



1:16 Scale

1 cm

1 inch

Print on Cardstock (110 lbs)

MMS

Upperdeck page 1

Cut

Glue inner ring and
inner supports along
dashed lines



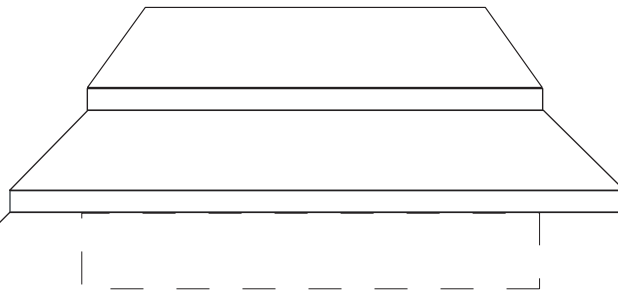
1:16 Scale



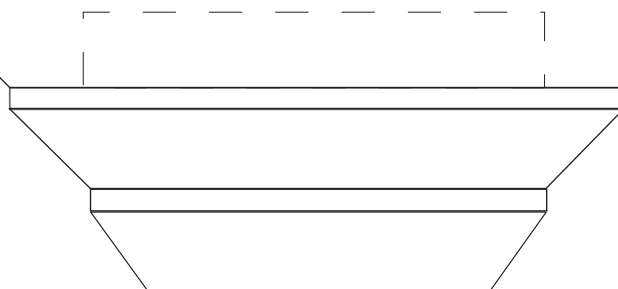
Print on Cardstock (110 lbs)

MMS

Upperdeck page 2



Cut





1:16 Scale

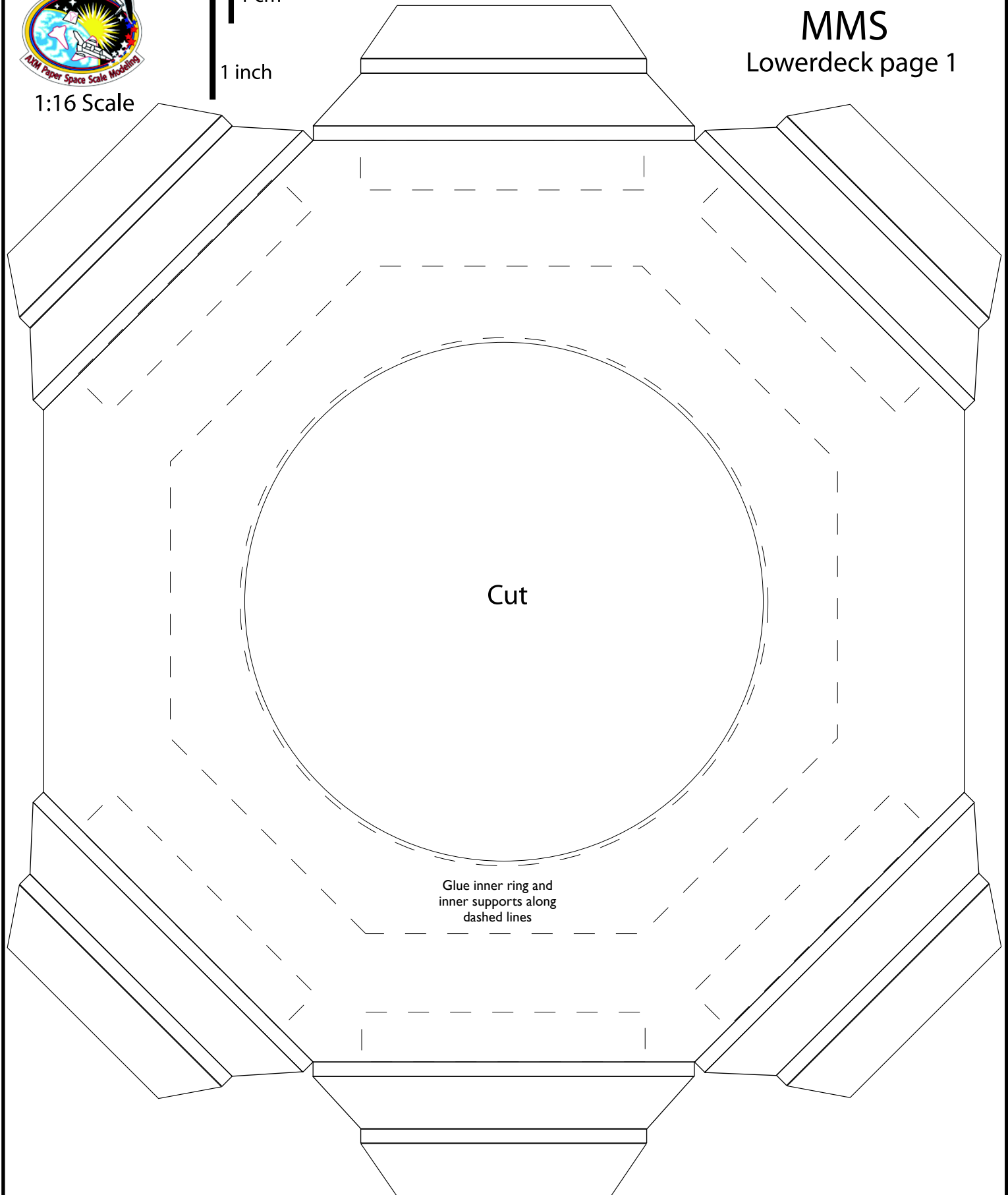
1 cm

1 inch

Print on Cardstock (110 lbs)

MMS

Lowerdeck page 1



Glue inner ring and
inner supports along
dashed lines



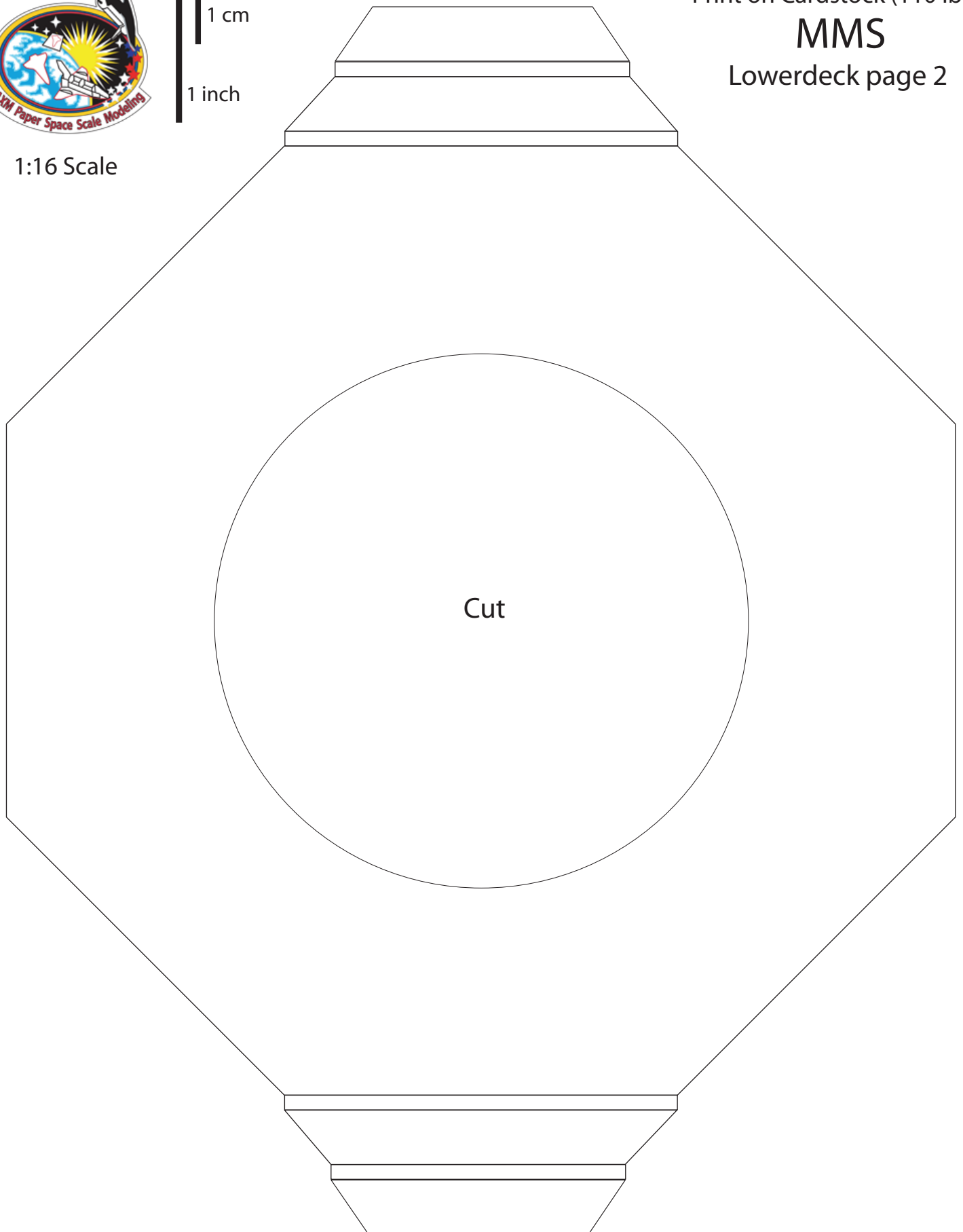
1:16 Scale



Print on Cardstock (110 lbs)

