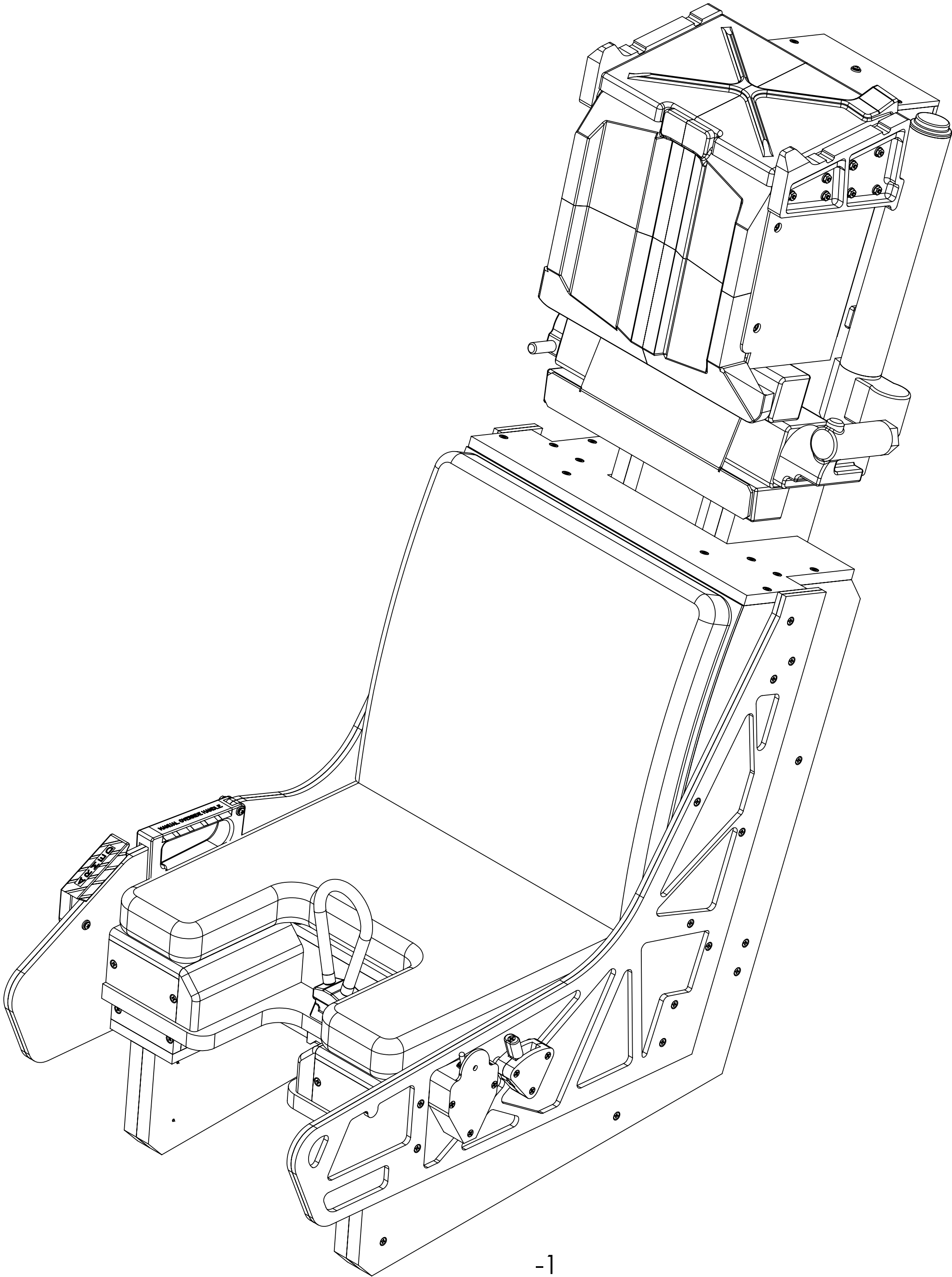


NOTES: UNLESS OTHERWISE SPECIFIED (UOS)


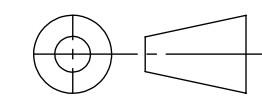

1.
- ALL ITEMS DEPICTED ON THIS DRAWING ARE CRITICAL TO THE FUNCTION OF THIS PART. ALL DIMENSIONS NOT DEPICTED ARE CONTAINED WITHIN THE FOLLOWING INTERMEDIATE FILES:  
-[APPLICABLE DASH]: OH3A2A-[APPLICABLE DASH].STL (PRINTED PARTS)  
-[APPLICABLE DASH]: OH3A2A-.25 MDF.DXF  
-[APPLICABLE DASH]: OH3A2A-.50 MDF.DXF  
-[APPLICABLE DASH]: OH3A2A-.75 MDF.DXF  
-[APPLICABLE DASH]: OH3A2A-.125 ACRYLIC.DXF  
-[APPLICABLE DASH]: OH3A2A-.125 ABS.DXF
2.
- SEAL/SAND/PRIME/PAINT ALL EXTERNAL SURFACES FS36231, DARK GULL GREY IAW FINISH SPECIFICATION, EXCEPT WHERE OTHERWISE NOTED. MASK ALL THREADS AND HOLES.
3.
- INSTALL WITH AN APPROPRIATE ADHESIVE.
4.
- MAKE SEAT PAN CUSHION, FN XX, FROM BLACK CANVAS/NYLON FABRIC WITH BLACK FAUX-LAMBSKIN UPPER SURFACES. FILL WITH 1.0" THK EVERFLEX V24 FOAM (TOP LAYER) (OR SIMILAR) AND EVERFLEX V54 MEDIUM-FIRM FOAM (BOTTOM LAYER) (OR SIMILAR). INSTALL TO SEAT WITH ADHESIVE BACKED VELCRO.
5.
- MAKE SEAT BACK CUSHION, FN XX, FROM BLACK CANVAS/NYLON FABRIC. FILL WITH 2.0" THK EVERFLEX V24 FOAM (OR SIMILAR). INSTALL TO SEAT WITH ADHESIVE BACKED VELCRO.

CAD GENERATED DOCUMENT. ALL CHANGES MAY ONLY BE MADE WITHIN NATIVE CAD FILE. REVISION HISTORY CONTAINED WITHIN PDM REPOSITORY.

