

4

3

2

1

REVISION TABLE			
REV.	DESCRIPTION	APPROVED	DATE
A	INITIAL RELEASE	JOHN C.	12/8/2021
B	ADDED DAMPED MANUAL POSITIONER	JOHN C.	4/22/2022
C	ADDED TITLES TO SHEETS 2-9. UPDATED -M05 REMARKS. SHEET 8: UPDATED CUSTOM REMARKS.	20220512MM	05/12/2022

MODULE:	PLATFORM	REGION	HOUSING	POSITIONING	ADAPTER	SAMPLE MOUNT	WINDOW	SIDE PANEL 1*	SIDE PANEL 2
PART NUMBER:	CA50	-__	-H__	-P__	-A__	-M__	-W__	-N__	-N__

PLATFORM

HOUSING

WINDOW

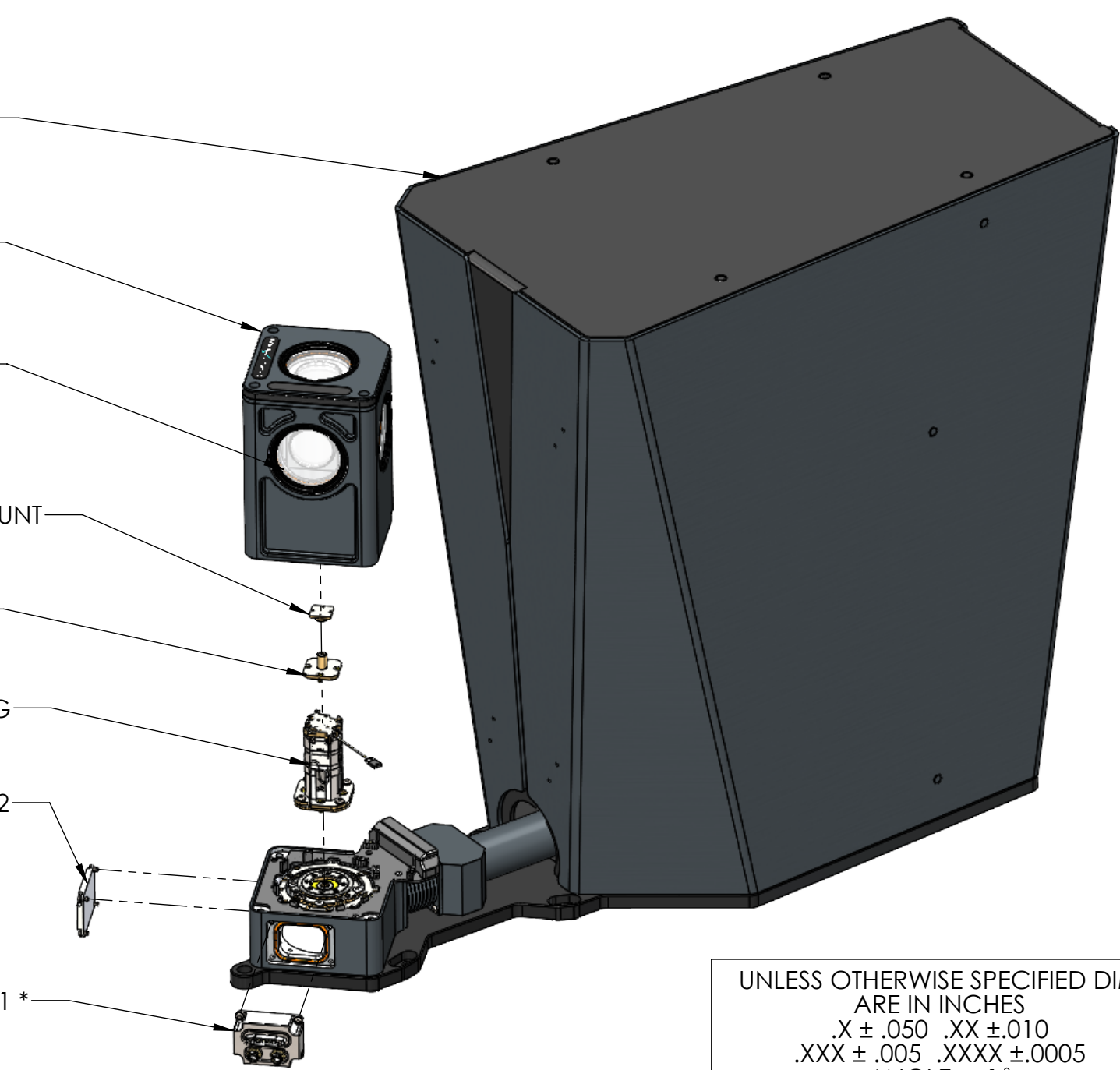
SAMPLE MOUNT

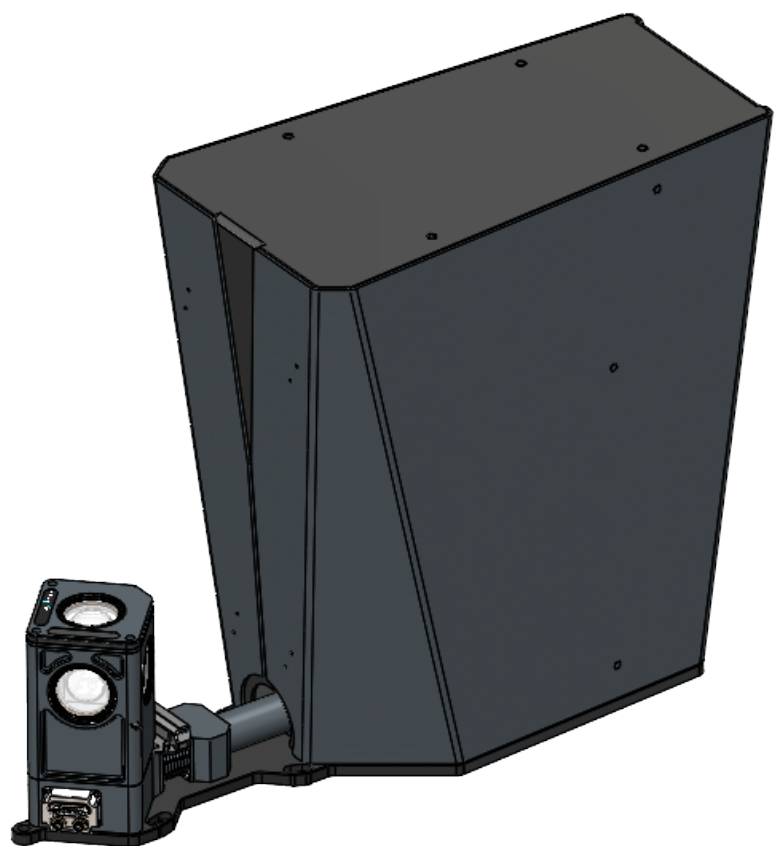
ADAPTER

POSITIONING

SIDE PANEL 2

SIDE PANEL 1 *

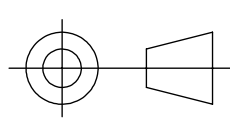





EXAMPLE CONFIGURED CRYOSTATION

UNLESS OTHERWISE SPECIFIED DIM
ARE IN INCHES
.X ± .050 .XX ± .010
.XXX ± .005 .XXXX ± .0005
ANGLE ± .1°

THIRD ANGLE PROJECTION



APPROVALS	NAME	DATE
DRAFTER	JOHN C.	12/8/2021
CHECKER	MATT B.	12/16/2021
ENGINEER	JOHN C.	12/8/2021
MATERIAL	N/A	
FINISH	SEE NOTES	
DO NOT SCALE DWG		