MMS

Lowerdeck page 2





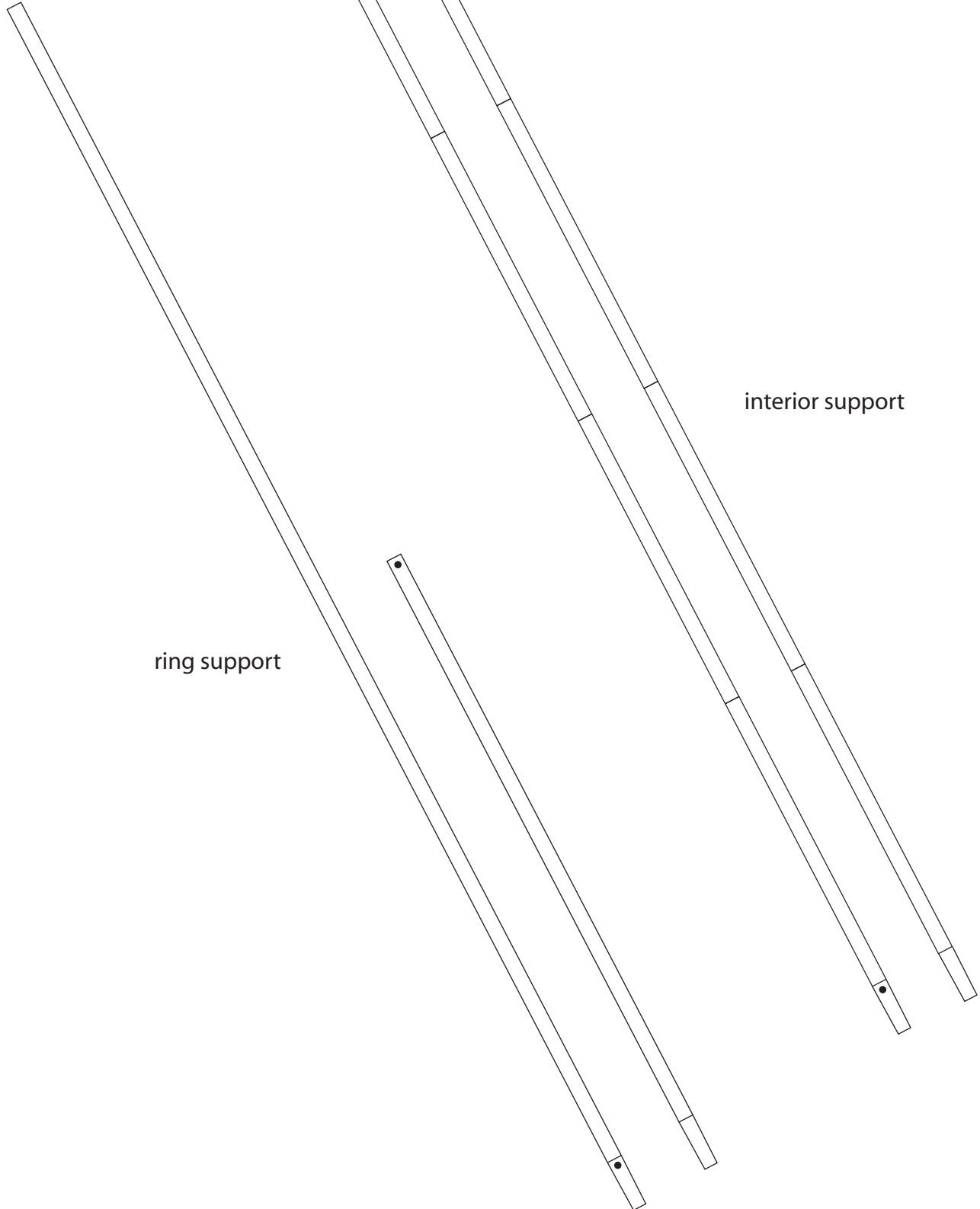
MMS

Print on Cardstock (110 lbs)

Upper and Lower deck
Internal Supports

Print X 2

1:16 Scale





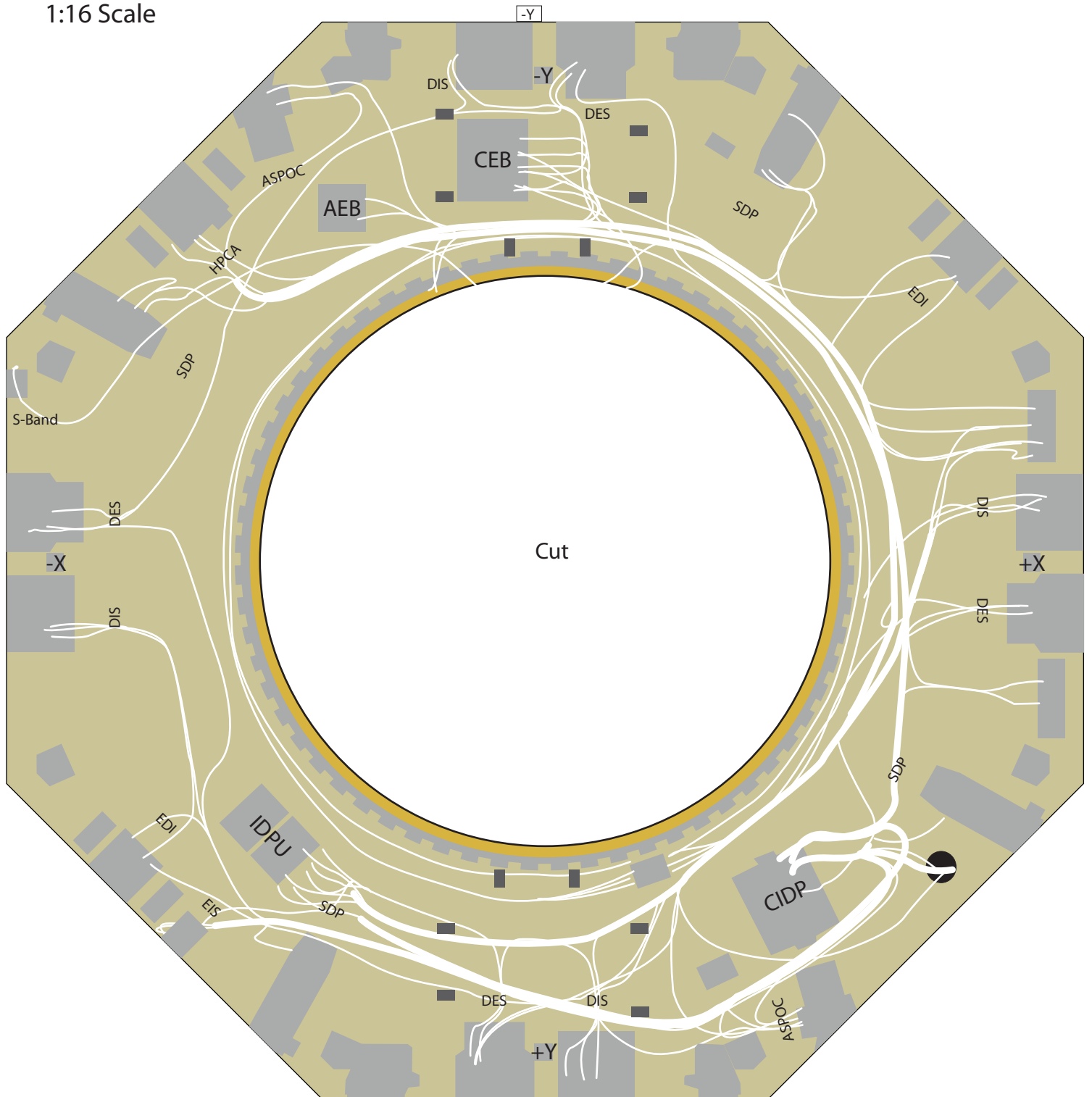
1 cm
1 inch

MMS

Print on Cardstock (110 lbs)

Instrument Deck (Upper deck)

1:16 Scale



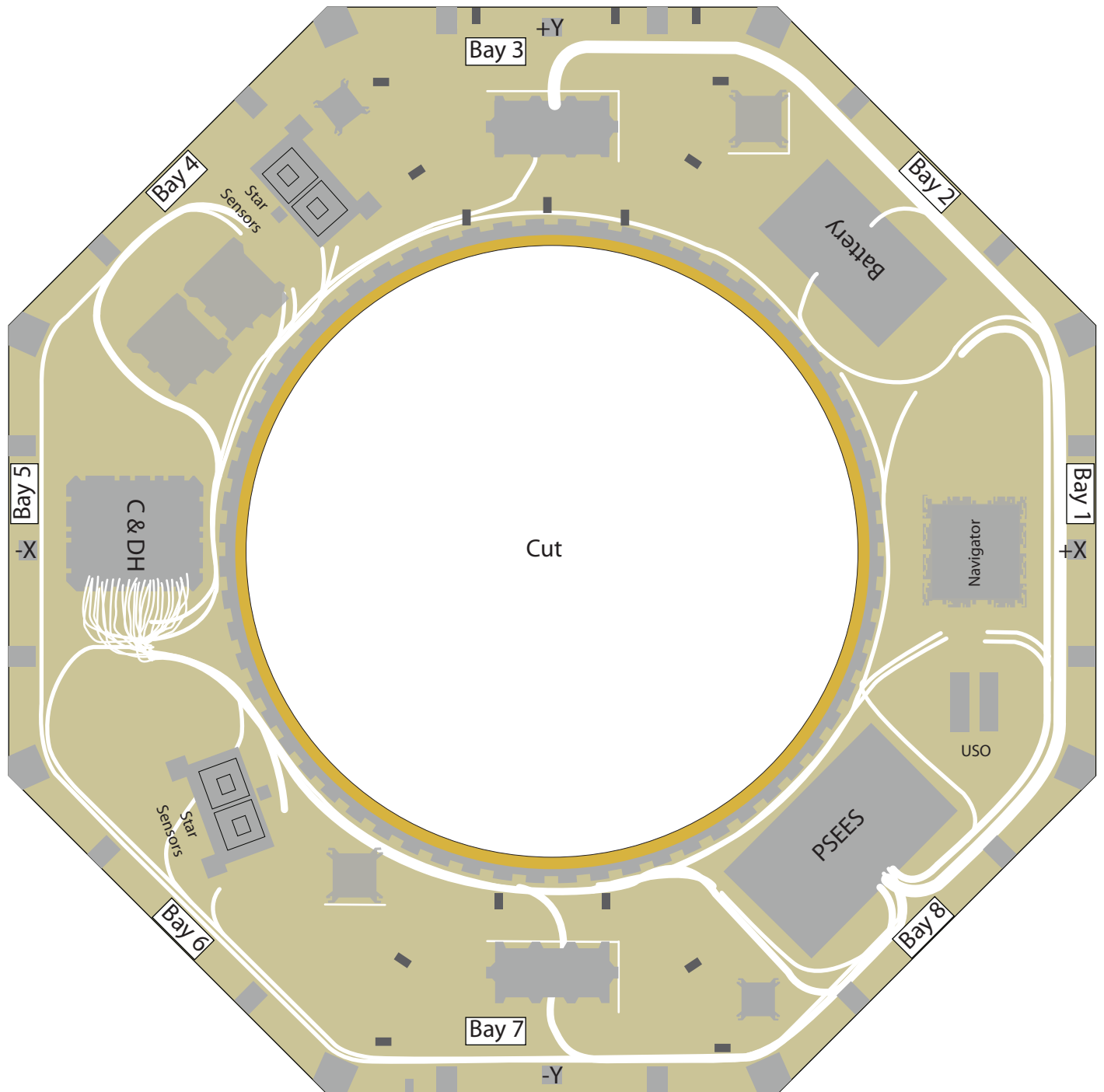


MMS

Print on Cardstock (110 lbs)

