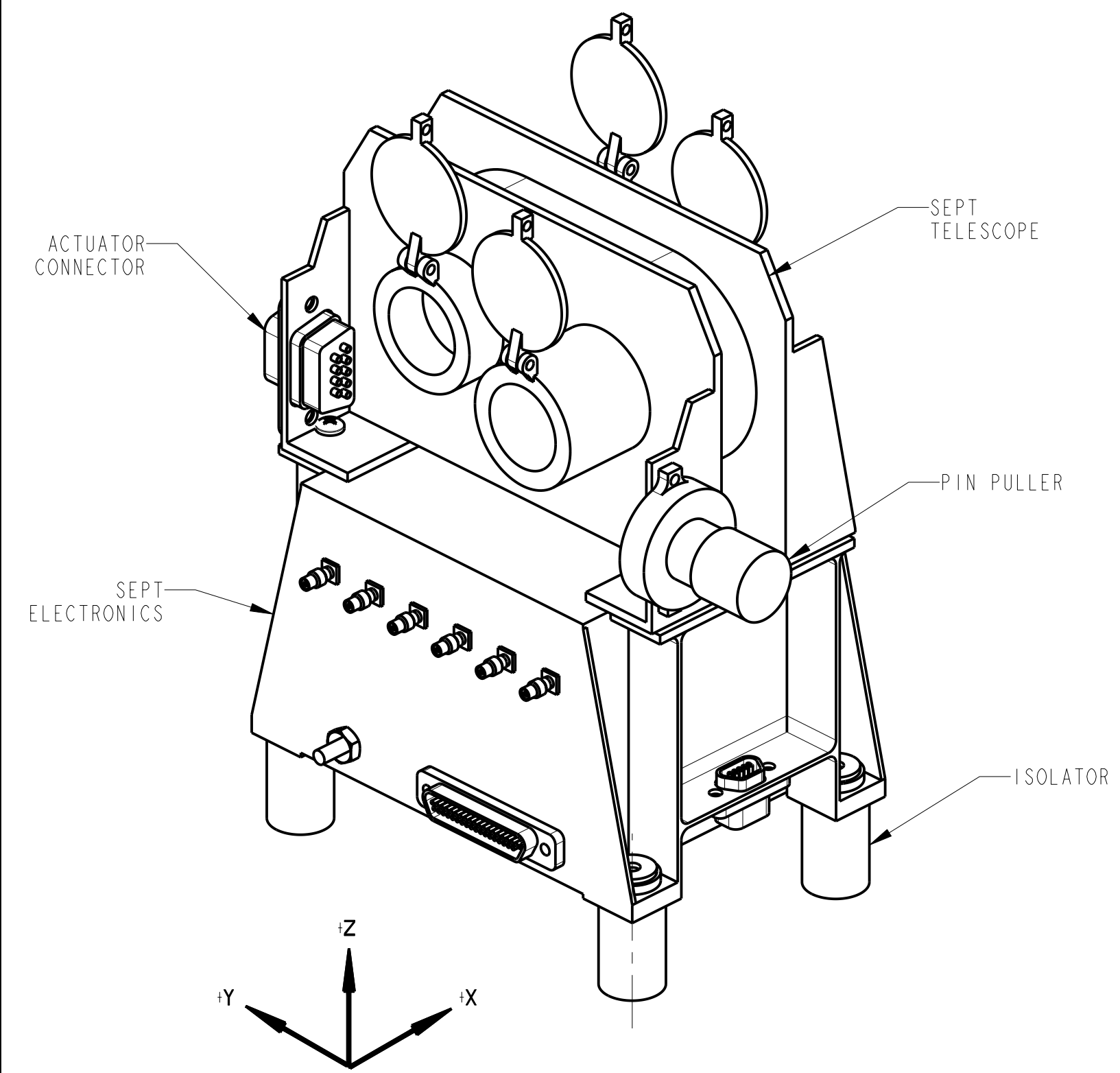