 MONTANA INSTRUMENTS BOZEMAN, MT

TITLE
CRYOADVANCE 50 CONFIGURATION
DRAWING

SIZE
B

DWG NO
CA-50

REV
C

SCALE 1:4

SHEET 1 OF 9

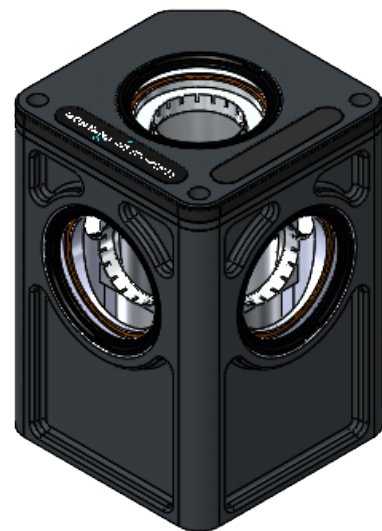
* NOT CUSTOMER CONFIGURABLE

4

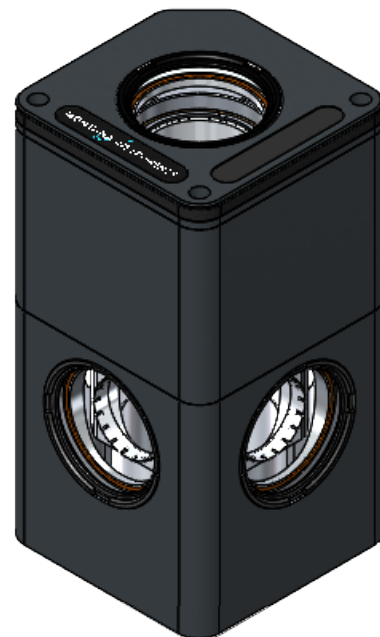
3

2

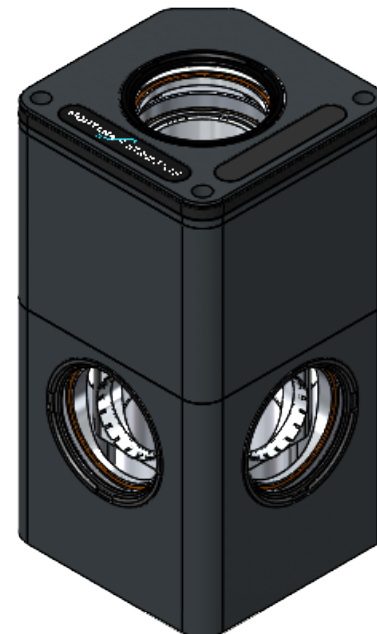
1



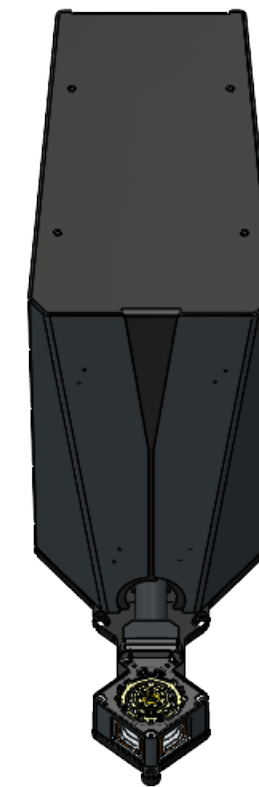
-H00
116MM HOUSING
4405-565-00



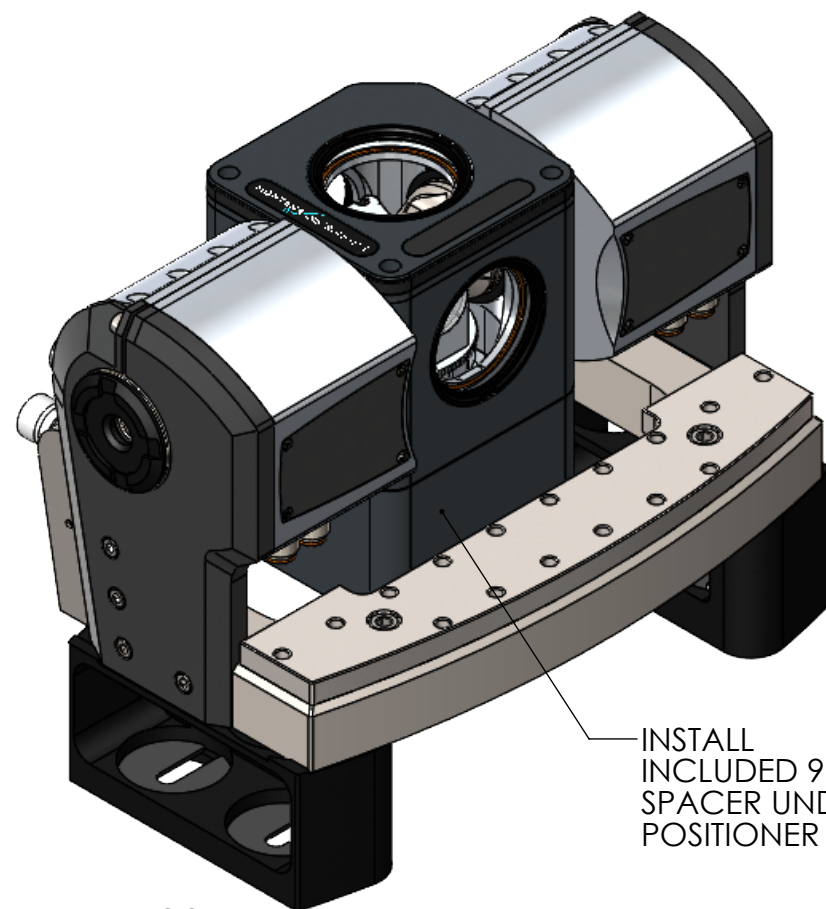
-H01
CRYO-OPTIC 0.90NA HOUSING
4405-565-10



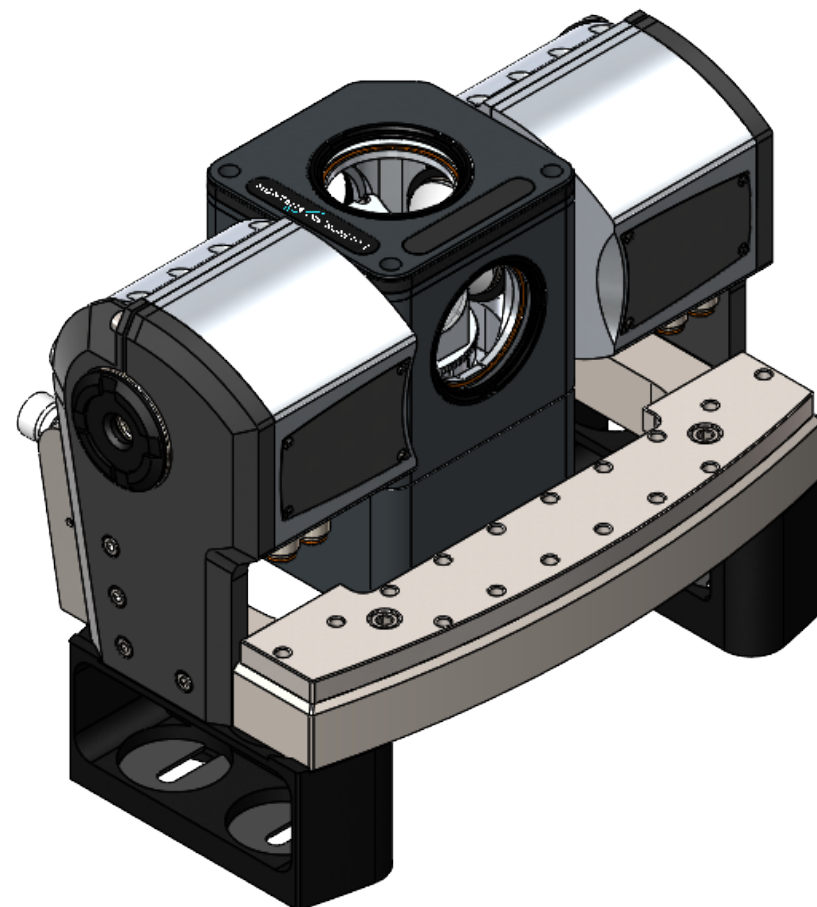
-H02
CRYO-OPTIC 0.75NA HOUSING
4405-565-11



