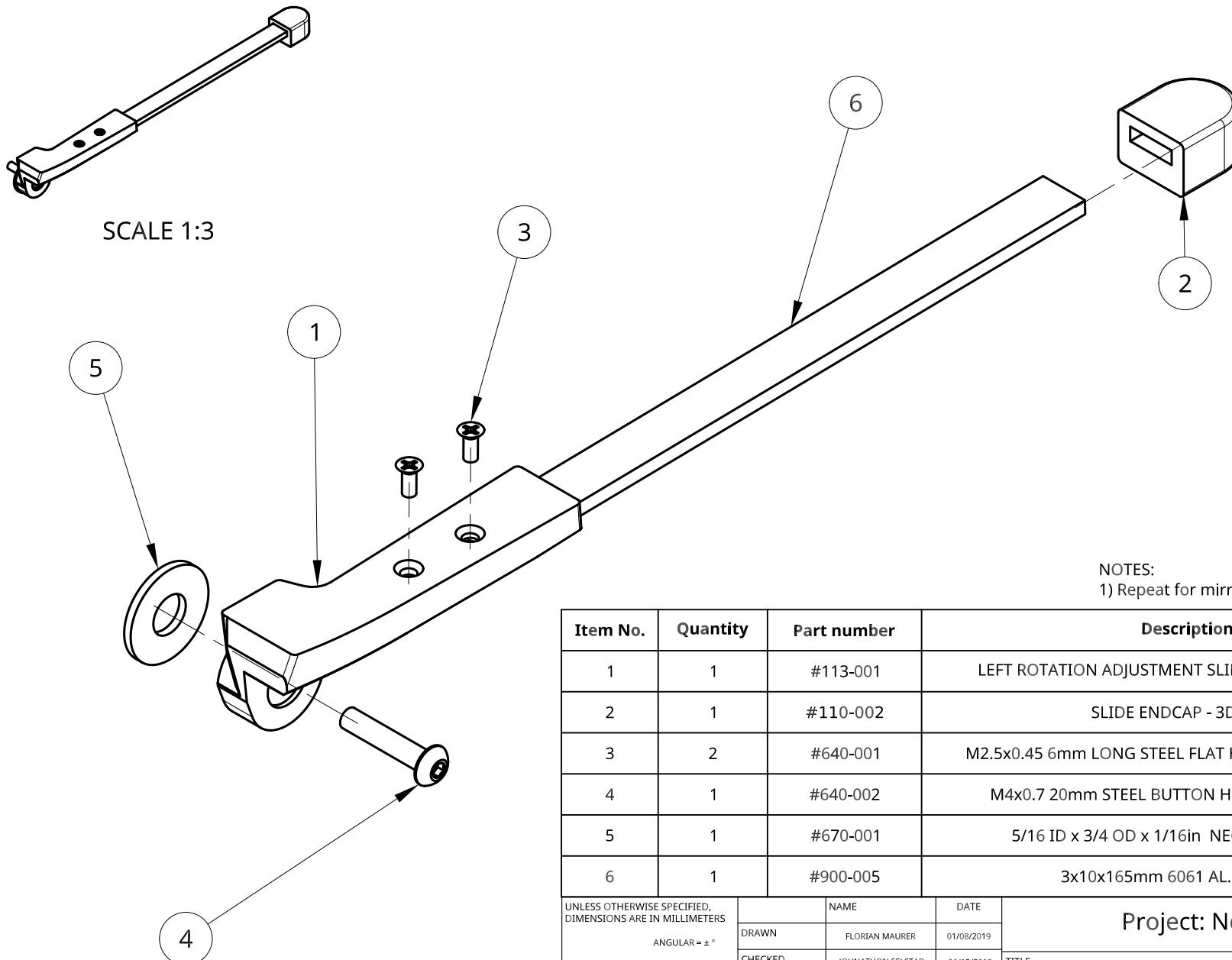
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS		NAME		DATE	Project: North Star	
ANGULAR = \pm °		DRAWN	FLORIAN MAURER	01/09/2019		
SURFACE FINISH ✓		CHECKED	JOHNATHON SELSTAD	01/15/2019	TITLE	
DO NOT SCALE DRAWING		APPROVED	DAVID HOLZ	01/15/2019		
BREAK ALL SHARP EDGES AND REMOVE BURRS					LEFT DISPLAY ASSM.	
THIRD ANGLE PROJECTION		MATERIAL	FINISH	SIZE A DWG NO. #111-000 REV. 1		
				SCALE 1:1 WEIGHT	SHEET 1 of 1	

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2

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Item No.	Quantity	Part number	Description
1	1	#113-001	LEFT ROTATION ADJUSTMENT SLIDE MOUNT - 3DPRINT
2	1	#110-002	SLIDE ENDCAP - 3DPRINT
3	2	#640-001	M2.5x0.45 6mm LONG STEEL FLAT HEAT SCREW 90 DEG CS
4	1	#640-002	M4x0.7 20mm STEEL BUTTON HEAD SOCKET SCREW
5	1	#670-001	5/16 ID x 3/4 OD x 1/16in NEOPRENE WASHER
6	1	#900-005	3x10x165mm 6061 AL. BAR SLIDE