REVISIONS			
ZONE	REV	DESCRIPTION	DATE
	-	INITIAL RELEASE	12/02/2019
	A	REVISED IAW GITHUB ISSUE #118	12/9/2019



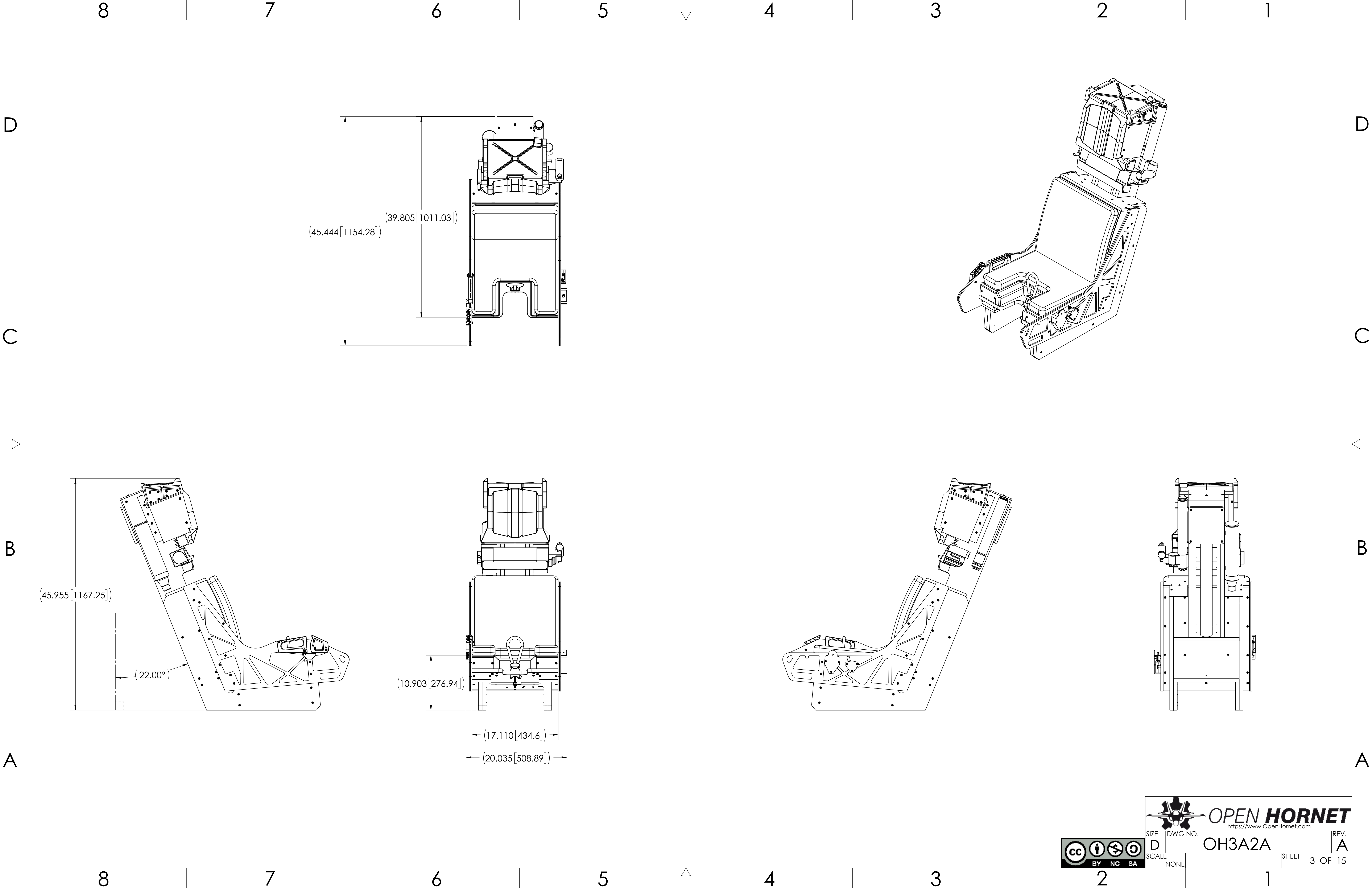
SEE PARTS LIST ON SHEET 2

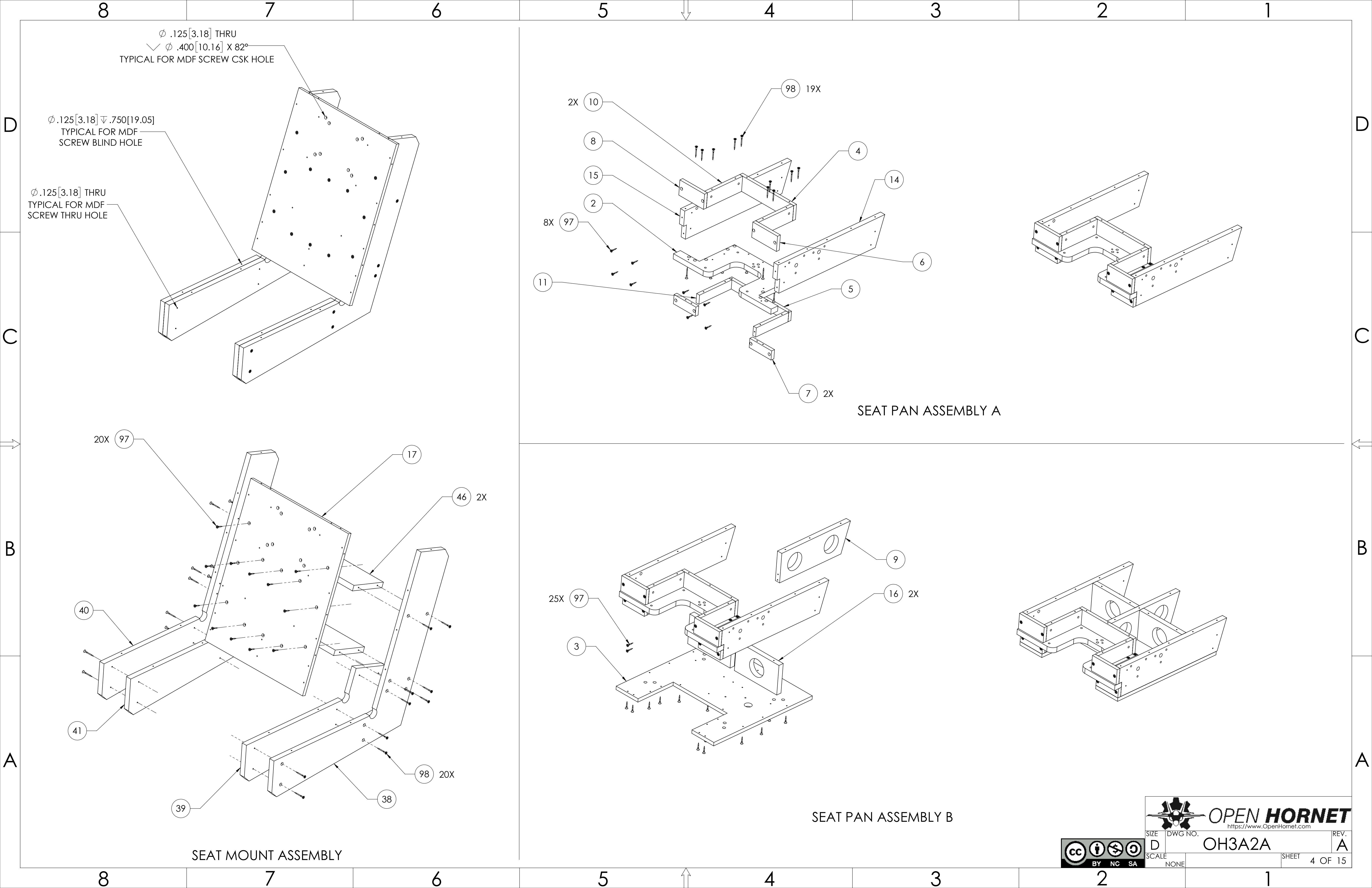
		THIRD ANGLE PROJECTION		UNLESS OTHERWISE SPECIFIED:		UOS INCH TOLERANCES ARE:		<div><b>OPEN HORNET</b> <small>https://www.OpenHornet.com</small></div> <div>TITLE</div> <div>ASSY, SJU-17 EJECTION SEAT</div>					
				DIMENSIONS ARE IN INCHES.		DECIMALS: ANGLES: .X ± .1      MACHINED ±0°30' .XX ± .03    LOCATING ±0°30' .XXX ± .010 FORMED ±2° CHAMFERS ±5°							
		APPROVALS      DATE		DUAL DIMENSIONS ARE IN MILLIMETERS AND ENCLOSED IN SQUARE BRACKETS.		HOLE DIAMETERS: 0 - .0140:    +.0020 / -.0005 .014 - .125:    +.004 / -.001 .126 - .250:    +.005 / -.001 .251 - .500:    +.006 / -.001 .501 - .750:    +.008 / -.001 .751 - 1.000:    +.010 / -.001 1.001 - 2.000:    +.012 / -.001 2.000+:        +.015 / -.005							
		DRAWN J. STEENSEN		DATE 02/12/2019		INTERPRET DRAWING IAW ASME Y14.100-2013.							
		MATERIAL		SEE PARTS LIST		INTERPRET DIM AND TOL IAW ASME Y14.5-2009.							
		FINISH		SEE FINISH SPEC		REMOVE ALL BURRS AND SHARP EDGES TO .1 MAX.							
OH0A		TOP LEVEL				DIMENSIONS APPLY BEFORE FINISH.							
NEXT ASSY		USED ON											
APPLICATION													
								SIZE		DWG NO.		REV.	
								D		OH3A2A		A	
								SCALE				SHEET	
								NONE				1 OF 15	