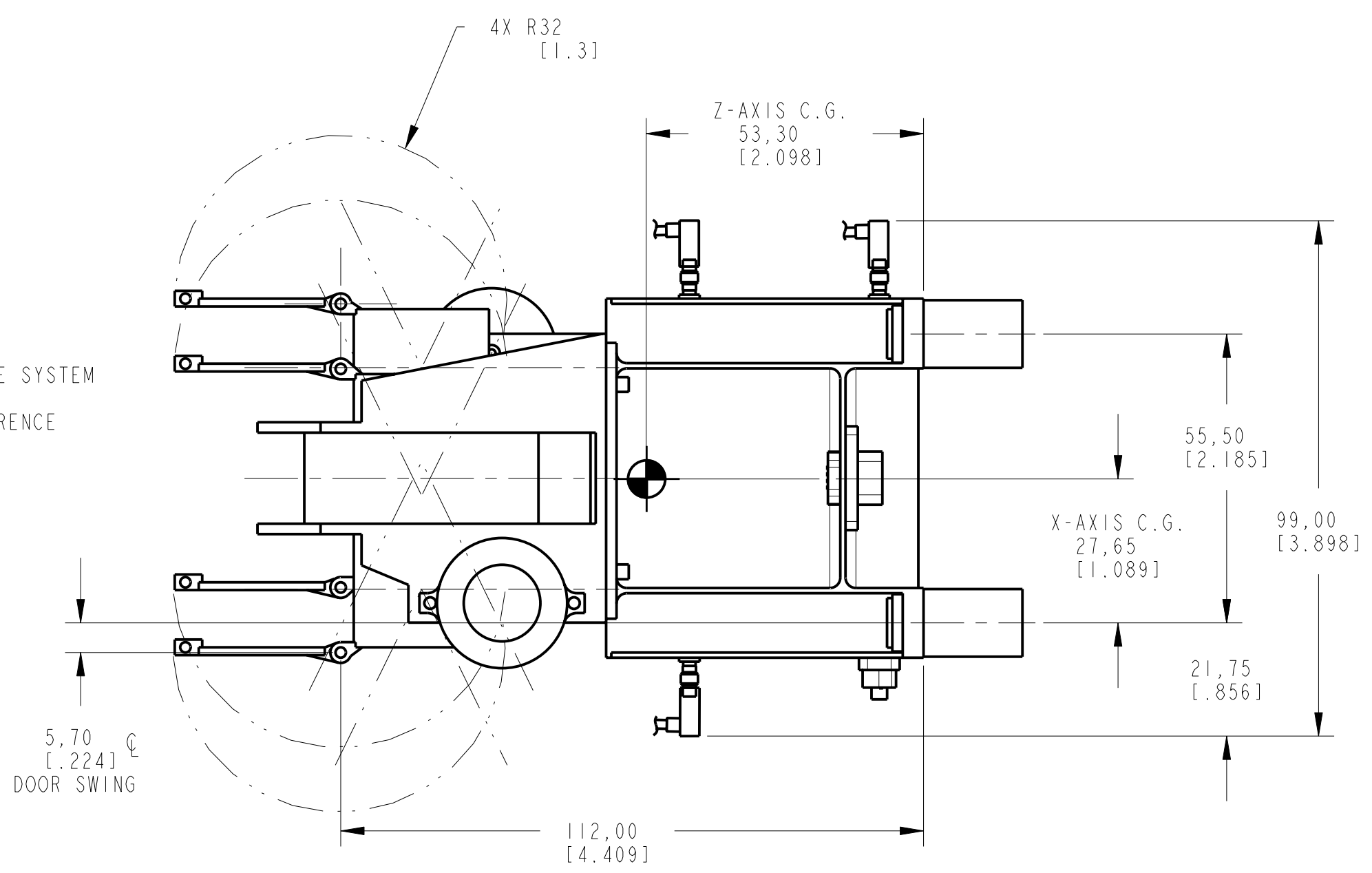