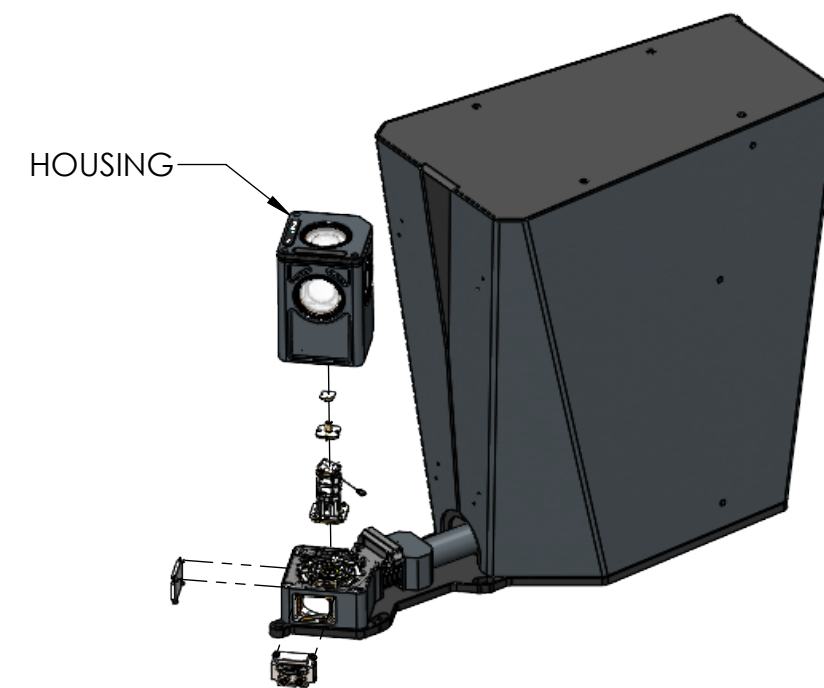
ORIENTATION
REFERENCE FOR
INSTALLATION
N



-H03
MAGNETO-OPTIC HOUSING, RAISED POLE TIPS
4405-565-20



-H04
MAGNETO-OPTIC HOUSING, 12MM POLE TIPS
4405-565-21



HOUSING (-H__)

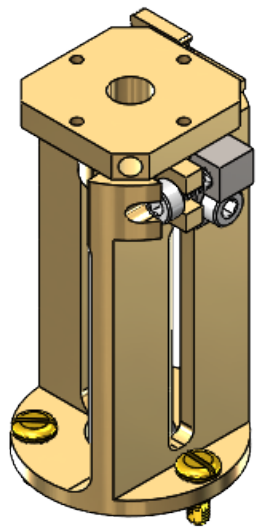
SIZE B	DWG NO CA-50	REV C
SCALE 1:2.5	SHEET 2 OF 9	

4

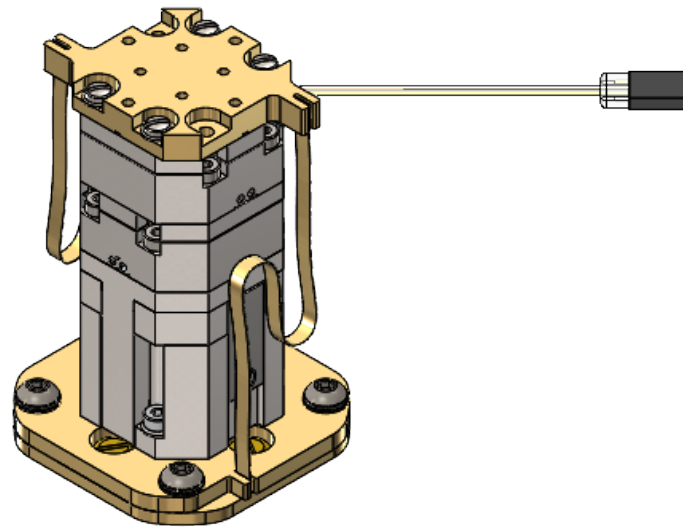
3

2

1

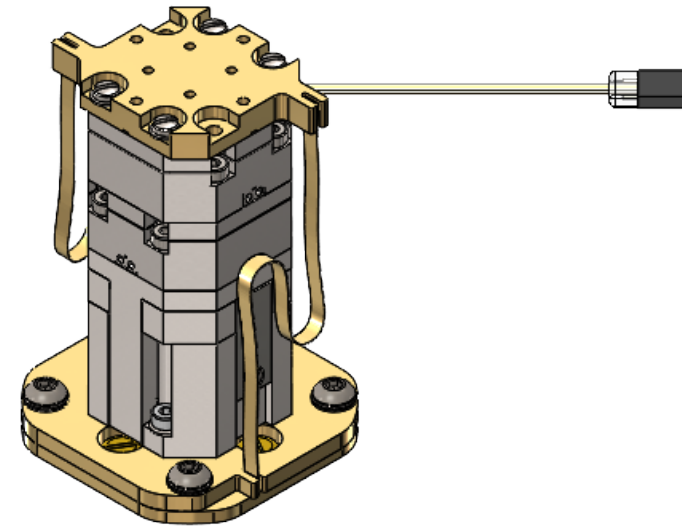


-P01
MANUAL POSITIONER
4400-580-01



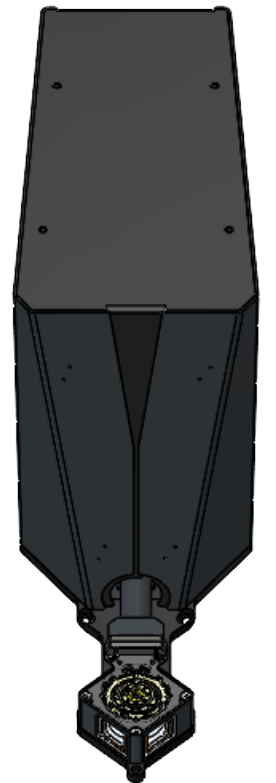
-P02
OPEN LOOP XYZ POSITIONERS
4400-580-02