Spacecraft Deck
(Lower deck)

1:16 Scale





MMS

Spacecraft top

Print on Cardstock (110 lbs)
(Glossy or Photo Paper)

1:16 Scale



-Y



MMS

Spacecraft bottom

Print on Cardstock (110 lbs)
(Glossy or Photo Paper)

1:16 Scale



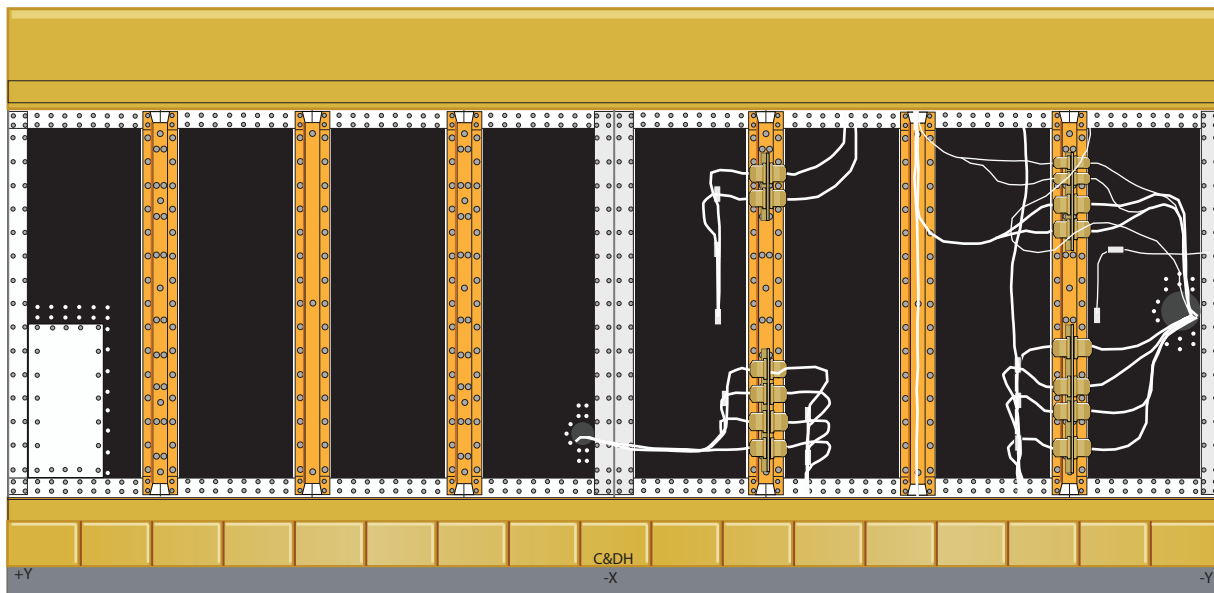
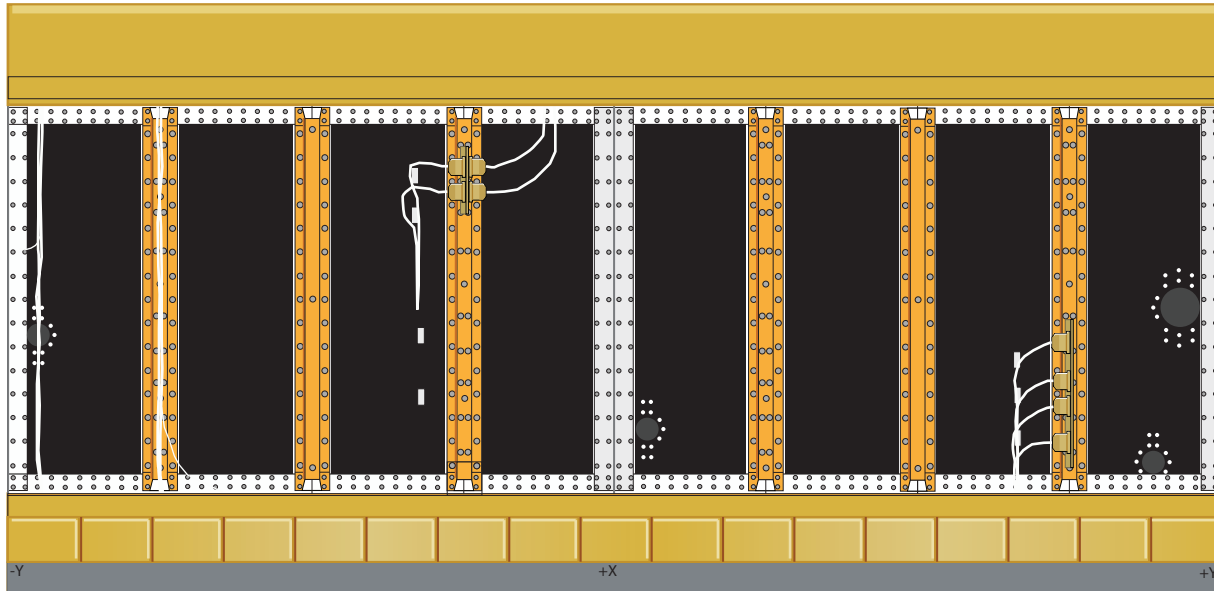


Print on Cardstock (110 lbs)

MMS

Observatory No. 1 (Gold) Thrust Tube

1:16 Scale



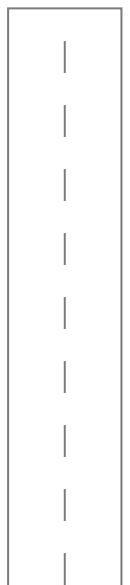
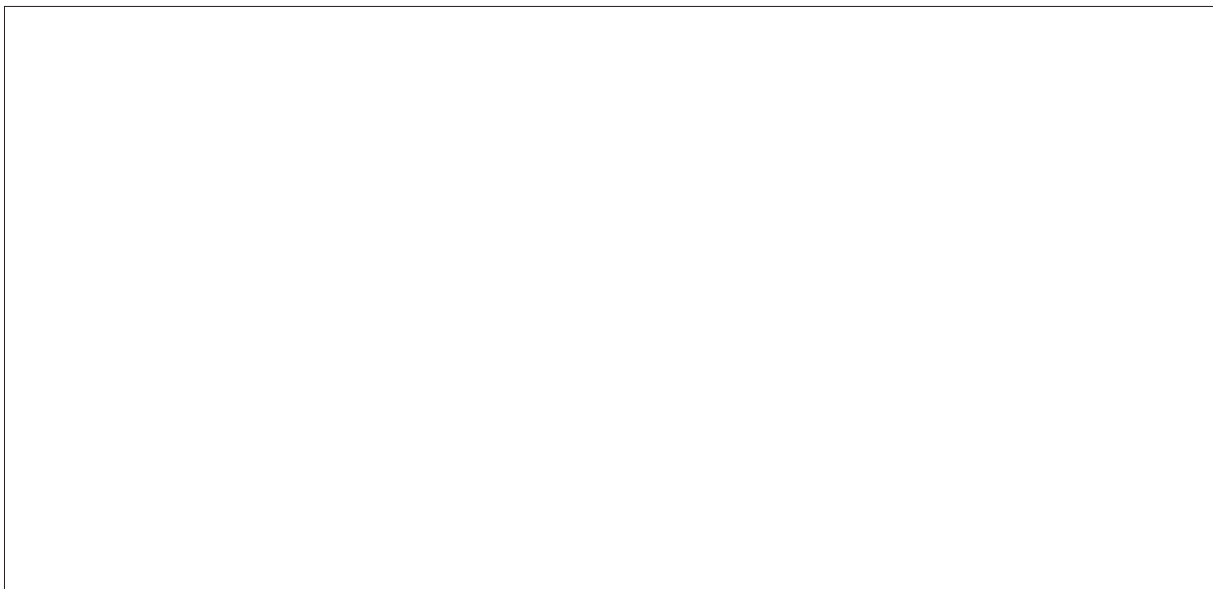
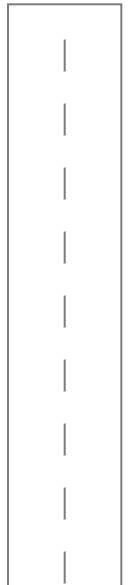
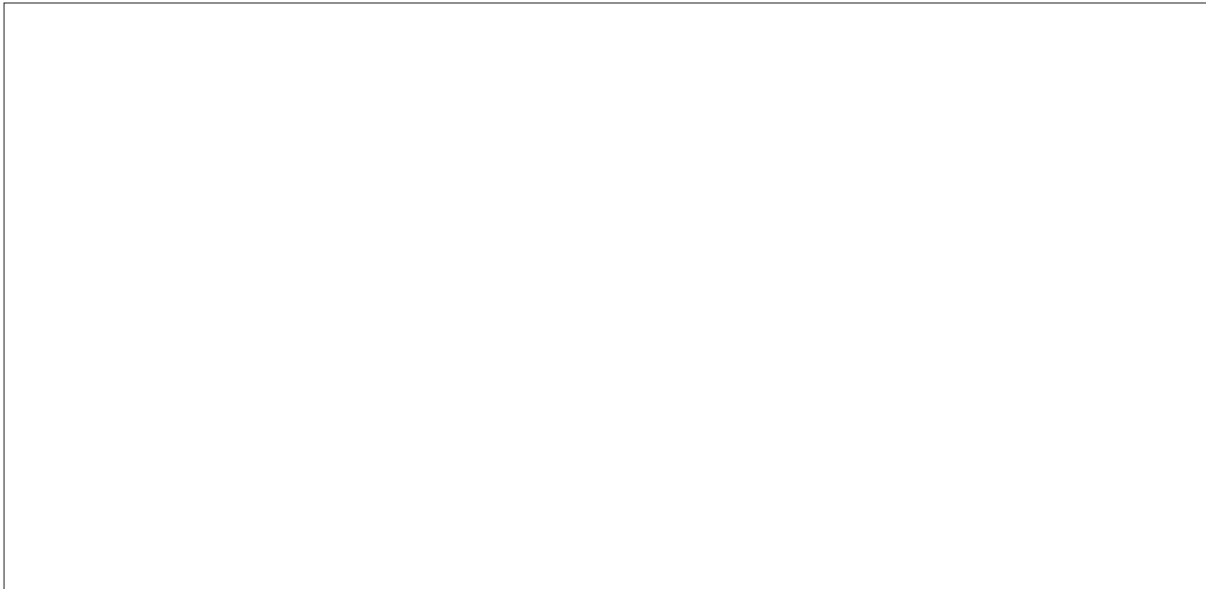