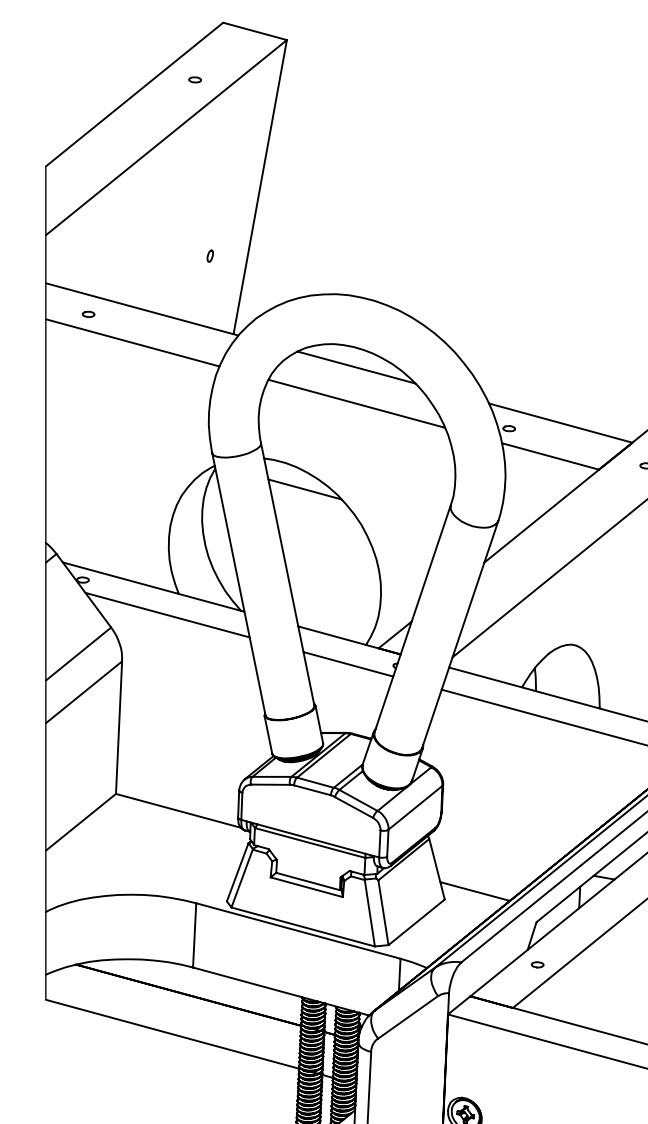
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	PARTS LIST			PARTS LIST			PARTS LIST			PARTS LIST			PARTS LIST			PARTS LIST			PARTS LIST					
	QTY.	PART NUMBER	DESCRIPTION	MATERIAL	MFR	TYPE	ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	MATERIAL	MFR	TYPE	ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	MATERIAL	MFR	TYPE	ITEM NO.			
	1	OH3A2A-10	SEAT PAN TOP	.50 MDF	OPENHORN	CNC	1	1	OH3A2A-80	LOWER HEADREST BLOCK B	PETG	OPENHORN	PRINT	71	1	OH3A2A-80	LOWER HEADREST BLOCK B	PETG	OPENHORN	PRINT	71			
	1	OH3A2A-11	SEAT PAN BASE	.75 MDF	OPENHORN	CNC	2	1	OH3A2A-81	LOWER HEADREST BLOCK C	PETG	OPENHORN	PRINT	72	1	OH3A2A-81	LOWER HEADREST BLOCK C	PETG	OPENHORN	PRINT	72			
	1	OH3A2A-12	LOWER SEAT PAN BASE	.50 MDF	OPENHORN	CNC	3	1	OH3A2A-82	LOWER HEADREST BLOCK D	PETG	OPENHORN	PRINT	73	1	OH3A2A-82	LOWER HEADREST BLOCK D	PETG	OPENHORN	PRINT	73			
	1	OH3A2A-13	SEAT PAN FRONT A	.50 MDF	OPENHORN	CNC	4	1	OH3A2A-83	LOWER HEADREST SKIN	.125 ABS	OPENHORN	CNC	74	1	OH3A2A-83	LOWER HEADREST SKIN	.125 ABS	OPENHORN	CNC	74			
	1	OH3A2A-14	SEAT PAN FRONT B	.50 MDF	OPENHORN	CNC	5	1	OH3A2A-84	SEAT HARNESS REEL	PETG	OPENHORN	PRINT	75	1	OH3A2A-84	SEAT HARNESS REEL	PETG	OPENHORN	PRINT	75			
	1	OH3A2A-15	SEAT PAN FRONT C	.50 MDF	OPENHORN	CNC	6	1	OH3A2A-85	SEAT SEAWARS PROBE	PETG	OPENHORN	PRINT	76	1	OH3A2A-85	SEAT SEAWARS PROBE	PETG	OPENHORN	PRINT	76			
	2	OH3A2A-16	SEAT PAN FRONT D	.50 MDF	OPENHORN	CNC	7	1	OH3A2A-86	EJECTION HANDLE CAP	PETG	OPENHORN	PRINT	77	1	OH3A2A-86	EJECTION HANDLE CAP	PETG	OPENHORN	PRINT	77			
	1	OH3A2A-17	SEAT PAN FRONT E	.50 MDF	OPENHORN	CNC	8	1	OH3A2A-87	EJECTION HANDLE SWITCH ACTUATOR	PETG	OPENHORN	PRINT	78	1	OH3A2A-87	EJECTION HANDLE SWITCH ACTUATOR	PETG	OPENHORN	PRINT	78			
	1	OH3A2A-18	CENTER SEAT PAN INTERNAL SUPPORT	.75 MDF	OPENHORN	CNC	9	1	OH3A2A-88	SEAT ARMING LEVER	PETG	OPENHORN	PRINT	79	1	OH3A2A-88	SEAT ARMING LEVER	PETG	OPENHORN	PRINT	79			
	2	OH3A2A-19	SEAT PAN SUPPORT B	.50 MDF	OPENHORN	CNC	10	1	OH3A2A-89	EJECTION HANDLE CAP SUPPORT	PETG	OPENHORN	PRINT	80	1	OH3A2A-89	EJECTION HANDLE CAP SUPPORT	PETG	OPENHORN	PRINT	80			
	2	OH3A2A-20	LOWER SEAT PAN SUPPORT C	.50 MDF	OPENHORN	CNC	11	1	OH3A2A-90	UPPER EJECTION HANDLE BASE	PETG	OPENHORN	PRINT	81	1	OH3A2A-90	UPPER EJECTION HANDLE BASE	PETG	OPENHORN	PRINT	81			
	1	OH3A2A-21	SEAT PAN DETAIL A	PETG	OPENHORN	PRINT	12	1	OH3A2A-91	LOWER EJECTION HANDLE BASE	PETG	OPENHORN	PRINT	82	1	OH3A2A-91	LOWER EJECTION HANDLE BASE	PETG	OPENHORN	PRINT	82			
	1	OH3A2A-22	SEAT PAN DETAIL C	PETG	OPENHORN	PRINT	13	1	OH3A2A-92	EMERGENCY RESTRAINT RELEASE HANDLE	PETG	OPENHORN	PRINT	83	1	OH3A2A-92	EMERGENCY RESTRAINT RELEASE HANDLE	PETG	OPENHORN	PRINT	83			
	1	OH3A2A-23	LH SEAT PAN OUTBOARD SUPPORT	.75 MDF	OPENHORN	CNC	14	1	OH3A2A-93	SEAT RH CONTROL SWITCH MOUNT	PETG	OPENHORN	PRINT	84	1	OH3A2A-93	SEAT RH CONTROL SWITCH MOUNT	PETG	OPENHORN	PRINT	84			
	1	OH3A2A-24	RH SEAT PAN OUTBOARD SUPPORT	.75 MDF	OPENHORN	CNC	15	1	OH3A2A-94	SEAT HEIGHT ACTUATOR SWITCH HOUSING	PETG	OPENHORN	PRINT	85	1	OH3A2A-94	SEAT HEIGHT ACTUATOR SWITCH HOUSING	PETG	OPENHORN	PRINT	85			
	2	OH3A2A-25	HORIZONTAL SEAT PAN SUPPORT	.75 MDF	OPENHORN	CNC	16	1	OH3A2A-95	OUTER SHOULDER HARNESS CONTROL LEVER HOUSING	PETG	OPENHORN	PRINT	86	1	OH3A2A-95	OUTER SHOULDER HARNESS CONTROL LEVER HOUSING	PETG	OPENHORN	PRINT	86			
	1	OH3A2A-26	AFT SEAT BACK SUPPORT	.50 MDF	OPENHORN	CNC	17	1	OH3A2A-96	INNER SHOULDER HARNESS CONTROL LEVER HOUSING	PETG	OPENHORN	PRINT	87	1	OH3A2A-96	INNER SHOULDER HARNESS CONTROL LEVER HOUSING	PETG	OPENHORN	PRINT	87			
	2	OH3A2A-27	SEAT BACK VERTICAL SUPPORT, A	.75 MDF	OPENHORN	CNC	18	1	OH3A2A-97	SHOULDER HARNESS CONTROL LEVER	PETG	OPENHORN	PRINT	88	1	OH3A2A-97	SHOULDER HARNESS CONTROL LEVER	PETG	OPENHORN	PRINT	88			
	2	OH3A2A-28	SEAT BACK VERTICAL SUPPORT, B	.75 MDF	OPENHORN	CNC	19	1	OH3A2A-98	SHOULDER HARNESS CONTROL LEVER HANDLE	PETG	OPENHORN	PRINT	89	1	OH3A2A-98	SHOULDER HARNESS CONTROL LEVER HANDLE	PETG	OPENHORN	PRINT	89			
	1	OH3A2A-29	SEAT BACK SKIN	.125 ABS	OPENHORN	CNC	20	1	OH3A2A-99	SEAT PAN ACCESS PANEL PLUG	.50 MDF	OPENHORN	CNC	90	1	OH3A2A-99	SEAT PAN ACCESS PANEL PLUG	.50 MDF	OPENHORN	CNC	90			
	1	OH3A2A-30	SEAT BACK TOP	.50 MDF	OPENHORN	CNC	21	1	OH3A2A-100	SEAT PAN ACCESS PANEL SUPPORT	.50 MDF	OPENHORN	CNC	91	1	OH3A2A-100	SEAT PAN ACCESS PANEL SUPPORT	.50 MDF	OPENHORN	CNC	91			
	1	OH3A2A-31	LH SEAT BUCKET EXTERIOR	.25 MDF	OPENHORN	CNC	22	1	OH3A2A-101	SEAT PAN CUSHION	ASSY	OPENHORN	SEWN	92	1	OH3A2A-101	SEAT PAN CUSHION	ASSY	OPENHORN	SEWN	92			
	1	OH3A2A-32	LH SEAT BUCKET EXTERIOR DETAIL	.25 MDF	OPENHORN	CNC	23	1	OH3A2A-102	SEAT BACK CUSHION	ASSY	OPENHORN	SEWN	93	1	OH3A2A-102	SEAT BACK CUSHION	ASSY	OPENHORN	SEWN	93			
	1	OH3A2A-33	RH SEAT BUCKET EXTERIOR	.25 MDF	OPENHORN	CNC	24	1	ABSIS NANO IO	ABSIS NANO IO PCB	PCB	OPENHORN	PCB	94	1	ABSIS NANO IO	ABSIS NANO IO PCB	PCB	OPENHORN	PCB	94			
1	OH3A2A-34	RH SEAT BUCKET EXTERIOR DETAIL	.25 MDF	OPENHORN	CNC	25	1	100SP4T8B13M1QEH	SWITCH, TOGGLE, SPDT, 18mm BAT	N/A	E-SWITCH	COTS	95	1	100SP4T8B13M1QEH	SWITCH, TOGGLE, SPDT, 18mm BAT	N/A	E-SWITCH	COTS	95				
