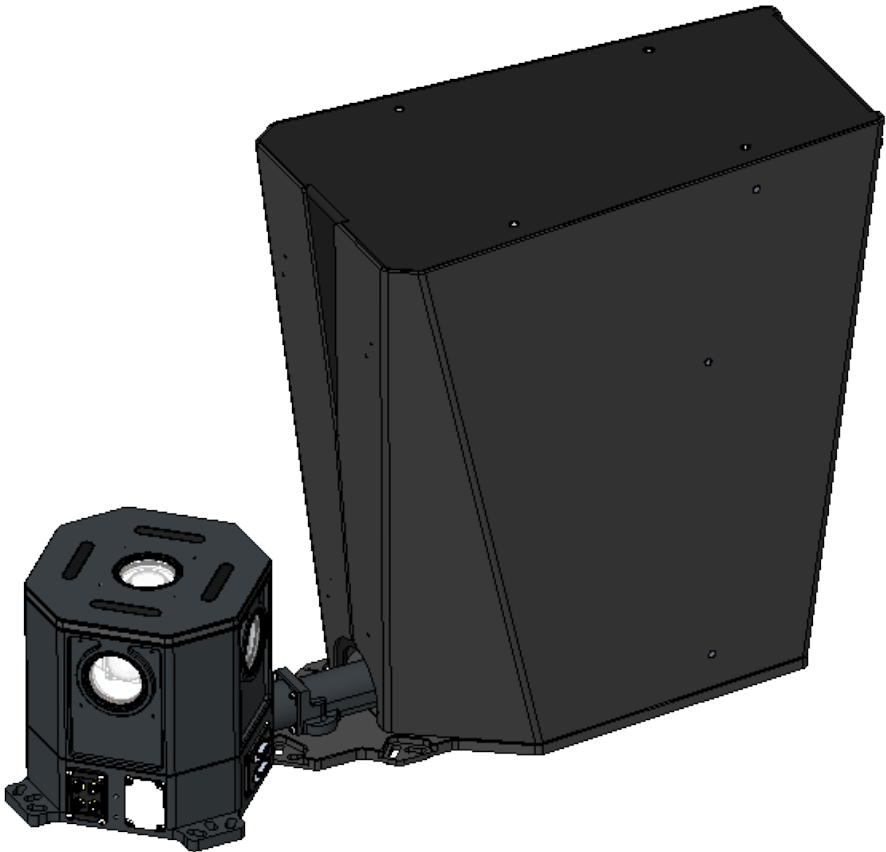
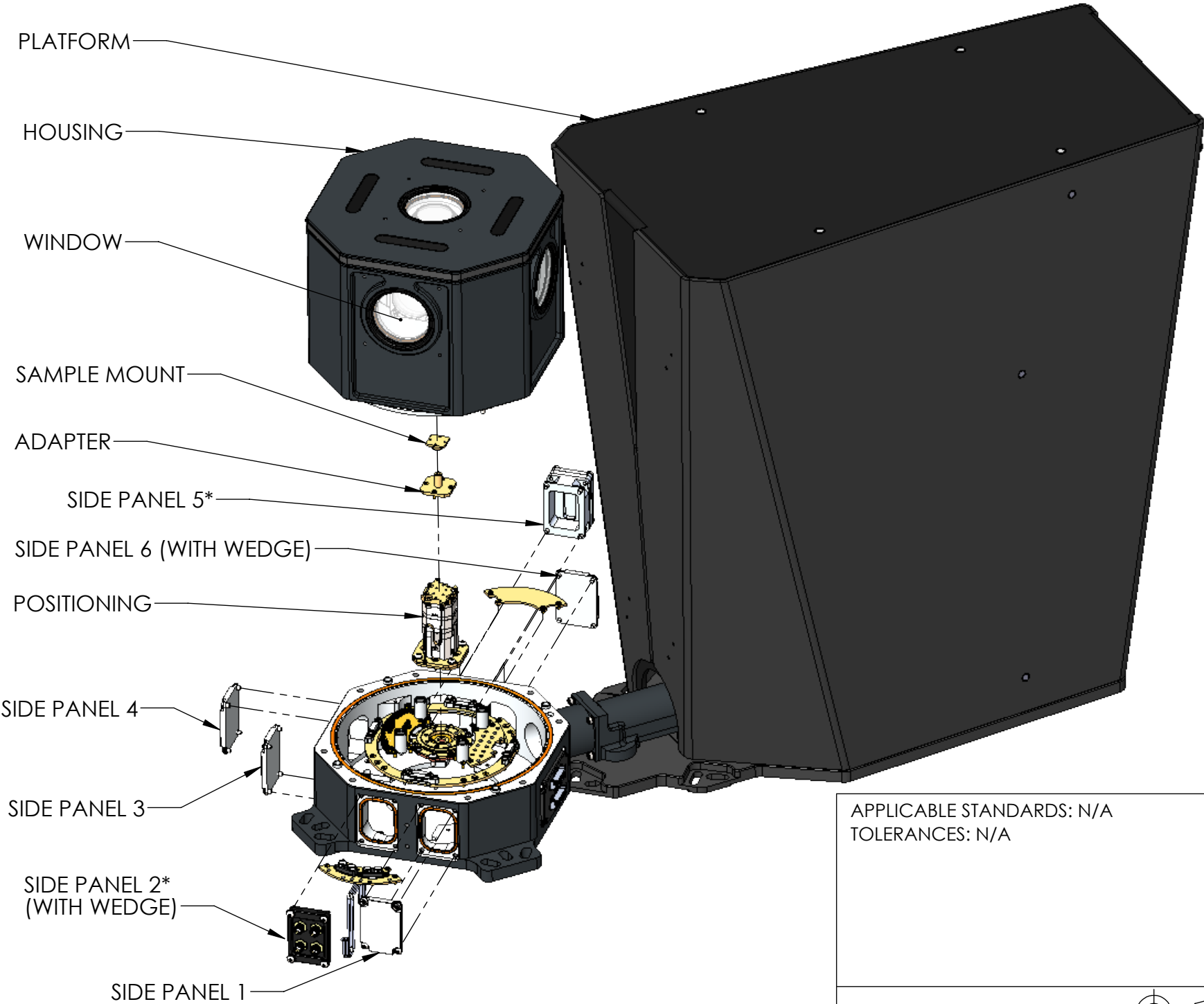


REVISION TABLE			
REV.	DESCRIPTION	APPROVED	DATE
H	10MM ROOK POSITIONERS ADDED	ECO 20240611CC	6/11/2024
I	UNIVERSAL OP. CABLE, GROUNDED COMPONENTS	ECO 20250921CC	9/21/2025

MODULE:	PLATFORM	REGION	HOUSING	POSITIONING	ADAPTER	SAMPLE MOUNT	WINDOW	SIDE PANEL 1	SIDE PANEL 2*	SIDE PANEL 3	SIDE PANEL 4	SIDE PANEL 5*	SIDE PANEL 6
PART NUMBER:	CA100	-__	-H__	-P__	-A__	-M__	-W__	-N__	-E__	-N__	-N__	-N__	-N/E__

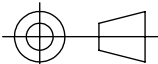
B



EXAMPLE CONFIGURED CRYOSTATION

A

* NOT CUSTOMER CONFIGURABLE

APPLICABLE STANDARDS: N/A TOLERANCES: N/A		APPROVALS		NAME	DATE	MONTANA INSTRUMENTS BOZEMAN, MT		
		DRAFTER		JOHN C.	12/8/2021			
		CHECKER		MATT B.	12/8/2021	TITLE CRYOADVANCE 100 CONFIGURATION DRAWING		
		ENGINEER		JOHN C.	12/8/2021			
		MATERIAL: N/A						
THIRD ANGLE PROJECTION 		FINISH: N/A			SIZE B	DWG NO. !CA100 SYSTEM		REV I
		SURFACE AREA: N/A						
		DO NOT SCALE DWG			SCALE 1:4		WEIGHT: N/A	
THE INFORMATION AND DESIGNS CONTAINED IN THIS DRAWING ARE CONFIDENTIAL AND THE PROPRIETARY PROPERTY OF MONTANA INSTRUMENTS AND CANNOT BE SHARED OR REPRODUCED WITHOUT PRIOR WRITTEN PERMISSION OF MONTANA INSTRUMENTS.								