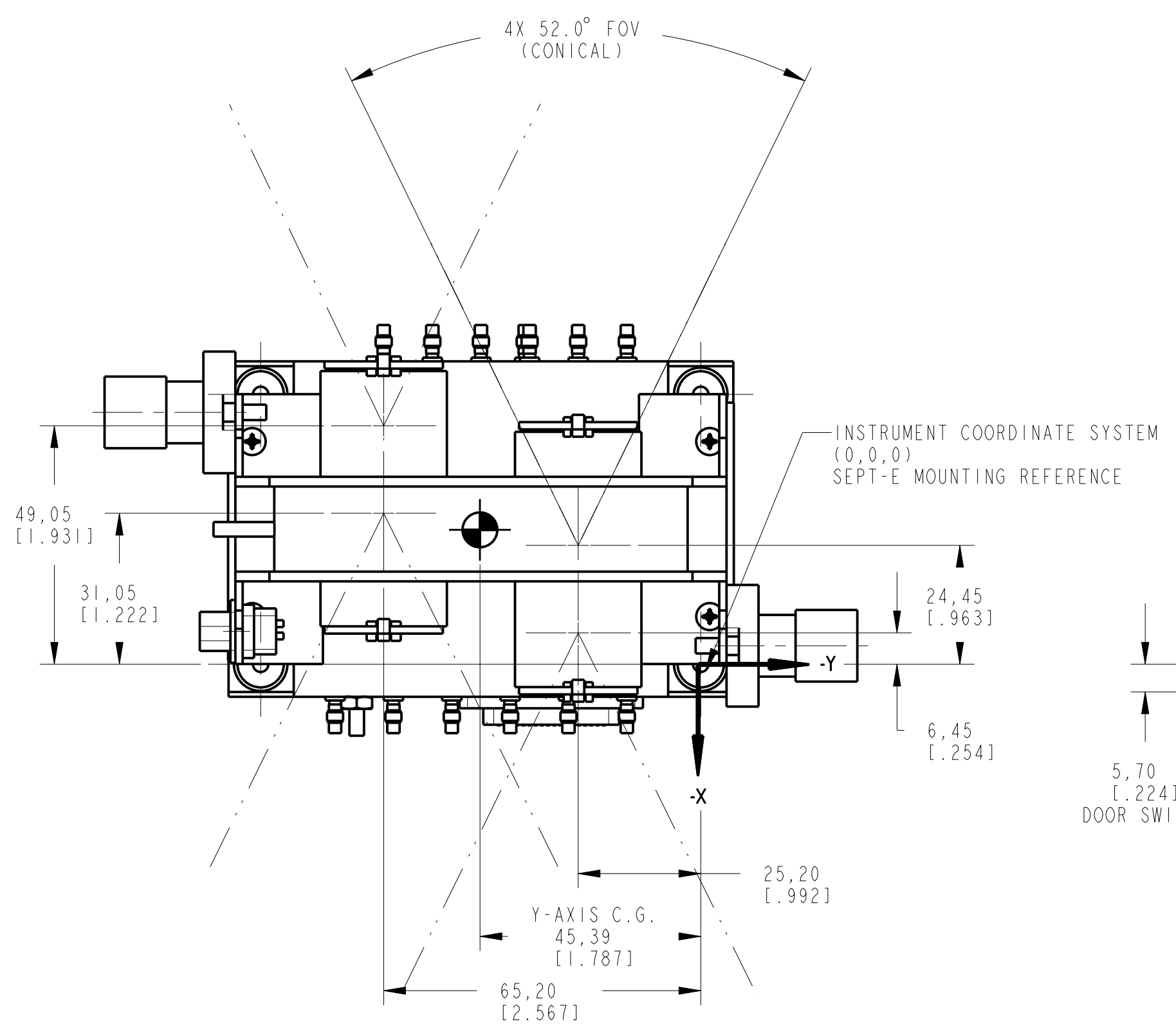