C	1	OH3A2A-35	DROGUE DEPLOYMENT CATAPULT BODY	2.5 NOMINAL ID PVC, SCH 40	OPENHORN	CUT	26	5	7658K170	SWITCH, SUBMINIATURE, SNAP-ACTING, PLUNGER ACTUATOR, SPST-NO	PLASTIC	MCMaster-CARR	COTS	96	152	90252A112	FHS, 82 DEG, #8X1.0, BLK, STEEL, FOR MDF	STEEL	MCMaster-CARR	COTS	97			
	1	OH3A2A-36	DROGUE DEPLOYMENT CATAPULT UPPER CAP	PETG	OPENHORN	PRINT	27	69	90252A115	FHS, 82 DEG, #8X1.5, BLK, STEEL, FOR MDF	STEEL	MCMaster-CARR	COTS	98	8	90252A118	FHS, 82 DEG, #8X2.0, BLK, STEEL, FOR MDF	STEEL	MCMaster-CARR	COTS	99			
	1	OH3A2A-37	DROGUE DEPLOYMENT CATAPULT LOWER CAP	PETG	OPENHORN	PRINT	28	14	90275A196	FHS, 82 DEG, 8-32 X .625, SLOTTED HEAD, STEEL	STEEL	MCMaster-CARR	COTS	100	2	90471A223	FHS, 100 DEG, 6-32 X .750, STEEL	STEEL	MCMaster-CARR	COTS	101			
	2	OH3A2A-38	OUTER DROGUE DEPLOYMENT CATAPULT MOUNT	PETG	OPENHORN	PRINT	29	1	90471A436	FHS, 100 DEG, 8-32 X 1.25 L, STEEL	STEEL	MCMaster-CARR	COTS	102	6	93085A854	FHS, 100 DEG, 8-32 X 2.00, 18-8	18-8	MCMaster-CARR	COTS	103			
	2	OH3A2A-39	INNER DROGUE DEPLOYMENT CATAPULT MOUNT	PETG	OPENHORN	PRINT	30	8	91772A064	PHS, 0-80 X .4375, 18-8	18-8	MCMaster-CARR	COTS	104	2	90272A079	PHS, 2-56 X .375, STEEL, ZINC	STEEL	MCMaster-CARR	COTS	105			
	1	OH3A2A-40	PARACHUTE DEPLOYMENT ROCKET BODY	1.5 NOMINAL ID PVC, SCH 40	OPENHORN	CUT	31	2	91249A156	PHS, 6-32 X .8750, 18-8, BLACK-OXIDE	18-8	MCMaster-CARR	COTS	106	22	91249A197	PHS, 8-32 X .750, 18-8, BLACK OXIDE	18-8	MCMaster-CARR	COTS	107			
	1	OH3A2A-41	PARACHUTE DEPLOYMENT ROCKET LOWER BODY	PETG	OPENHORN	PRINT	32	36	90272A201	PHS, 8-32 X 1.25, STEEL	STEEL	MCMaster-CARR	COTS	108	6	90272A203	PHS, 8-32 X 1.50, STEEL, ZINC	STEEL	MCMaster-CARR	COTS	109			
	1	OH3A2A-42	PARACHUTE DEPLOYMENT ROCKET UPPER CAP	PETG	OPENHORN	PRINT	33	2	91251A146	SHCS, 6-32 X .375, STEEL, BLACK-OXIDE	STEEL	MCMaster-CARR	COTS	110	2	92141A008	WASHER, #6, 18-8	18-8	MCMaster-CARR	COTS	111			
	2	OH3A2A-43	OUTER PARACHUTE DEPLOYMENT ROCKET CLAMP	PETG	OPENHORN	PRINT	34	72	98023A113	WASHER, #8, .188 ID X .438 OD, STEEL, ZINC YELLOW-CHROMATE	STEEL	MCMaster-CARR	COTS	112	4	97416A113	WASHER, #8, .188 ID X .438 OD, STEEL, BLACK OXIDE	STEEL	MCMaster-CARR	COTS	113			
	2	OH3A2A-44	INNER PARACHUTE DEPLOYMENT ROCKET CLAMP	PETG	OPENHORN	PRINT	35	6	90126A029	WASHER, .25 SCREW, .281 ID X .625 OD, STEEL, ZINC	STEEL	MCMaster-CARR	COTS	114	23	90480A009	NUT, 8-32, STEEL, ZINC	STEEL	MCMaster-CARR	COTS	115			
	1	OH3A2A-45	SEAT CATAPULT	2.0 NOMINAL ID PVC, SCH 40	OPENHORN	CUT	36	2	91078A029	NUT, THIN, .25-20, STEEL, ZINC	STEEL	MCMaster-CARR	COTS	116	8	93365A102	INSERT, 0-80, HEAT SET, BRASS	BRASS	MCMaster-CARR	COTS	117			
	2	OH3A2A-46	SEAT CATAPULT MOUNT	PETG	OPENHORN	PRINT	37	2	93365A110	INSERT, 2-56, HEAT SET, BRASS	BRASS	MCMaster-CARR	COTS	118	2	93365A130	INSERT, 6-32, HEAT SET, BRASS	BRASS	MCMaster-CARR	COTS	119			
	1	OH3A2A-47	LEFT OUTBOARD SEAT MOUNT	.75 MDF	OPENHORN	CNC	38	58	93365A140	INSERT, 8-32, HEAT SET, BRASS	BRASS	MCMaster-CARR	COTS	120	6	93365A160	INSERT, .25-20, HEAT SET, BRASS	BRASS	MCMaster-CARR	COTS	121			
	1	OH3A2A-48	LEFT INBOARD SEAT MOUNT	.75 MDF	OPENHORN	CNC	39	6	92105A660	INSERT, 8-32 X .3906 INSTALLED L, FOR SOFTWOOD	ZINC ALLOY	MCMaster-CARR	COTS	122	4	3914T5	STOP, WIRE ROPE, .1875 WIRE DIA	ALUMINUM	MCMaster-CARR	COTS	123			
	1	OH3A2A-49	RIGHT OUTBOARD SEAT MOUNT	.75 MDF	OPENHORN	CNC	40	1	8912T54	ROPE, WIRE, COATED, .1875 ROPE DIA, .3125 COATING DIAMETER, BLACK	STEEL	MCMaster-CARR	COTS	124	1	5648K33	TUBING, .500OD X .3281 ID, 95A DUROMETER, POLYURETHANE, YELLOW	PUR	MCMaster-CARR	COTS	125			
	1	OH3A2A-50	RIGHT INBOARD SEAT MOUNT	.75 MDF	OPENHORN	CNC	41	1	PTN0.50SS	SLEEING, BRAIDED, SAFETY STRIPE (YELLOW-BLACK), .500 DIA, PET	PET	TECHFLEX	COTS	126	2	7856K48	HEAT-SHRINK, .75ID SHRINK TO .375ID, POLYOLEFIN, YELLOW	PP	MCMaster-CARR	COTS	127			
1	OH3A2A-51	VERTICAL MOUNTING RAIL A	.75 MDF	OPENHORN	CNC	42	2	9657K332	SPRING, COMPRESSION, 1.25 L X .360 OD X .296 ID, 6.7 LB MAX LOAD, 6.8 LB/IN	STEEL	MCMaster-CARR	COTS	128	2	95412A560	ROD, .25-20 X 4.50 L, 18-8	18-8	MCMaster-CARR	COTS	129				
1	OH3A2A-52	VERTICAL MOUNTING RAIL B	.75 MDF	OPENHORN	CNC	43	1	5901A122	PLUNGER, SPRING, 8-32X .445 L, .025 X .094 NOSE, 1.3LBS FORCE, STEEL BLACK	STEEL	MCMaster-CARR	COTS	130	2	5901A142	PLUNGER, SPRING, .25-20 X .625 L, .125 X .035 NOSE, 7LBS FORCE, STEEL, BLACK	STEEL	MCMaster-CARR	COTS	131				
1	OH3A2A-53	VERTICAL MOUNTING RAIL C	.75 MDF	OPENHORN	CNC	44	2	91780A337	STANDOFF, FEMALE, 6-32 X .25 HEX X 1.50 L, 6061-T6	6061-T6	MCMaster-CARR	COTS	132											
B	1	OH3A2A-54	VERTICAL MOUNTING RAIL D	.75 MDF	OPENHORN	CNC	45																	
	2	OH3A2A-55	LOWER HORIZONTAL MOUNTING RAIL	.75 MDF	OPENHORN	CNC	46																	
	1	OH3A2A-56	DROGUE BRIDLE CONTAINER	.50 MDF	OPENHORN	CNC	47																	
	1	OH3A2A-57	UPPER RAIL CAP	.25 MDF	OPENHORN	CNC	48																	
	1	OH3A2A-58	AFT RAIL CAP	.25 MDF	OPENHORN	CNC	49																	
	1	OH3A2A-59	HEADREST, A	PETG	OPENHORN	PRINT	50																	
	1	OH3A2A-60	HEADREST, B	PETG	OPENHORN	PRINT	51																	
	1	OH3A2A-61	HEADREST, C	PETG	OPENHORN	PRINT	52																	
	1	OH3A2A-62	HEADREST, D	PETG	OPENHORN	PRINT	53																	
	1	OH3A2																						