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

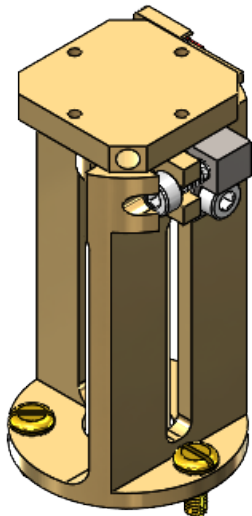


-P03
CLOSED LOOP XYZ POSITIONERS
4400-580-03

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

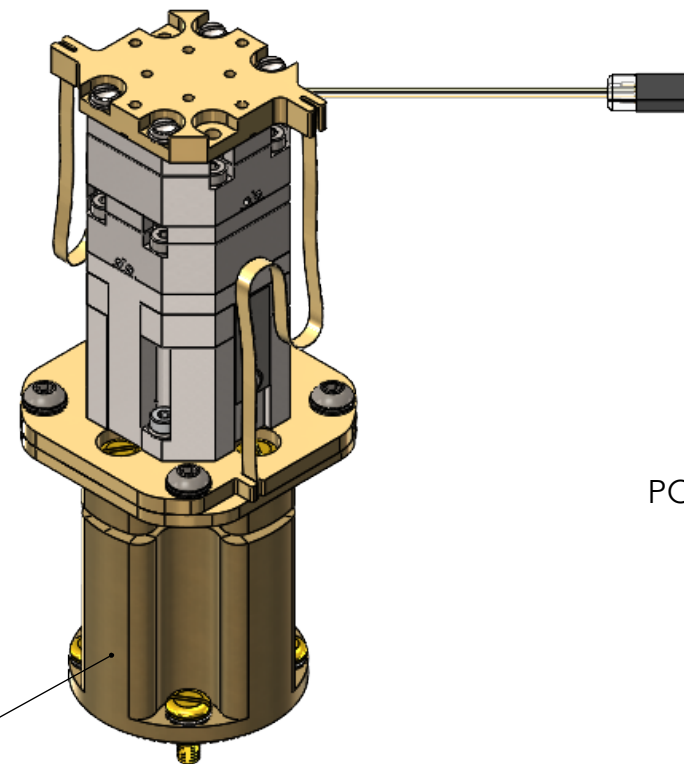


ORIENTATION
REFERENCE FOR
INSTALLATION

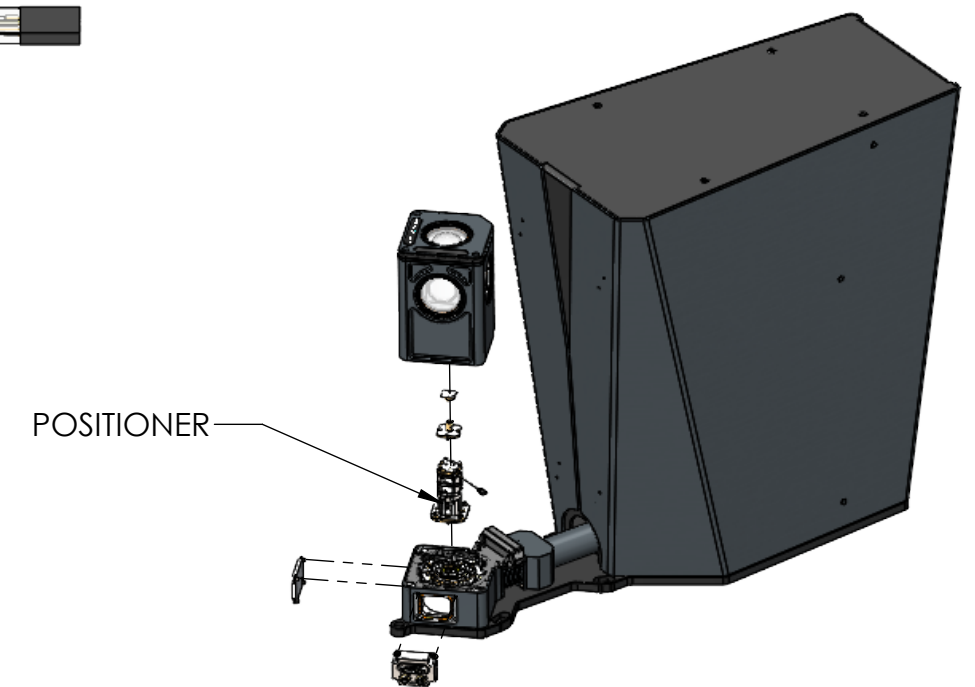


-P04
DAMPED MANUAL POSITIONER
4400-580-05

SHOWN WITH INCLUDED
SPACER FOR TOP LOW
WORKING DISTANCE
APPLICATIONS. NOT
CONFIGURED AT THE
FACTORY UNLESS TOP LWD
WINDOW IS PRESENT.



4100-2253



POSITIONER

POSITIONING (-P__)

SIZE B	DWG NO CA-50	REV C
SCALE 1:1	SHEET 3 OF 9	

4

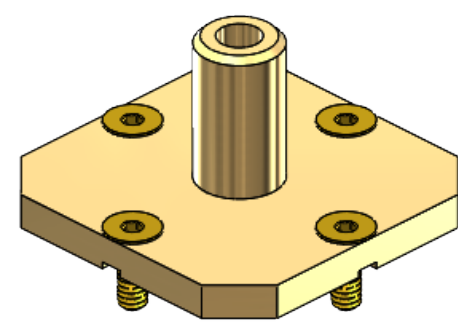
3

2

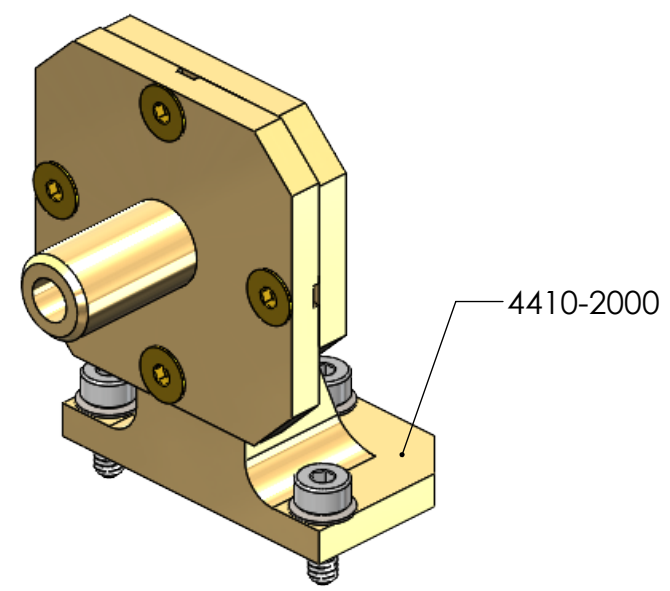
1

B

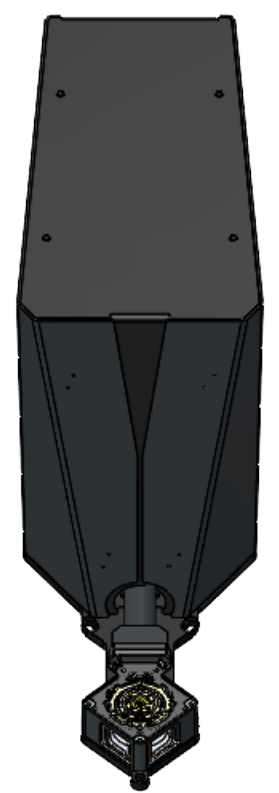
B



-A01
EXCHANGE BOSS ADAPTER
4400-585-01



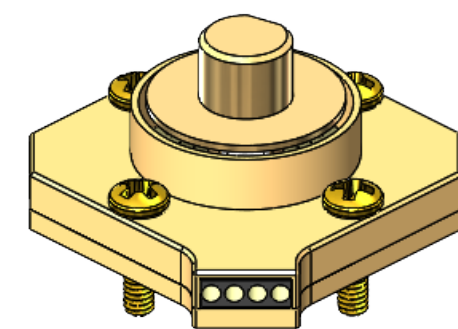
WITH INCLUDED RIGHT ANGLE
ADAPTER. NOT CONFIGURED AT
THE FACTORY.