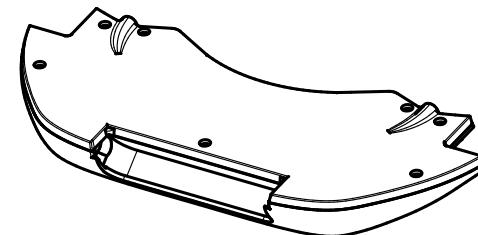
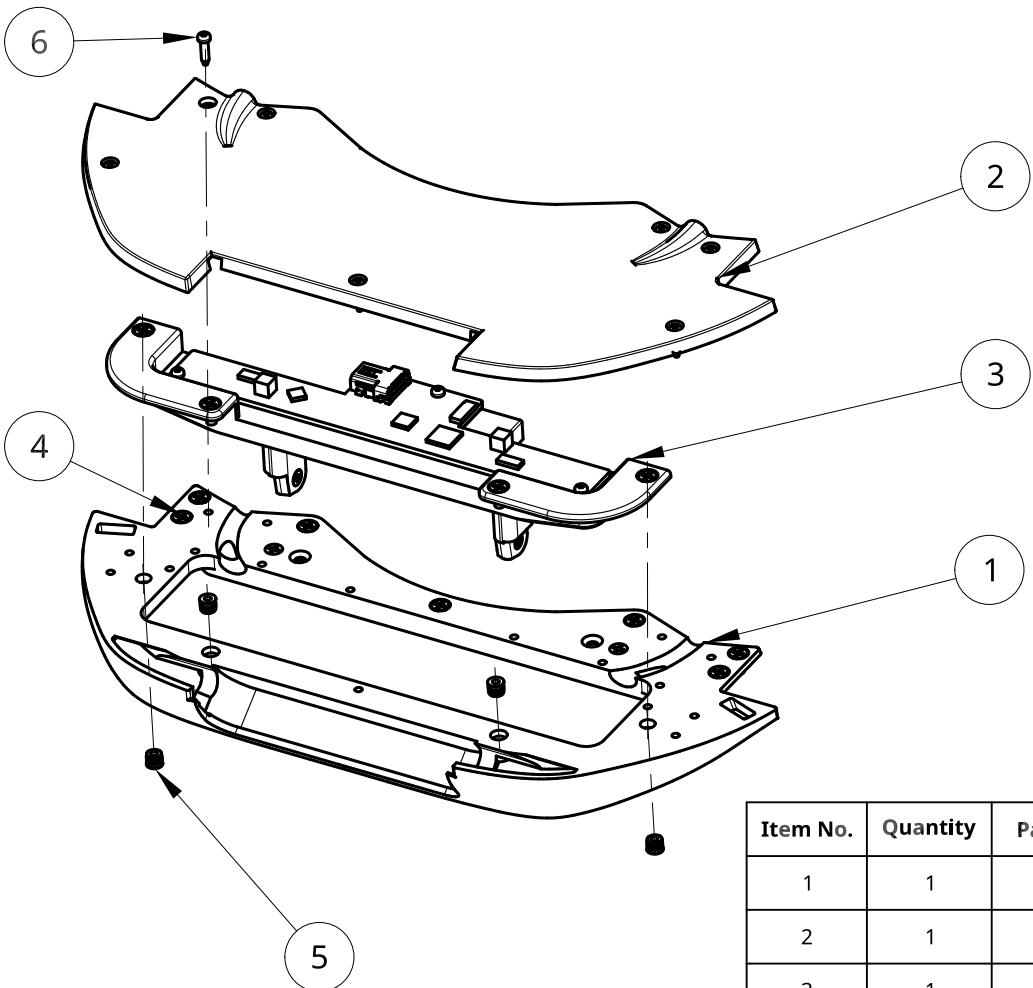
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS		NAME	DATE	Project: North Star		
ANGULAR = \pm °		DRAWN FLORIAN MAURER	01/08/2019			
SURFACE FINISH ✓		CHECKED JOHNATHON SELSTAD	01/15/2019	TITLE LEFT ROT. SLIDE MOUNT ASSM.		
DO NOT SCALE DRAWING		APPROVED DAVID HOLZ	01/15/2019			
BREAK ALL SHARP EDGES AND REMOVE BURRS				SIZE A	DWG NO. #113-000	REV. 1
THIRD ANGLE PROJECTION		MATERIAL	FINISH			
				SCALE 1:1	WEIGHT	SHEET 1 of 1

2

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SCALE 1:3

NOTES:
 1) Install item 2 after fastening items 4
 2) Use items 4 for fastening to parent assembly

Item No.	Quantity	Part number	Description
1	1	#120-001	HALO MAIN BODY - 3DPRINT
2	1	#120-002	HALO LID - 3DPRINT
3	1	#121-000	ELECTRONICS BAY ASSM.
4	9	#640-001	M2.5x0.45 6mm LONG STEEL FLAT HEAT SCREW 90 DEG CS
5	4	#690-001	M2.5x0.45 3.4mm LONG HEAT-SET INSERT FOR PLASTICS
6	7	#650-001	M2x8mm LONG THREAD-FORMING SCREWS FOR PLASTIC

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS ANGULAR = \pm ° SURFACE FINISH ✓ DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS THIRD ANGLE PROJECTION	DRAWN CHECKED APPROVED DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS THIRD ANGLE PROJECTION	NAME		DATE 01/09/2019 01/15/2019 01/15/2019	Project : North Star TITLE HALO ELECTRONICS MODULE ASSM.
		DRAWN FLORIAN MAURER 01/09/2019	CHECKED JOHNATHON SELSTAD 01/15/2019		
MATERIAL	FINISH	SIZE A	DWG NO. #120-000	REV. 1	SCALE 1:2
SCALE 1:2	WEIGHT	SHEET 1 of 1			