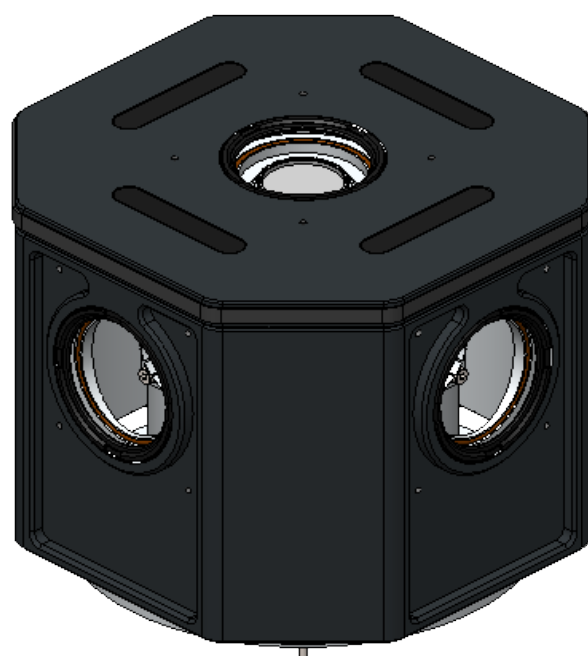
4

3

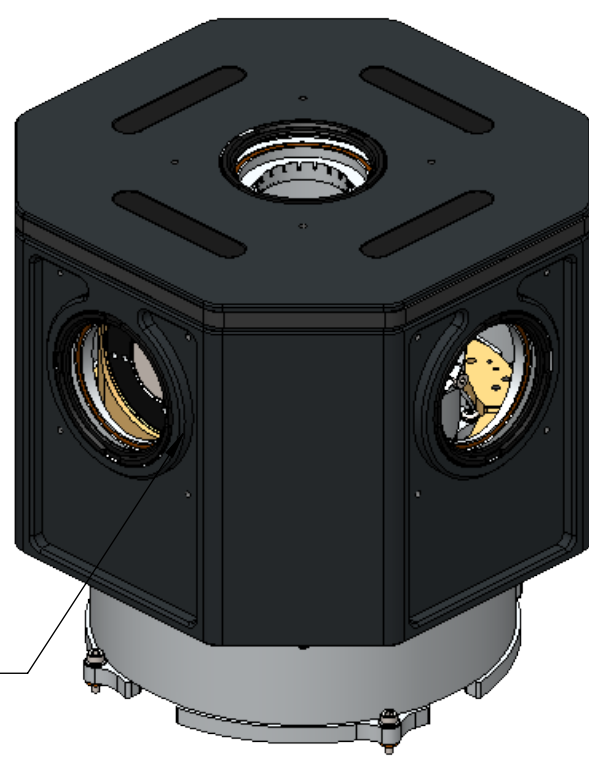
2

1

B

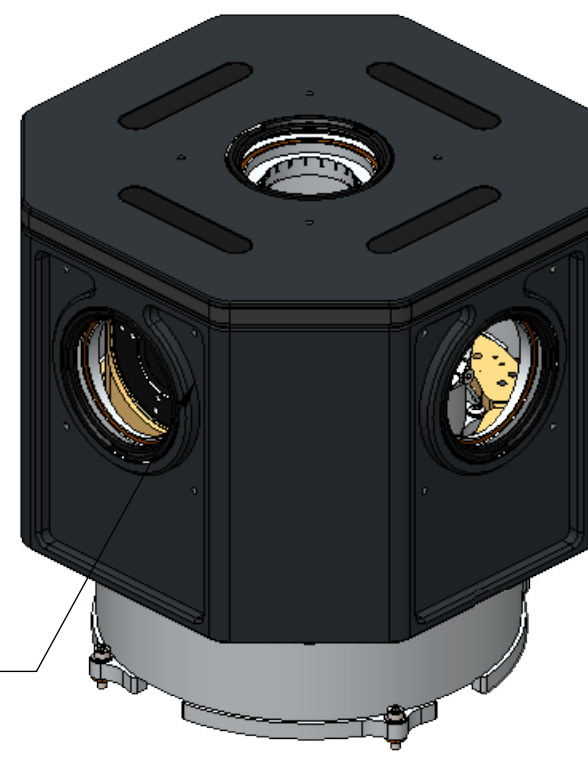


-H05
116MM HOUSING
4410-565-01



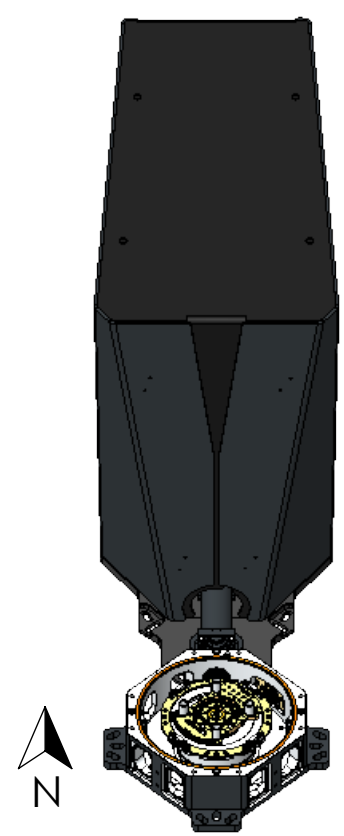
CRYO-
OPTIC

-H06
CRYO-OPTIC 0.90NA HOUSING
4410-565-28



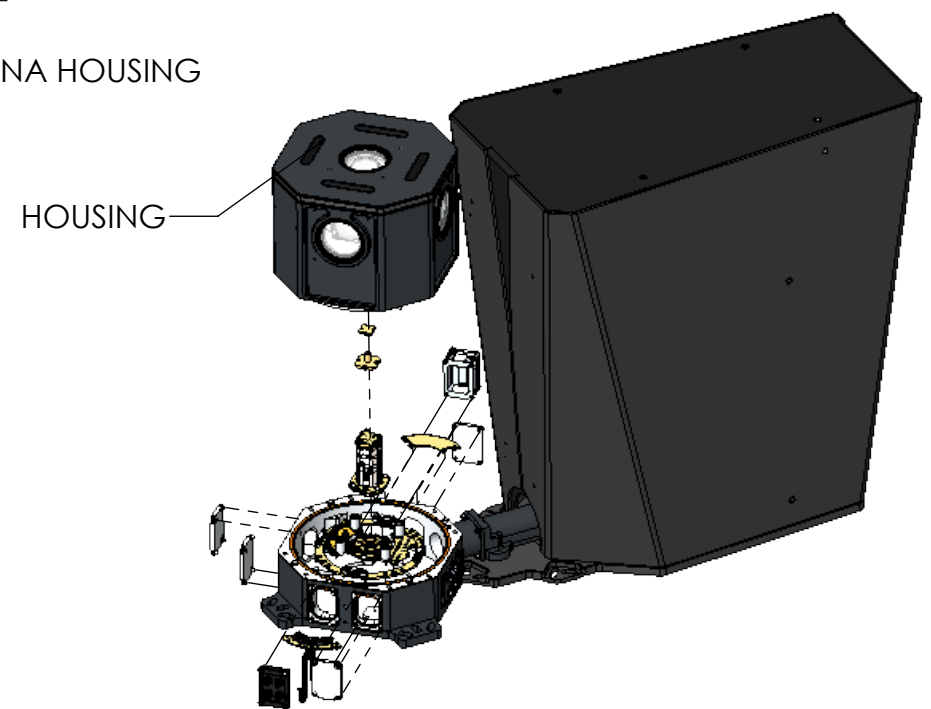
CRYO-
OPTIC

-H07
CRYO-OPTIC 0.75NA HOUSING
4410-565-29



ORIENTATION
REFERENCE FOR
INSTALLATION

A



HOUSING

B

A

HOUSING (-H__)