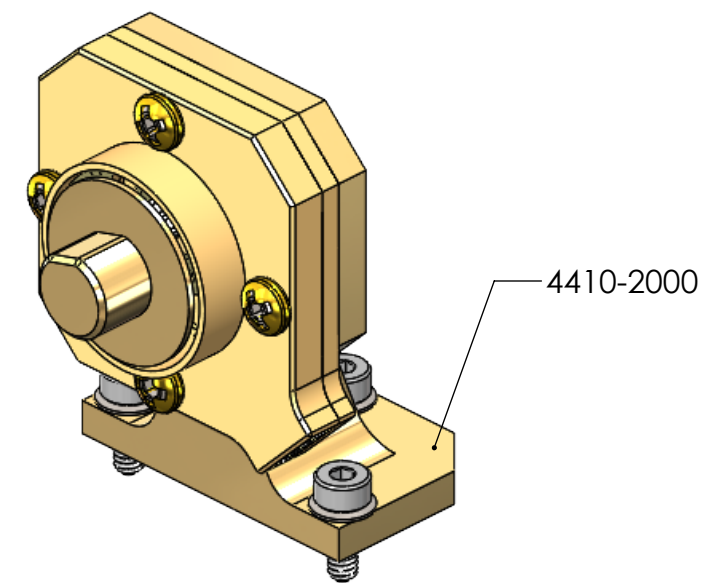
ORIENTATION
REFERENCE FOR
INSTALLATION
N

A

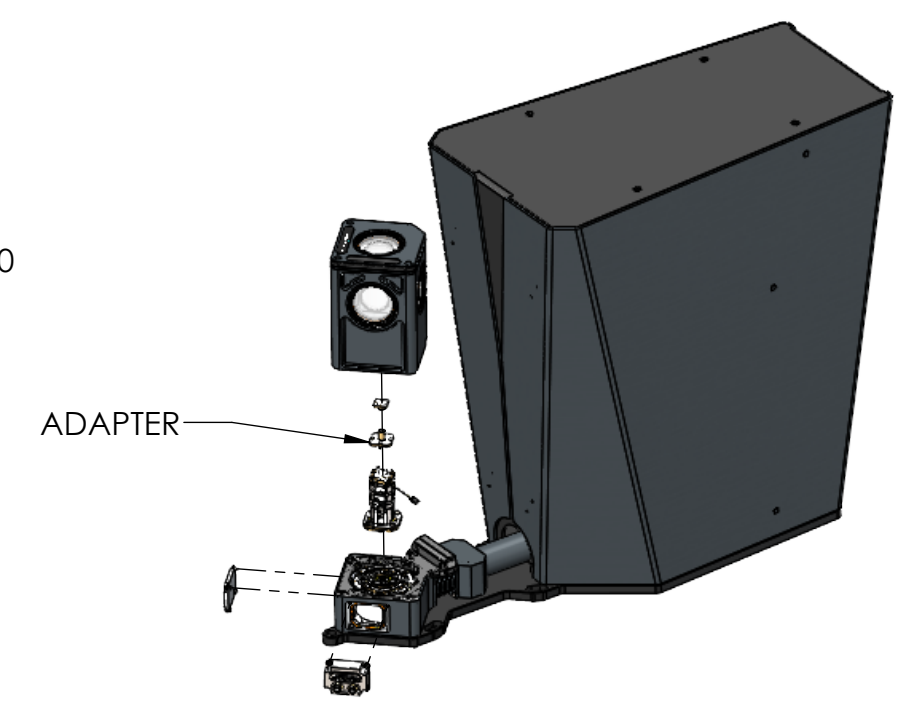
A



-A02
ATSM EXCHANGE BOSS ADAPTER
4400-585-02



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



ADAPTER (-A__)

SIZE B	DWG NO CA-50	REV C
SCALE 2:1	SHEET 4 OF 9	

4

3

2

1

4

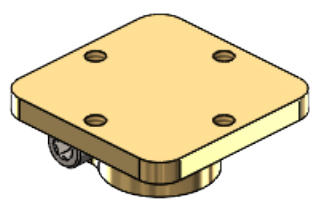
3

2

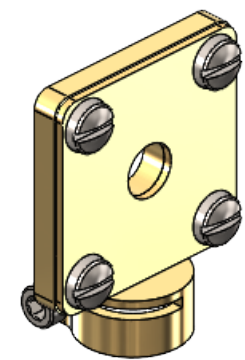
1

B

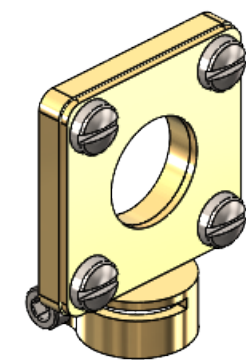
B



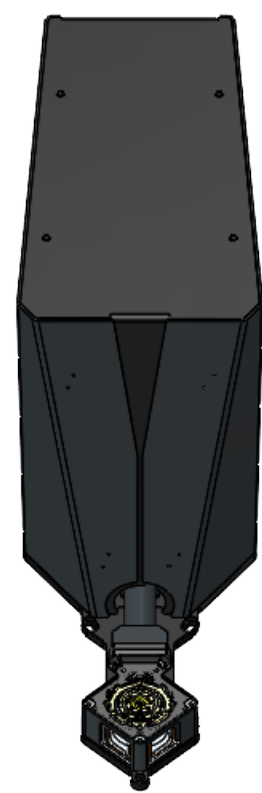
-M01
FLAT PLATE SAMPLE MOUNT
4400-588-01



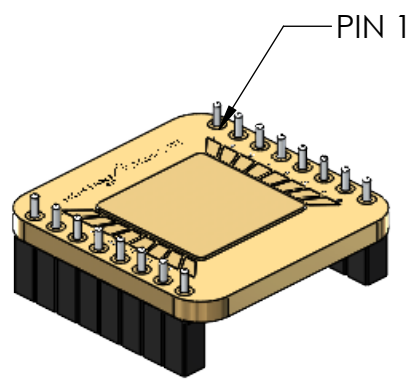
-M02
TRANSMISSION MOUNT, 4mm
4400-588-02



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

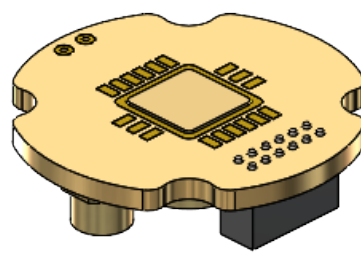


ORIENTATION
REFERENCE FOR
INSTALLATION
N



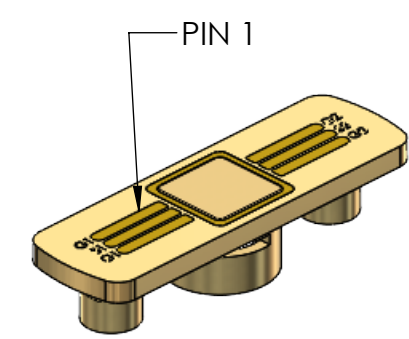
-M04
CC16 DC MOUNT
4400-588-04
CABLES NOT SHOWN