REVISION				
SYM	ZONE	DESCRIPTION	DATE	APPROVAL
A	-	REVISED MASS PROPERTIES; REMOVED ALL SPACECRAFT REFERENCES AND SHT 3.	11/27/02	-

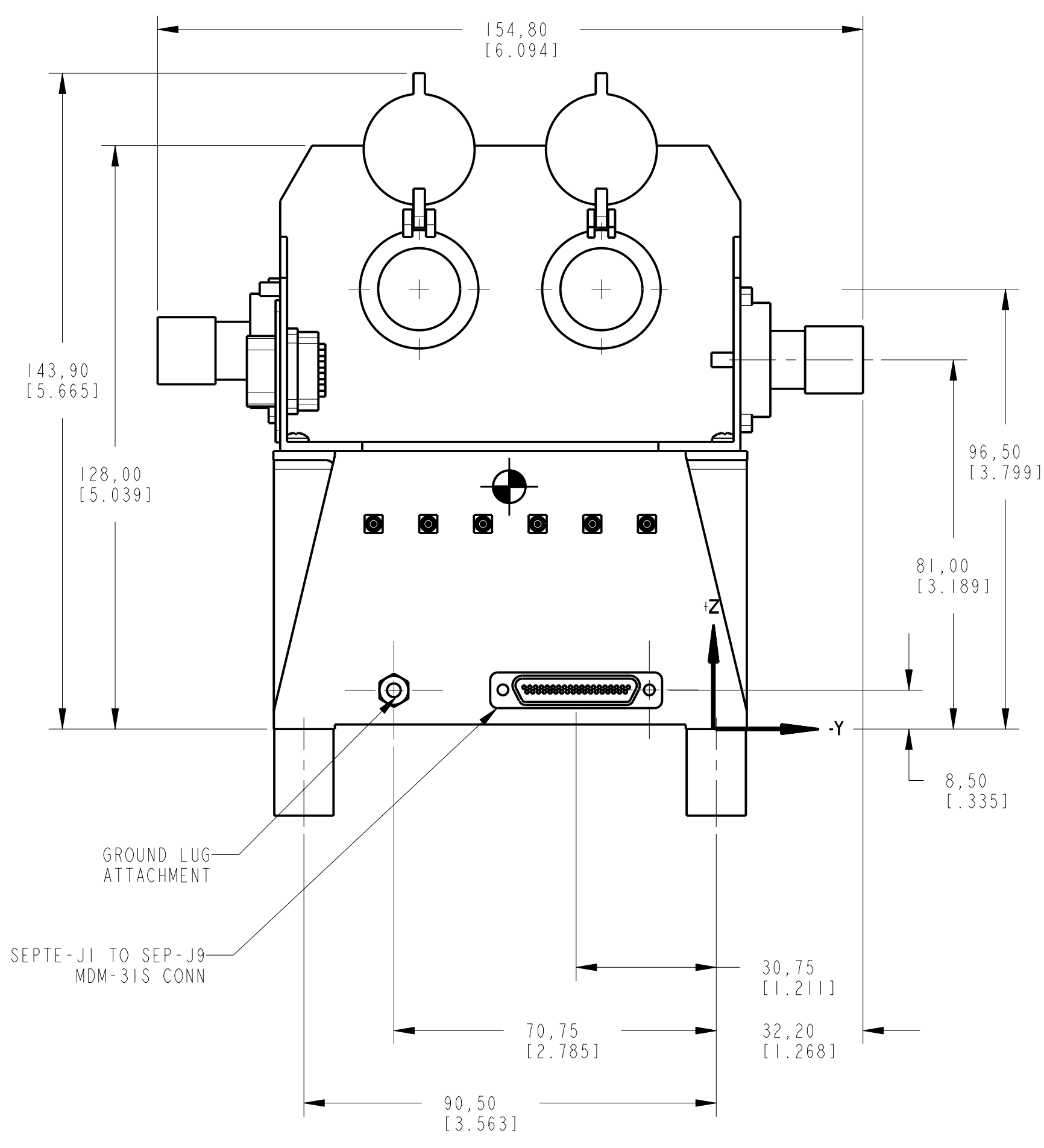
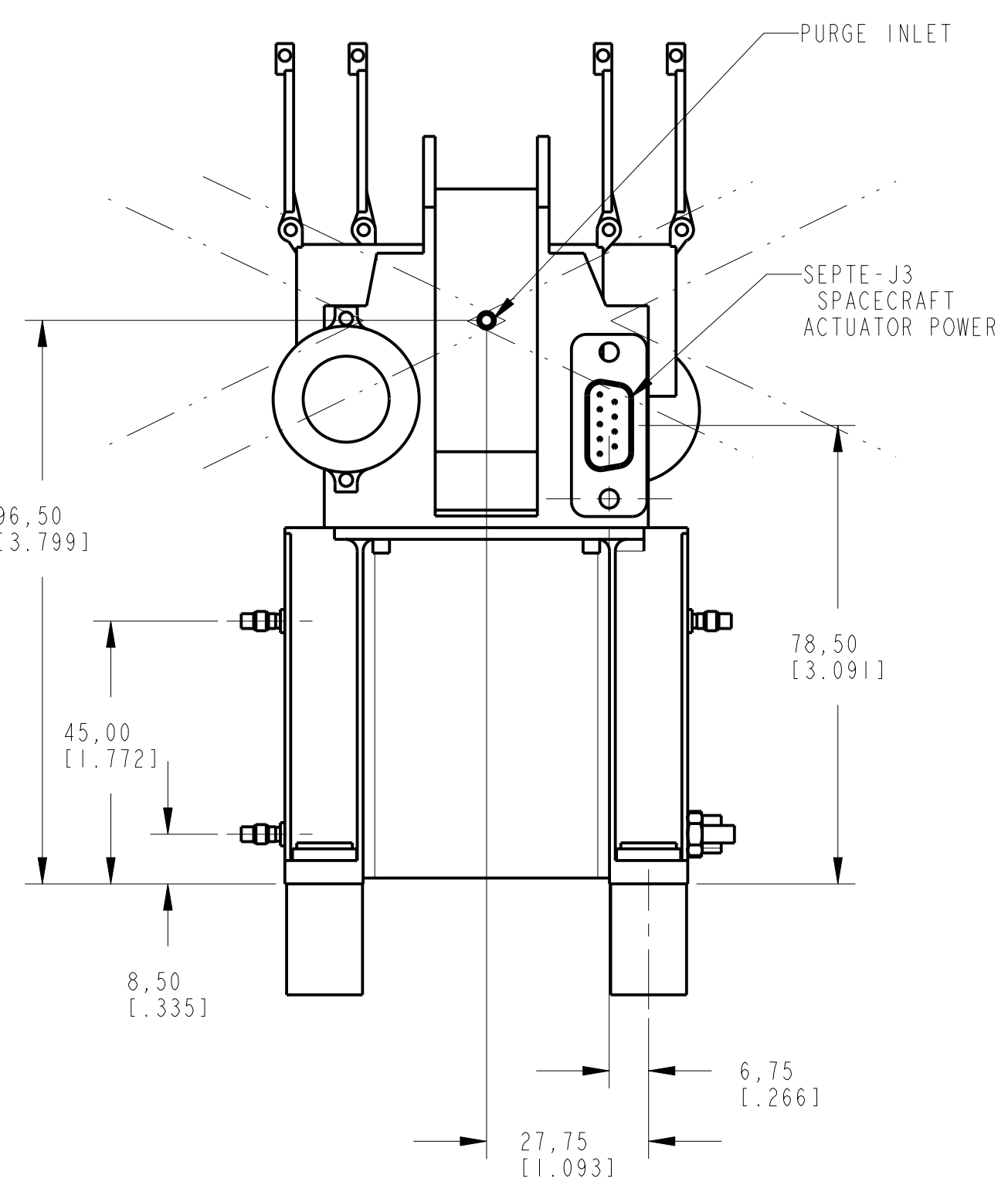


