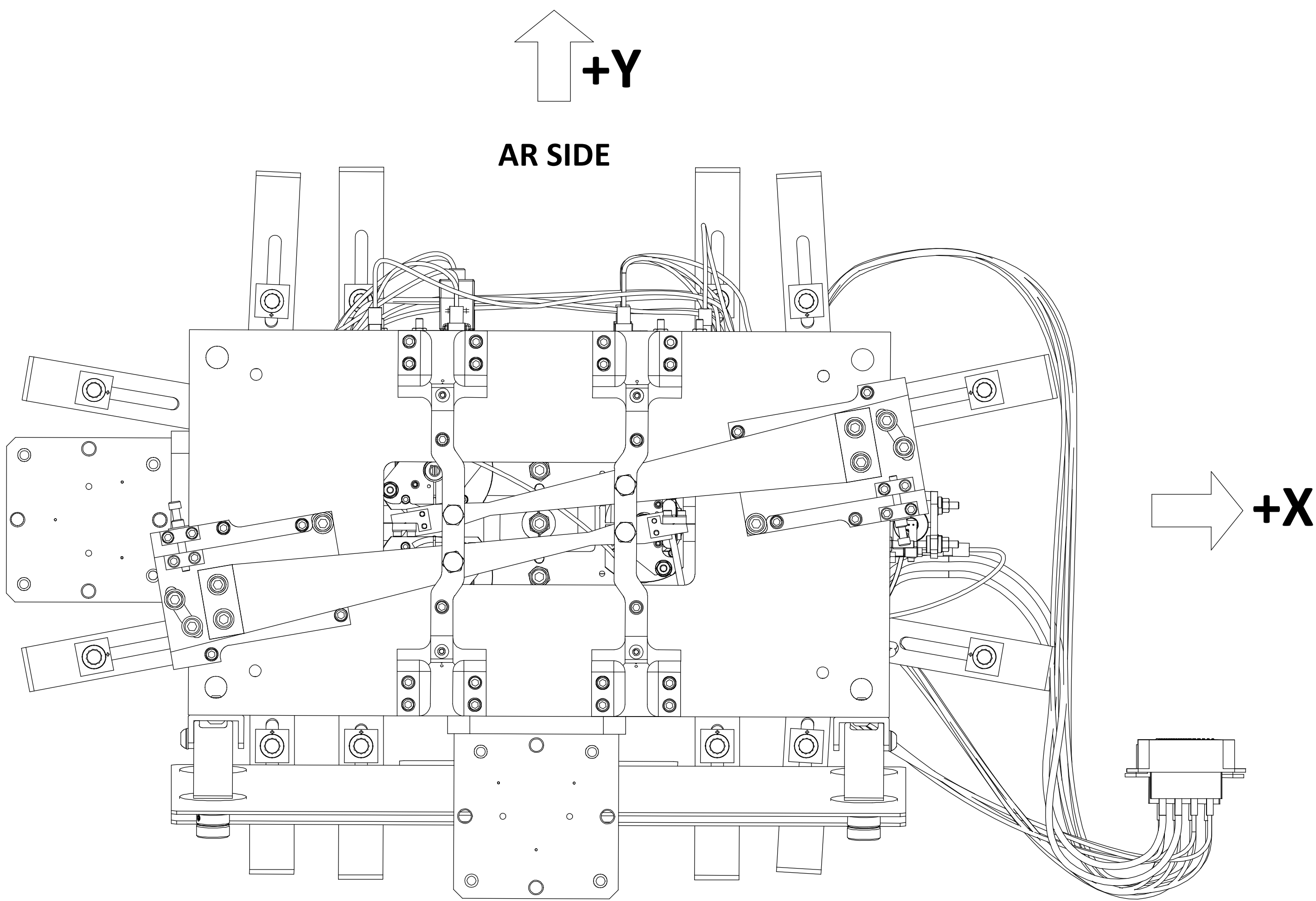


NOTES CONTINUED:

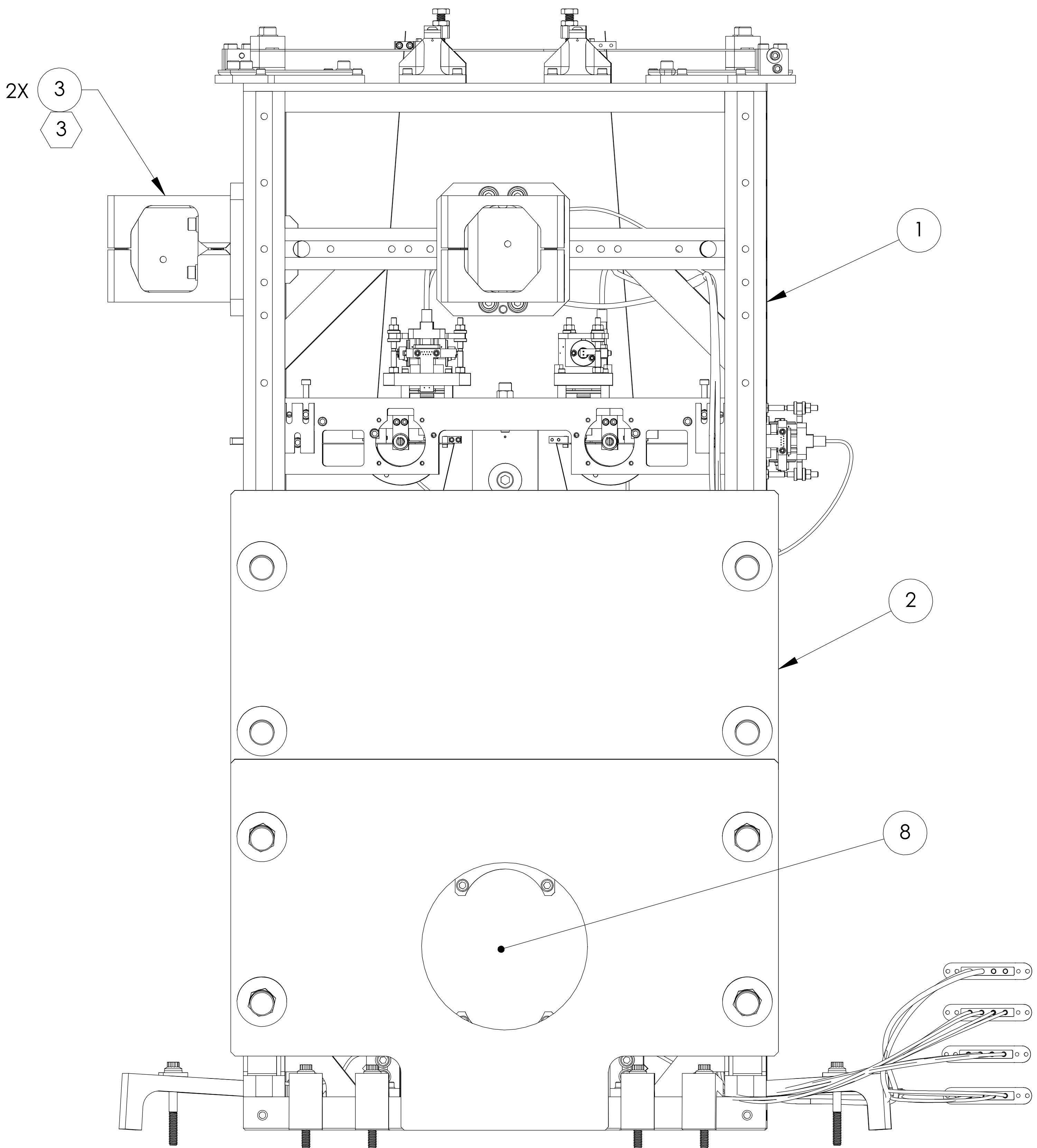
③ VIBRATION ABSORBER ATTACHED USING
HARDWARE SUPPLIED WITH D1002424.

INSTALL CONFIGURATION (IN CHAMBER - DOORS CLOSED) L1 HSTS FC2

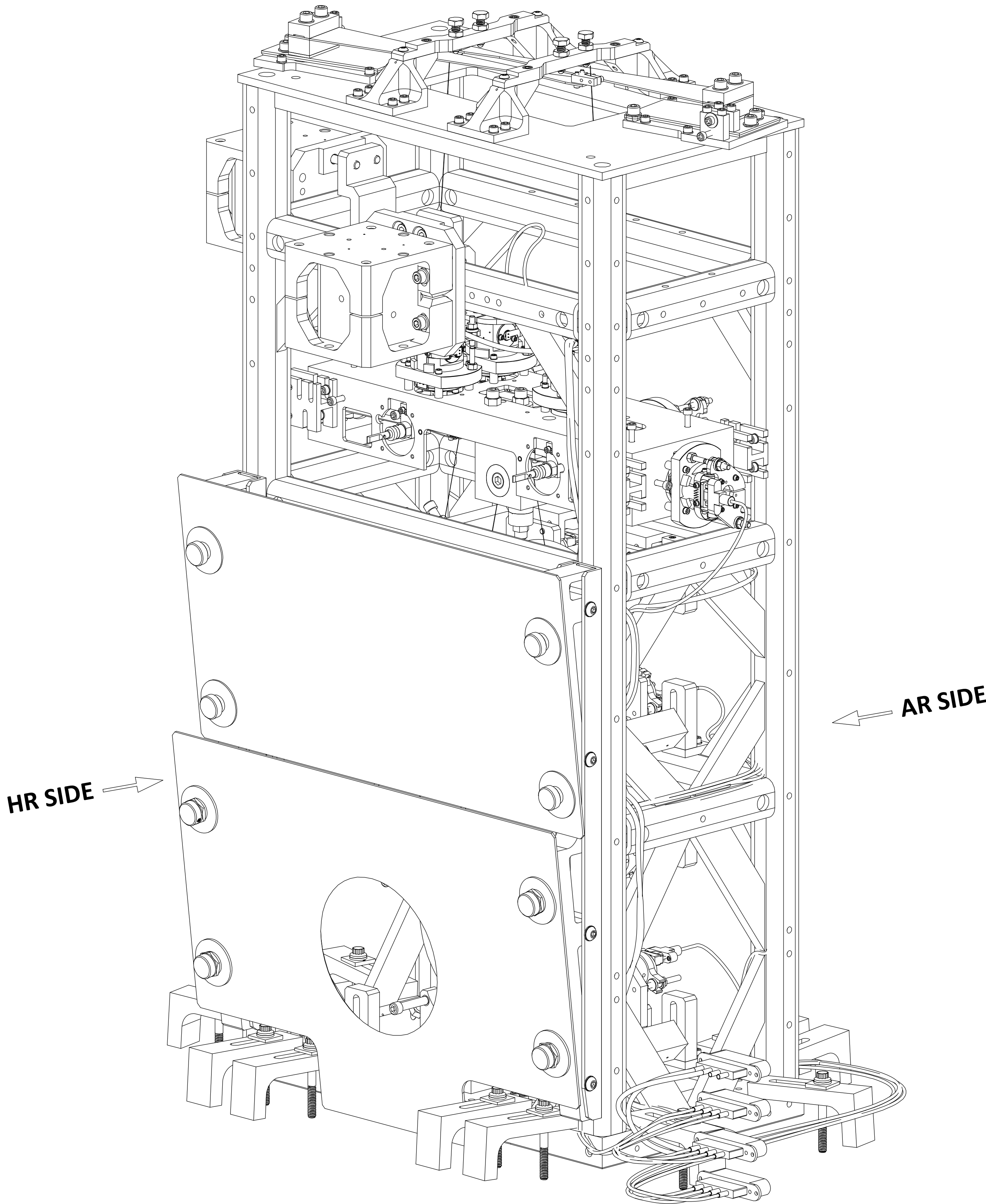
REV.	DATE	DCN #	DRAWING TREE #
v1	16 MAY 2022	E2200205	
-	-	-	
-	-	-	