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



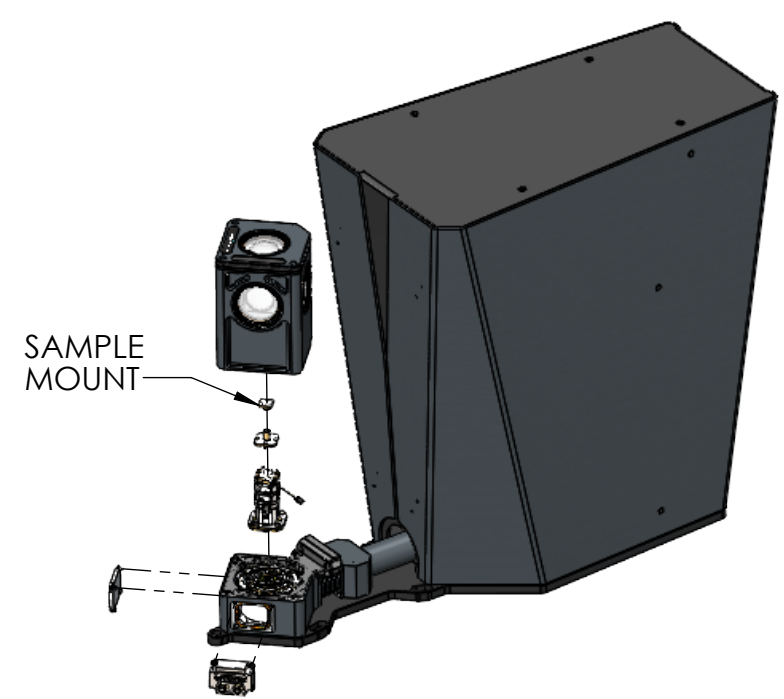
-M05
R2D12 RF & DC MOUNT
4400-588-05
CABLES NOT SHOWN

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



-M06
R2 DUAL RF MOUNT
4400-588-06
CABLES NOT SHOWN

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



A

A

SAMPLE MOUNT (-M__)

4

3

2

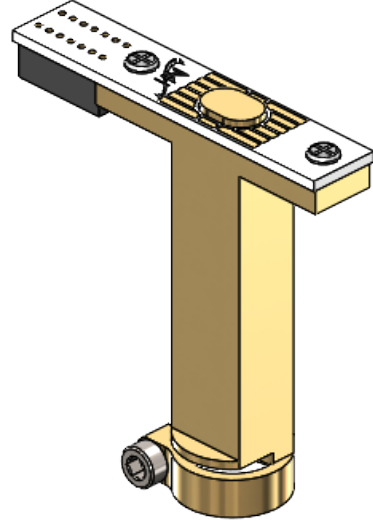
1

4

3

2

1

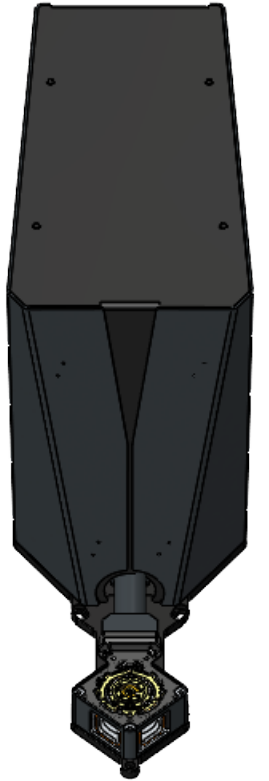


-M07
MO-14 DC MOUNT
4400-588-07

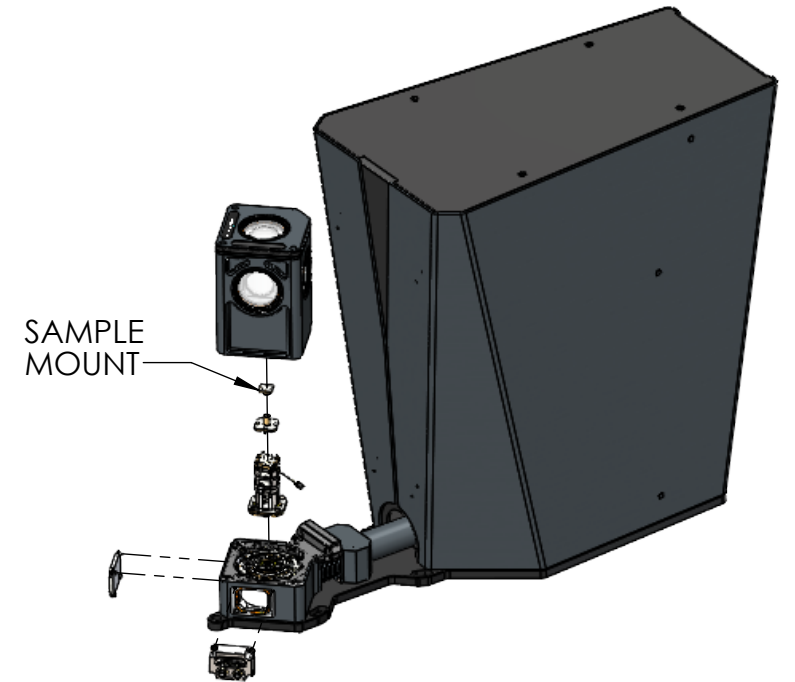
MO14 PIN	PCB PIN
1	DC1-1
2	DC2-2
3	DC2-1
4	DC2-9
5	DC2-10
6	DC1-6
7	DC1-7
8	DC1-10
9	DC1-9
10	DC1-8
11	DC1-3
12	DC1-4
13	DC1-5
14	DC1-2



-M08
POST SAMPLE MOUNT
4400-588-08



ORIENTATION
REFERENCE FOR
INSTALLATION



MAGNETO-OPTIC SAMPLE MOUNT (-M__)