SIZE B	DWG NO	!CA100 SYSTEM	REV I
SCALE 1:2.5	SHEET 2 OF 10		

4

3

2

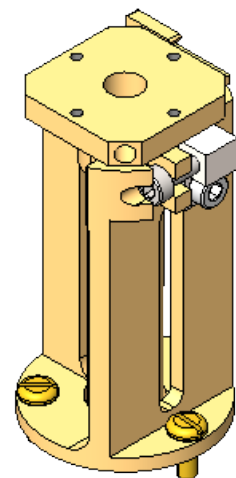
1

4

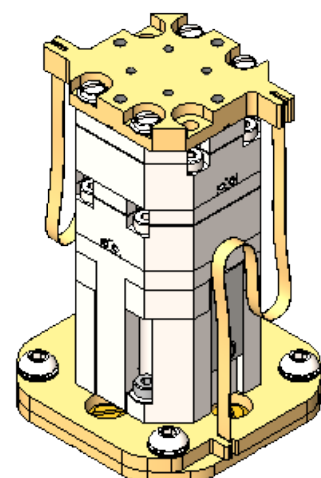
3

2

1

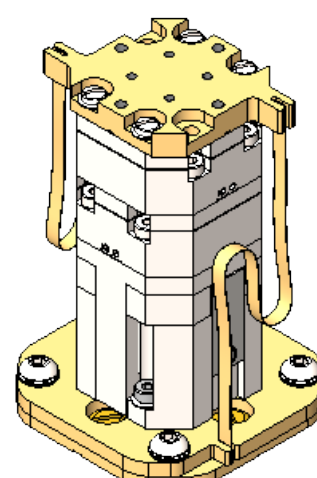


-P01
MANUAL POSITIONER
4400-580-01



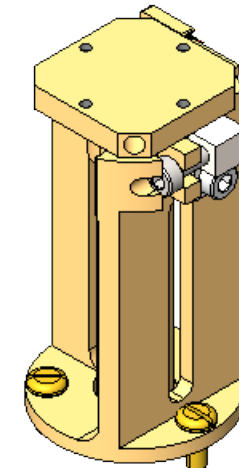
-P11
OPEN LOOP XYZ POSITIONERS
4400-580-11

ROUTE INTERNAL CABLE (NOT SHOWN) TO MICRO-D 25 PORT SIDE PANEL



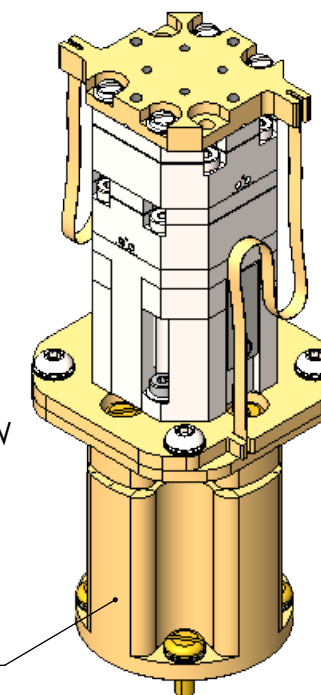
-P12/-P13
CLOSED LOOP XYZ POSITIONERS
4400-580-12 (-P13 IS NON-RACK MOUNT VERSION 4400-580-13)

ROUTE CABLE (NOT SHOWN) TO MICRO-D 25 PORT SIDE PANEL



-P04
DAMPED MANUAL POSITIONER
4400-580-05

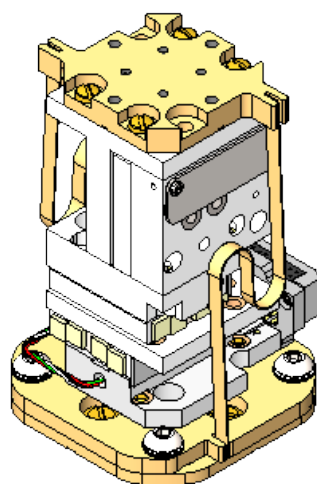
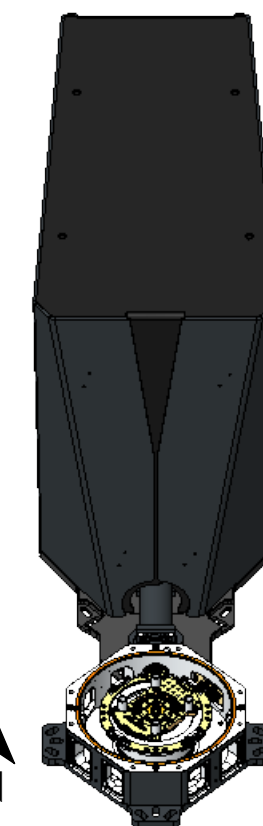
SHOWN WITH INCLUDED SPACER FOR TOP WINDOW APPLICATIONS.



4100-2253

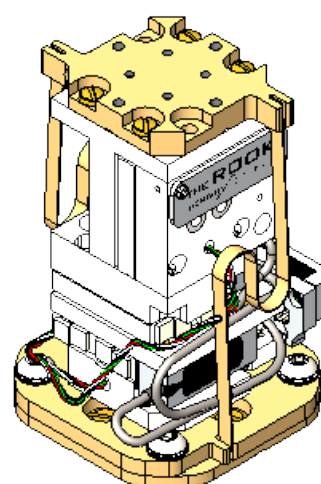


ORIENTATION
REFERENCE FOR
INSTALLATION



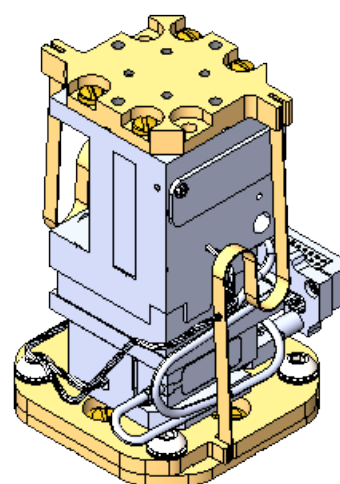
-P14
THE ROOK - OPEN LOOP XYZ
POSITIONERS
4400-580-14

ROUTE INTERNAL CABLE (NOT SHOWN) TO MICRO-D 25 PORT SIDE PANEL



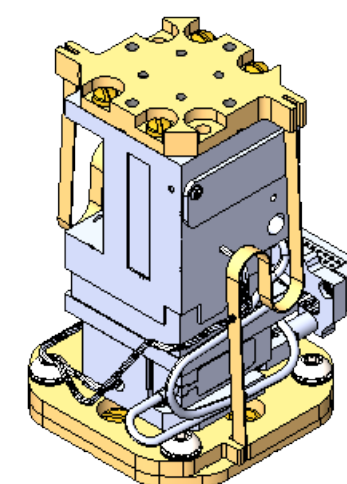
-P19
THE ROOK - CLOSED LOOP
XYZ POSITIONERS
4400-580-19

ROUTE INTERNAL CABLE (NOT SHOWN) TO MICRO-D 25 PORT SIDE PANEL



-P27
THE ROOK - OPEN LOOP XYZ
POSITIONERS - 10X10X5MM
4400-580-27

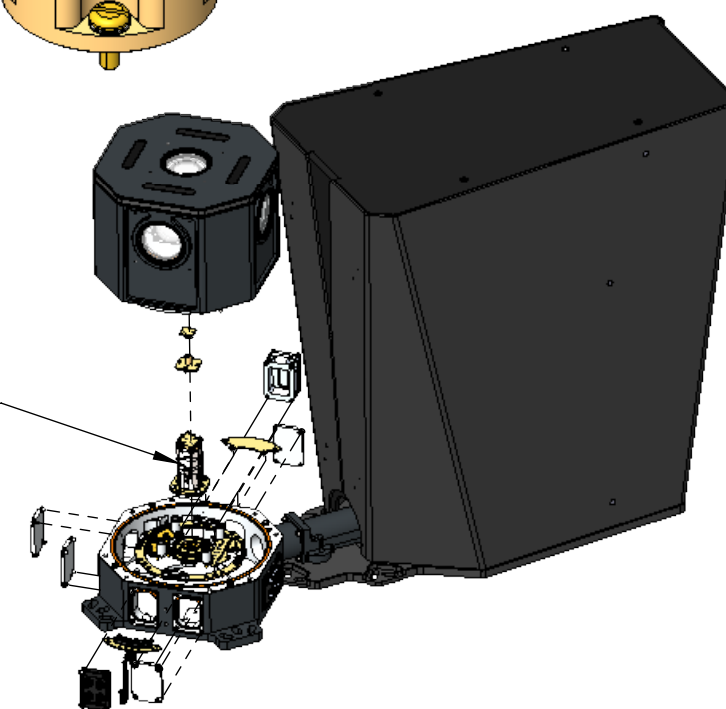
ROUTE INTERNAL CABLE (NOT SHOWN) TO MICRO-D 25 PORT SIDE PANEL



-P28
THE ROOK - CLOSED LOOP XYZ
POSITIONERS - 10X10X5MM
4400-580-28

ROUTE INTERNAL CABLE (NOT SHOWN) TO MICRO-D 25 PORT SIDE PANEL

POSITIONER



POSITIONING (-P__)