MMS

Print on Cardstock (110 lbs)

Thrust Tube
(middle skin)

1:16 Scale



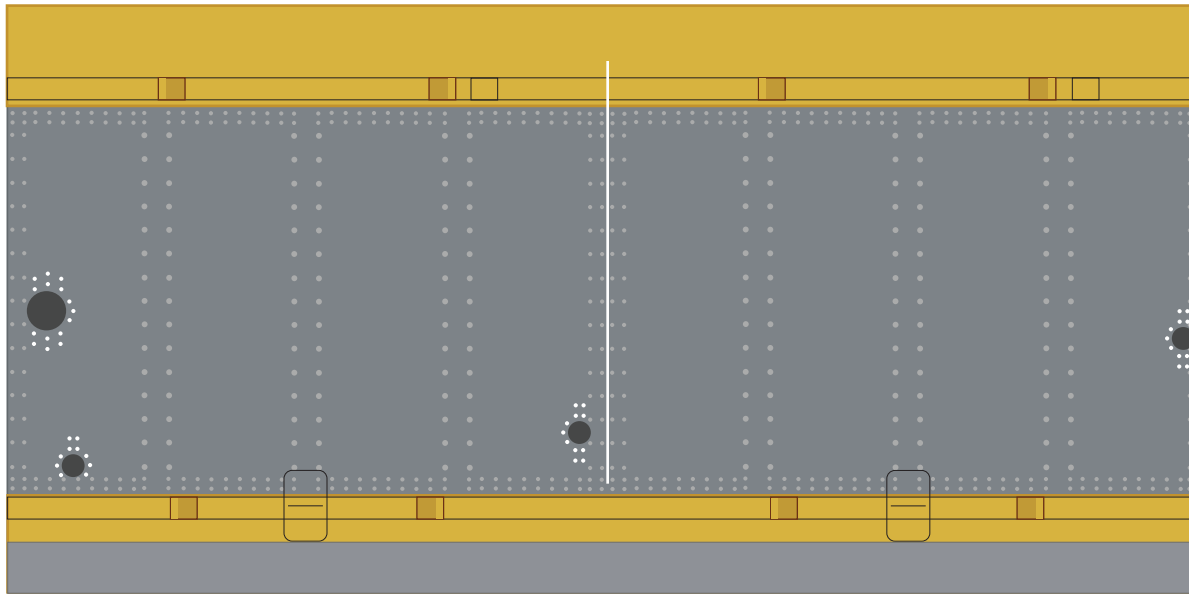


MMS

Print on Cardstock (110 lbs)

Thrust Tube
(inner skin)

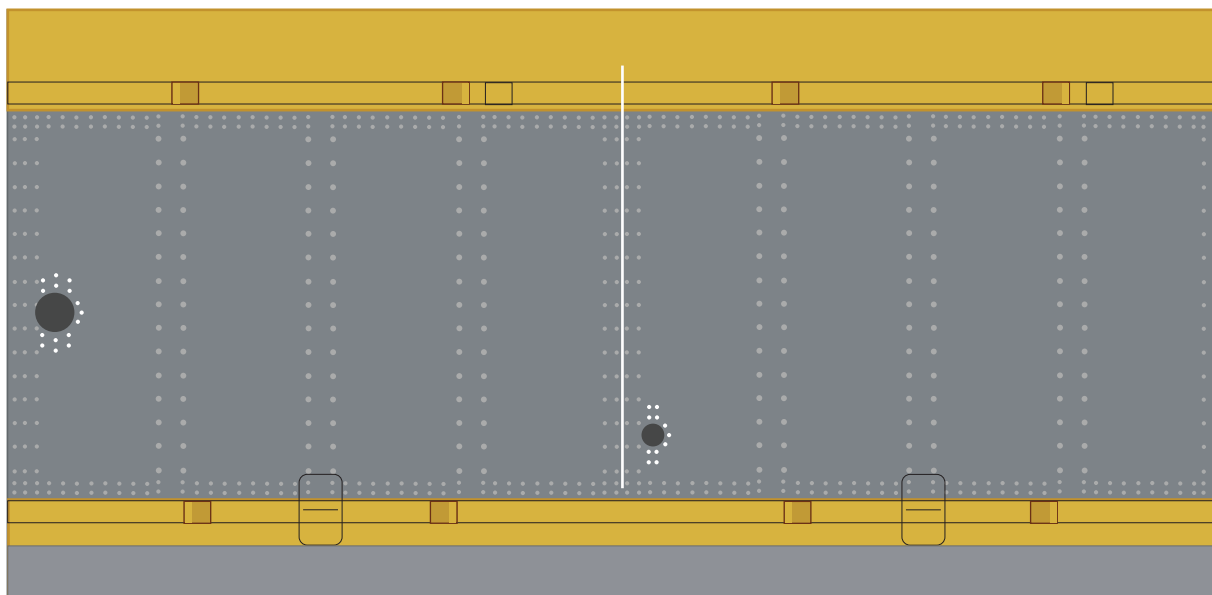
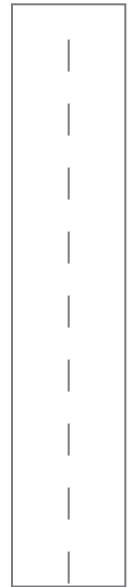
1:16 Scale



+Y

+X

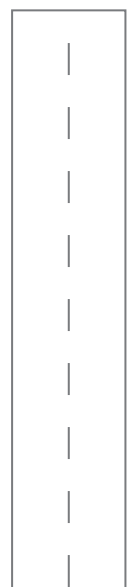
-Y



-Y

-X

+Y



White line indicates where to glue the thrust tube divider that has the small black box (-X and +X)



1 cm
1 inch

MMS

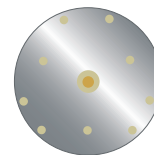
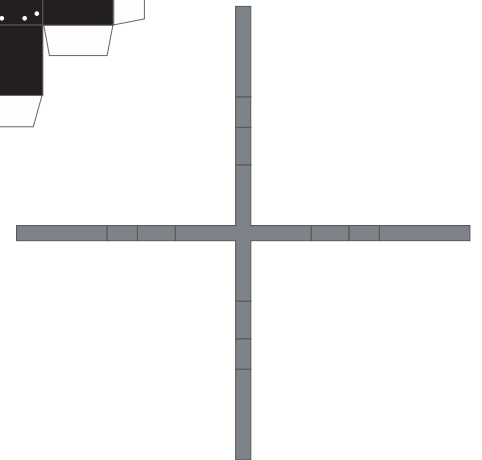
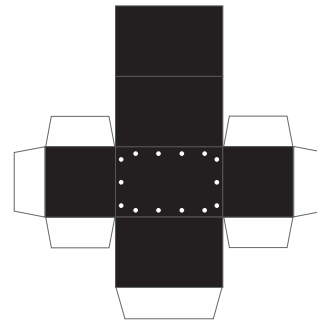
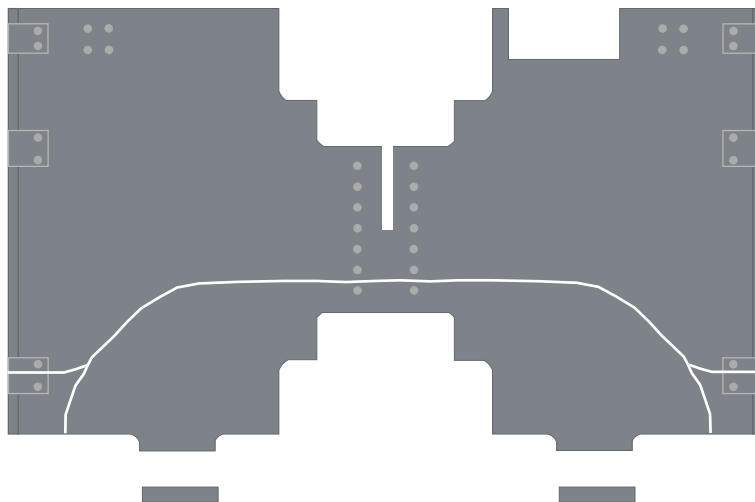
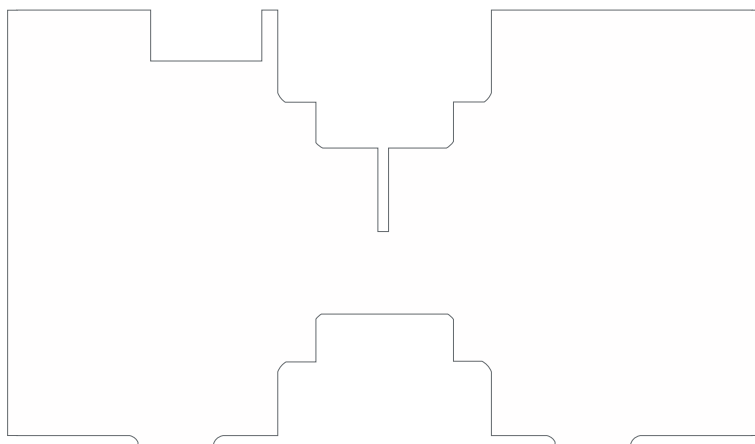
Print on Cardstock (110 lbs)