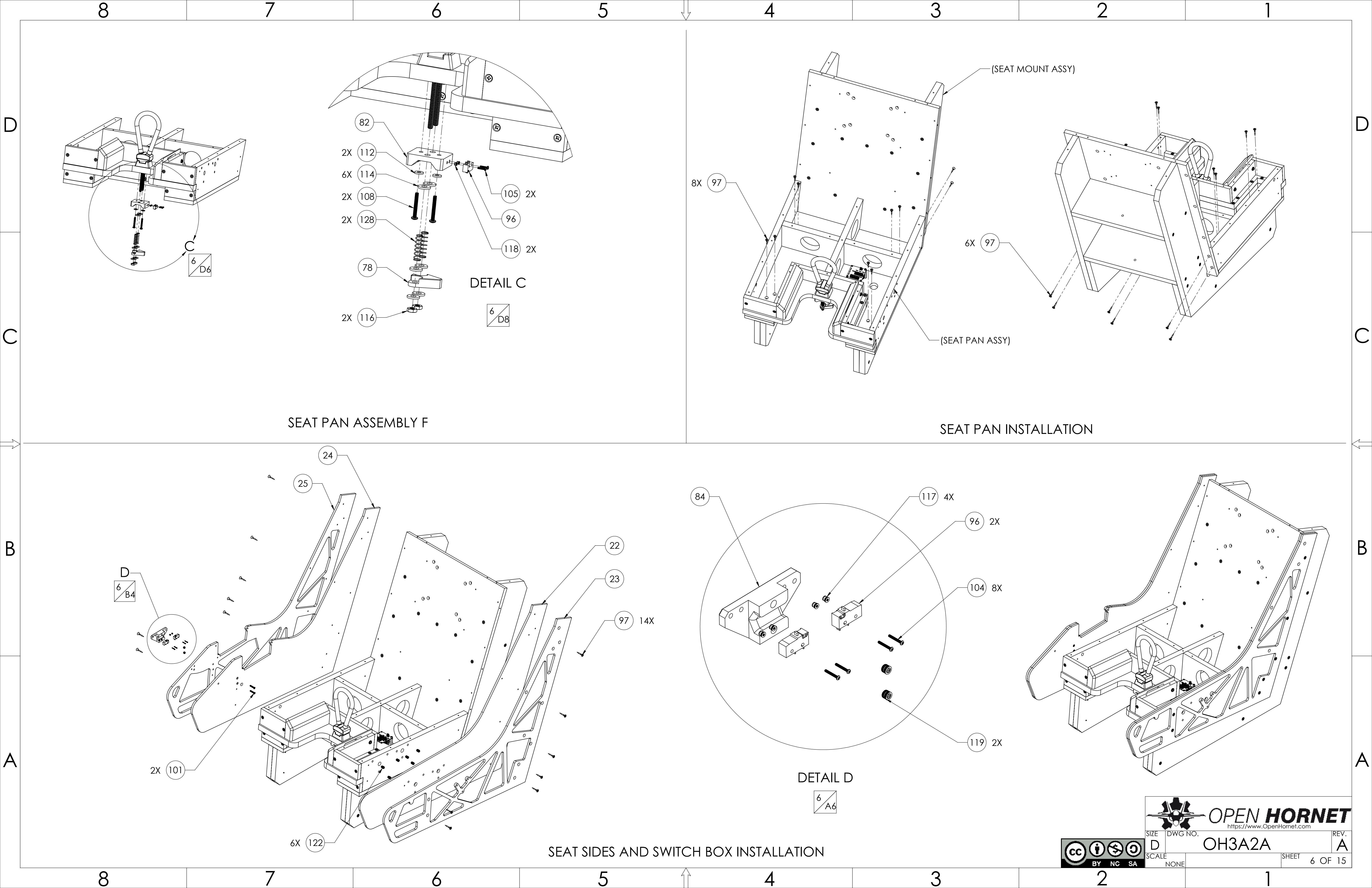




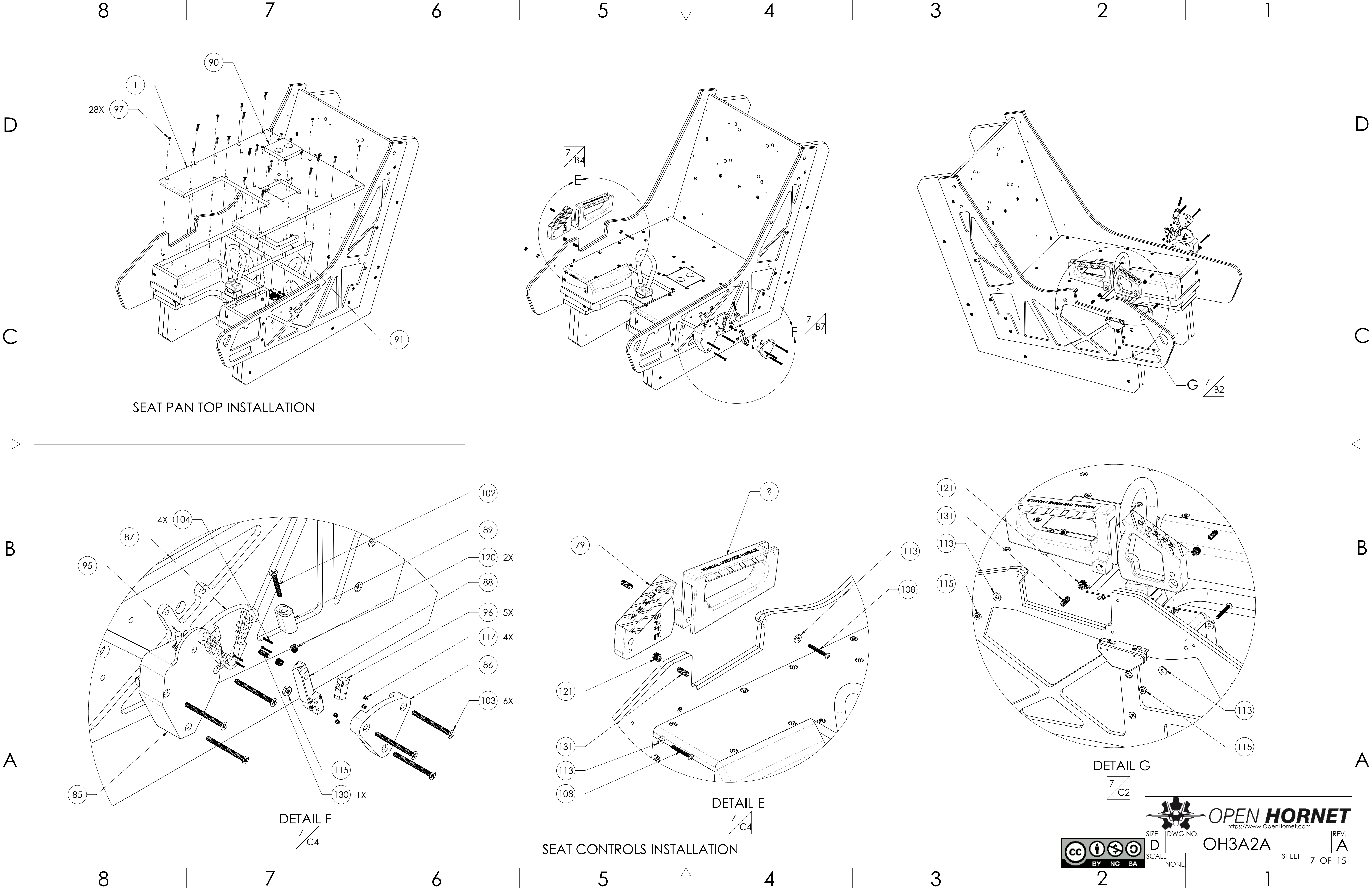












SEAT PAN TOP INSTALLATION

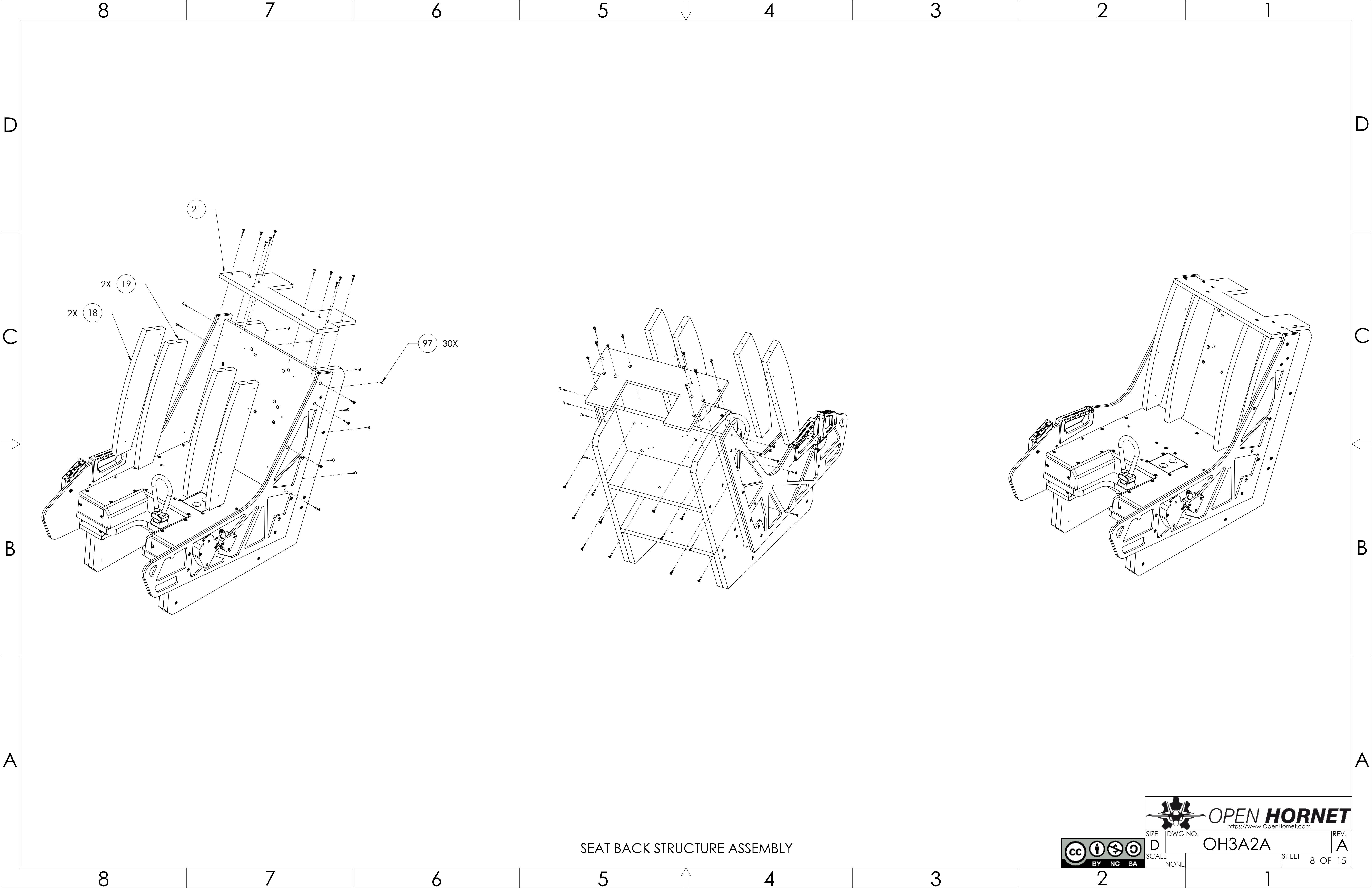
DETAIL F

DETAIL E

DETAIL G