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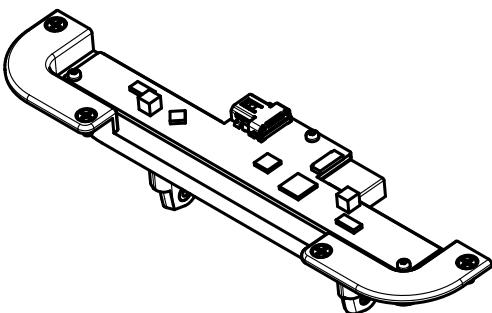
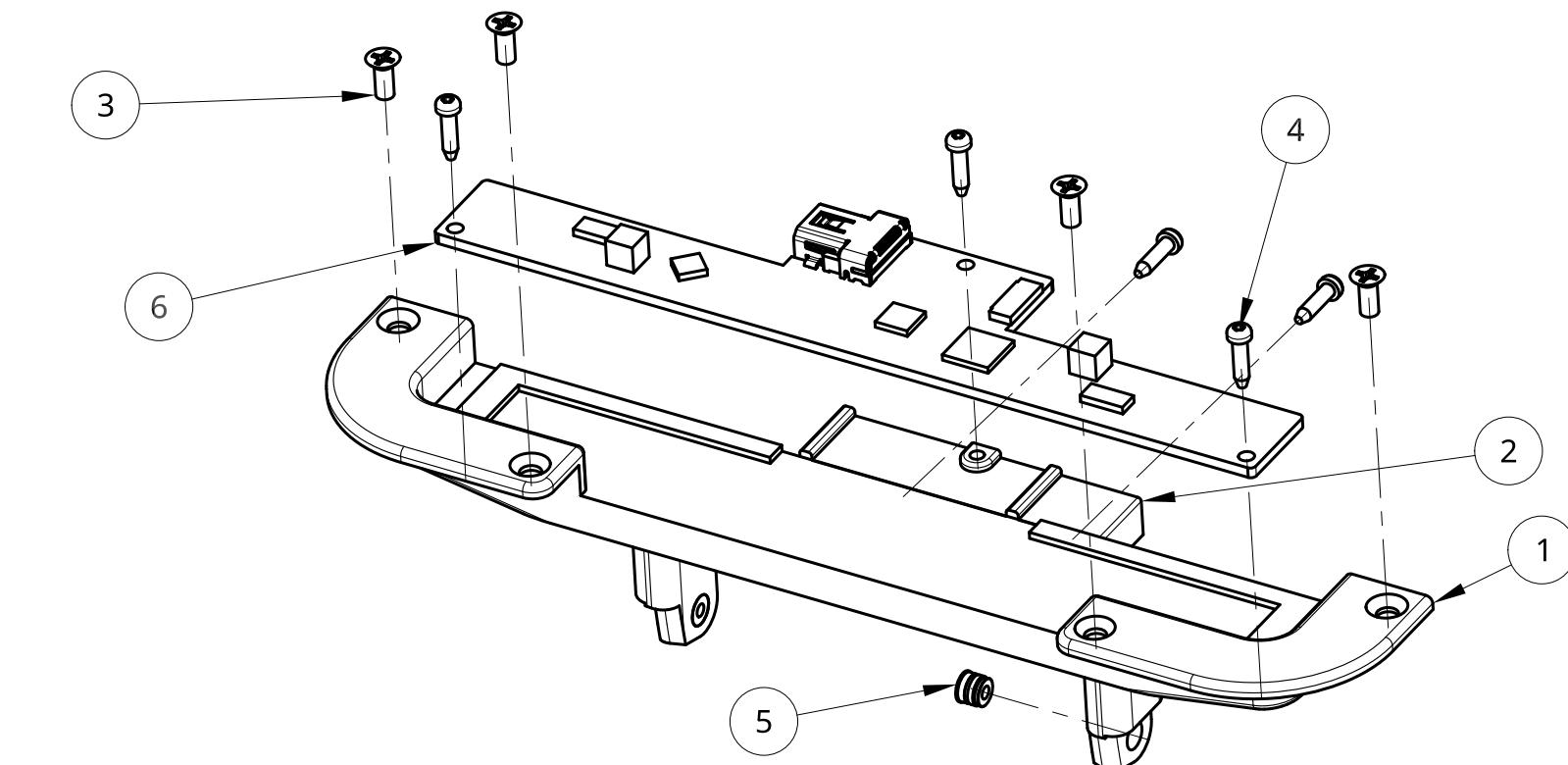
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SCALE 1:2

Item No.	Quantity	Part number	Description
1	1	#121-001	HALO ELECTRONICS HOLDER - 3DPRINT
2	1	#121-002	HALO ELECTRONICS DP PORT HOLDER - 3DPRINT
3	4	#640-001	M2.5x0.45 6mm LONG STEEL FLAT HEAT SCREW 90 DEG CS
4	5	#650-001	M2x8mm LONG THREAD-FORMING SCREWS FOR PLASTIC
5	2	#690-001	M2.5x0.45 3.4mm LONG HEAT-SET INSERT FOR PLASTICS
6	1	#800-001	DISPLAY DRIVER BOARD