LOCAL COORDINATES - SEE SHEET 3 FOR REFERENCE			
X mm	Y mm	Z mm	YAW
-533.433	-189.900	-98.442	0.189 °



HR SIDE - FRONT VIEW



3D VIEW

HAM8-L1 CABLES				
ROUTE NO.	FROM OSEM POSITION	TO CB FLOOR DES.	CABLE PART NO.	NOM. CABLE LENGTH (IN)
1	M3-UL(S)	CB-2 (1ST)	D2100049	36
	M3-LL(N)			
	M3-UR(N)			
	M3-LR(S)			
2	M2-UL(S)	CB-2 (2ND)	D2100049	45
	M2-LL(N)			
	M2-UR(N)			
	M2-LR(S)			
3	M1-T3(N)	CB-2 (3RD)	D2100049	54
	M1-LF(N)			
	M1-RT(S)			
	M1-SD(S)			
4	M1-T1(S)	CB-2 (4TH)	D2100050	54
	M1-T2(S)			

PARTS LIST				
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	QTY.
1	D1900325	A+ SUS, HSTS Overall Assembly	N/A	1
2	D1900497-01	A+, SUS, HSTS BAFFLE ASSY.	N/A	1
3	D1002424	VIBRATION ABSORBER ASSEMBLY	N/A	2
4	D1201293-3	ALIGO, SUS, 1/4 WASHER, BEVELED	304 SSTL	12
5	D1100785-530	WASHER, FLAT, .25 X .530 O.D.	NITRONIC 60	12
6	2AL2.25-12SL	1/4-20 X 2.25 12PT BOLT	450 SSTL	12
7	UC COMPONENTS #C-2012-N (OR EQUIVALENT)	SCREW, SOCKET HEAD CAP. 1/4-20 UNC-2A X 0.75 LONG, FULLY THREADED	300 SSTL	2
8	D2200138	A+, COC, L1-FC2 Optic Assembly	N/A	1
9	D1800303-17	SUC HAM Optics Table Dog Clamp (Black Nickel coated) 1.1L	304 SSTL	12
10	D2200168	A+, SUS, HAM8-L1 HSTS Installation Plate	6061-T6 Al	1

NOTES AND TOLERANCES: (UNLESS OTHERWISE SPECIFIED)
1. INTERPRET DRAWING PER ASME Y14.5-1994.
2. DO NOT SCALE FROM DRAWING.

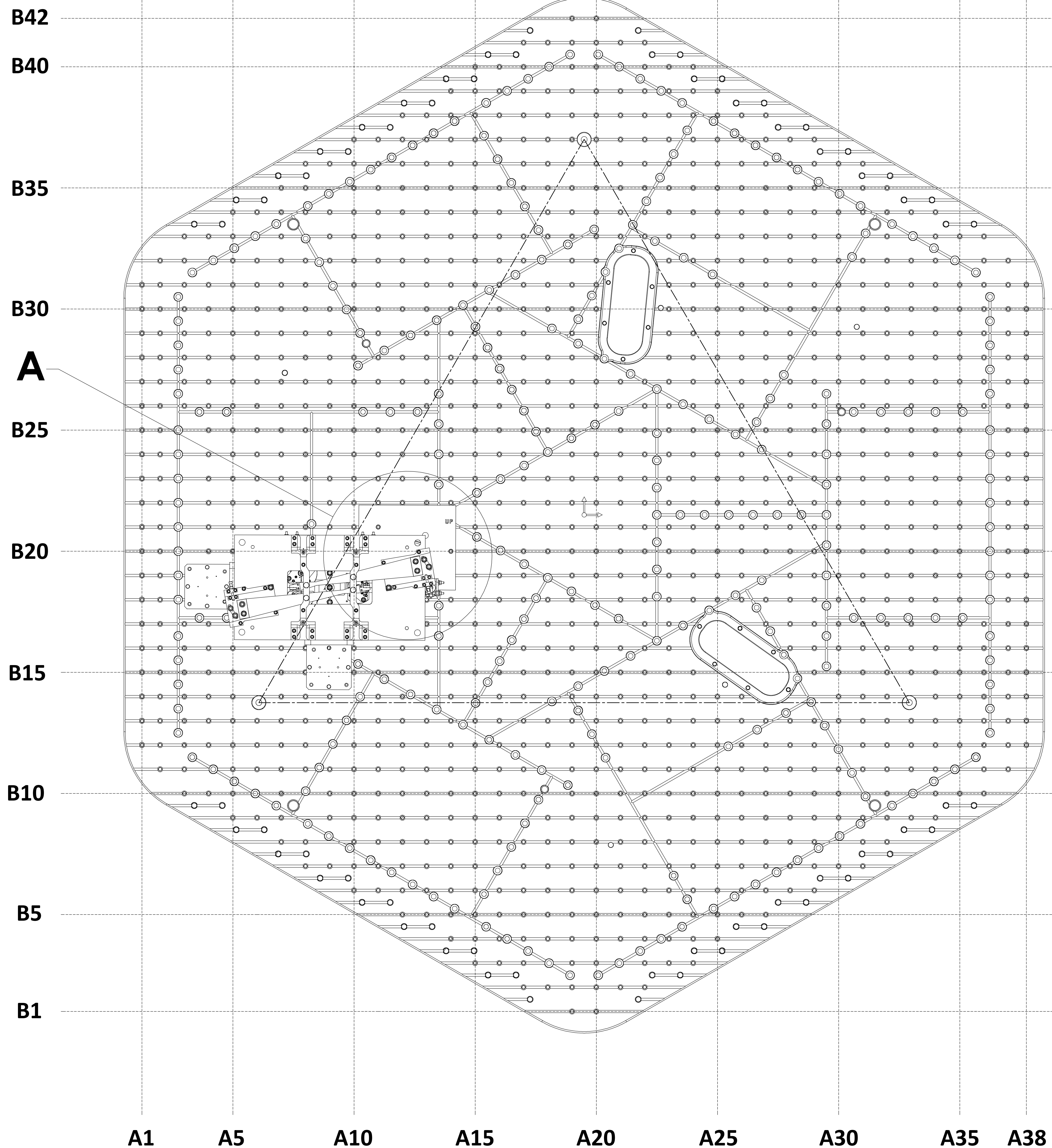
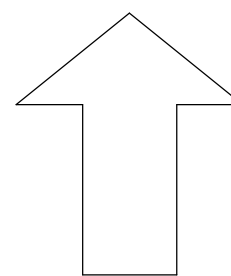
LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

PART NAME		A+ SUS HAM8-L1, XYZ Local CS for HSTS	
DESIGNER	D. GRIFFITH	SIZE	DWG. NO.
DRAFTER	SEE DCC	E	D1900312
CHECKER	SEE DCC	SCALE: 1:5	PROJECTION:
APPROVAL			

MATERIAL N/A FINISH N/A μinch NEXT ASSY D1900311

ALIGNMENT PLATE INSTALLATION / LOCATION
L1 HSTS FC2

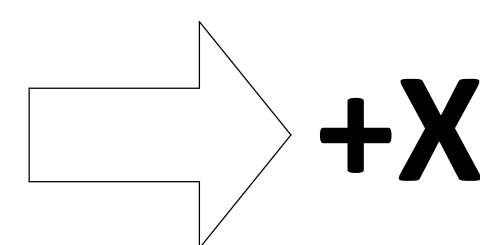
+Y



TOP VIEW

(HSTS BAFFLE ASSEMBLIES NOT SHOWN)

+X



MT HOLE: A11,B21

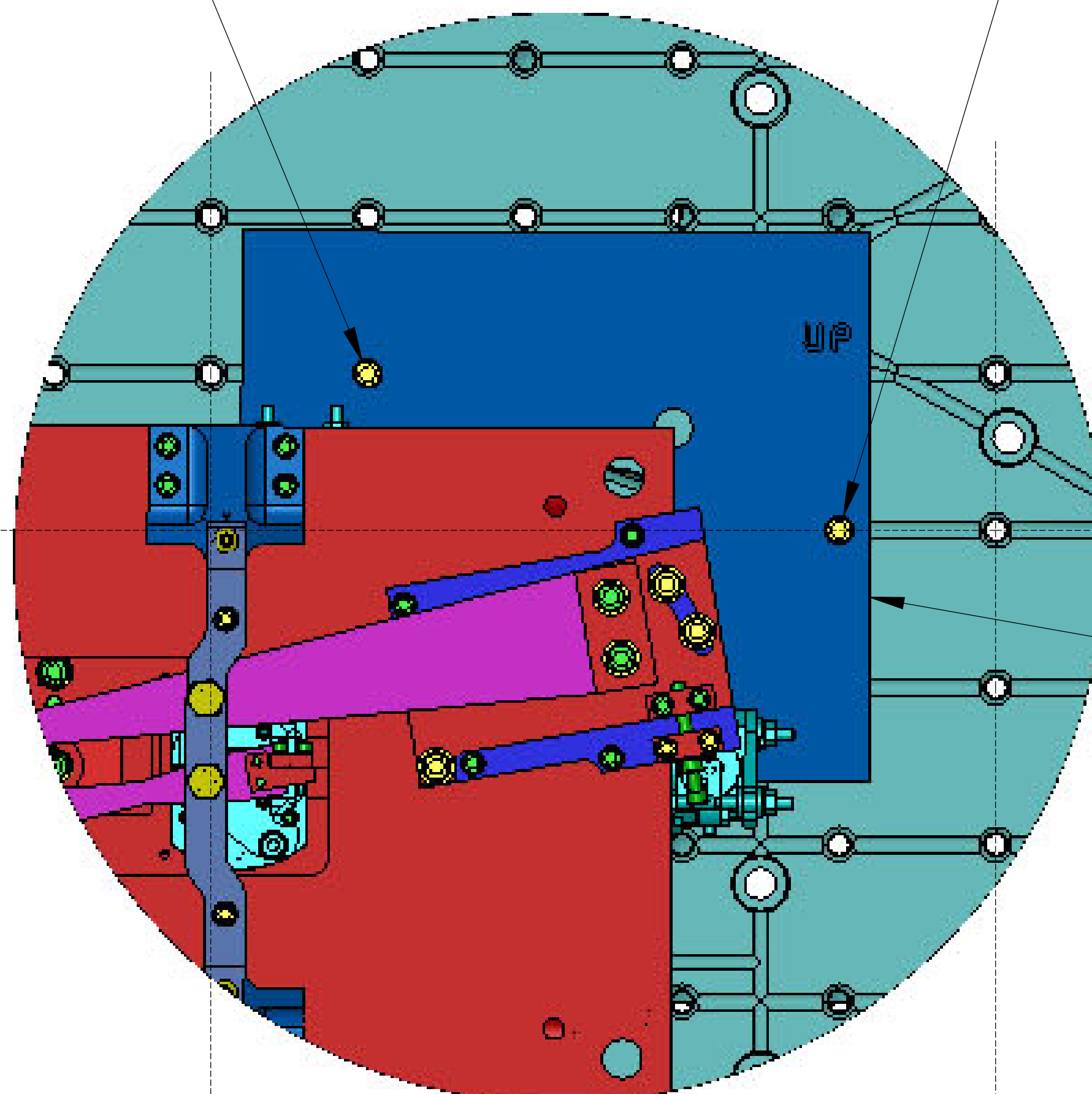
7

AR SIDE

MT HOLE: A14,B20

7

B20



A10

HR SIDE

A15

10

DETAIL A

SCALE 2 : 3

(HSTS BAFFLE ASSEMBLIES NOT SHOWN)