SEPT-E ASSEMBLY



NOTES: UNLESS OTHERWISE NOTED

- ALL DIMENSIONS ARE SHOWN AS MILLIMETERS [INCHES].
- CALCULATED EXPERIMENT MASS = 6.6599729e+02 GRAM
- CALCULATIONS FOR MASS PROPERTIES OS SEPT-E ONLY: (SEE SHEET2 FOR PROPERTIES OF SEPT-NS)  
 CENTER OF GRAVITY W/ RESPECT TO INSTRUMENT COORDINATE SYSTEM:  
 X Y Z 2.7654536e+01 4.5388533e+01 5.3301401e+01 MM  
 INERTIA W/ RESPECT TO INSTRUMENT COORDINATE SYSTEM : (GRAM \* MM^2)  
 INERTIA TENSOR:  
 Ixx Ixy Ixz 4.8883733e+06 -8.9263617e+05 -9.8120104e+05  
 Iyx Iyy Iyz -8.9263617e+05 3.6380821e+06 -1.6211912e+06  
 Izx Izy Izz -9.8120104e+05 -1.6211912e+06 2.7973730e+06  
 INERTIA at CENTER OF GRAVITY W/ RESPECT TO INSTRUMENT COORDINATE SYSTEM: (GRAM \* MM^2)  
 INERTIA TENSOR:  
 Ixx Ixy Ixz 1.6242151e+06 -5.6677154e+04 4.9596288e+02  
 Iyx Iyy Iyz -5.6677154e+04 1.2366205e+06 -9.9623532e+03  
 Izx Izy Izz 4.9596288e+02 -9.9623532e+03 9.1600243e+05  
 PRINCIPAL MOMENTS OF INERTIA: (GRAM \* MM^2)  
 I1 I2 I3 9.1569089e+05 1.2288093e+06 1.6323380e+06  
 NOTE: THESE ARE INSTRUMENT COORDINATES, NOT S/C COORDINATES.
- INSTRUMENT WILL BE MOUNTED TO SPACECRAFT ON THERMALLY ISOLATING ULTEM BUSHINGS AND HELD TO SPACECRAFT PANEL WITH (4) #8-36 TITANIUM FASTENERS FOR THE SEPT-E, AND (4) #10-32 TITANIUM FASTENERS FOR THE BRACKET MOUNTED SEPT-NS (SHOWN ON SHEET 2). TORQUE TO TBD.
- INSTRUMENTS FIELDS OF VIEW ARE TO BE KEPT CLEAR FROM OBSTRUCTIONS WITHOUT PRIOR CONSENT FROM THE INSTRUMENT TEAM.
- PURGE CONNECTOR, TBD, WILL ACCEPT 1/4" TUBE OUTSIDE DIAMETER WITH .19" MIN OPENING.