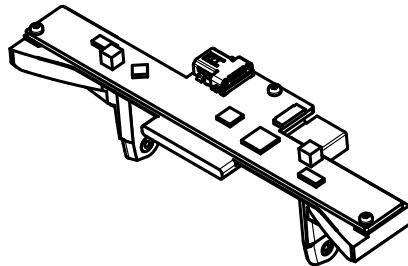
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS		NAME	DATE	Project: North Star		
ANGULAR = \pm °		DRAWN FLORIAN MAURER	01/09/2019			
SURFACE FINISH ✓		CHECKED JOHNATHON SELSTAD	1/15/2019	TITLE ELECTRONICS BAY ASSM		
DO NOT SCALE DRAWING		APPROVED DAVID HOLZ	01/15/2019			
BREAK ALL SHARP EDGES AND REMOVE BURRS				SIZE A	DWG NO. #121-000	REV. 1
THIRD ANGLE PROJECTION		MATERIAL	FINISH	SCALE 1:1	WEIGHT	SHEET 1 of 1

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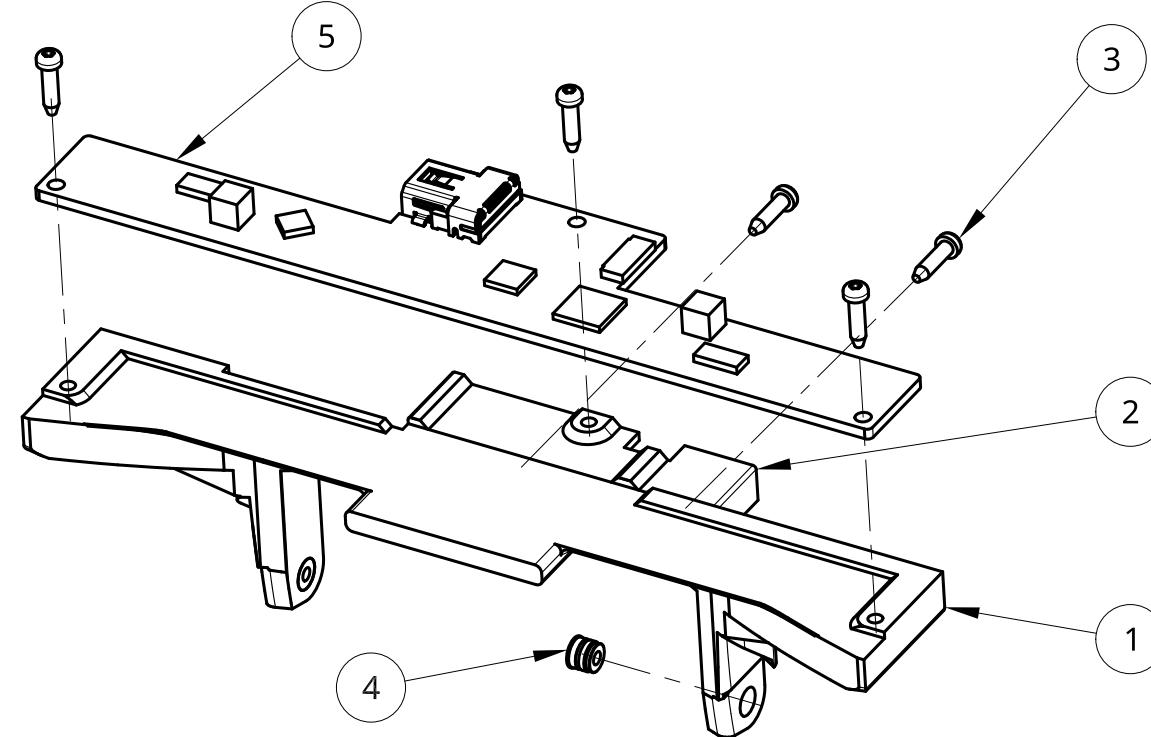
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SCALE 1:2



Item No.	Quantity	Part number	Description
1	1	#131-001	SIMPLIFIED DRIVER BOARD MOUNT - 3DPRINT
2	1	#131-002	SIMPLIFIED DP PORT HOLDER - 3DPRINT
3	5	#650-001	M2x8mm LONG THREAD-FORMING SCREWS FOR PLASTIC
4	2	#690-001	M2.5x0.45 3.4mm LONG HEAT-SET INSERT FOR PLASTICS
5	1	#800-001	DISPLAY DRIVER BOARD

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS		NAME	DATE	Project: North Star	
ANGULAR = \pm °		DRAWN FLORIAN MAURER	01/09/2019	TITLE	
SURFACE FINISH ✓		CHECKED JOHNATHON SELSTAD	1/15/2019		
DO NOT SCALE DRAWING		APPROVED DAVID HOLZ	01/15/2019	SIMPLIFIED ELECTRONICS BAY ASSM	
BREAK ALL SHARP EDGES AND REMOVE BURRS		LAST REVISION FLORIAN MAURER	03/08/2019		
THIRD ANGLE PROJECTION		MATERIAL	FINISH	SIZE A	DWG NO. #131-000 REV. 1
				SCALE 1:1	WEIGHT
				SHEET 1 of 1	