SIZE B	DWG NO	!CA100 SYSTEM	REV I
SCALE 1:1	SHEET 3 OF 10		

4

3

2

1

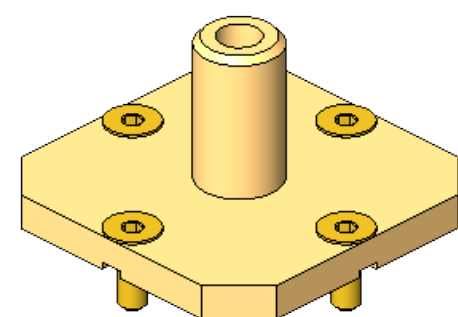
4

3

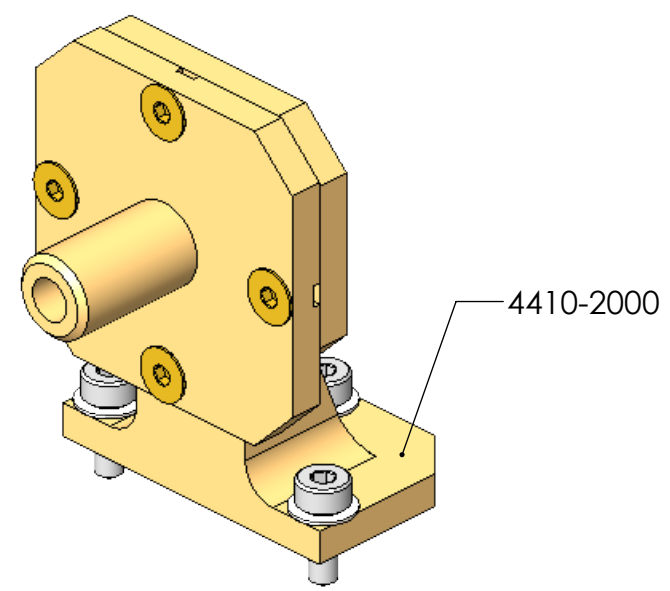
2

1

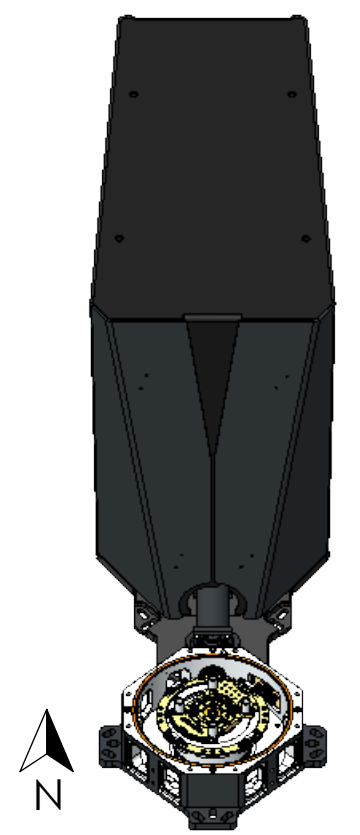
B



-A01
EXCHANGE BOSS ADAPTER
4400-585-01

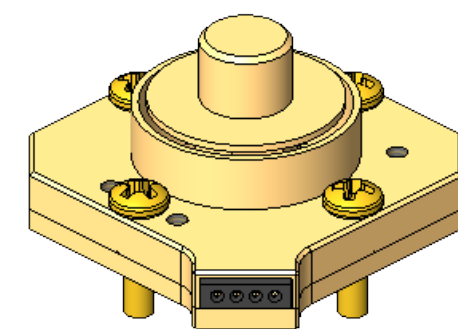


WITH INCLUDED RIGHT ANGLE
ADAPTER. NOT CONFIGURED AT
THE FACTORY.

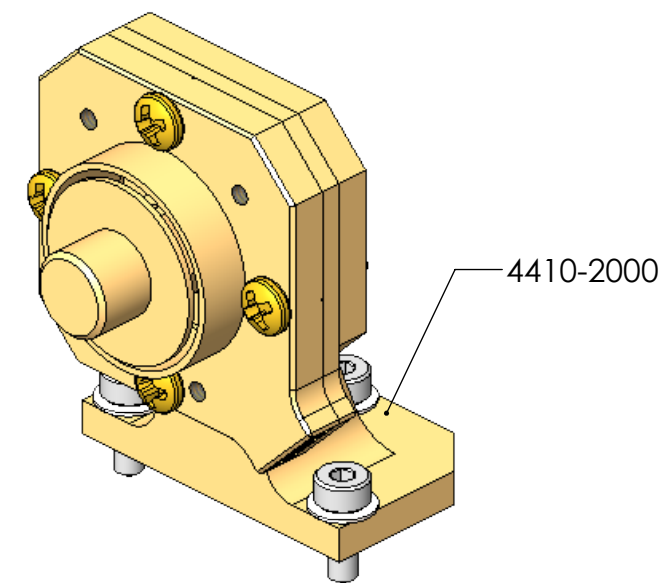


ORIENTATION
REFERENCE FOR
INSTALLATION

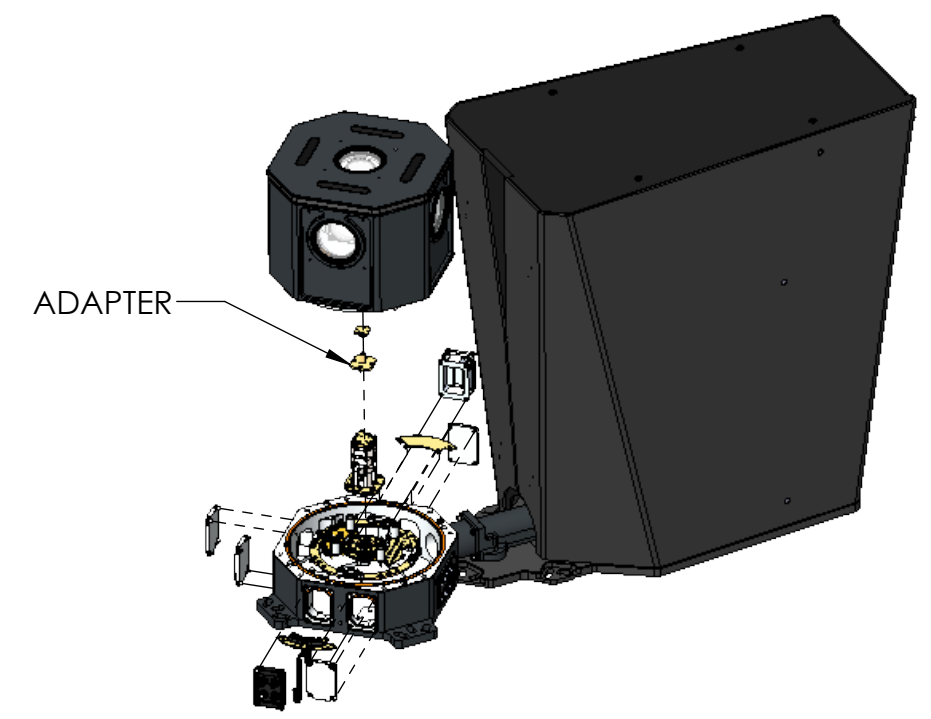
A



-A02
ATSM EXCHANGE BOSS ADAPTER
4400-585-02



WITH INCLUDED RIGHT ANGLE
ADAPTER. NOT CONFIGURED AT
THE FACTORY.