SEAT CONTROLS INSTALLATION



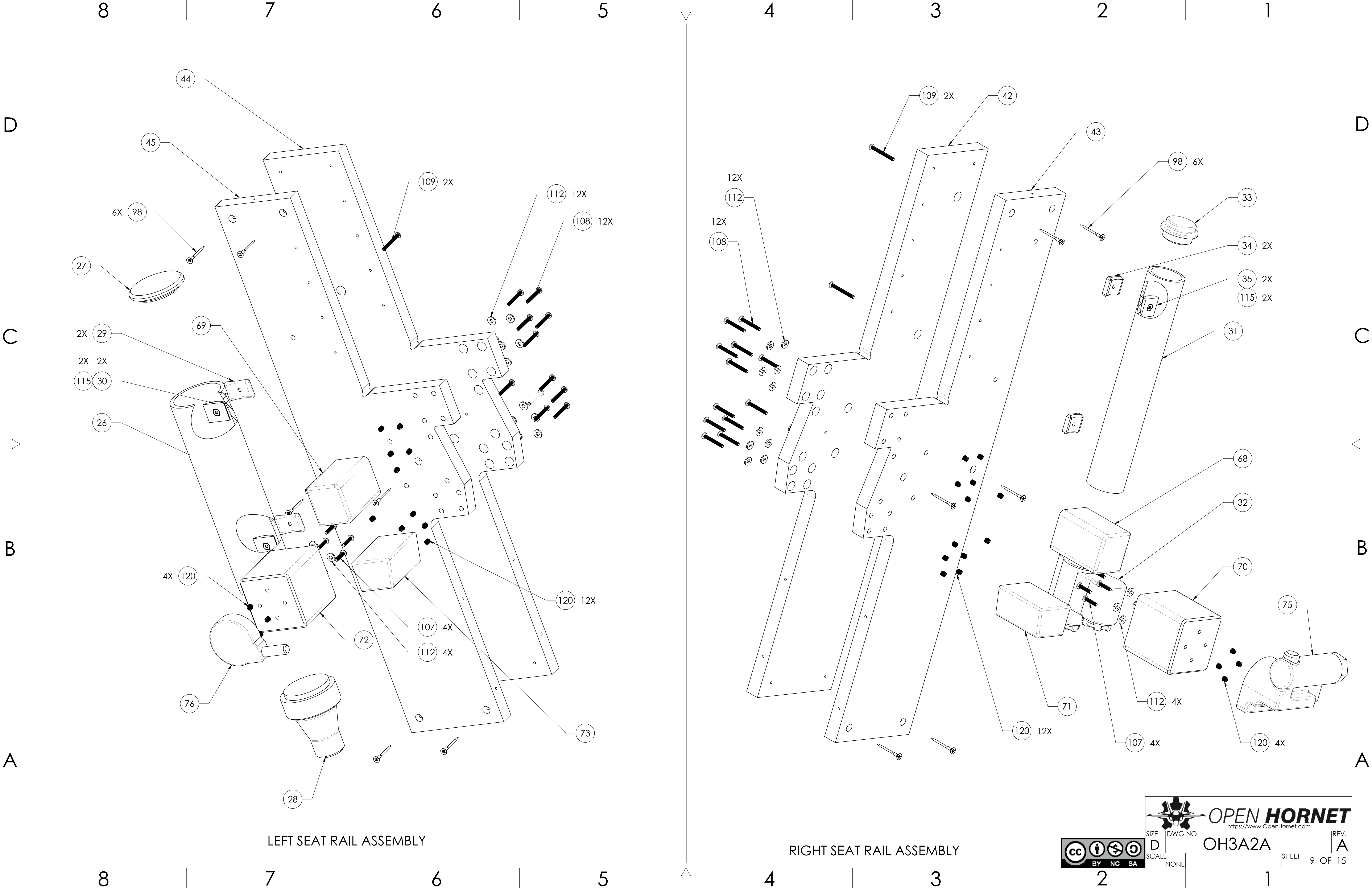


SEAT BACK STRUCTURE ASSEMBLY

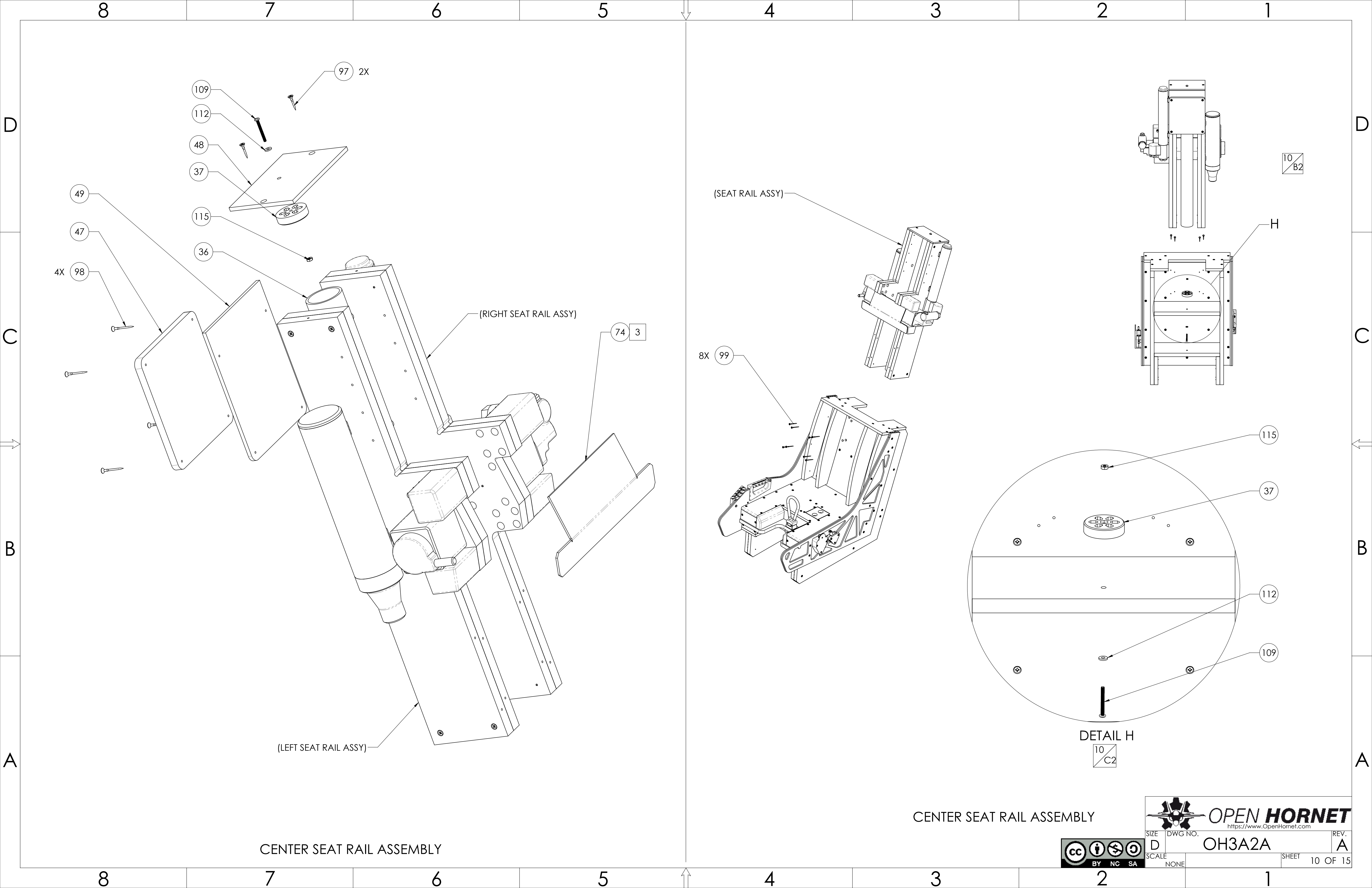


SIZE D	DWG NO. OH3A2A	REV. A
SCALE NONE	SHEET 8 OF 15	