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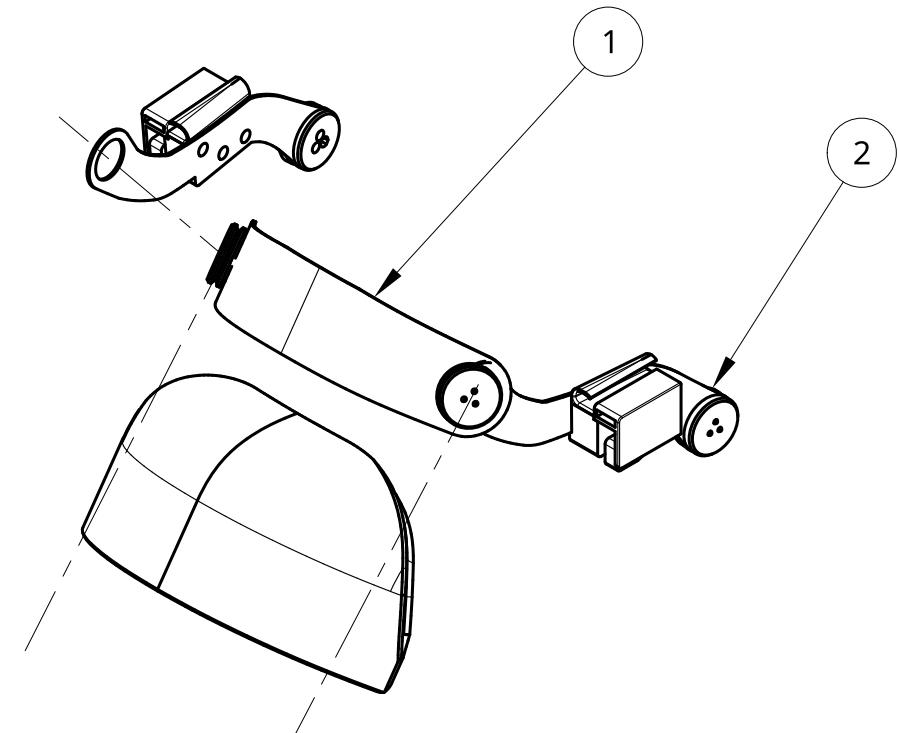
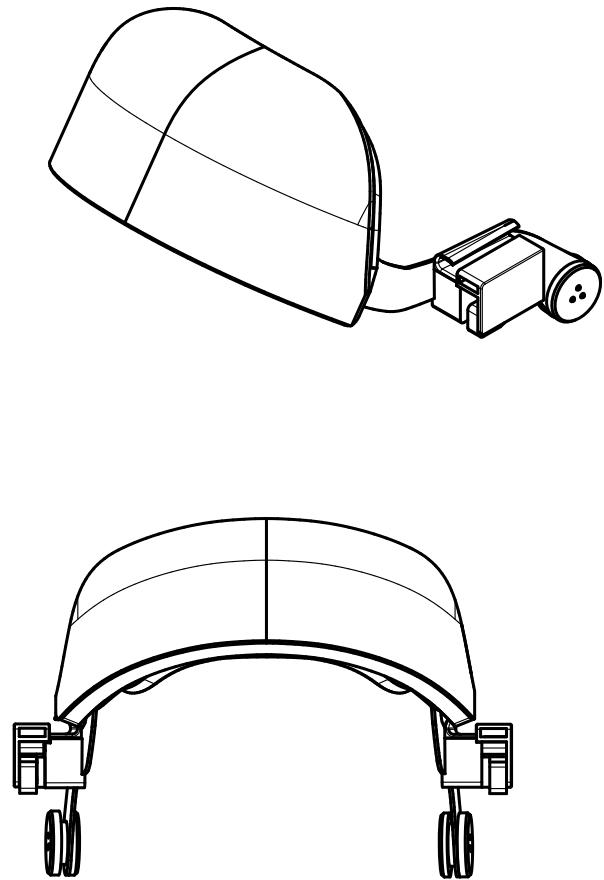
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Item No.	Quantity	Part number	Description
1	1	#210-000	PADDED FOREHEAD ASSM.
2	1	#230-000	LEFT BRAKE ASSM.
3	1	#240-000	RIGHT BRAKE ASSM.
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS ANGULAR = \pm ° SURFACE FINISH ✓ DO NOT SCALE DRAWING BREAK ALL SHARP EDGES AND REMOVE BURRS THIRD ANGLE PROJECTION	DRAWN CHECKED APPROVED 	NAME JOHNATHON SELSTAD DAVID HOLZ 	DATE 01/15/2019 01/15/2019 01/15/2019 Project: North Star TITLE HEADGEAR ASSM. SIZE A DWG NO. #200-000 REV. 1 SCALE 1:3 WEIGHT SHEET 1 of 1