PARTS LIST				
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ
1	D1900325	A+ SUS, HSTS Overall Assembly	N/A	1
2	D1900497-01	A+, SUS, HSTS BAFFLE ASSY.	N/A	1
3	D1002424	VIBRATION ABSORBER ASSEMBLY	N/A	2
4	D1201293-3	ALIGO, SUS, 1/4 WASHER, BEVELED	304 SSSL	12
5	D1100785-530	WASHER, FLAT, .25 X .530 O.D.	NITRONIC 60	12
6	2AL2.25-12SL	1/4-20 X 2.25 12PT BOLT	450 SSSL	12
7	UC COMPONENTS #C-2012-N (OR EQUIVALENT)	SCREW, SOCKET HEAD CAP, 1/4-20 UNC- 2A X 0.75 LONG, FULLY THREADED	300 SSSL	2
8	D2200138	A+, COC, L1-FC2 Optic Assembly	N/A	1
9	D1800303-17	SLIC HAM Optics Table Dog Clamp (Black Nickel coated) 1.1L	304 SSSL	12
10	D2200168	A+, SUS, HAM8-L1 HSTS Installation Plate	6061-T6 Al	1

LOCAL COORDINATES DEFINITION

TOP VIEW
(BAFFLE AND CABLE ASSEMBLIES NOT SHOWN)

FRONT VIEW
(BAFFLE AND CABLE ASSEMBLIES NOT SHOWN)

Dimensions and coordinates shown:

- YAW = 90.189°
- Y = - 7.476 [189.900]
- X = - 21.001 [533.433]
- Z = - 3.876 [98.442]
- Z = - 9.387 [238.442]

Labels:

- HAM CHAMBER LOCAL CS
- FC2 LOCAL CS
- SEE SHEET 4 B

Coordinate axes: +X, +Y, +Z

Scale: 1:5

Projection: First Angle

Sheet: 3 OF 9

Revision: v1

DWG. NO. D1900312

SIZE: E

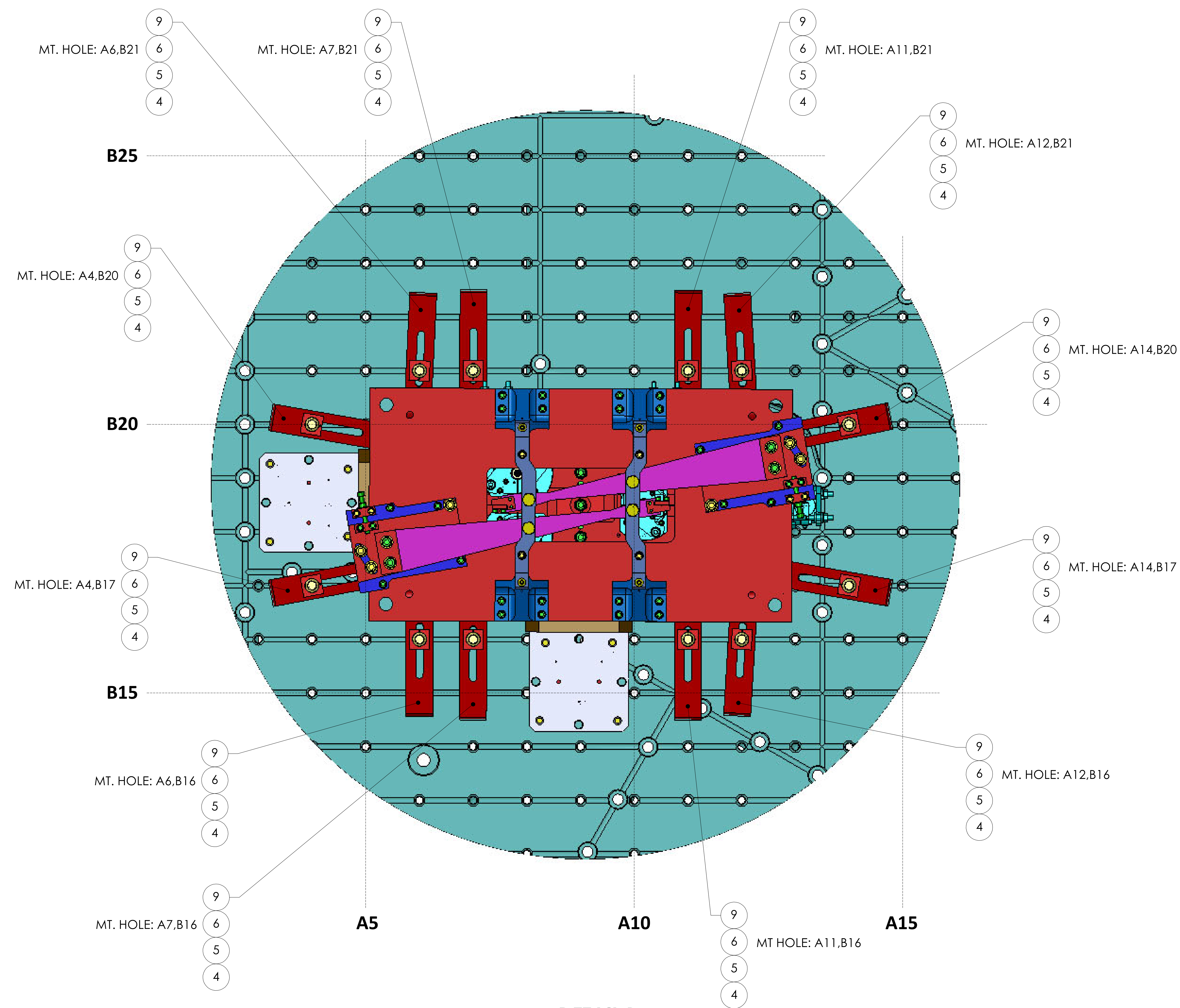
PROJECT: LIGO

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FAST FCM V0300-1014

PART PDM VERSION: y-014
 DRWG PDM VERSION: y-006
 D1900012 A+ 2/5 HAMB-L1.XYZ Local CS for H57

DOG CLAMP IDENTIFICATION / INSTALLATION
L1 HSTS FC2



DETAIL B
SCALE 2 : 3
(BAFFLE AND CABLE ASSEMBLIES NOT SHOWN)

PARTS LIST				
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ
1	D1900325	A+ SUS, HSTS Overall Assembly	N/A	1
2	D1900497-01	A+, SUS, HSTS BAFFLE ASSY.	N/A	1
3	D1002424	VIBRATION ABSORBER ASSEMBLY	N/A	2
4	D1201293-3	ALIGO, SUS, 1/4 WASHER, BEVELED	304 SSTL	12
5	D1100785-530	WASHER, FLAT, .25 X .530 O.D.	NITRONIC 60	12
6	2AL2.25-12SL	1/4-20 X 2.25 12PT BOLT	450 SSTL	12
7	UC COMPONENTS #C-2012-N (OR EQUIVALENT)	SCREW, SOCKET HEAD CAP, 1/4-20 UNC-2A X 0.75 LONG, FULLY THREADED	300 SSTL	2
8	D2200138	A+, COC, L1-FC2 Optic Assembly	N/A	1
9	D1800303-17	SLIC HAM Optics Table Dog Clamp (Black Nickel coated) 1.1L	304 SSTL	12
10	D2200168	A+, SUS, HAM8-L1 HSTS Installation Plate	6061-T6 Al	1