SIZE B	DWG NO CA-50	REV C
SCALE 2:1	SHEET 6 OF 9	

4

3

2

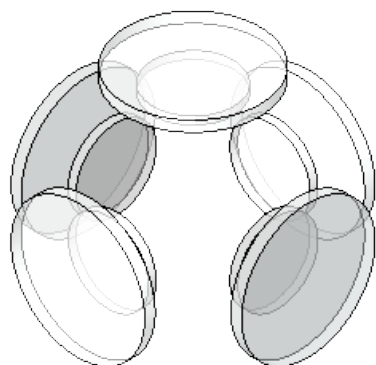
1

4

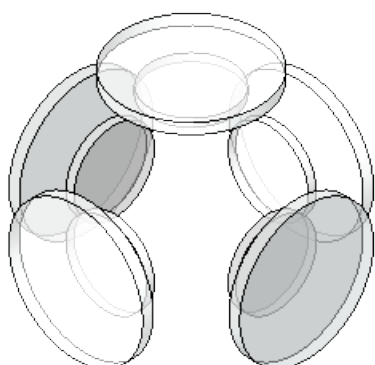
3

2

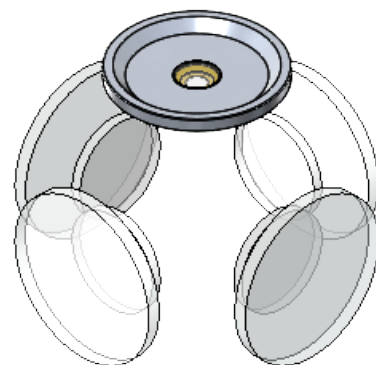
1



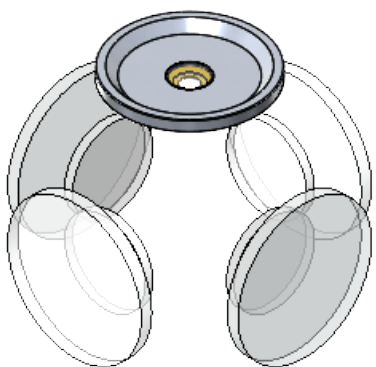
-W00
AR-COATED FUSED SILICA
4400-566-00



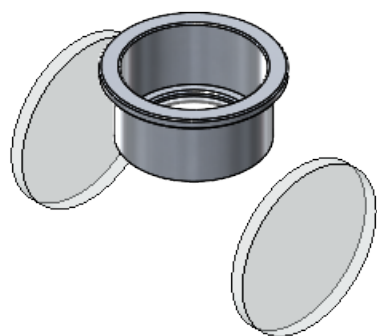
-W01
UNCOATED FUSED SILICA
4400-566-01



-W02
TOP LOW WORKING DISTANCE
AR-COATED FUSED SILICA
4400-566-04



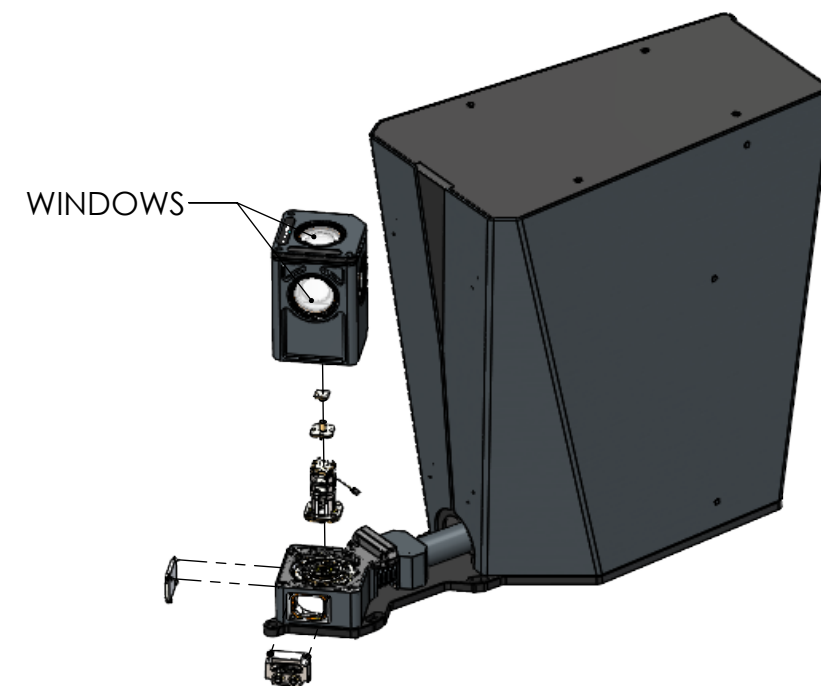
-W03
TOP LOW WORKING DISTANCE
UNCOATED FUSED SILICA
4400-566-05



-W04
RECESSED TOP LOW WORKING
DISTANCE FOR MAGNETO-OPTIC
UNCOATED FUSED SILICA
4400-566-08



ORIENTATION
REFERENCE FOR
INSTALLATION
N



WINDOW (-W__)

SIZE B	DWG NO CA-50	REV C
SCALE 1:2	SHEET 7 OF 9	

4

3

2

1

4

3

2

1

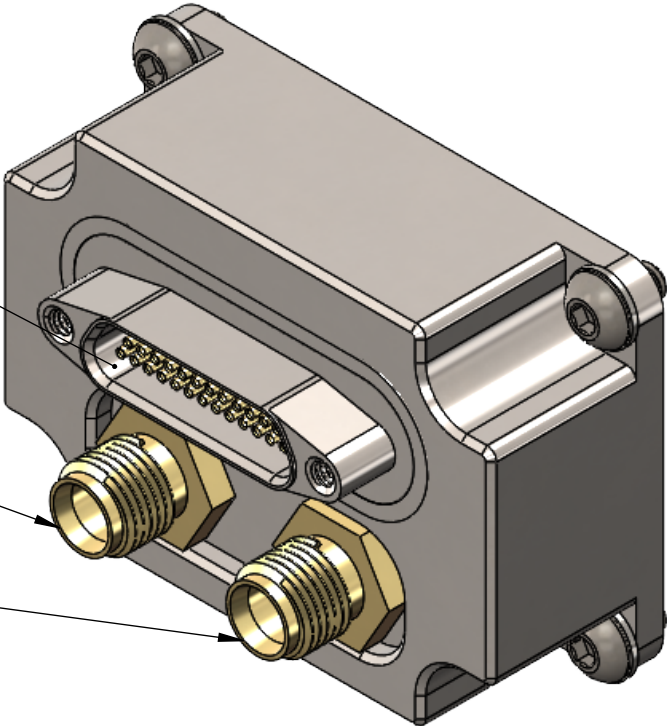
B

B

DC CONNECTOR
(USED FOR
POSITIONERS)

RF CONNECTOR P1
(LEFT)

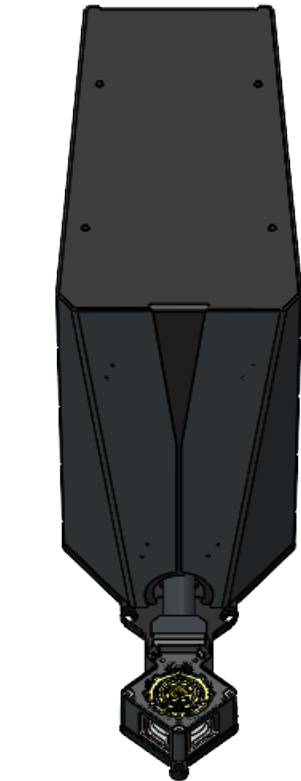
RF CONNECTOR P2
(RIGHT)



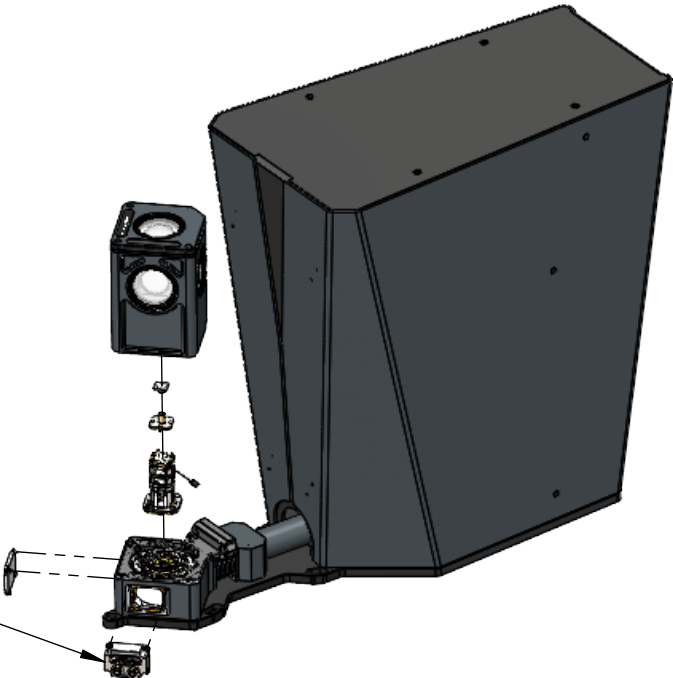
-N10
DUAL RF PLUS 25 DC SIDE PANEL
(INCLUDED ON ALL SYSTEMS UNLESS
ORDERING A CUSTOM SIDE PANEL 1)
4400-545-01