Thrust Tube

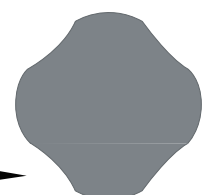
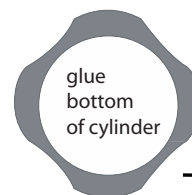
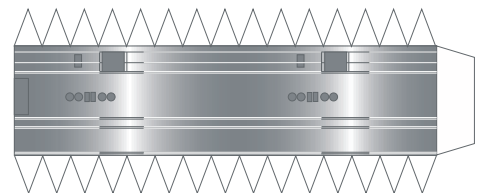
(Divider panels)



1:16 Scale



glue
to top





1 cm

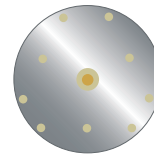
1 inch

MMS

Print on Cardstock (110 lbs)

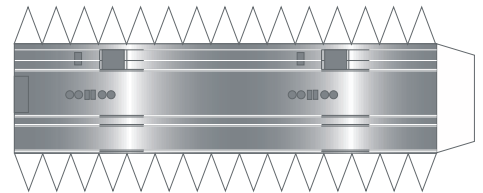
Thrust Tube

(Divider panels #2)

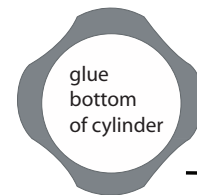


glue
to top

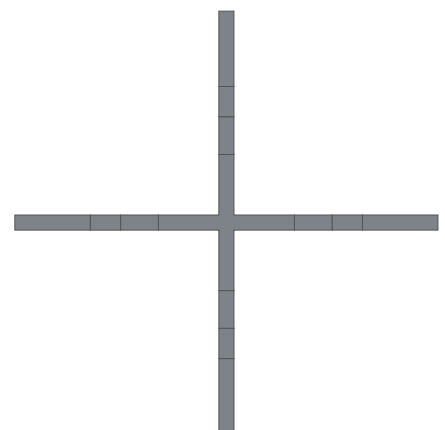
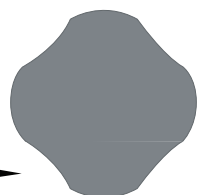
top



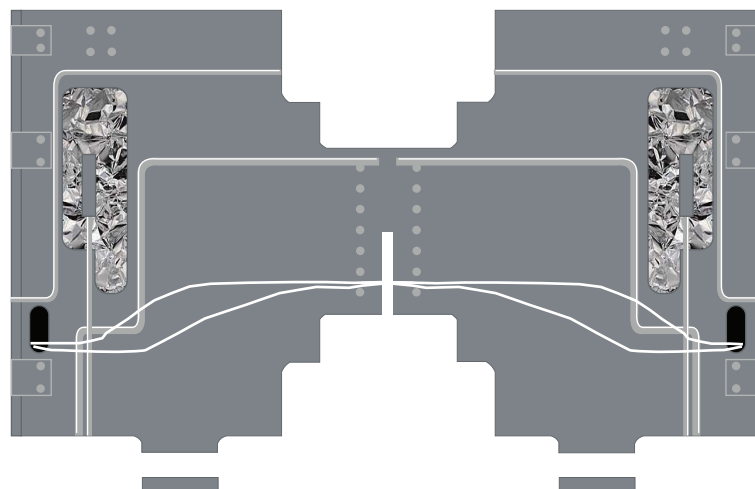
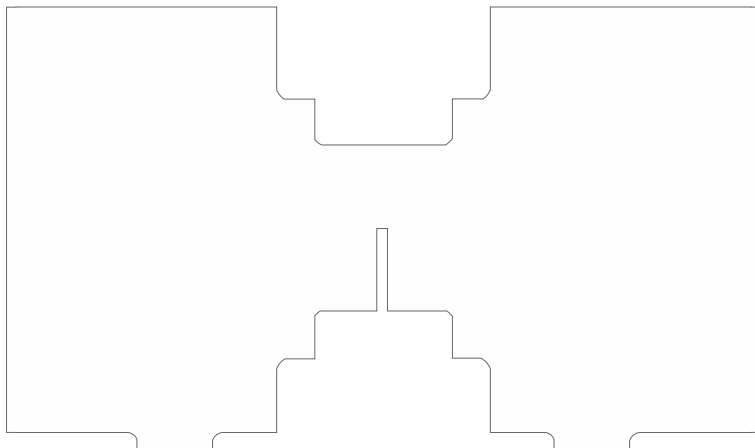
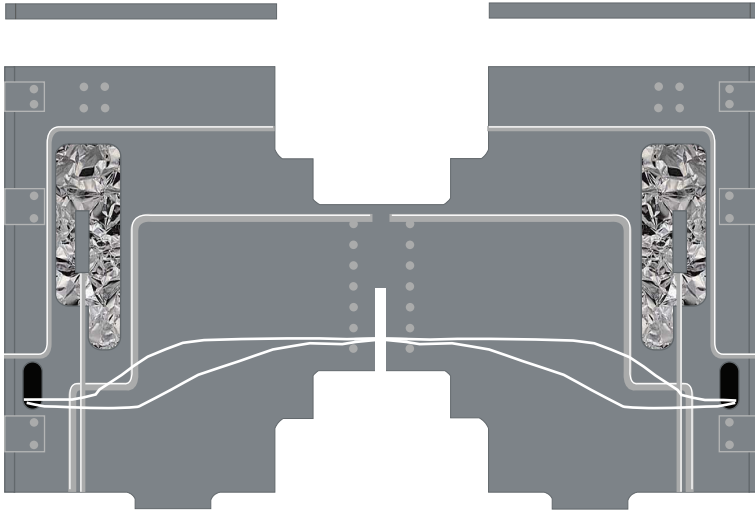
bottom



glue
bottom
of cylinder



1:16 Scale



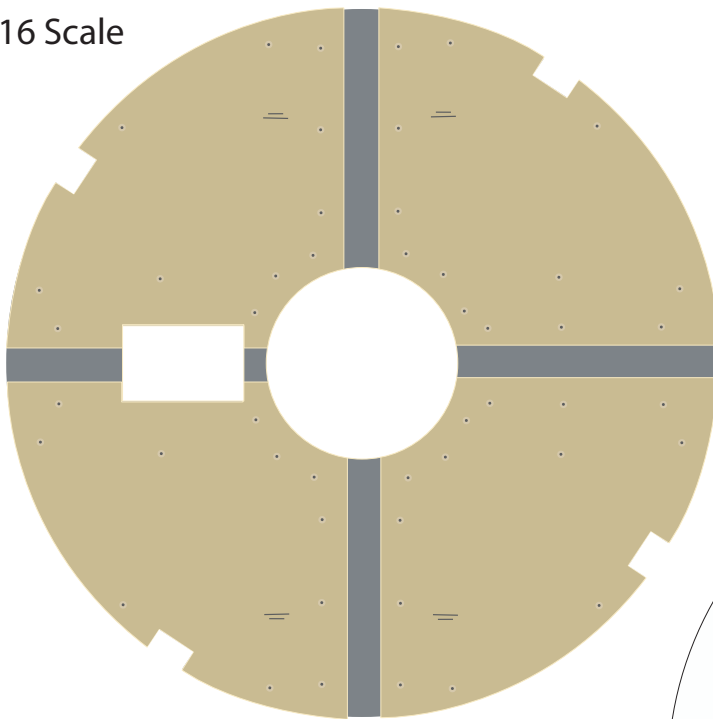


MMS

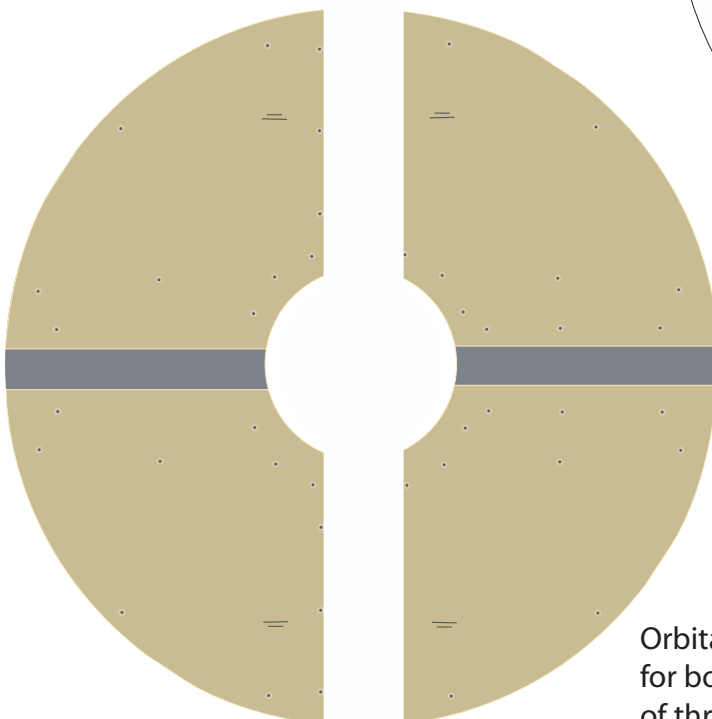
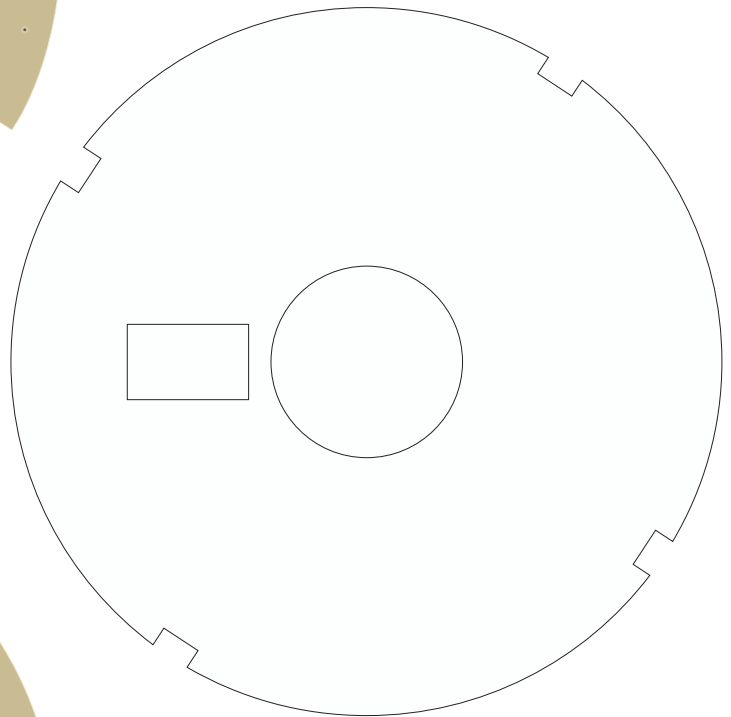
Print on Cardstock (110 lbs)