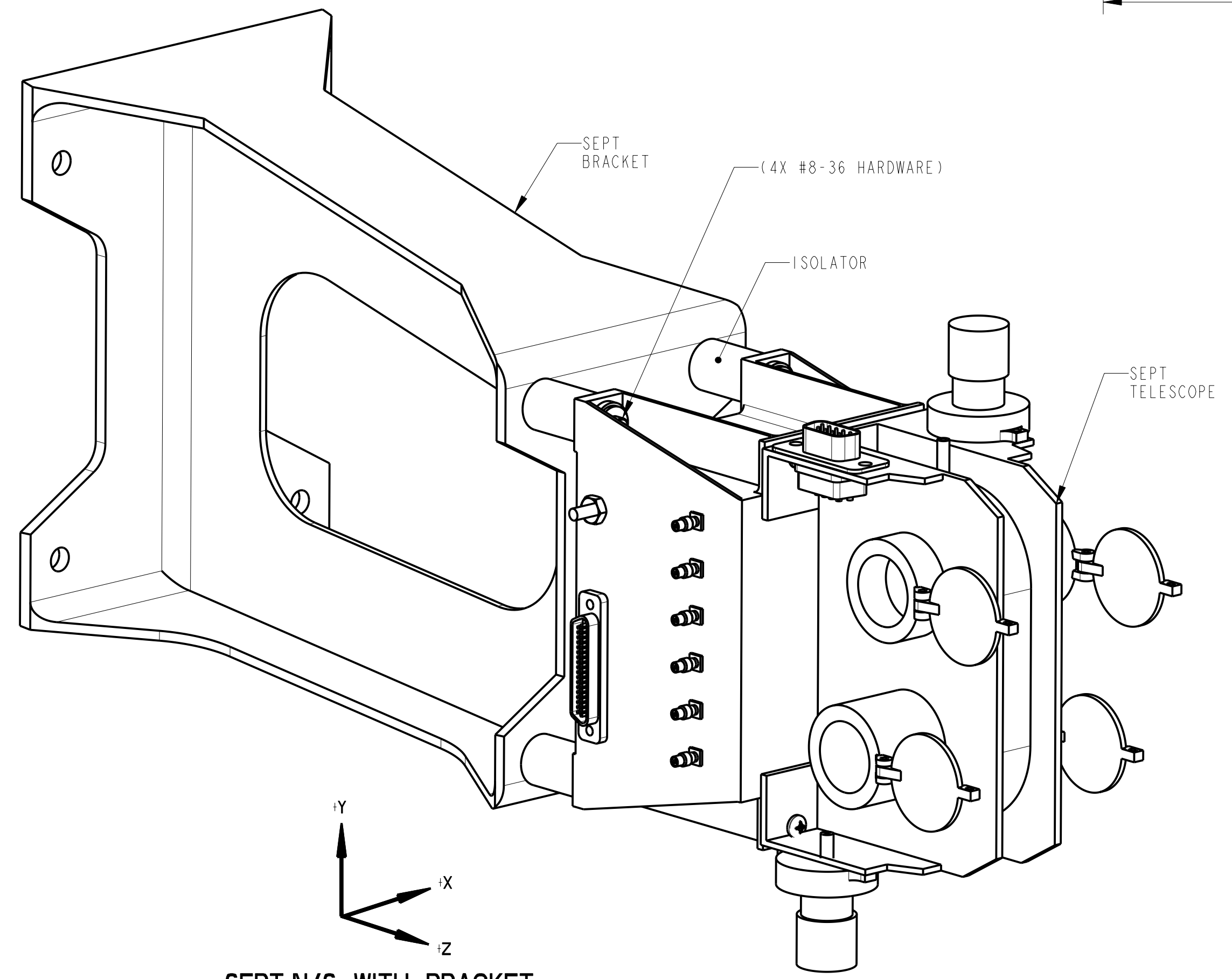
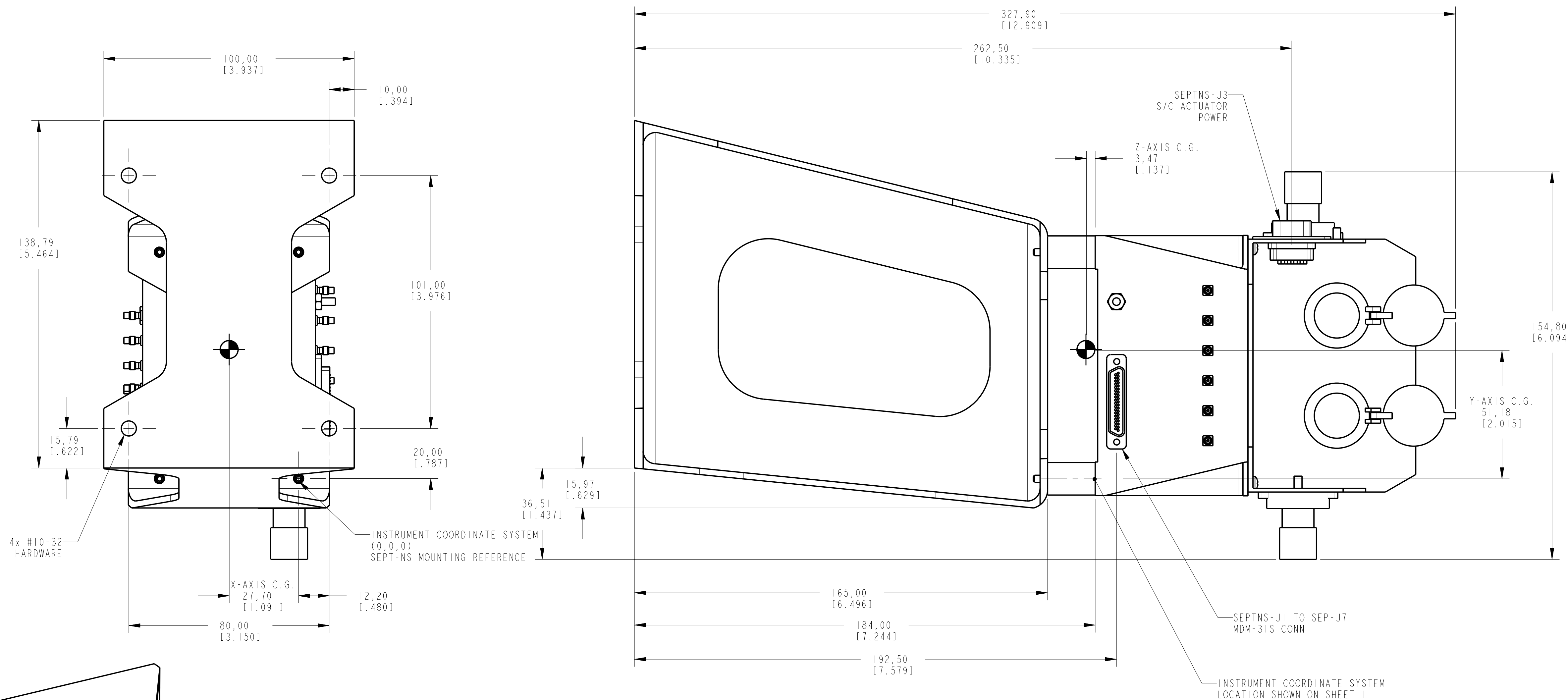