A

A



ORIENTATION
REFERENCE FOR
INSTALLATION
N



SIDE PANEL 1

SIDE PANEL 1 (-N__)

SIZE B	DWG NO CA-50	REV C
SCALE 2:1	SHEET 8 OF 9	

4

3

2

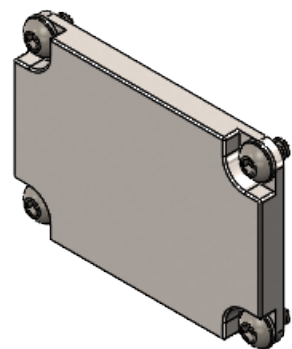
1

4

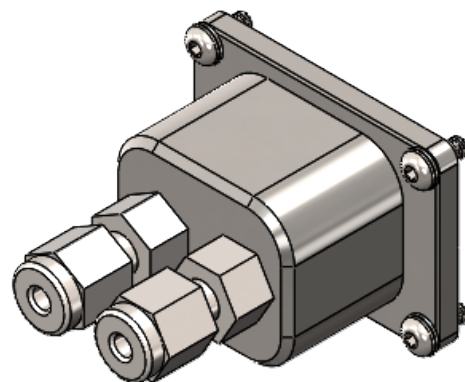
3

2

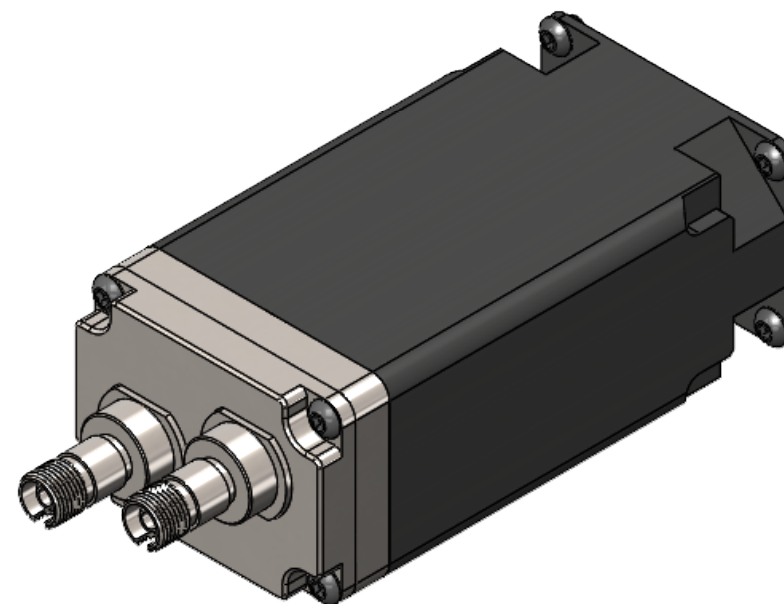
1



-N00
BLANK SIDE PANEL



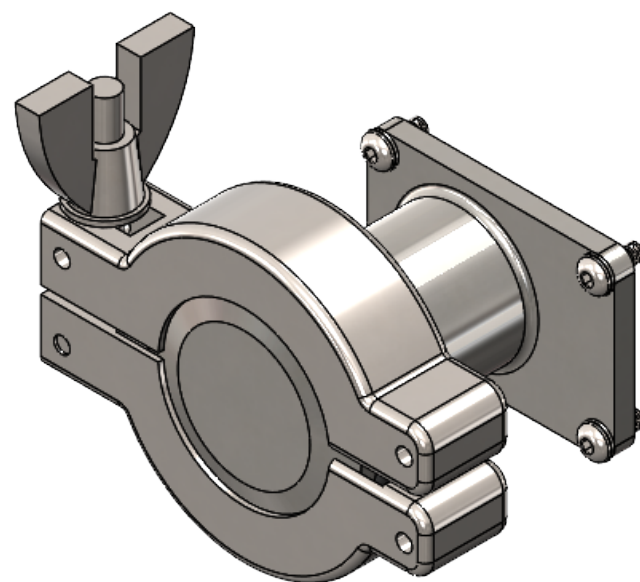
-N01
BARE FIBER COMPRESSION
FITTING SIDE PANEL
4400-545-02



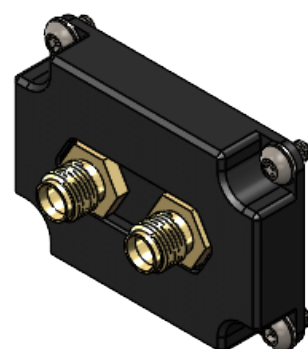
-N02
FC/PC FIBER SIDE PANEL
50/125 850nm
4400-545-03



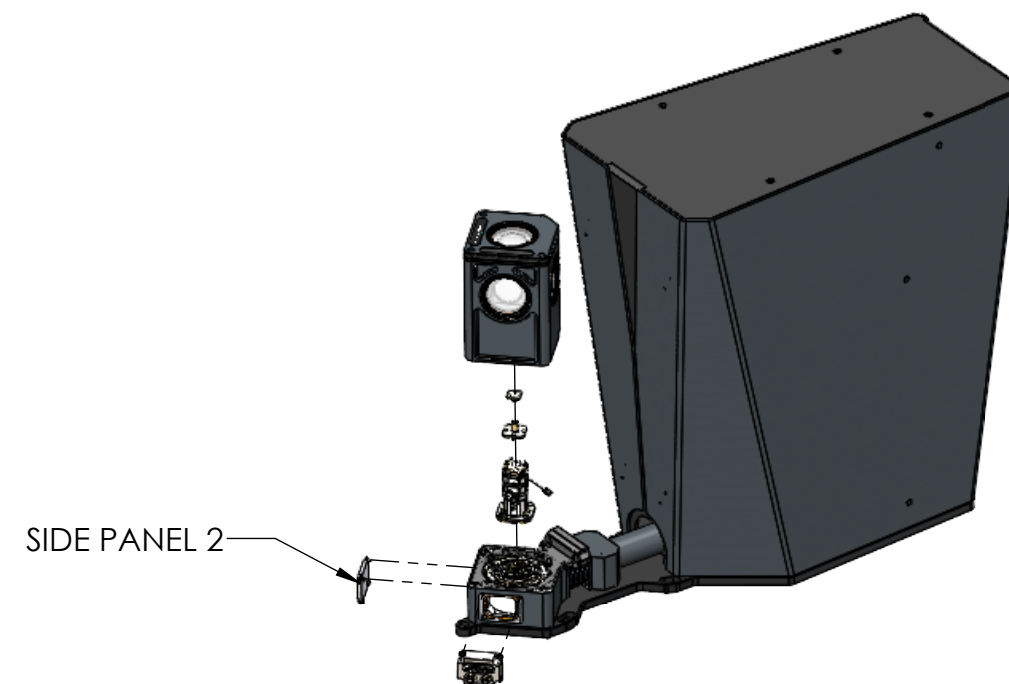
ORIENTATION
REFERENCE FOR
INSTALLATION



-N03
KF-25 VACUUM SIDE PANEL
(NOT COMPATIBLE WITH MAGNETO-OPTIC)
4400-545-04



-N04
DUAL RF SMA SIDE PANEL
4400-545-05



SIDE PANEL 2 (-N__)

SIZE B	DWG NO CA-50	REV C
SCALE 1:1	SHEET 9 OF 9	

4

3

2

1