ADAPTER (-A__)

SIZE B	DWG NO I	!CA100 SYSTEM	REV I
SCALE 2:1	SHEET 4 OF 10		

4

3

2

1

B

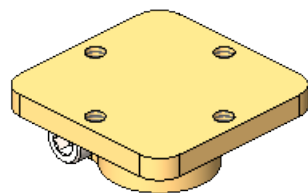
A

4

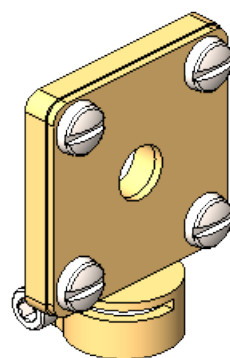
3

2

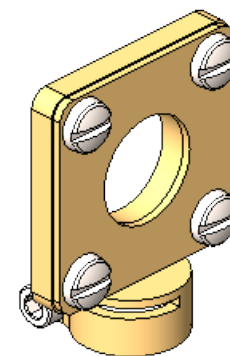
1



-M01
FLAT PLATE SAMPLE MOUNT
4400-588-01



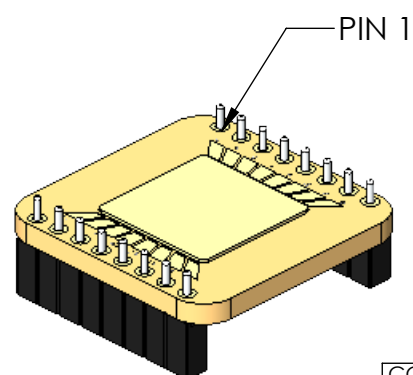
-M02
TRANSMISSION MOUNT, 4mm
4400-588-02



-M03
TRANSMISSION MOUNT, 8mm
4400-588-03

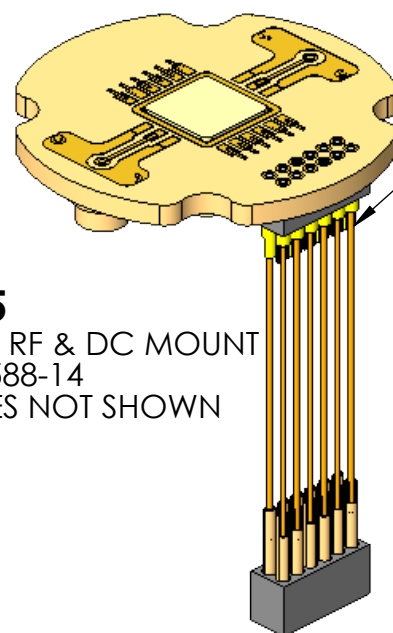


ORIENTATION
REFERENCE FOR
INSTALLATION



-M04
CC16 DC MOUNT
4400-588-04
CABLES NOT SHOWN

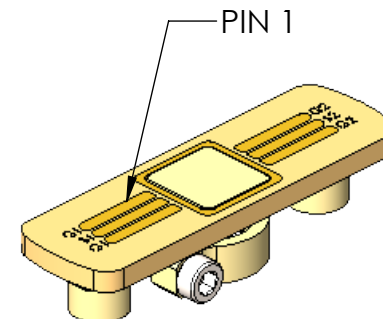
CC16 PIN	PCB PIN
1	DC1-1
2	DC1-2
3	DC1-3
4	DC1-4
5	DC2-1
6	DC2-2
7	DC2-3
8	DC2-4
9	DC3-1
10	DC3-2
11	DC3-3
12	DC3-4
13	DC4-1
14	DC4-2
15	DC4-3
16	DC4-4



-M05
R2D12 RF & DC MOUNT
4400-588-14
CABLES NOT SHOWN

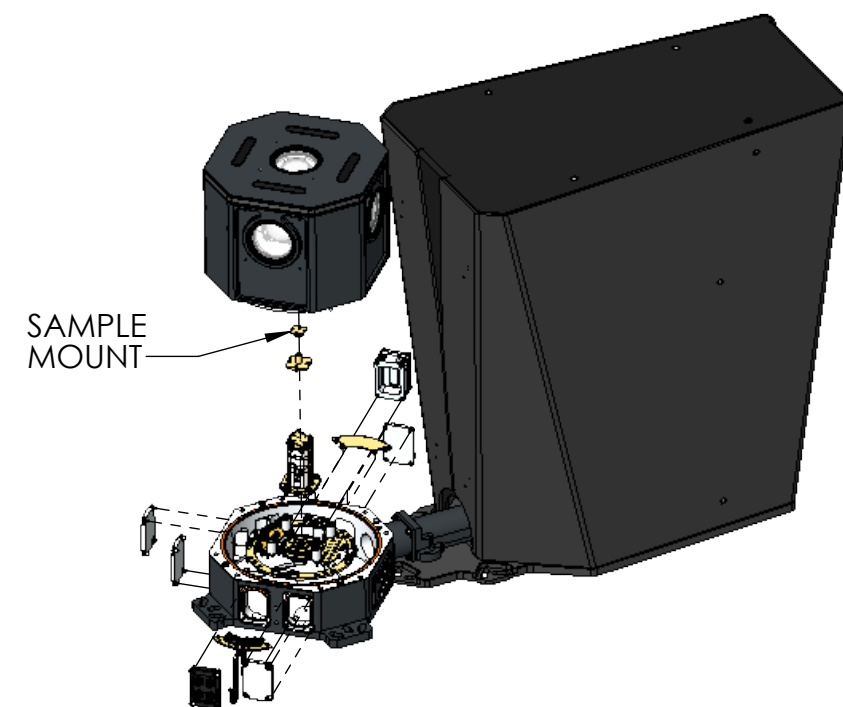
R2D12 PIN	PCB PIN
1	DC1-1
2	DC1-2
3	DC1-3
4	DC1-4
5	DC1-5
6	DC2-1
7	DC2-2
8	DC2-3
9	DC2-4
10	DC2-5
11	DC3-1
12	DC3-2
J3	SIDE PANEL (P1)
J4	SIDE PANEL (P2)

PIGTAIL
CONNECTOR



-M06
R2 DUAL RF MOUNT
4400-588-15
CABLES NOT SHOWN

R2 PIN	PCB PIN
J1	SIDE PANEL (P1)
J2	SIDE PANEL (P2)



SAMPLE
MOUNT

SAMPLE MOUNT (-M__)

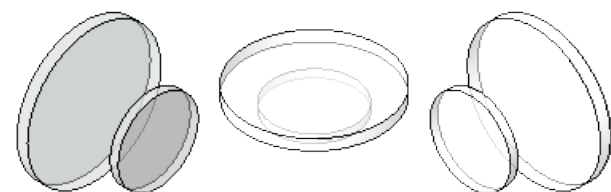
4

3

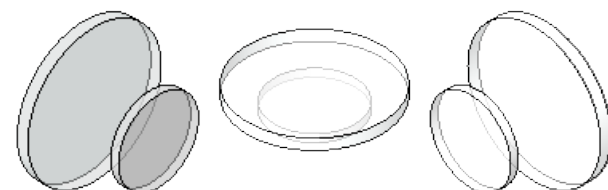
2

1

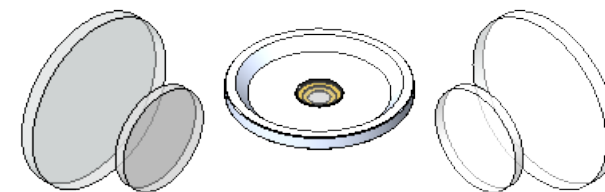
B



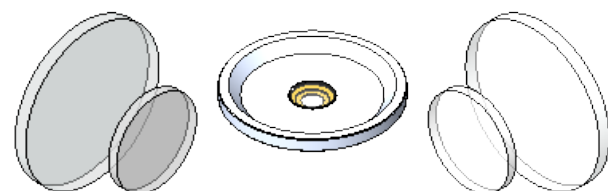
-W00
AR-COATED FUSED SILICA
4400-566-00



-W01
UNCOATED FUSED SILICA
4400-566-01



-W02
TOP LOW WORKING DISTANCE
AR-COATED FUSED SILICA. SHOWN
WITH INCLUDED 4K SPACER TO
ACHIEVE LOWEST WORKING
DISTANCE.
4400-566-04