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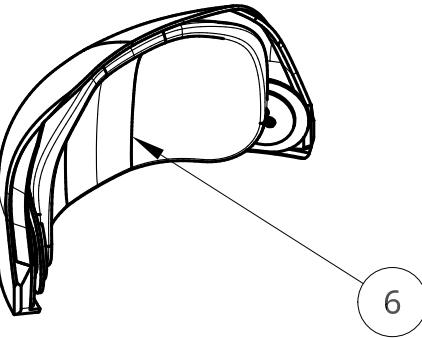
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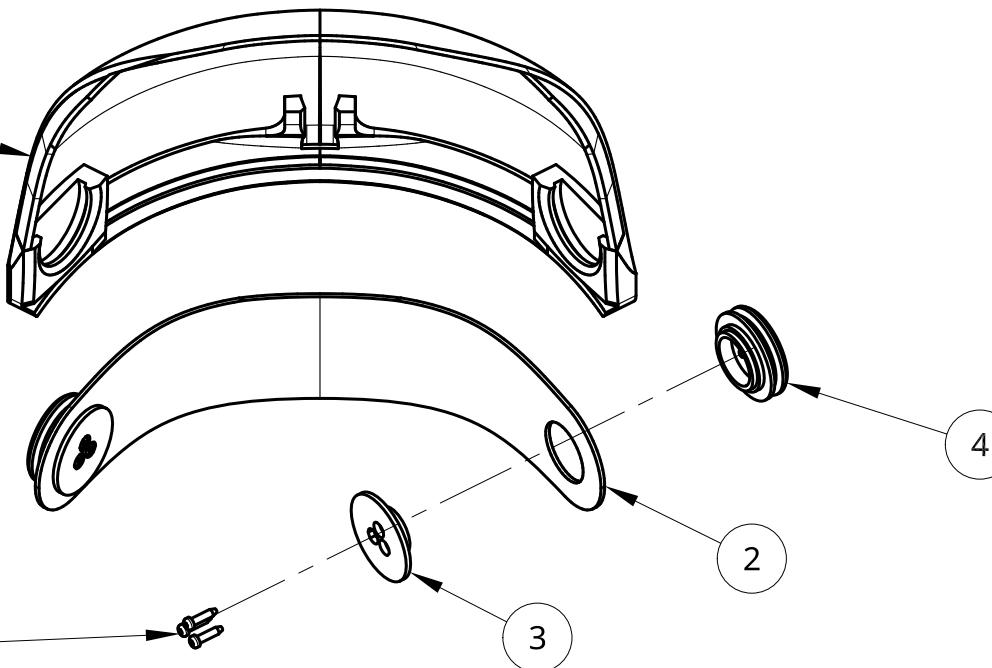
SCALE 1:3

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Item No.	Quantity	Part number	Description
1	1	#210-001	FOREHEAD MAIN STRUCTURE - 3DPRINT
2	1	#210-002	FOREHEAD HEADGEAR SPAN - 3DPRINT
3	2	#210-003	FOREHEAD HINGE CAP - 3DPRINT
4	2	#210-004	FOREHEAD HINGE BASE - 3DPRINT
5	6	#650-001	M2x8mm LONG THREAD-FORMING SCREWS FOR PLASTIC
6	1	#900-003	FOAM FOREHEAD PADDING

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN MILLIMETERS

ANGULAR = \pm °		NAME	DATE
SURFACE FINISH ✓	DRAWN	FLORIAN MAURER	01/09/2019
DO NOT SCALE DRAWING	CHECKED	JOHNATHON SELSTAD	01/15/2019
BREAK ALL SHARP EDGES AND REMOVE BURRS	APPROVED	DAVID HOLZ	01/15/2019
THIRD ANGLE PROJECTION	MATERIAL	FINISH	

Project: North Star

TITLE
PADDED FOREHEAD ASSM.