CENTER SEAT RAIL ASSEMBLY

CENTER SEAT RAIL ASSEMBLY

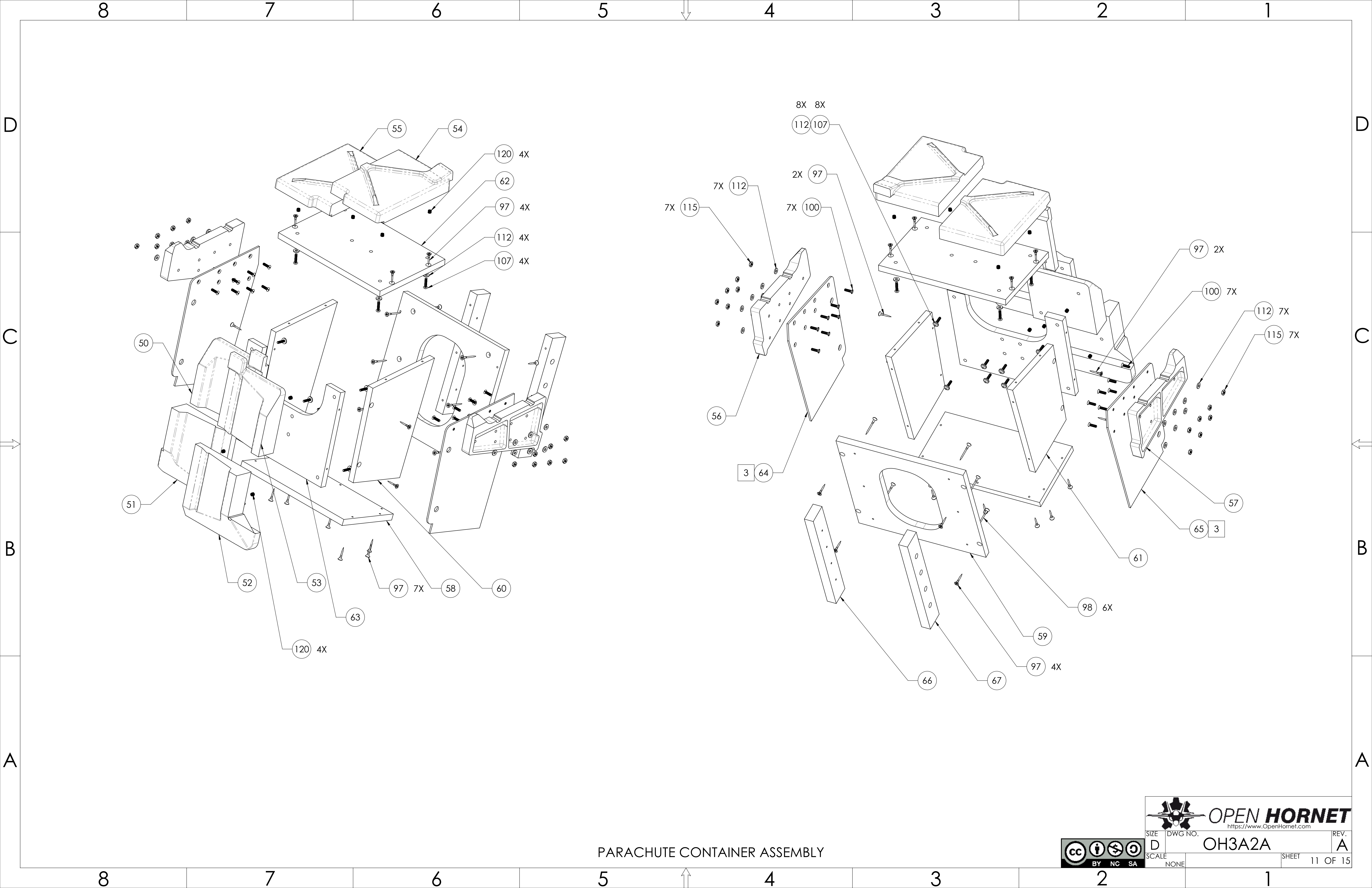




**OPEN HORNET**  
https://www.OpenHornet.com

SIZE D	DWG NO. OH3A2A	REV. A
SCALE NONE	SHEET 10 OF 15	