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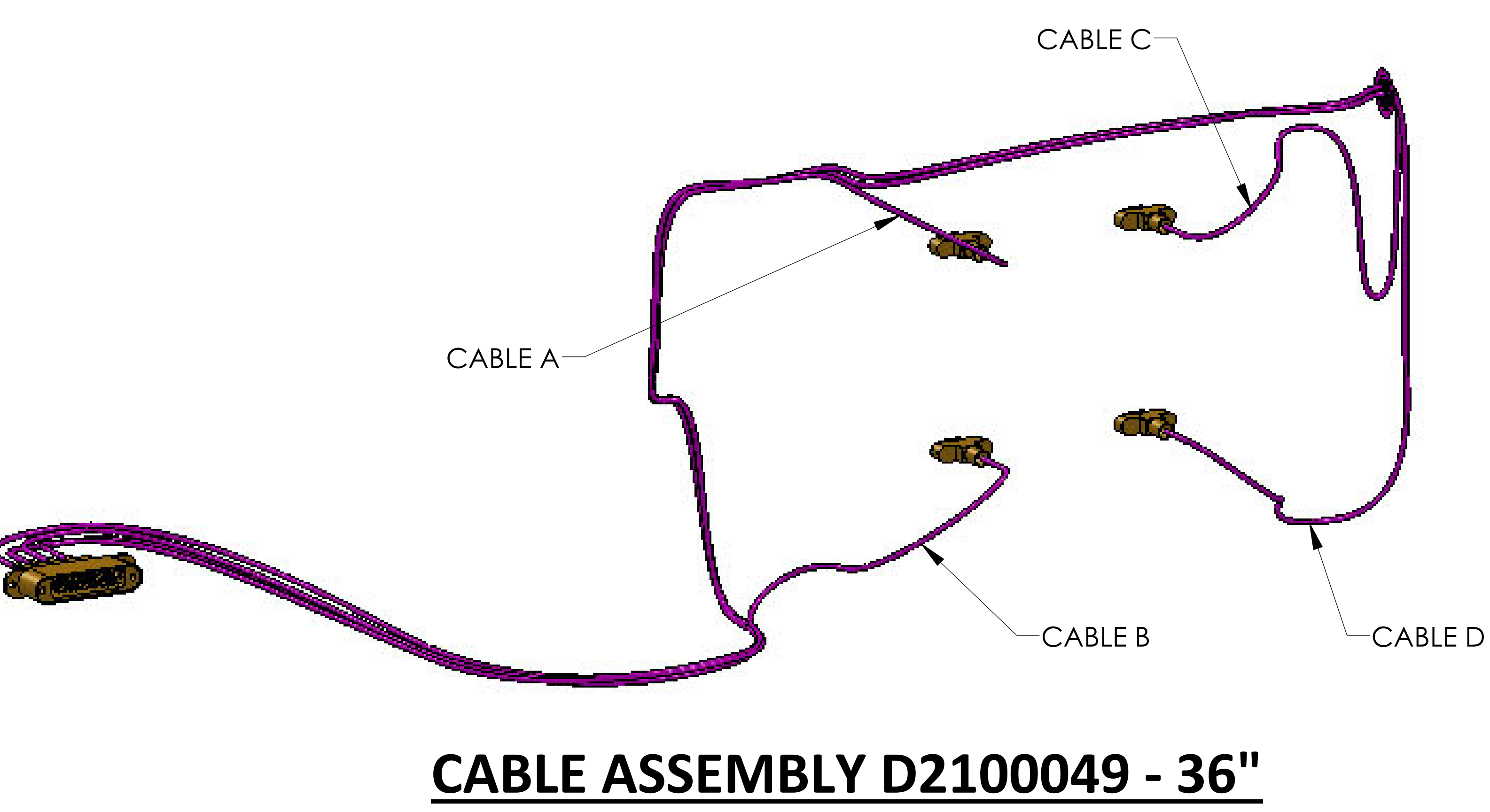
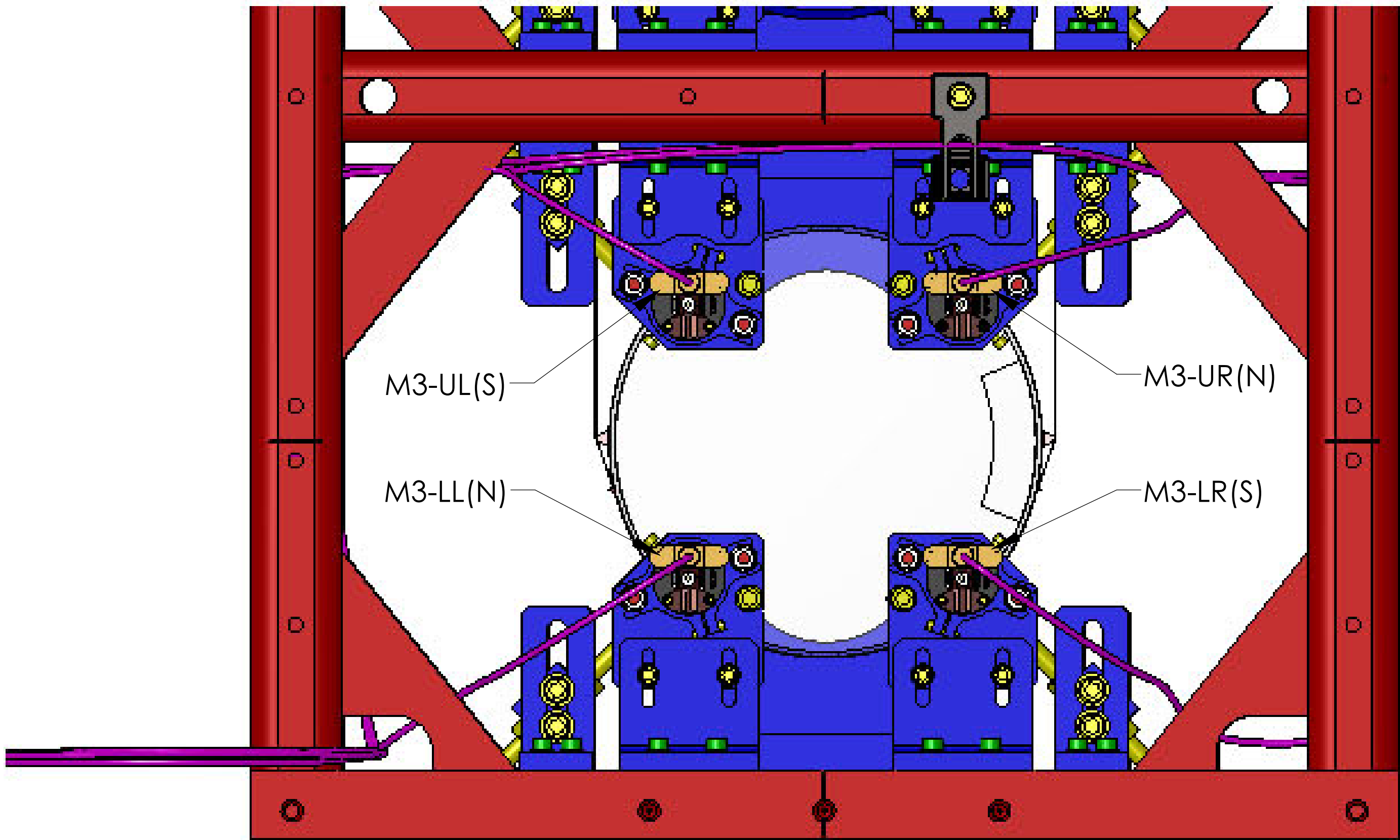
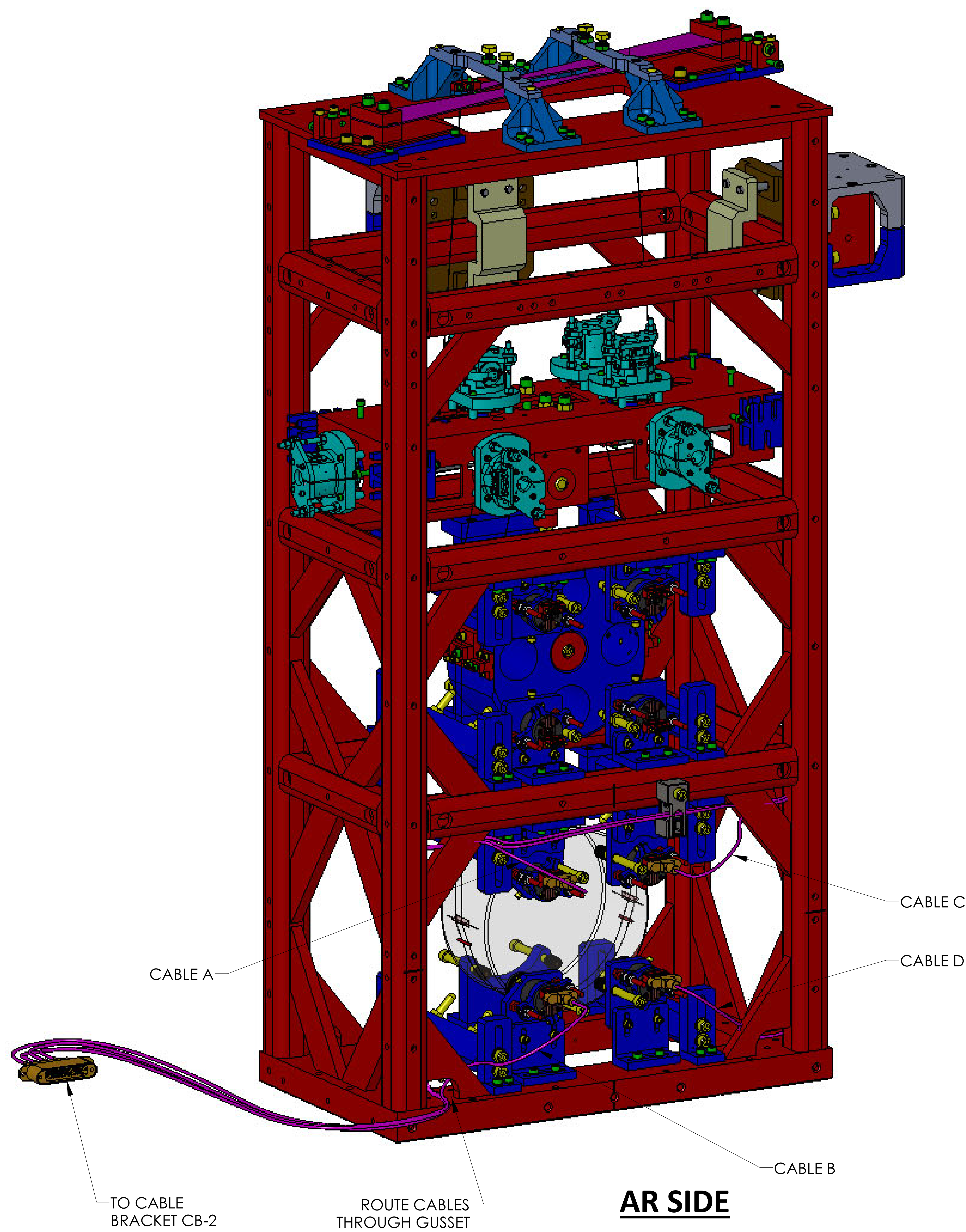
SIZE
E

DWG. NO.
D1900312

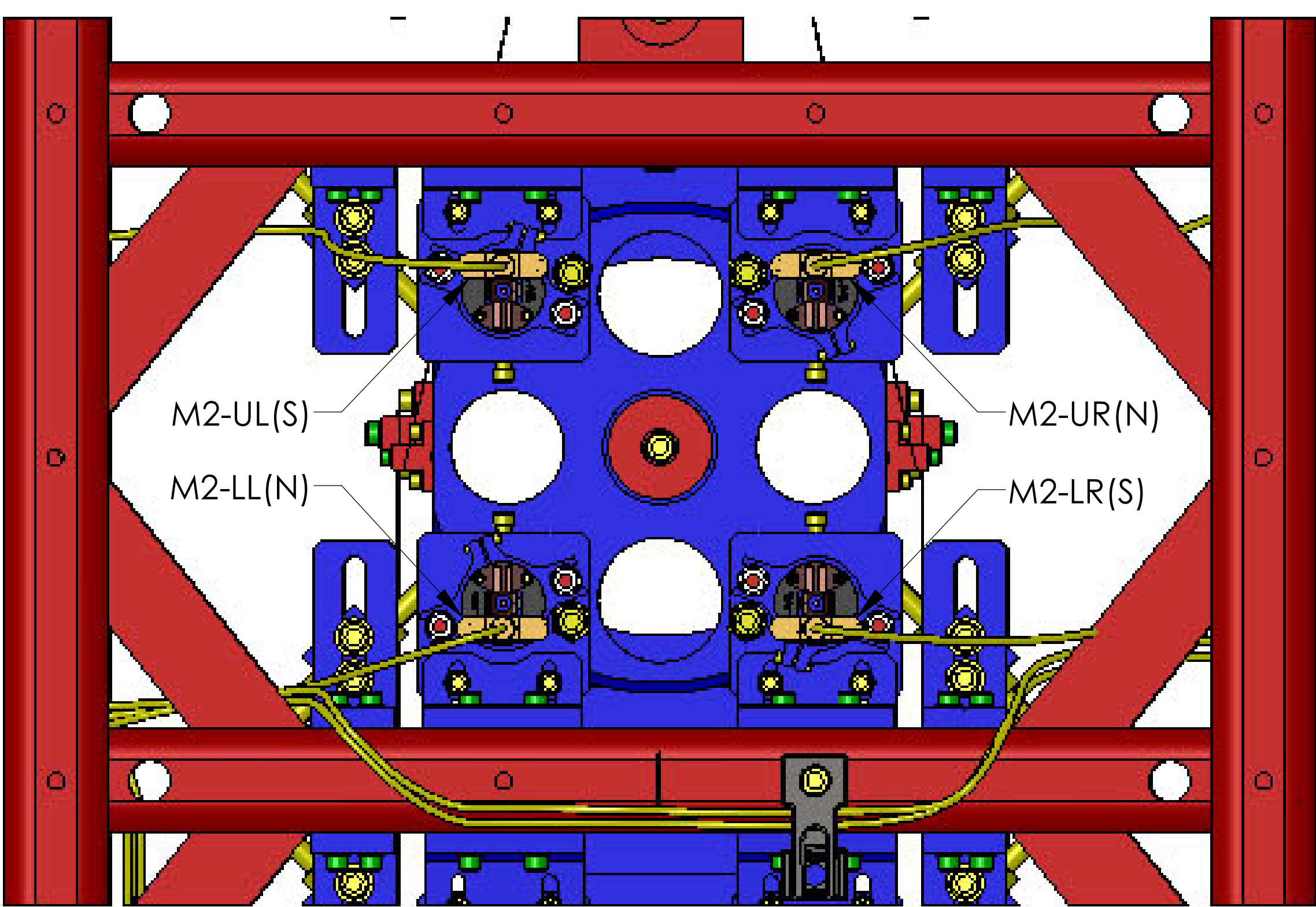
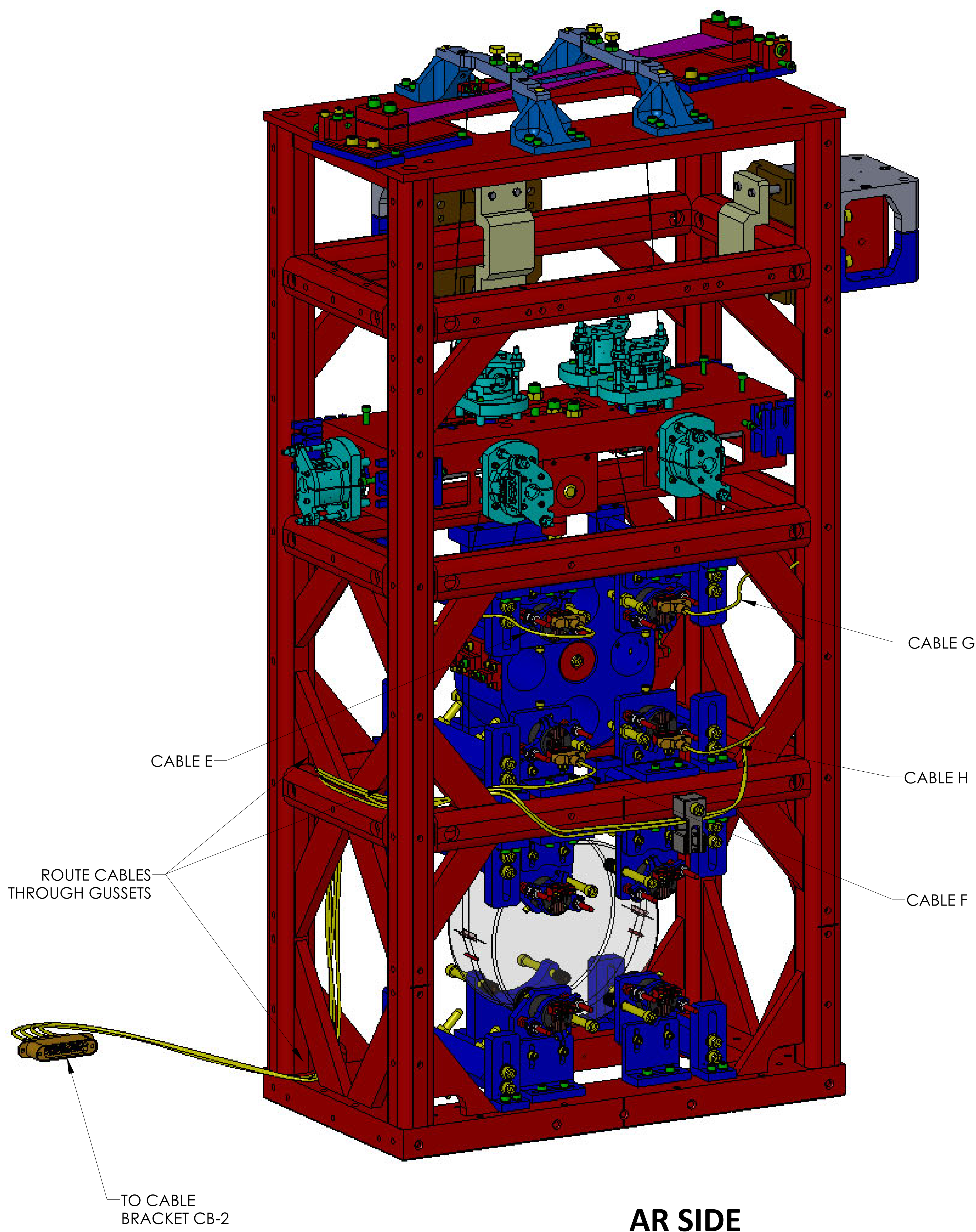
REV.
v1