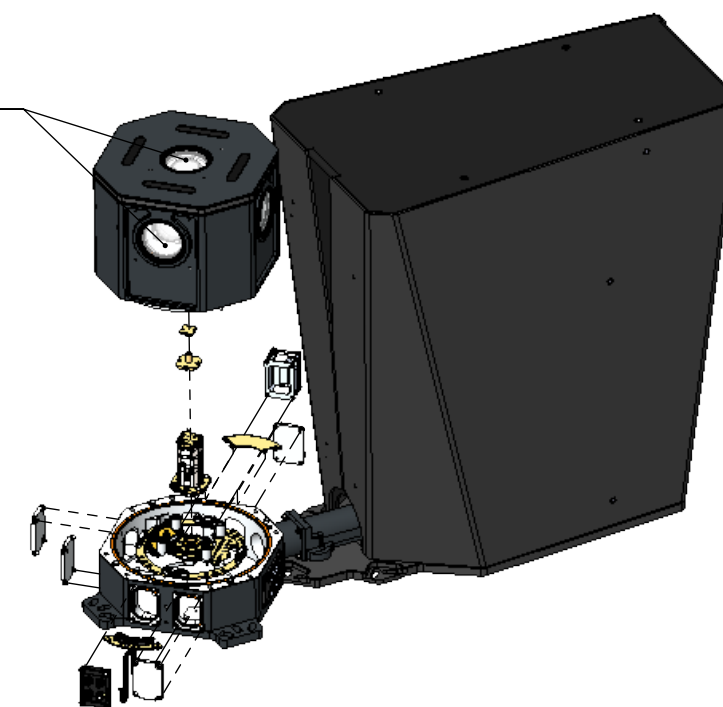


-W03
TOP LOW WORKING DISTANCE
UNCOATED FUSED SILICA. SHOWN WITH
INCLUDED 4K SPACER TO ACHIEVE LOWEST
WORKING DISTANCE.
4400-566-05



ORIENTATION
REFERENCE FOR
INSTALLATION

WINDOWS



WINDOW (-W__)

SIZE B	DWG NO	!CA100 SYSTEM	REV I
SCALE 1:2	SHEET 6 OF 10		

4

3

2

1

B

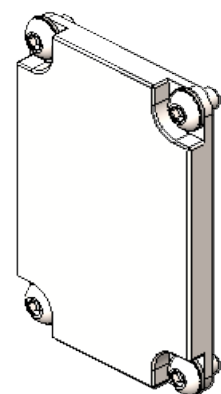
A

4

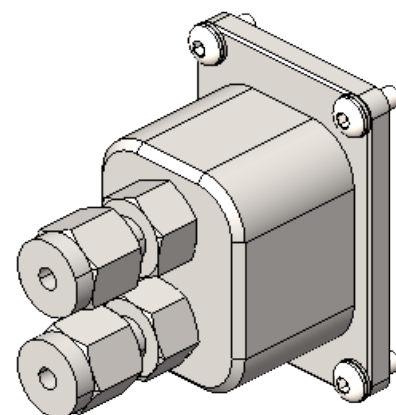
3

2

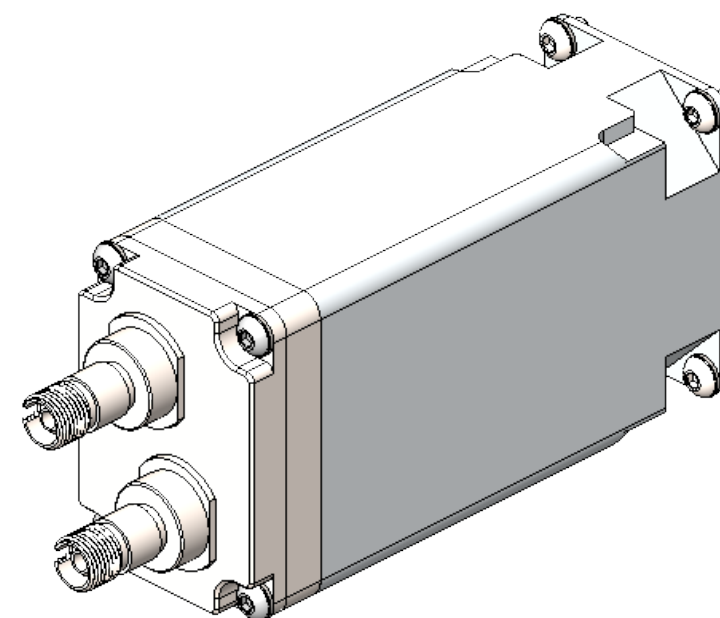
1



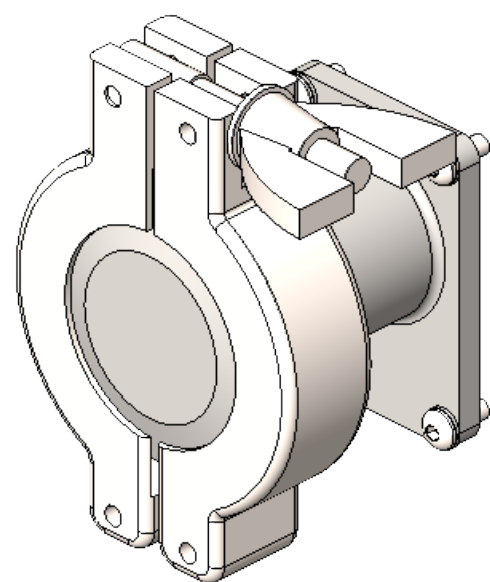
-N00
BLANK SIDE PANEL



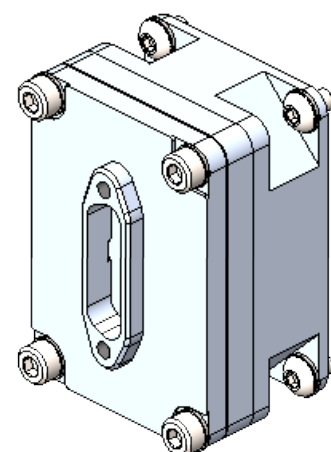
-N01
BARE FIBER COMPRESSION
FITTING SIDE PANEL
4400-545-02



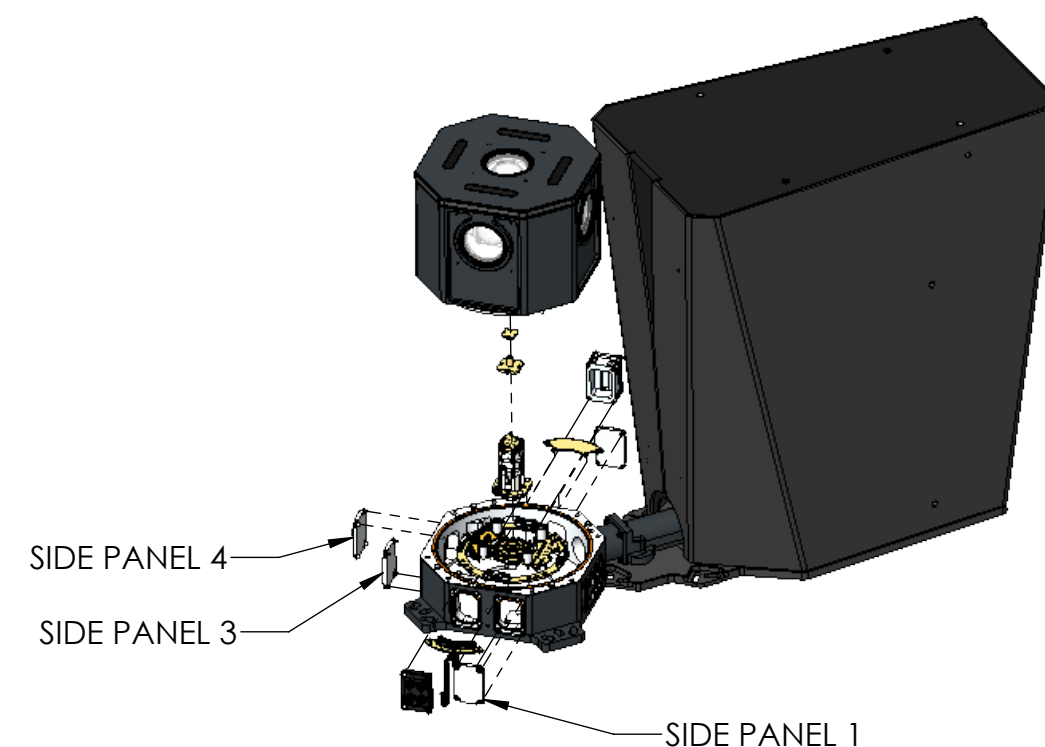
-N02
FC/PC FIBER SIDE PANEL
50/125 850nm
4400-545-03