Orbital Debris Panels

1:16 Scale



Orbital Debris Panels
for upper section
of thrust tube



Orbital Debris Panels
for bottom section
of thrust tube

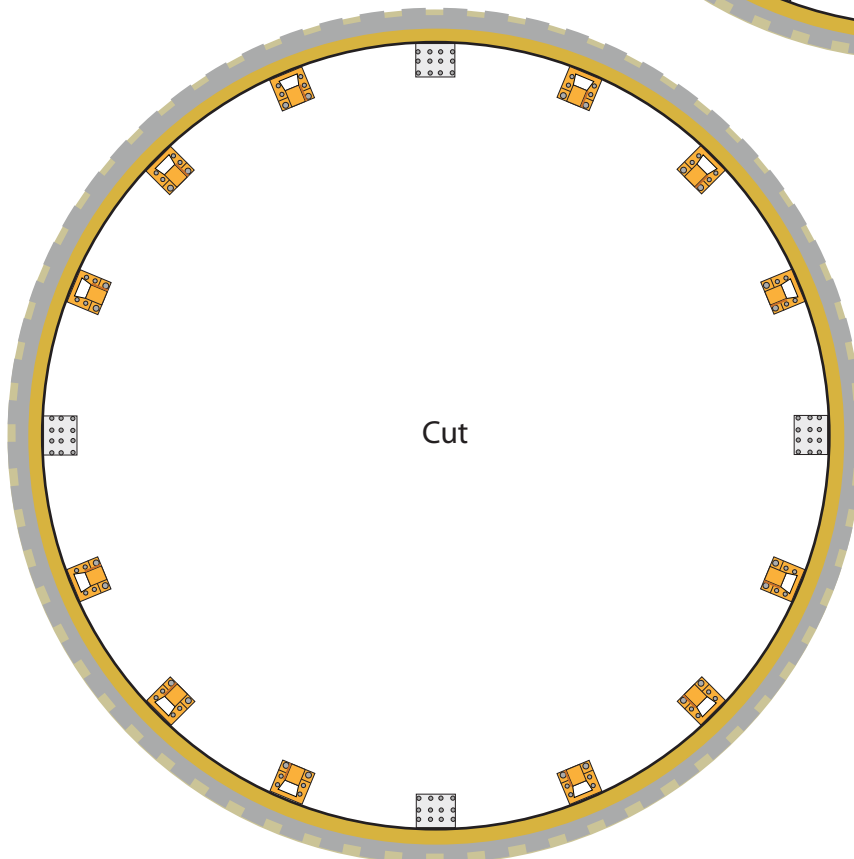
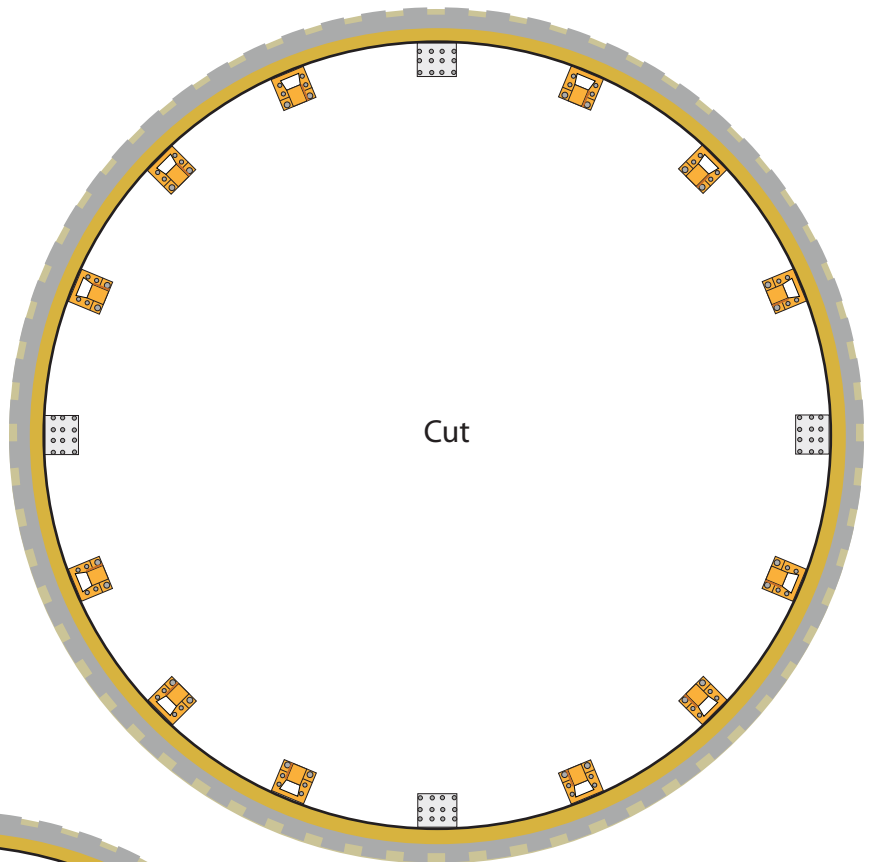


1:16 Scale

MMS

Print on Cardstock (110 lbs)

Thrust tube rings





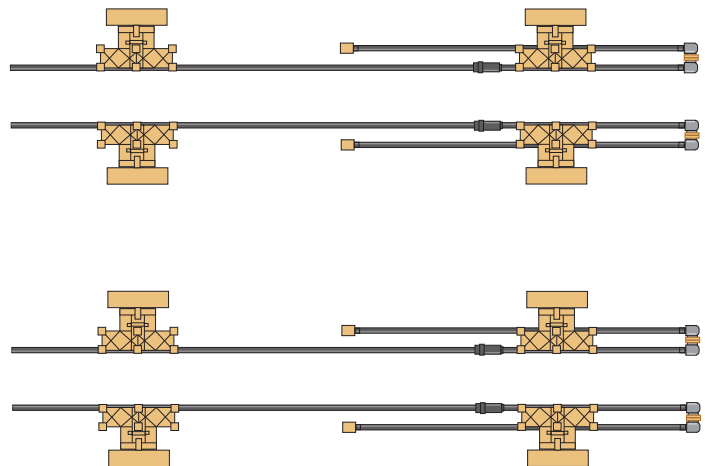
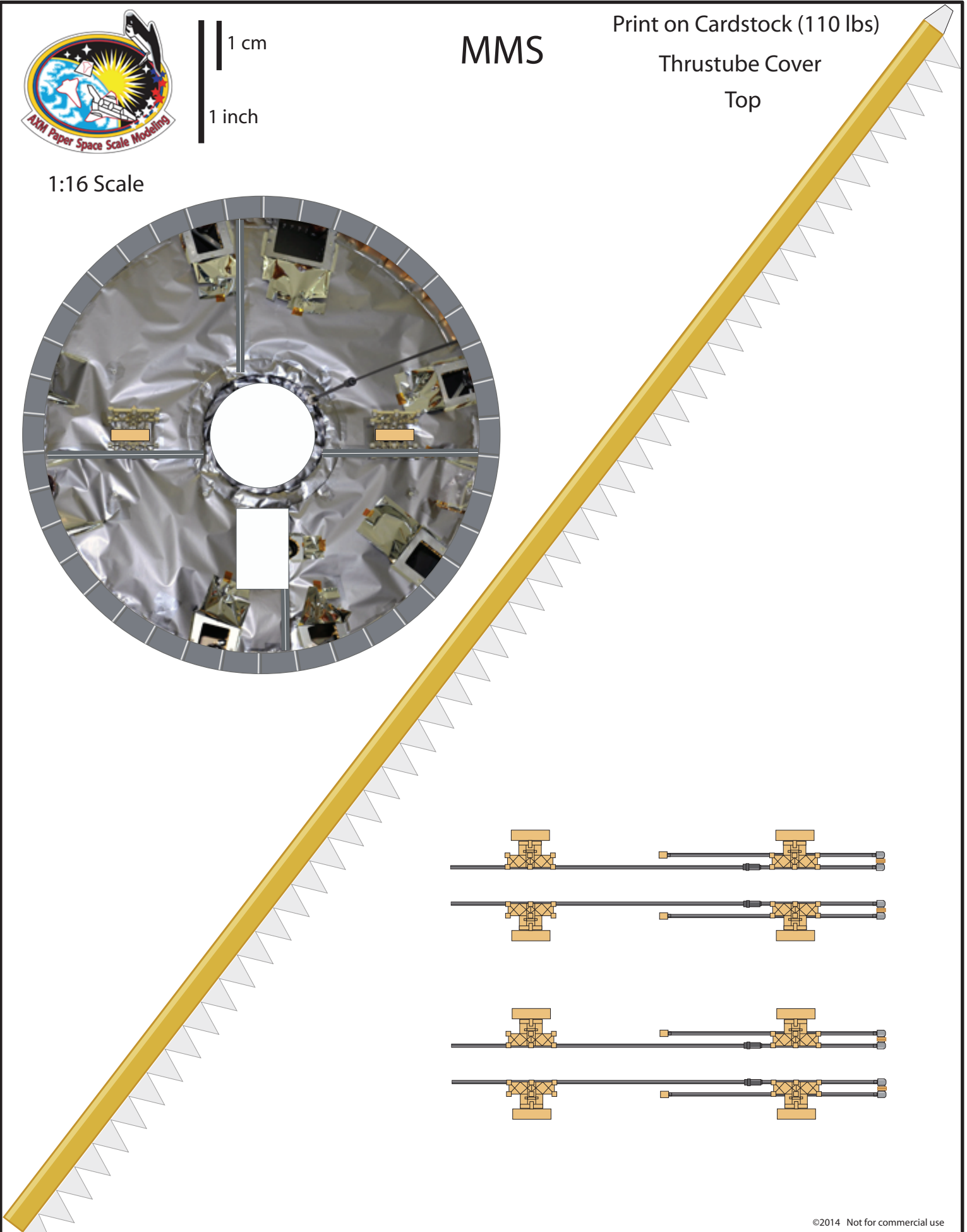
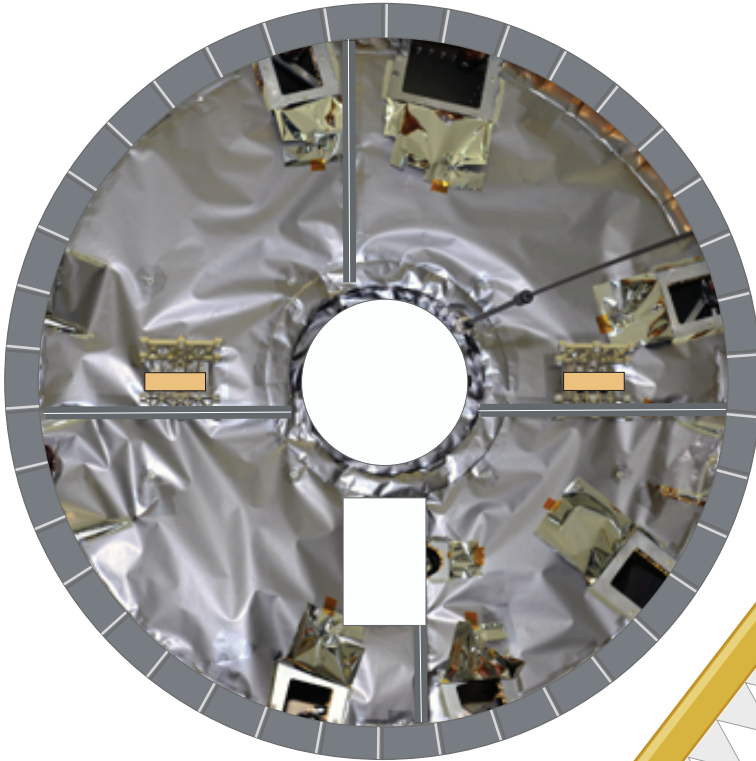
MMS