SIZE A	DWG NO. #210-000	REV. 1
SCALE 1:2	WEIGHT	SHEET 1 of 1

2

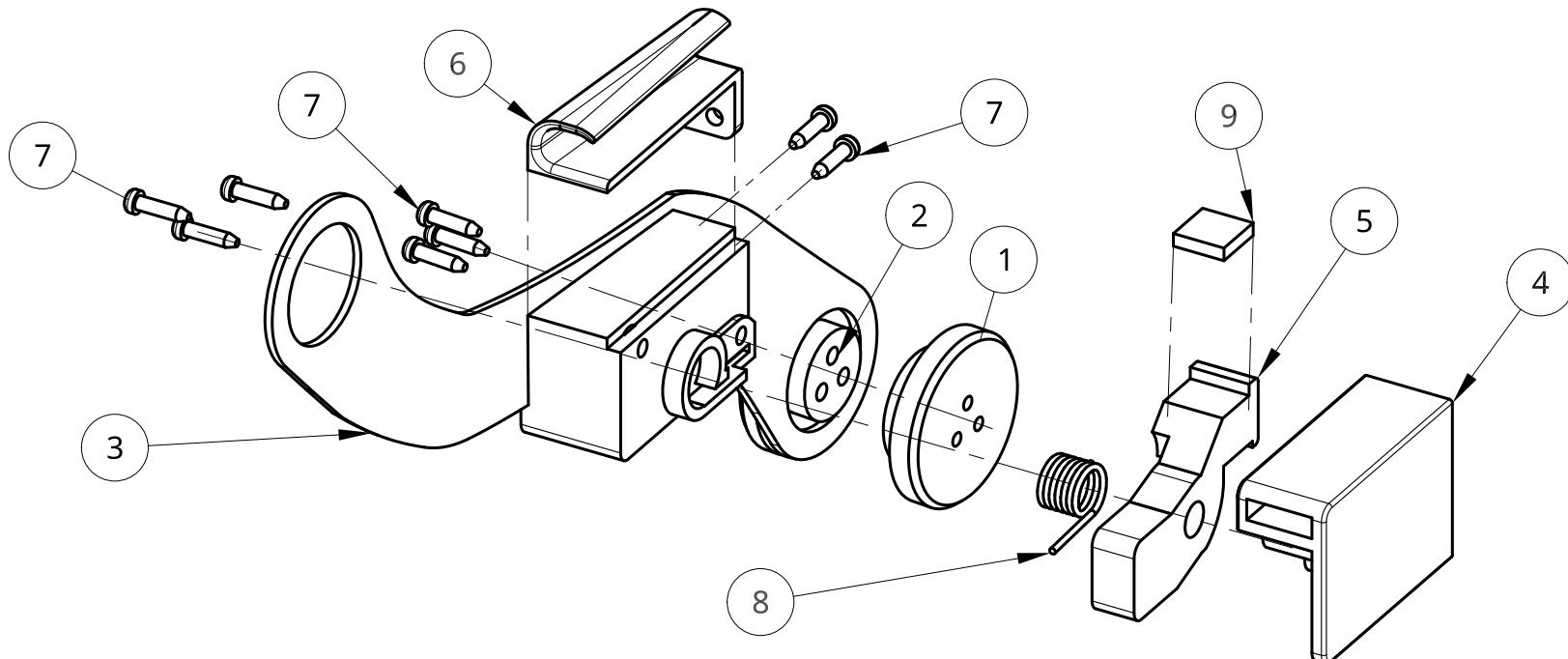
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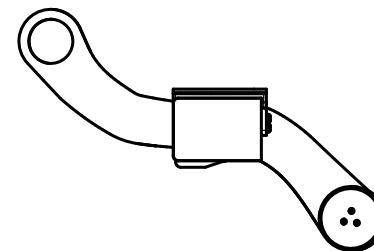
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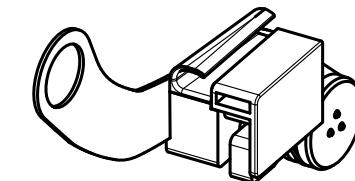
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Item No.	Quantity	Part number	Description
1	1	#220-001	REAR HINGE BASE 3DPRINT
2	1	#220-002	REAR HINGE CAP 3DPRINT
3	1	#230-001	LEFT SIDE MAIN SPAN WITH SLIDE BRAKE - 3DPRINT
4	1	#230-002	LEFT BRAKE HOUSING - 3DPRINT
5	1	#230-003	LEFT BRAKE BUTTON - 3DPRINT
6	1	#230-004	LEFT CABLE GUIDE - 3DPRINT
7	8	#650-001	M2x8mm LONG THREAD-FORMING SCREWS FOR PLASTIC
8	1	#630-001	0.304-in OD TORSION SPRING 180 DEG. L-HAND WOUND
9	1	#900-002	2mm THICK SELF-STICK ANTI-SKID RUBBER



SCALE 1:3



SCALE 1:2

NOTES:
1) Repeat for mirror assembly on right side

Project: North Star

LEFT BRAKE ASSM.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS		NAME	DATE	TITLE
	ANGULAR = \pm °	DRAWN	FLORIAN MAURER 01/09/2019	
SURFACE FINISH ✓	CHECKED	JOHNATHON SELSTAD 01/15/2019		LEFT BRAKE ASSM.
	APPROVED	DAVID HOLZ 01/15/2019		
DO NOT SCALE DRAWING				REV. 1
	BREAK ALL SHARP EDGES AND REMOVE BURRS			
THIRD ANGLE PROJECTION	MATERIAL	FINISH		
			SCALE 1:1	WEIGHT
				SHEET 1 of 1