SCALE: 1:10 PROJECTION:  SHEET 4 OF 9

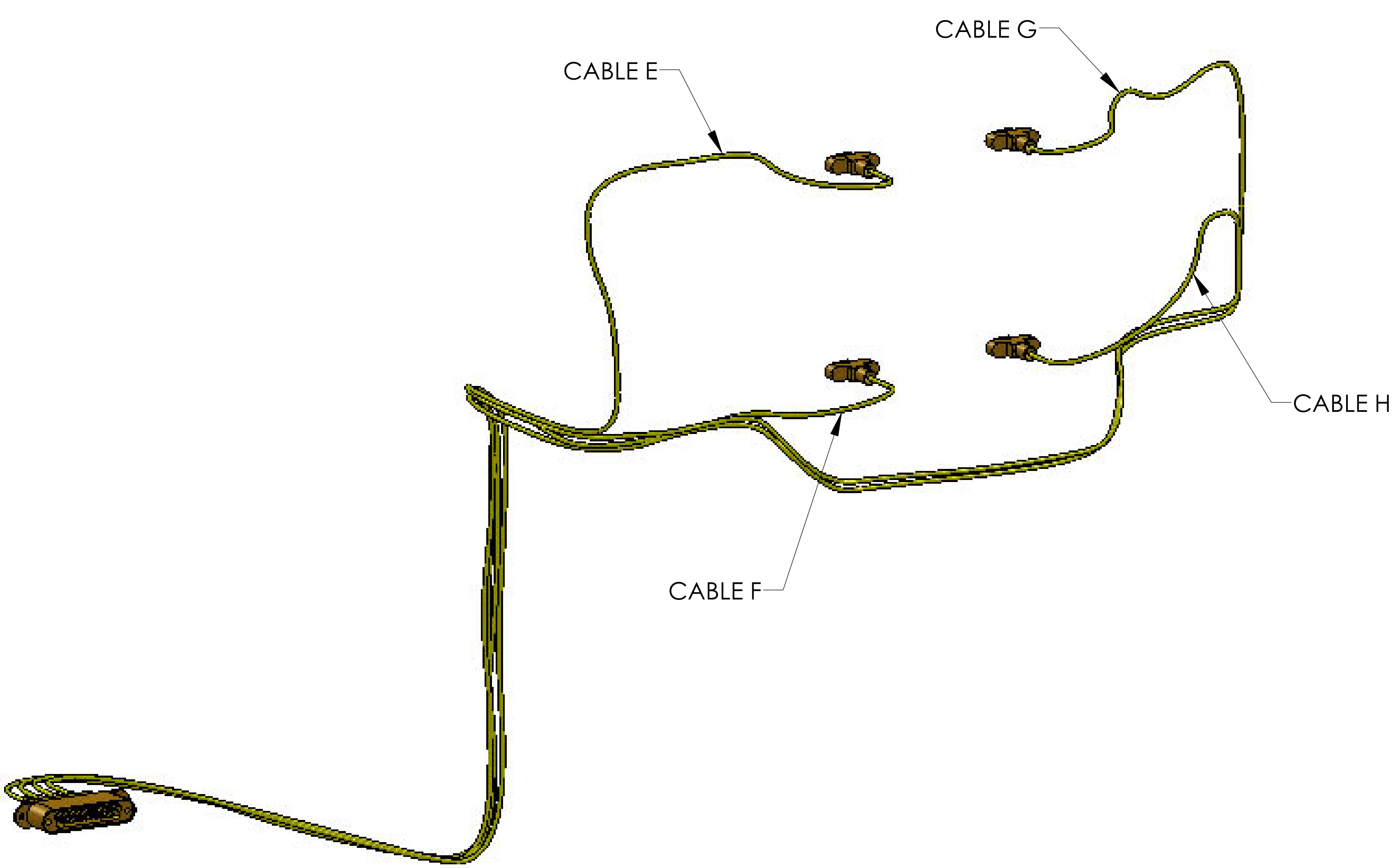
ROUTE NO 1
SEE T1200318 FOR STEP BY STEP CABLING GUIDE