Print on Cardstock (110 lbs)

Thrustube Cover

Top

1:16 Scale





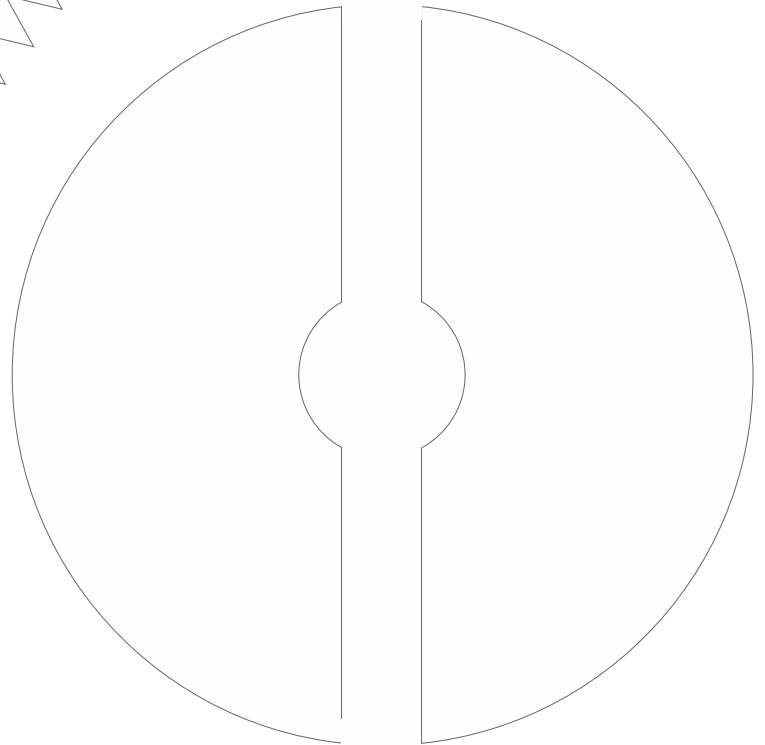
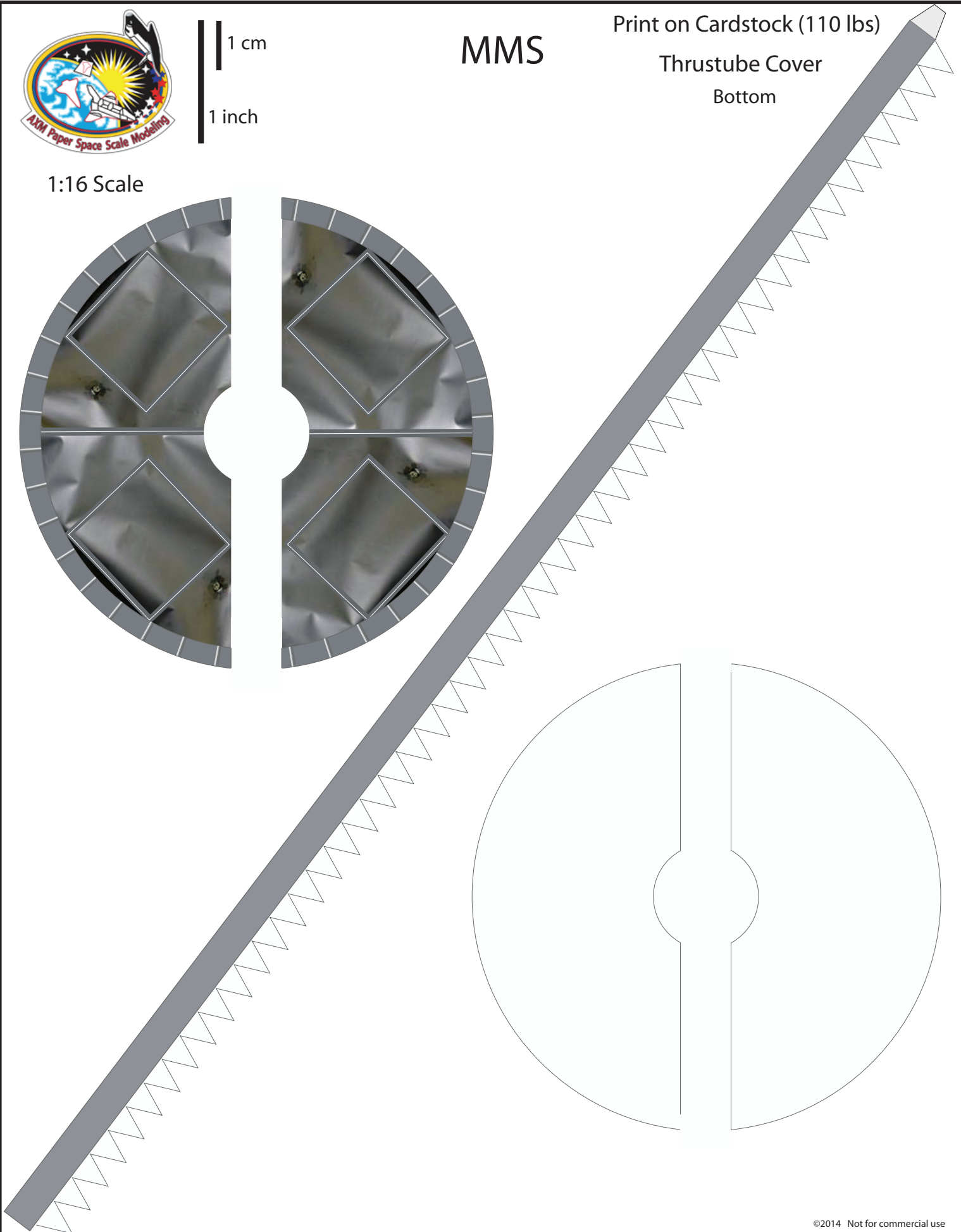
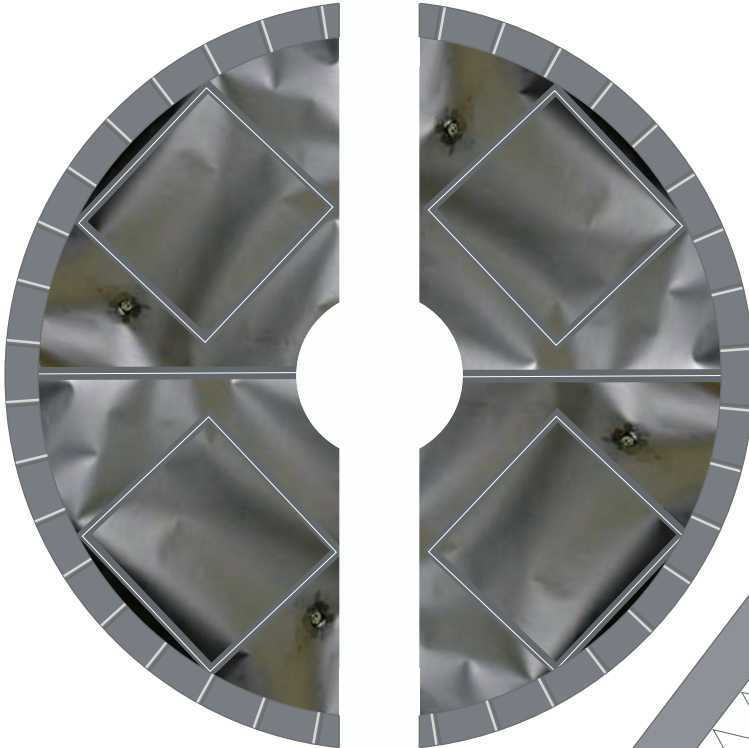
MMS