ITEM NO.	REQD	REQD	PART NO.	DESCRIPTION	MATERIAL	MATERIAL SPEC & NO.
LIST OF MATERIAL						
TOLERANCES: .XX .XXX ≤ FRACTIONS ±0.10 ±0.05 ±0.1 ±1/16						
Goddard Space Flight Center Greenbelt, Maryland						
DRAWING INTERPRETED PER GSFC-4673-64-1						
DESIGNER SHUMAN						
DRAWN SHUMAN						
CHECKED Y. ROSEVINGE						
APPROVED						
APPROVED-STRESS						
APPROVED-ENGINEER						
THIS DRAWING WAS PRODUCED USING				STEREO S/C		
SOFTWARE: Pro/ENGINEER VERSION: 2001				FILE NAME: 2053420		
MODEL NAME: SEPT-E-DELIVERABLE				NEXT ASSEMBLY USED ON		
GD		2053420		A		A
CODE: 663		SCALE: 1.00		WEIGHT:		SHEET: 1 OF 2

GD2053420

FOLD LINE

REVISION				
SYM	ZONE	DESCRIPTION	DATE	APPROVAL
-	-	-	-	-



SEPT-N/S WITH BRACKET

**SEPT-N/S MASS PROPERTY INFORMATION**

FOR ALL OTHER NOTES SEE SHEET 1.

CALCULATED INSTRUMENT MASS FOR SEPT W/ BRKT = 1.0060968e+03 GRAM

CALCULATED MASS PROPERTIES FOR SEPT-NS (W/ BRKT):

CENTER OF GRAVITY W/ RESPECT TO INSTRUMENT COORDINATE SYSTEM:  
 X Y Z 2.7702253e+01 5.1184160e+01 -3.4722379e+00 MM

INERTIA W/ RESPECT TO INSTRUMENT COORDINATE SYSTEM: (GRAM \* MM^2)

INERTIA TENSOR:  
 Ixx Ixy Ixz 1.3016871e+07 -1.4838086e+06 1.0276678e+05  
 Iyx Iyy Iyz -1.4838086e+06 9.9316771e+06 1.0769724e+06  
 Izx Izy Izz 1.0276678e+05 1.0769724e+06 5.3750322e+06

INERTIA at CENTER OF GRAVITY W/ RESPECT TO INSTRUMENT COORDINATE SYSTEM: (GRAM \* MM^2)

INERTIA TENSOR:  
 Ixx Ixy Ixz 1.0368950e+07 -5.7247284e+04 5.9915253e+03  
 Iyx Iyy Iyz -5.7247284e+04 9.1474536e+06 8.9816530e+05  
 Izx Izy Izz 5.9915253e+03 8.9816530e+05 1.9671479e+06

PRINCIPAL MOMENTS OF INERTIA: (GRAM \* MM^2)  
 I1 I2 I3 1.8564841e+06 9.2552733e+06 1.0371794e+07

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION			Goddard Space Flight Center		Greenbelt, Maryland
NAME	INIT.	DATE	DRAWING INTERPRETED PER GSFC-4673-64-1		
DESIGNER	SHUMAN		TITLE		
DRAWN	SHUMAN		<b>INTERFACE CONTROL DRAWING          SEP/SEPT INSTRUMENTS          STEREO SPACECRAFT</b>		
CHECKED	VONROSEVINGE				
APPROVED					
APPROVED					
APPROVED-STRESS					
APPROVED-ENGINEER			GD	2053420	A
CODE: 663			SCALE: 1.000	SHEET: 2 OF 2	

PLOT DATE: 13-Dec-02

GD2053420