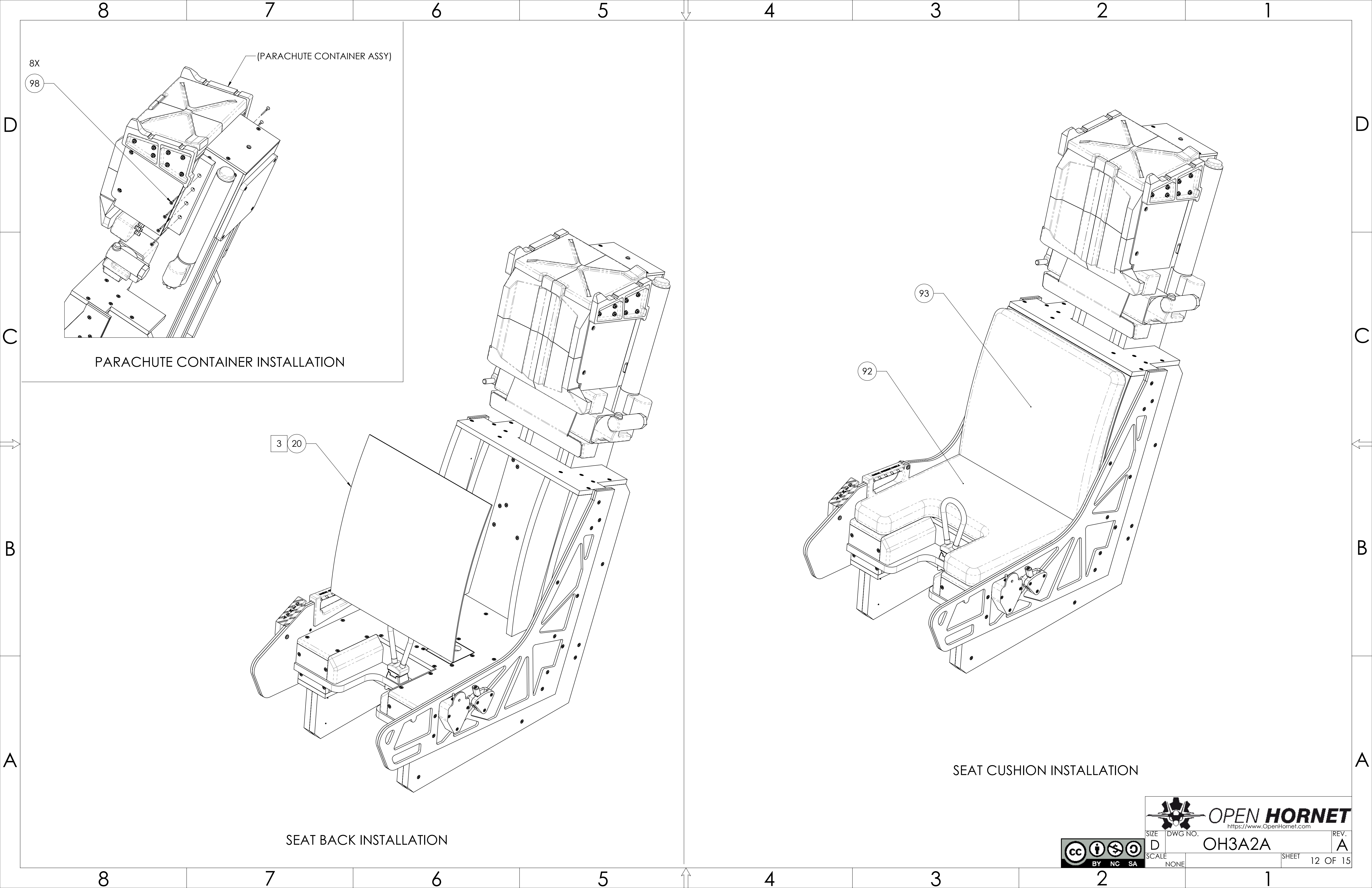




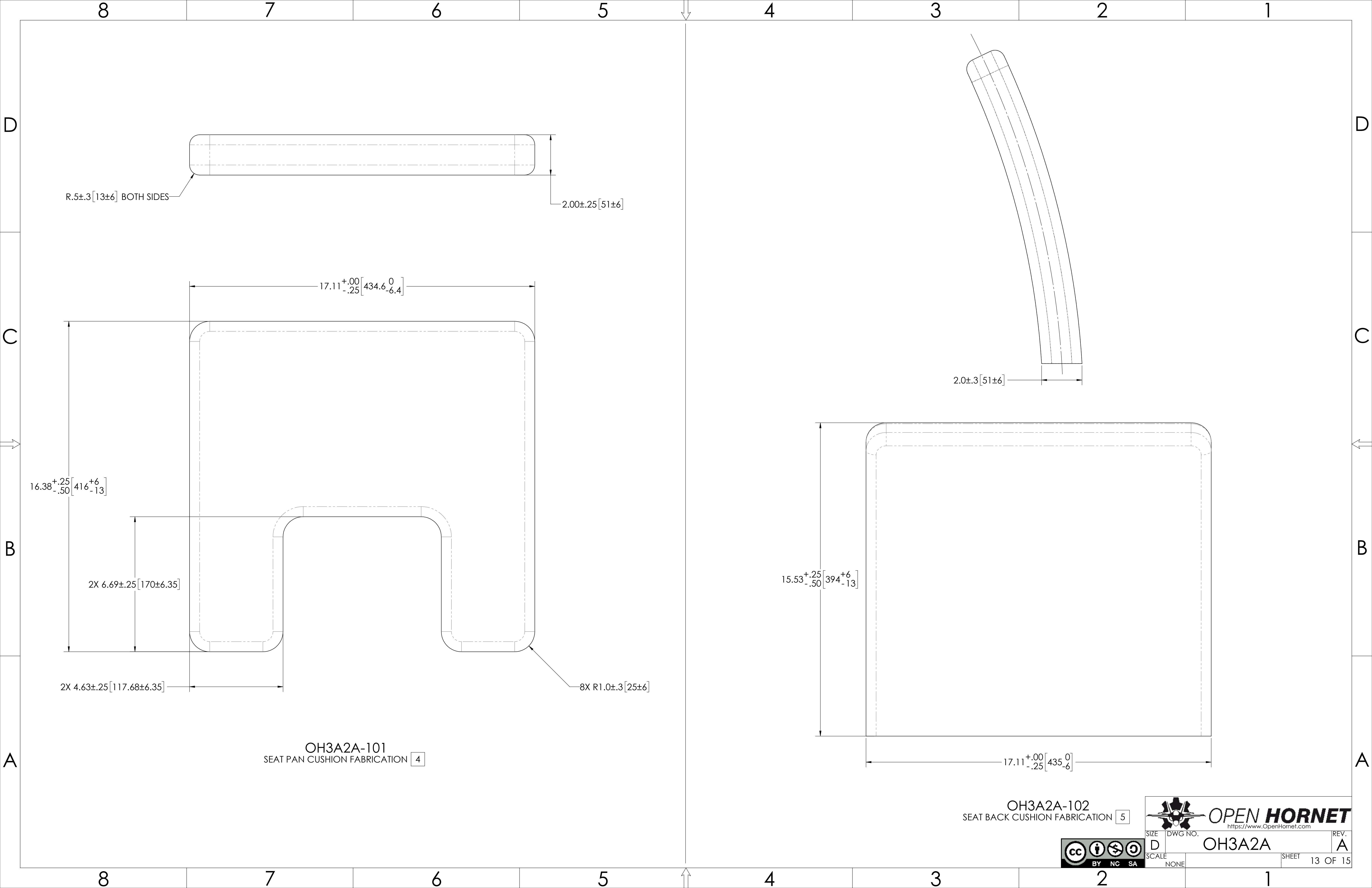
PARACHUTE CONTAINER ASSEMBLY



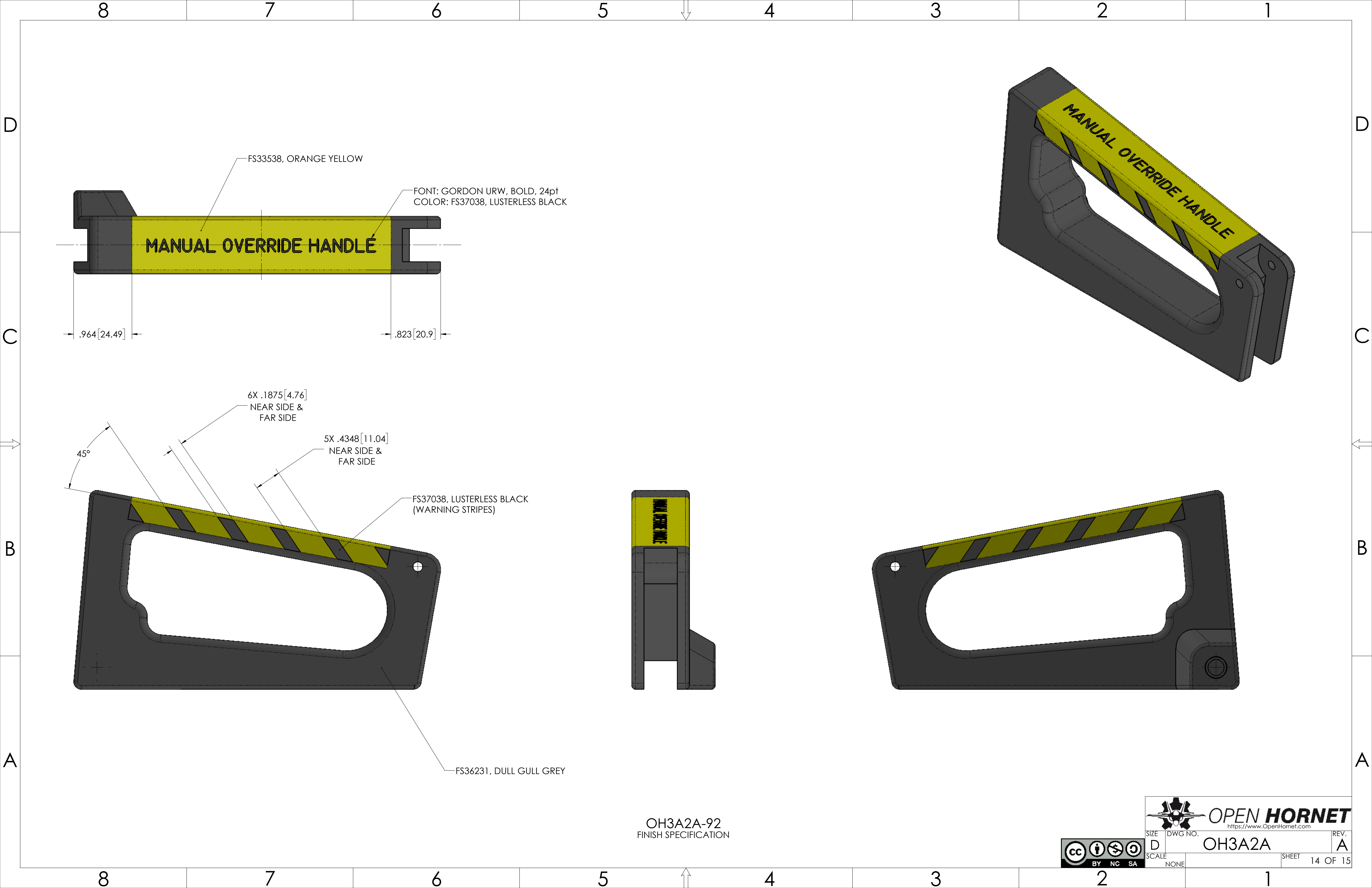












OH3A2A-92  
FINISH SPECIFICATION