ROUTE NO 2
SEE T1200318 FOR STEP BY STEP CABLING GUIDE

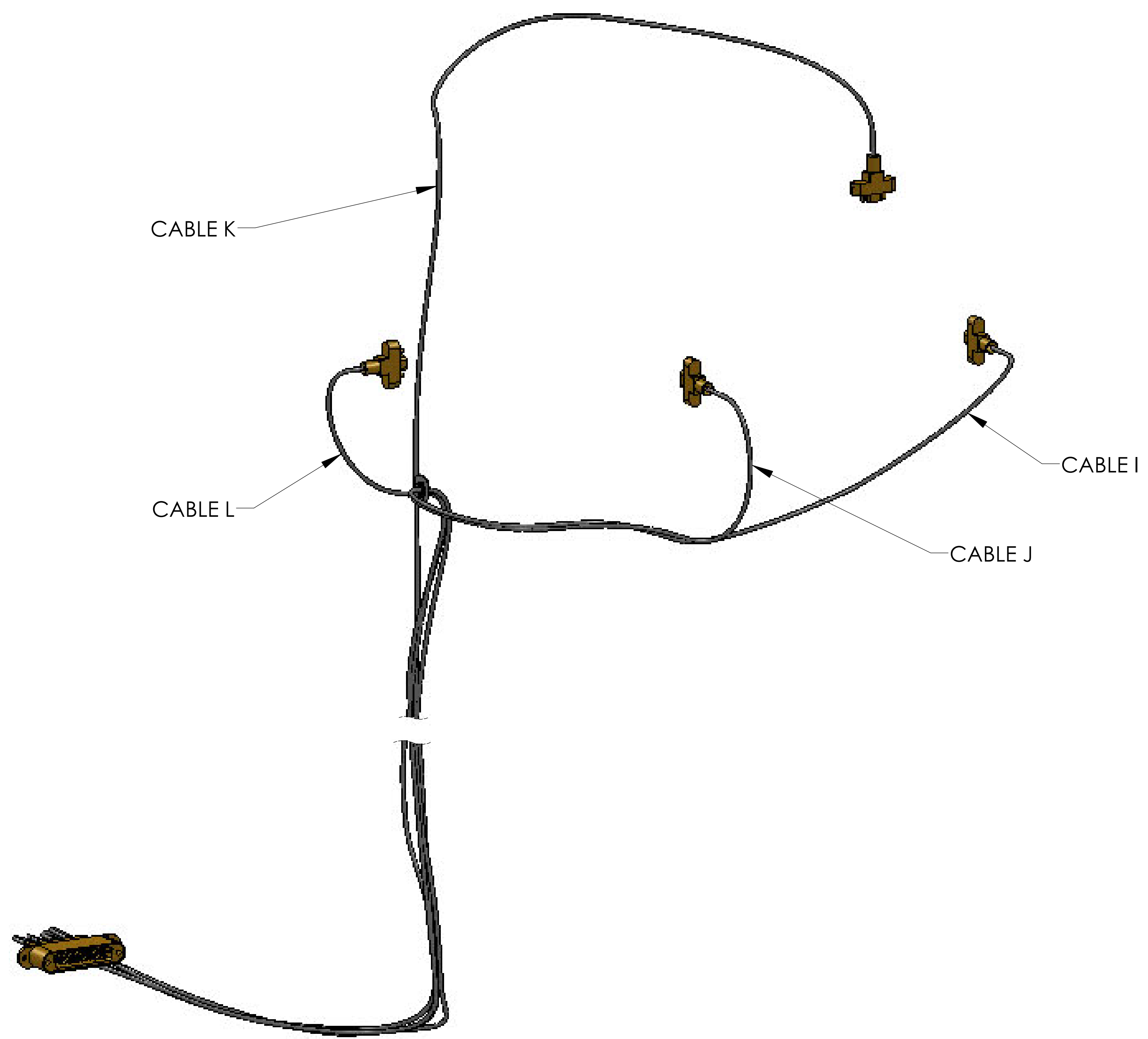
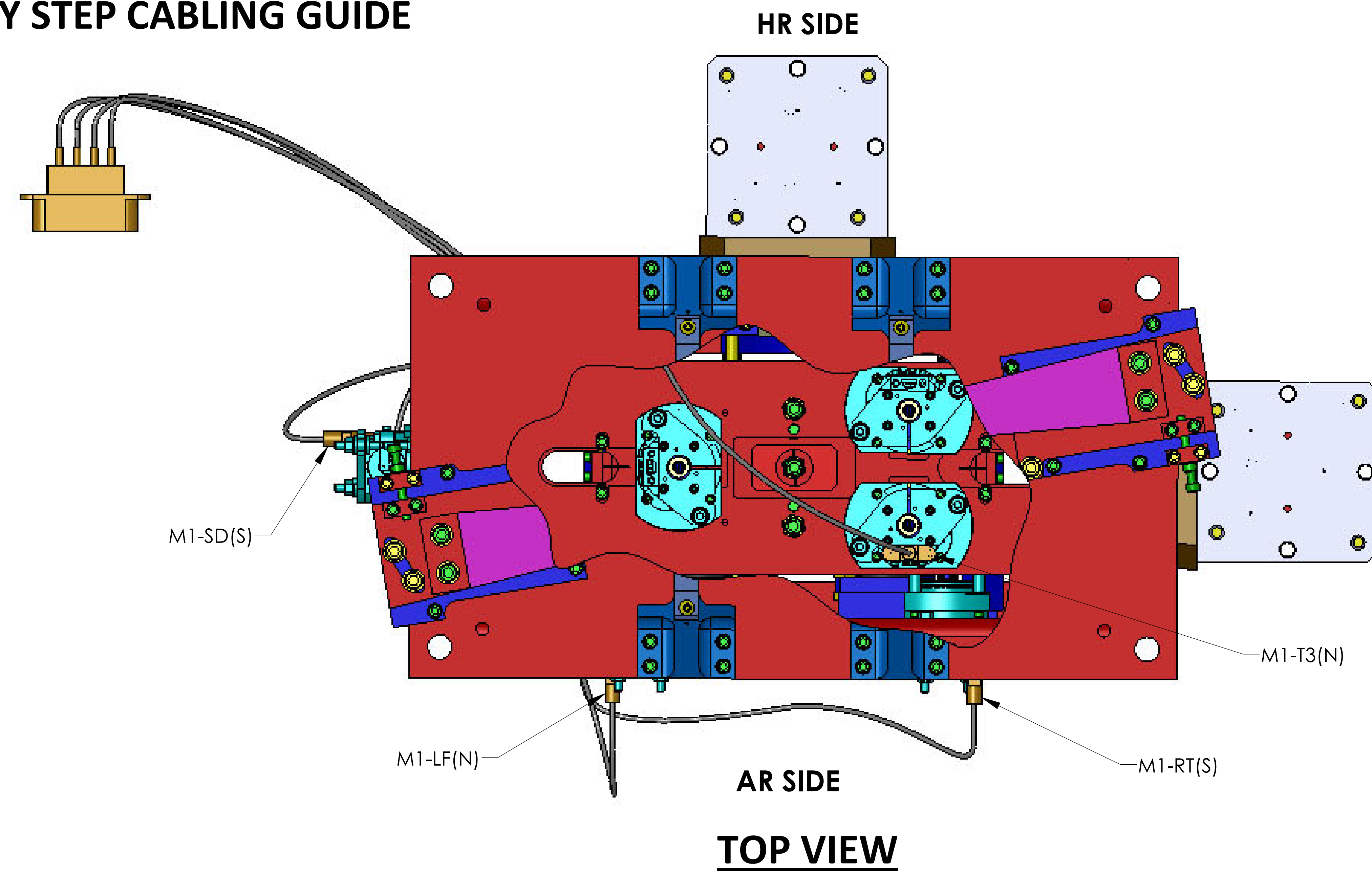
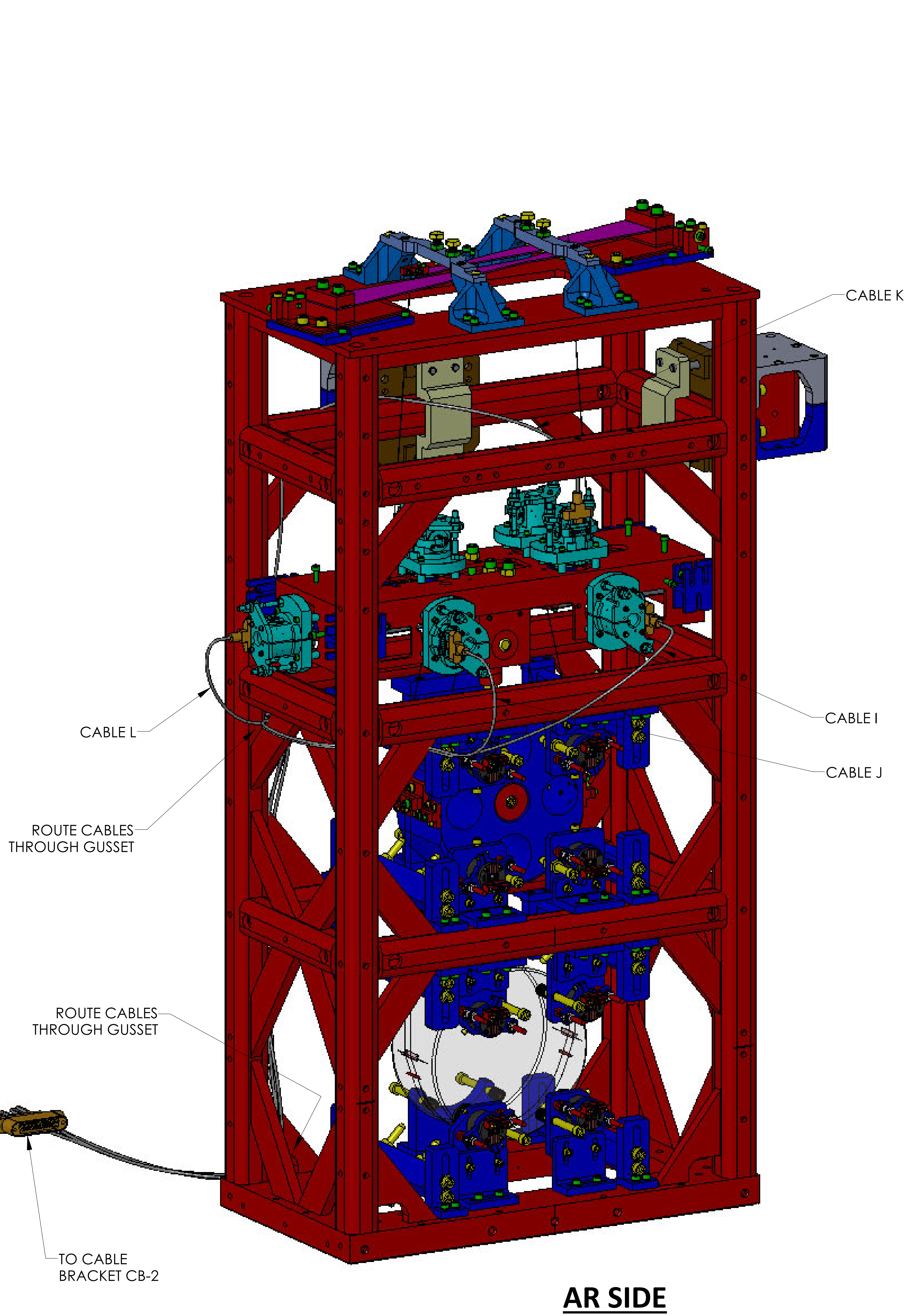