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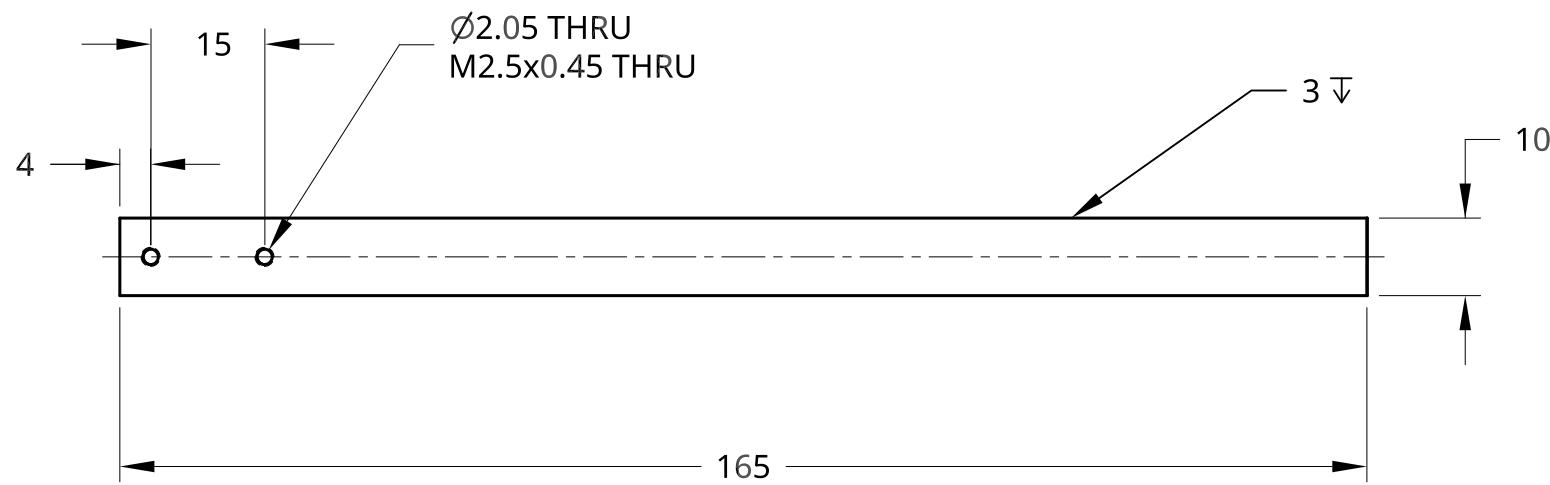
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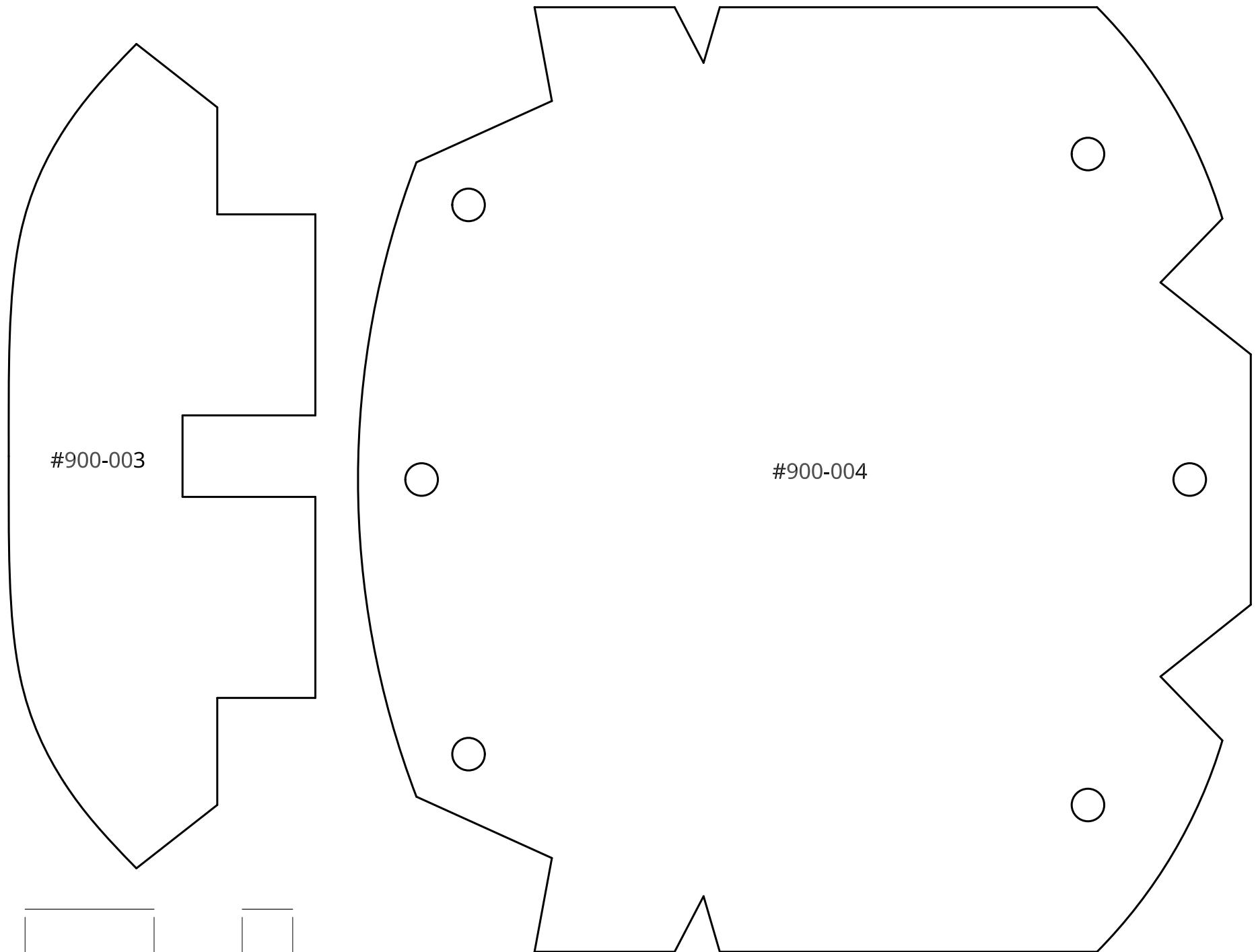
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UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN MILLIMETERS			NAME	DATE	Project: North Star		
ANGULAR = \pm °	SURFACE FINISH ✓	DRAWN	FLORIAN MAURER	01/15/2019	TITLE	3x10x165mm 6061 AL. BAR SLIDE	
		CHECKED	JOHNATHON SELSTAD	01/15/2019			
		APPROVED	DAVID HOLZ	01/15/2019			
DO NOT SCALE DRAWING							
BREAK ALL SHARP EDGES AND REMOVE BURRS							
THIRD ANGLE PROJECTION		MATERIAL	FINISH		SIZE A DWG NO. #900-005 REV. 1		
		Al 6061	NONE	SCALE 1:1	WEIGHT	SHEET 1 of 1	

2

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#900-003

#900-004

1in 10mm