-N03
KF-25 VACUUM SIDE PANEL
(CAN'T BE INSTALLED SIMULTANEOUSLY ON
BOTH 3 AND 4)
4400-545-04



-N05
MICRO-D 25 PORT SIDE PANEL
4400-1020



SIDE PANEL 4

SIDE PANEL 3

SIDE PANEL 1

SIDE PANEL 1, 3, & 4 (-N__, -N__, -N__)

SIZE B	DWG NO	!CA100 SYSTEM	REV I
SCALE 1:1	SHEET 7 OF 10		

4

3

2

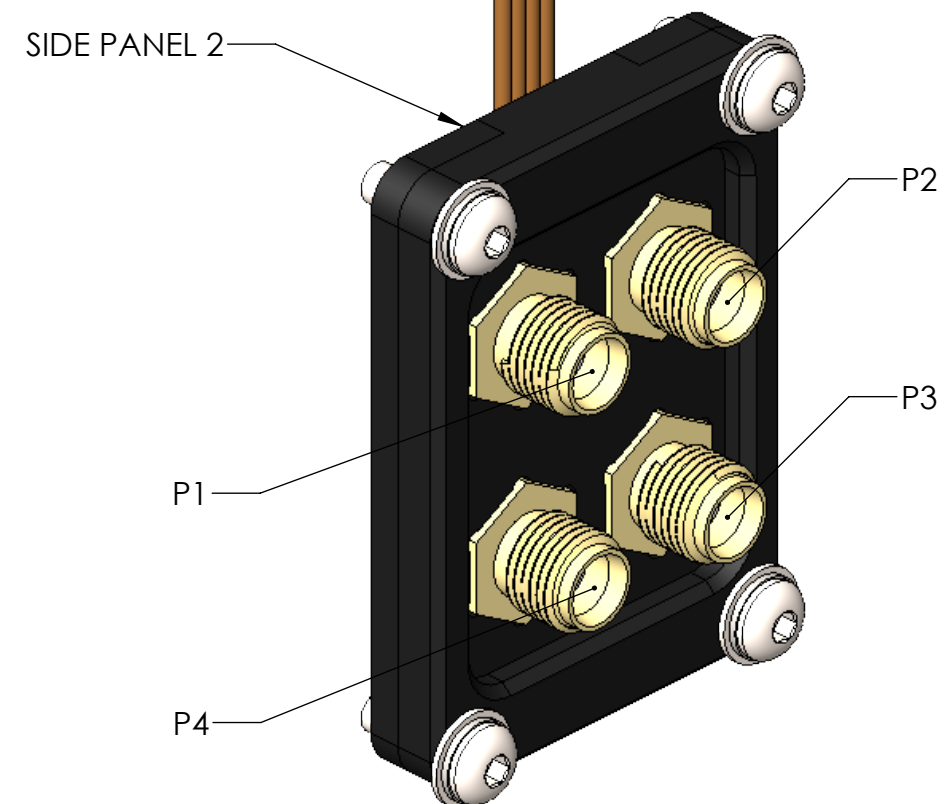
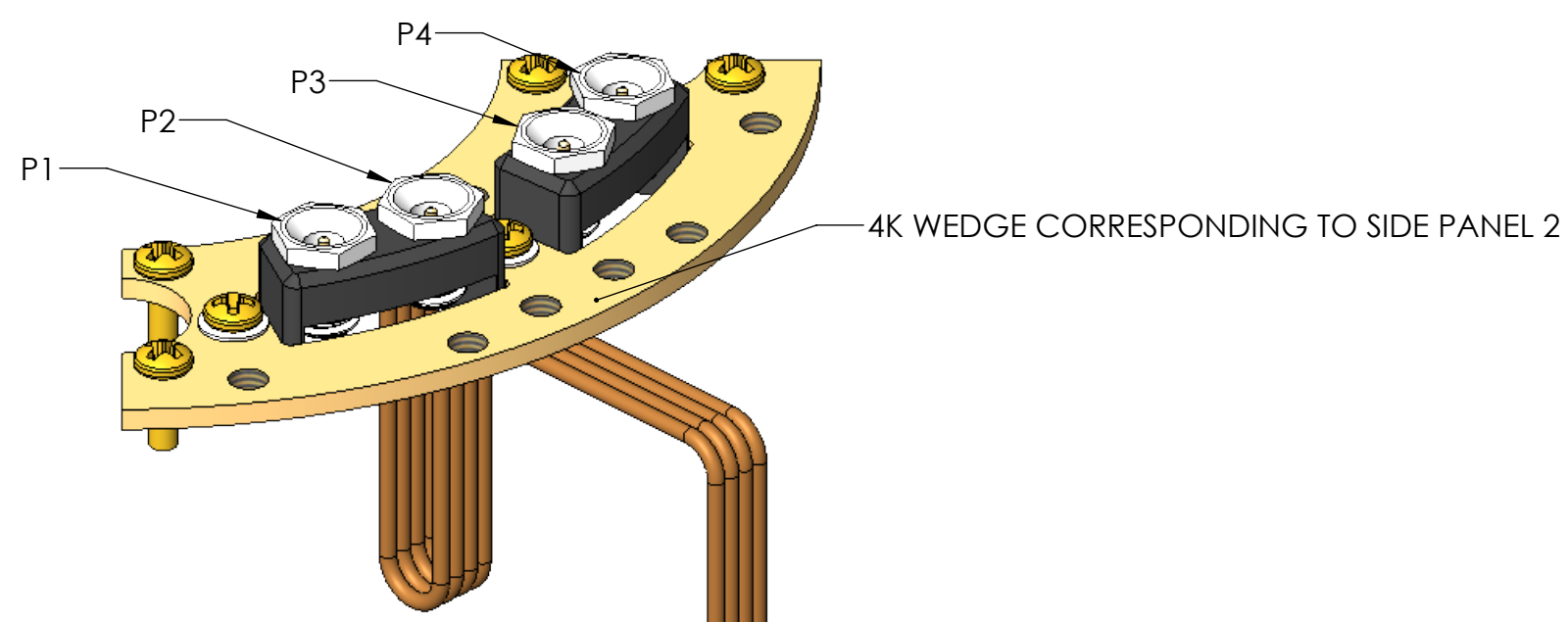
1

4

3

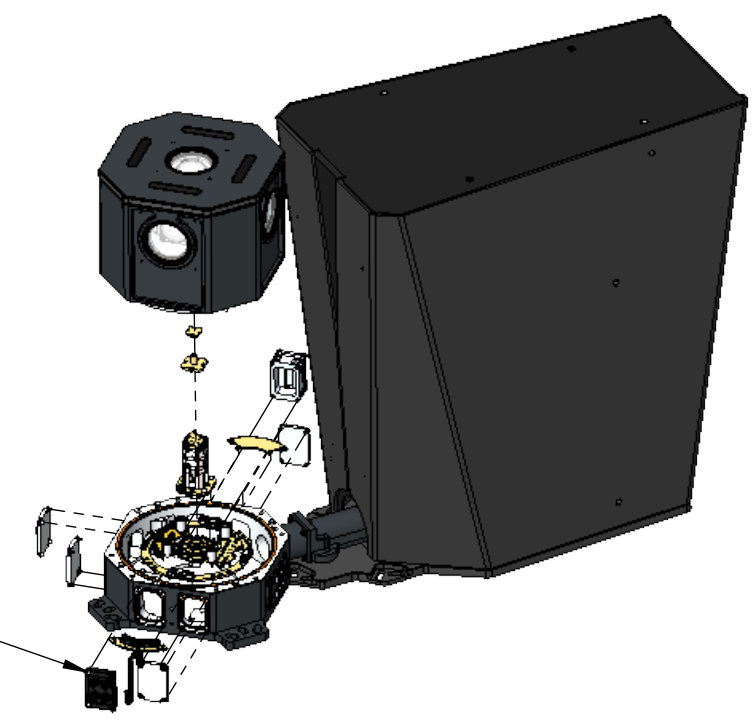
2

1



-E01
QUAD RF SIDE PANEL AND WEDGE
4410-545-02
(INCLUDED ON ALL STANDARD SYSTEMS)

SIDE PANEL 2 (-E__)