AR SIDE - BACK VIEW



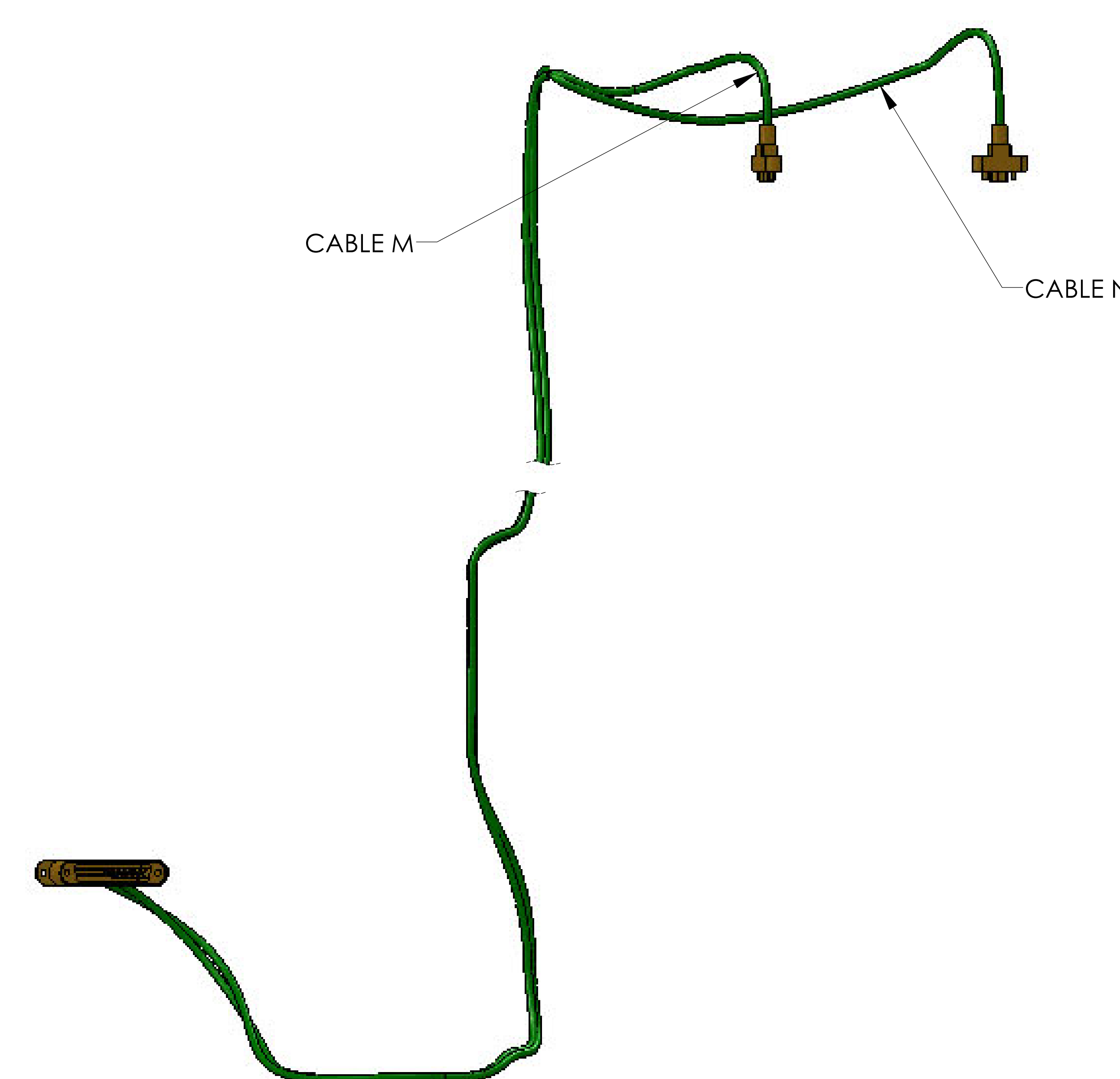
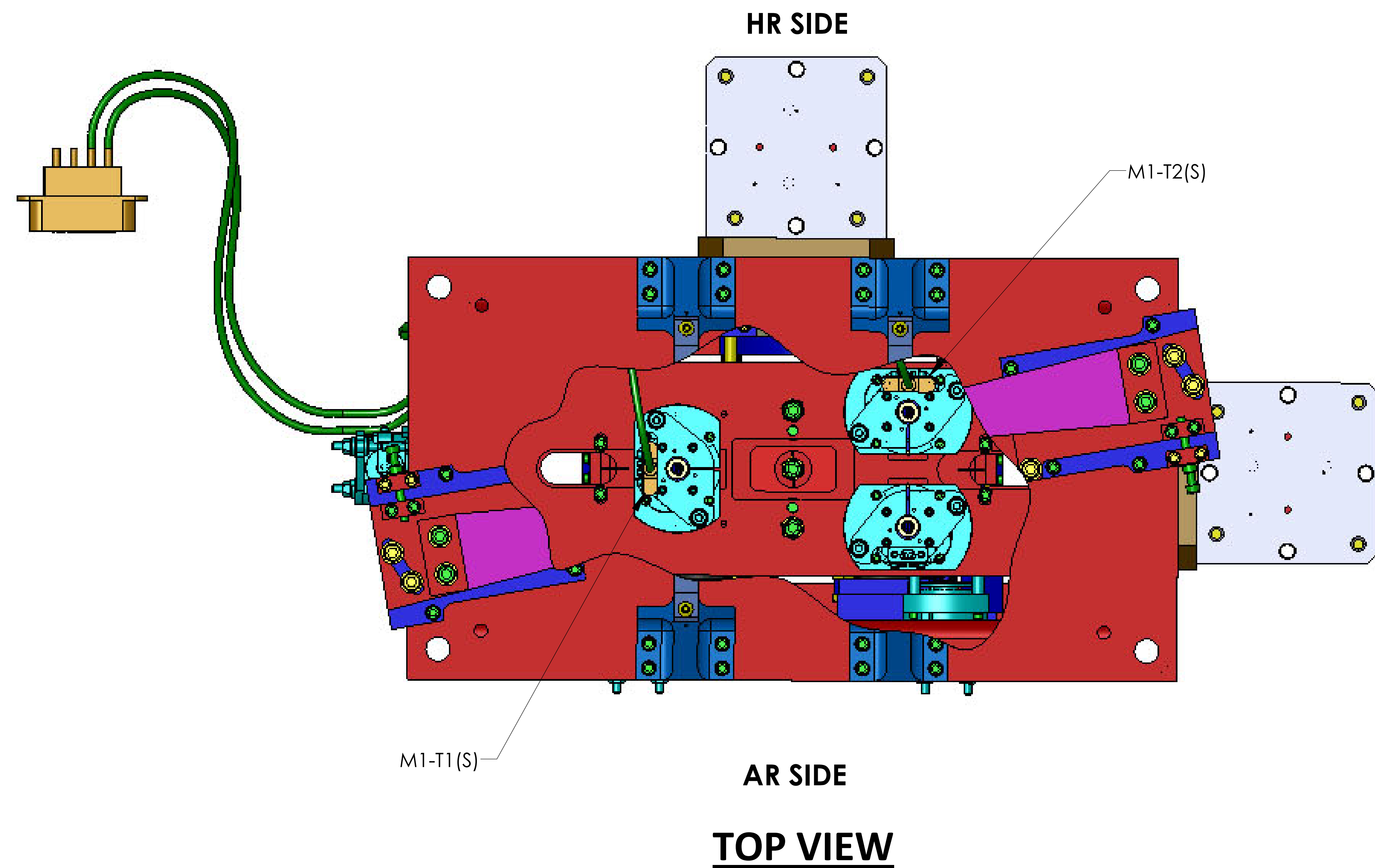
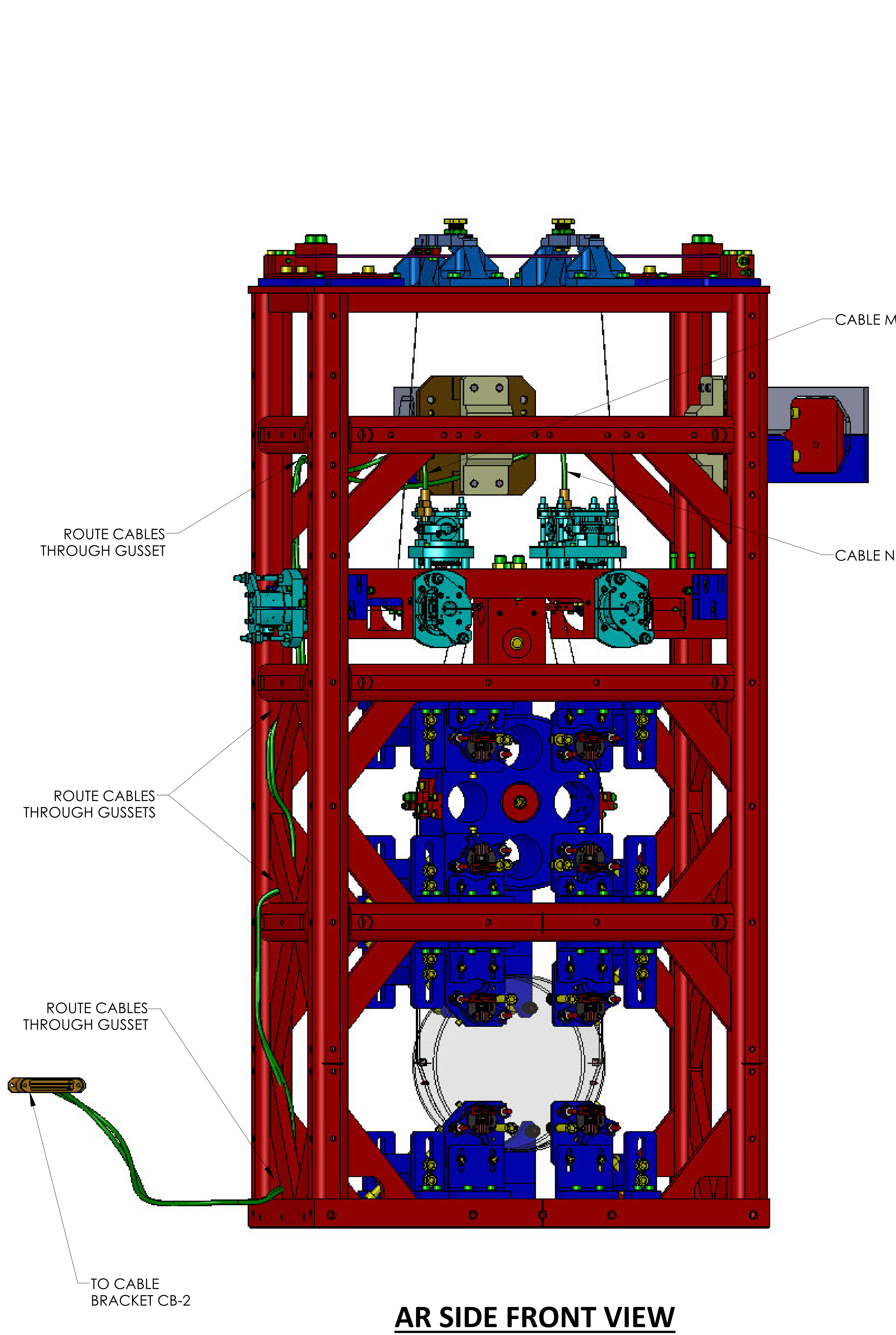
CABLE ASSEMBLY D2100049 - 45"