SIZE B	DWG NO	!CA100 SYSTEM	REV I
SCALE 2:1			SHEET 8 OF 10

4

3

2

1

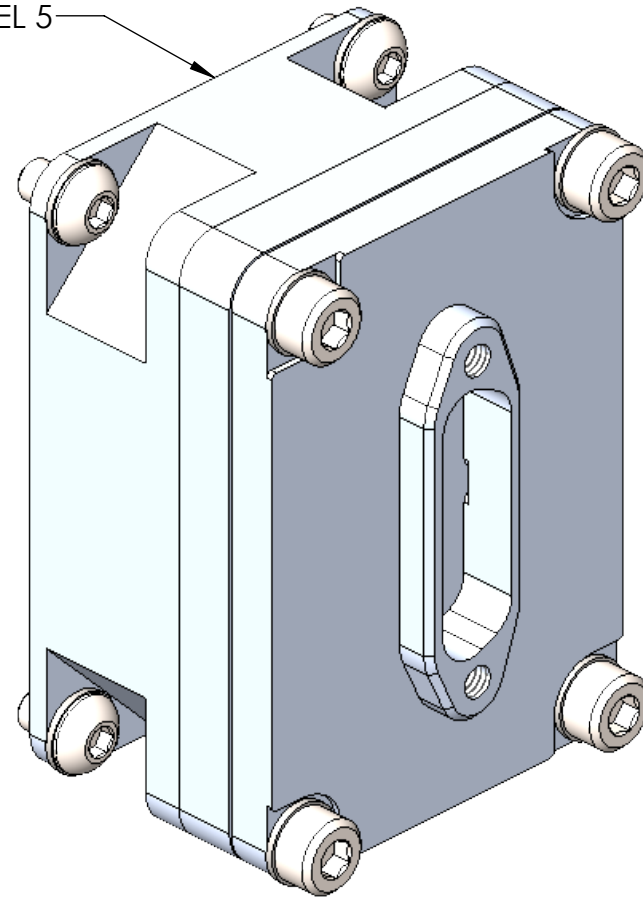
4

3

2

1

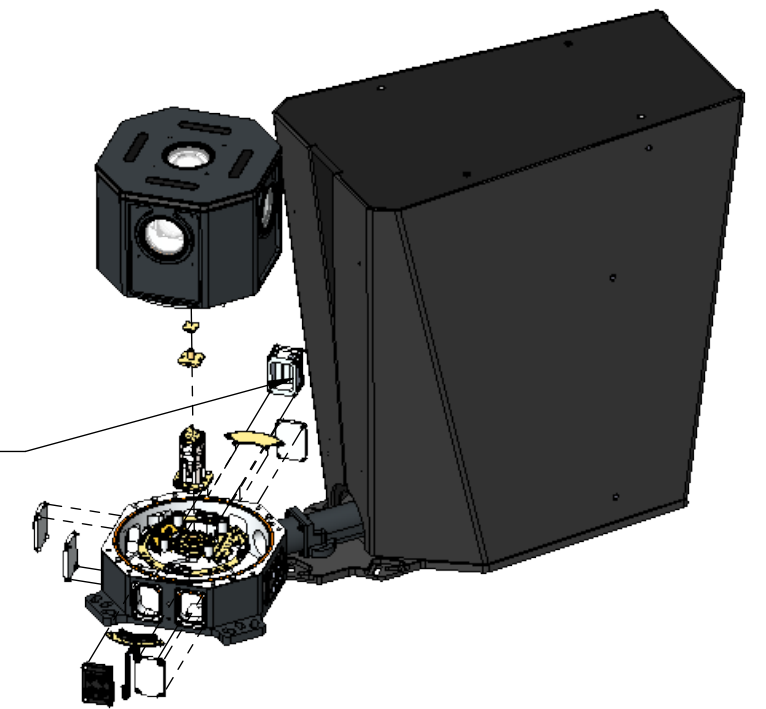
SIDE PANEL 5



-N05
MICRO-D 25 PORT SIDE PANEL
4400-1020
(INCLUDED ON ALL STANDARD
SYSTEMS)

SIDE PANEL 5 (-N__)

SIDE PANEL 5



SIZE B	DWG NO	!CA100 SYSTEM	REV I
SCALE 2:1	SHEET 9 OF 10		

4

3

2

1

4

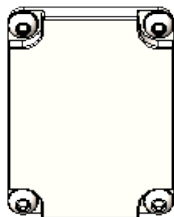
3

2

1

B

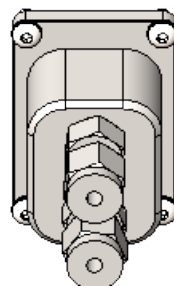
B



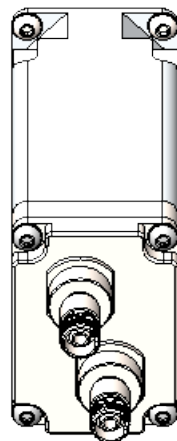
-N00
BLANK SIDE PANEL



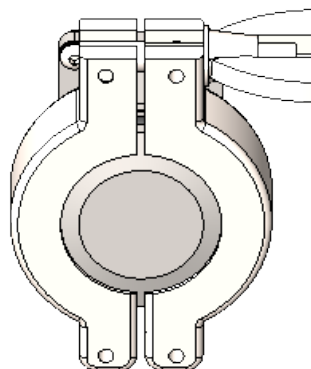
-E01
QUAD RF SIDE PANEL AND WEDGE
4410-545-02



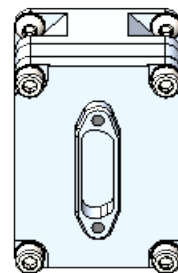
-N01
BARE FIBER COMPRESSION
FITTING SIDE PANEL
4400-545-02



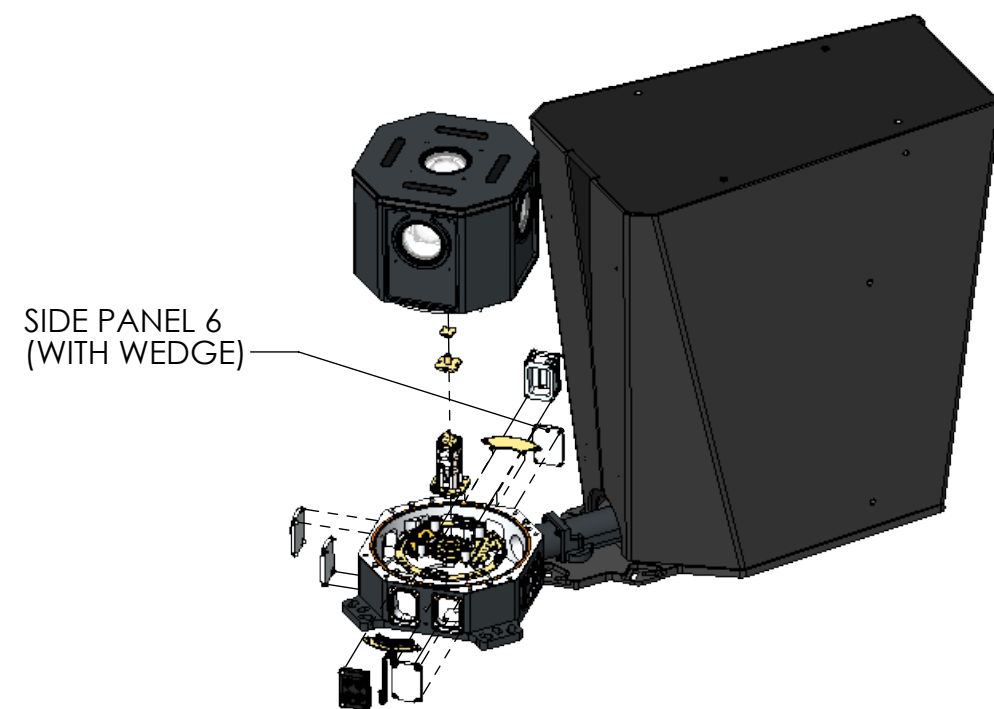
-N02
FC/PC FIBER SIDE PANEL
50/125 850nm
4400-545-03



-N03
KF-25 VACUUM SIDE PANEL
4400-545-04



-N05
MICRO-D 25 PORT SIDE PANEL
4400-1020



SIDE PANEL 6
(WITH WEDGE)

A

A

4

3

2

1

SIDE PANEL 6 (-N/E__)

SIZE B	DWG NO	!CA100 SYSTEM	REV I
SCALE 1:1.5	SHEET 10 OF 10		