ROUTE NO 3
SEE T1200318 FOR STEP BY STEP CABLING GUIDE



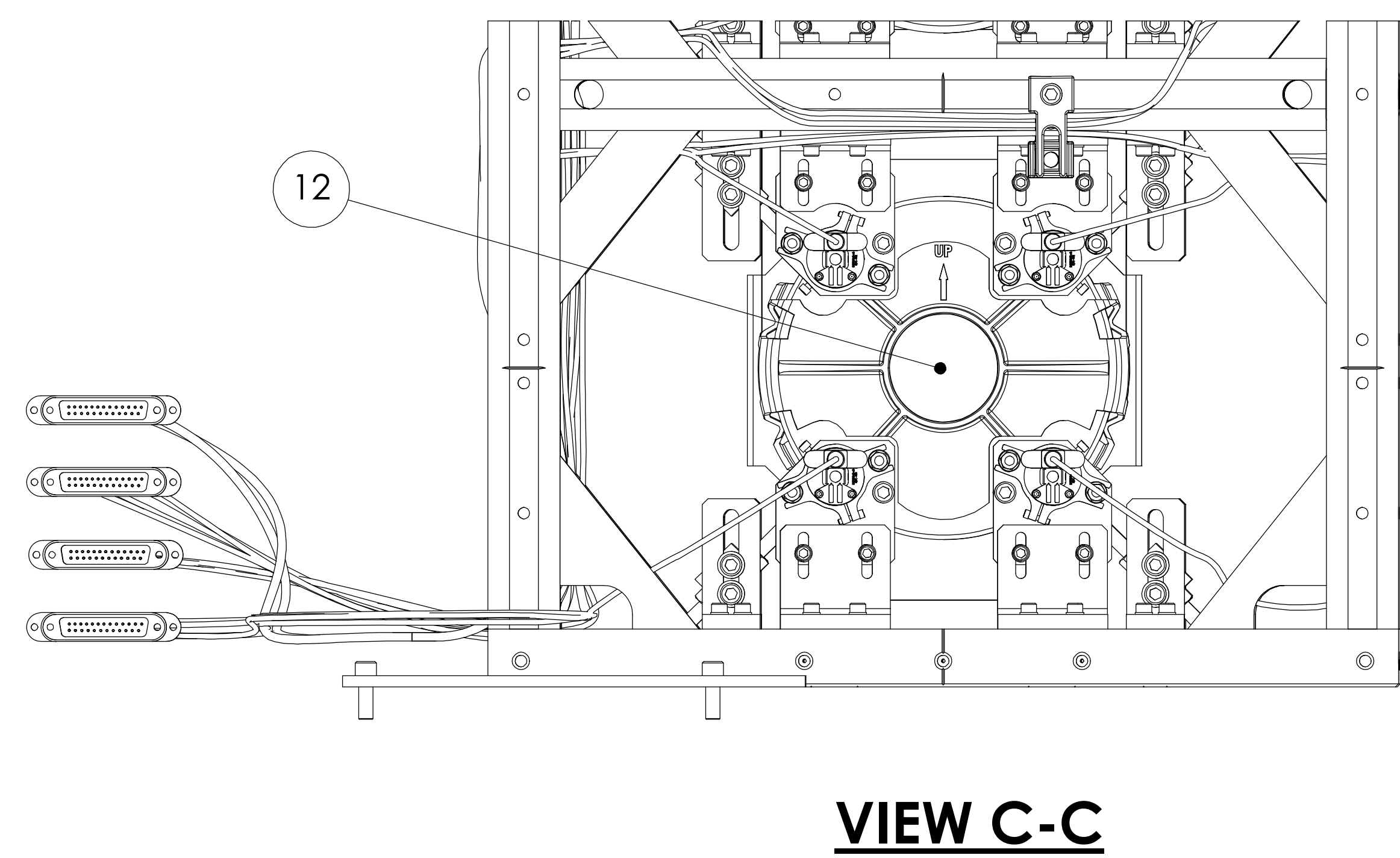
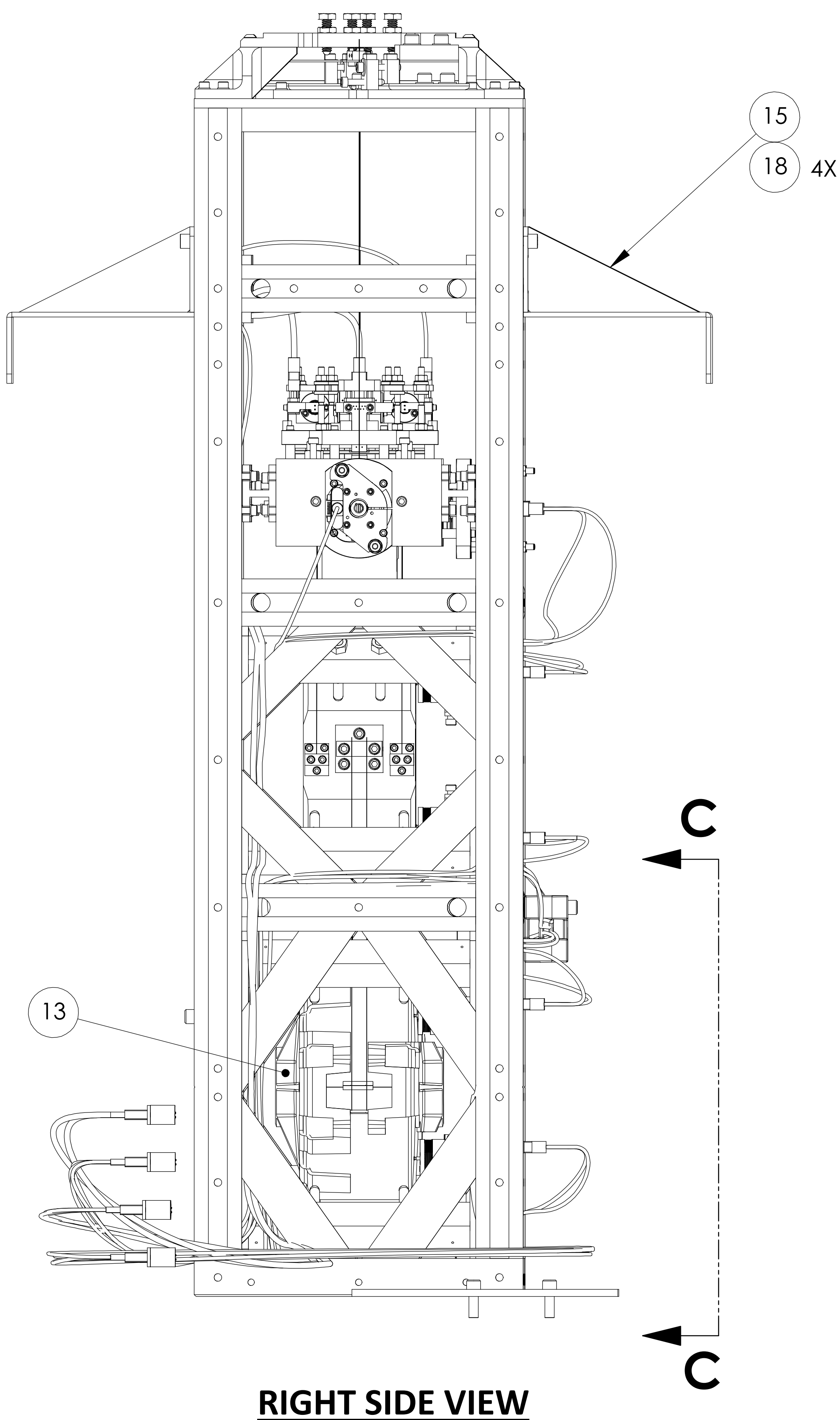
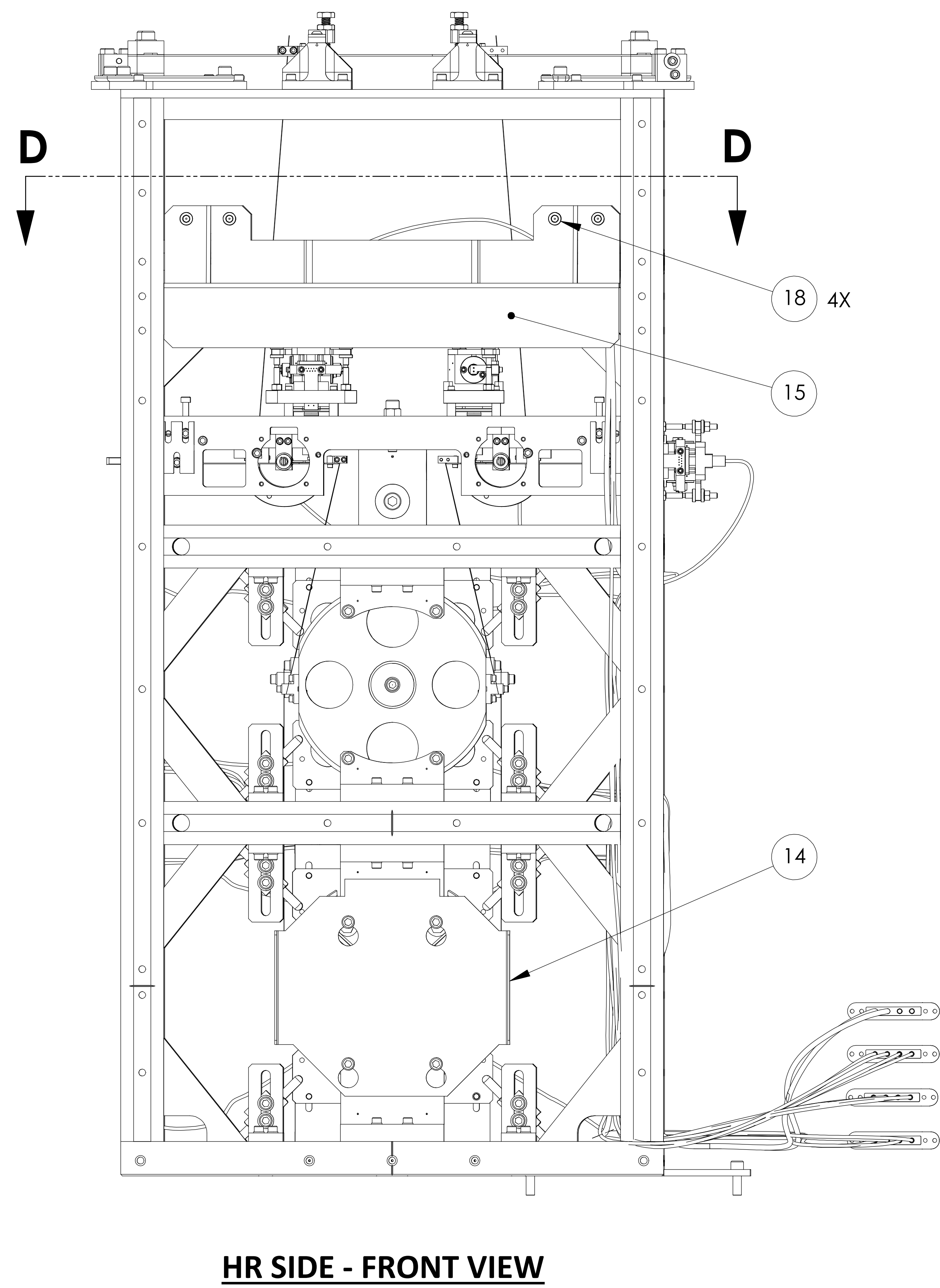
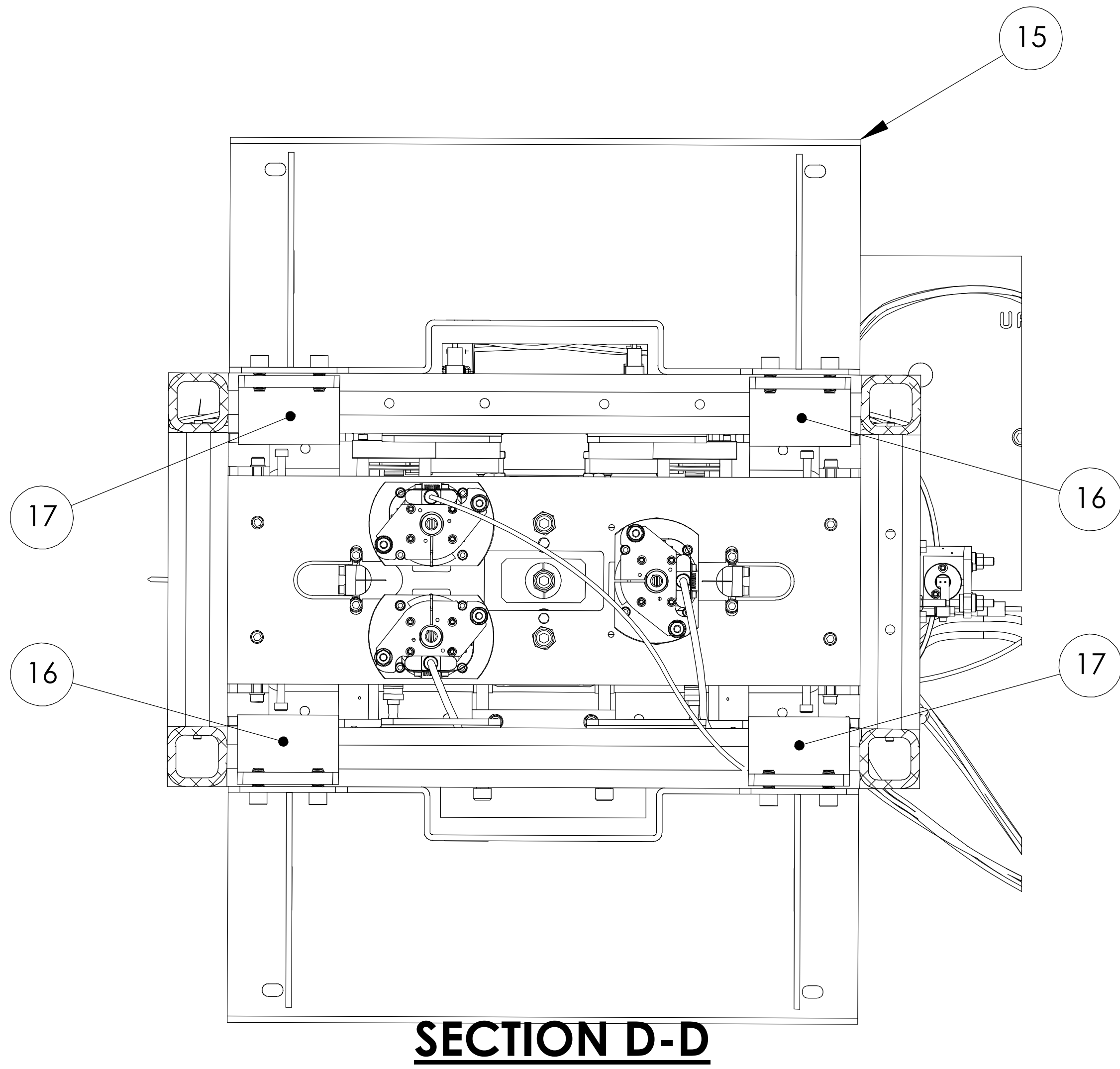
CABLE ASSEMBLY D2100049 - 54"

ROUTE NO 4
SEE T1200318 FOR STEP BY STEP CABLING GUIDE



CABLE ASSEMBLY D2100050 - 54"

HSTS FC2 STRUCTURE TRANSPORTATION



PARTS LIST				
ITEM NO.	PART NUMBER	DESCRIPTION	MATERIAL	REQ
12	D1102299	HSTS OPTICS CAP - BACK SIDE	PET	1
13	D1101143	HSTS OPTICS CAP.SLDPRT	PET	1
14	D1102308	HSTS OPTIC FACE SHIELD	5052-H32	1
15	D1001788	HSTS BRACKET, HAM STRUCTURE LIFT	304 SSSL	2
16	D1101496	HSTS BRACKET CLAMP, HAM STRUCTURE LIFT-LH	6061-T6 Al	2
17	D1101495	HSTS BRACKET CLAMP, HAM STRUCTURE LIFT-RH	6061-T6 Al	2
18	92200A537	SOCKET HEAD CAP SCREW, .25-20 UNC X .50 LG, (MS 16995-48 OR EQUIV)	300 SSSL	8



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SIZE
E

DWG. NO.
D1900312

REV.
v1

SCALE: 1:5

PROJECTION:

SHEET 9 OF 9