Print on Cardstock (110 lbs)

Thrustube Cover

Bottom

1:16 Scale





1 cm

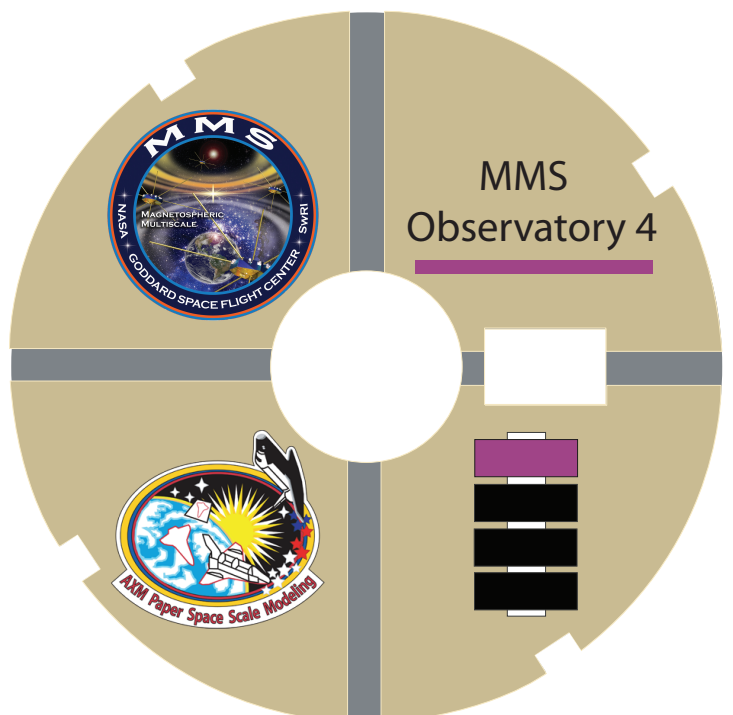
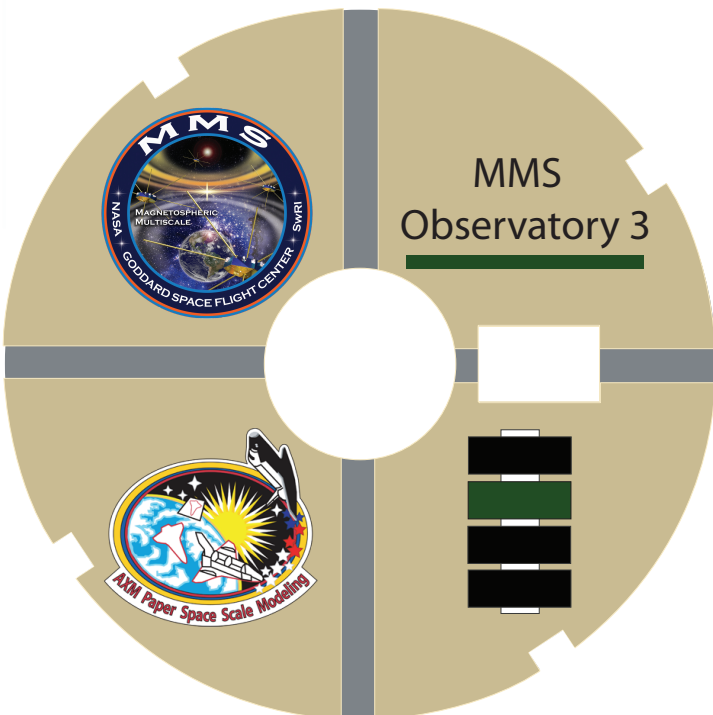
1 inch

MMS

Print on Cardstock (110 lbs)

All Observatories
Top Debris Panels (back side)

1:16 Scale





1 cm

1 inch

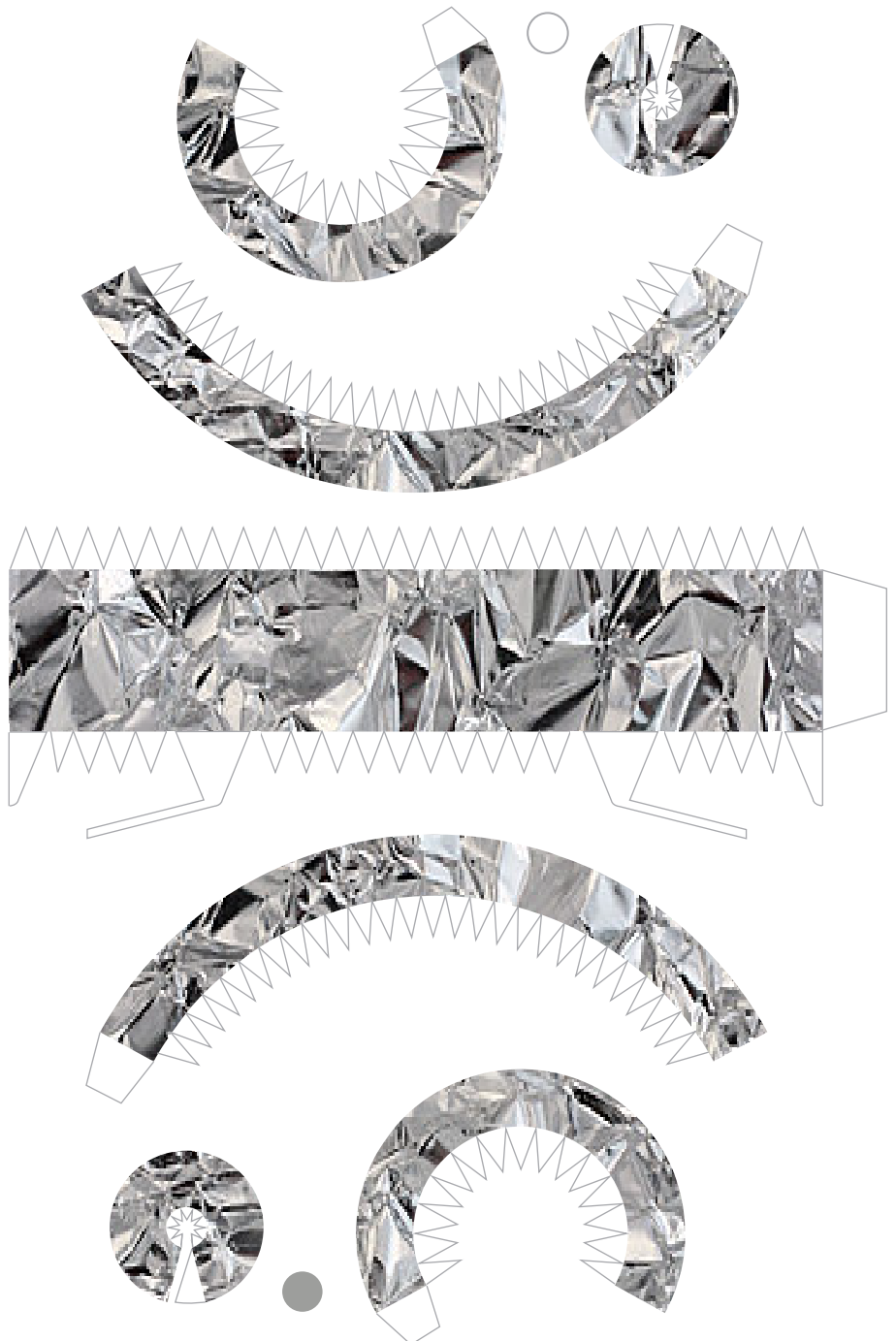
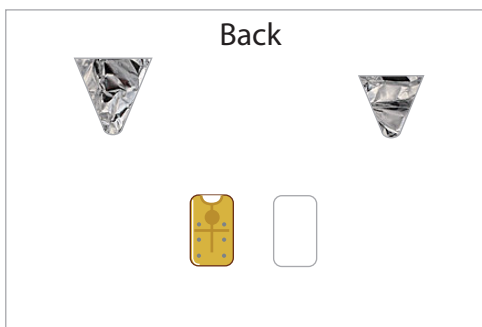
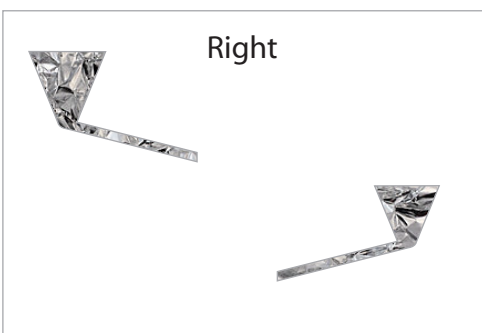
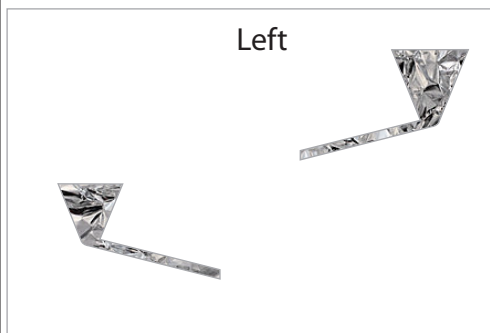
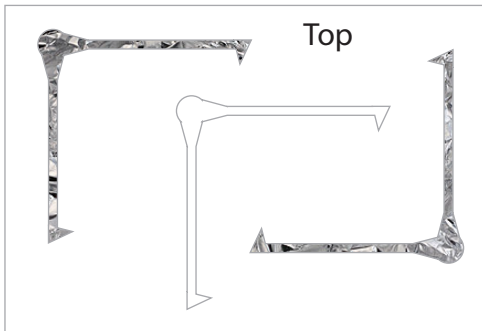
1:16 Scale

MMS

Print on Cardstock (110 lbs)

Propulsion Tank

X 4 prints





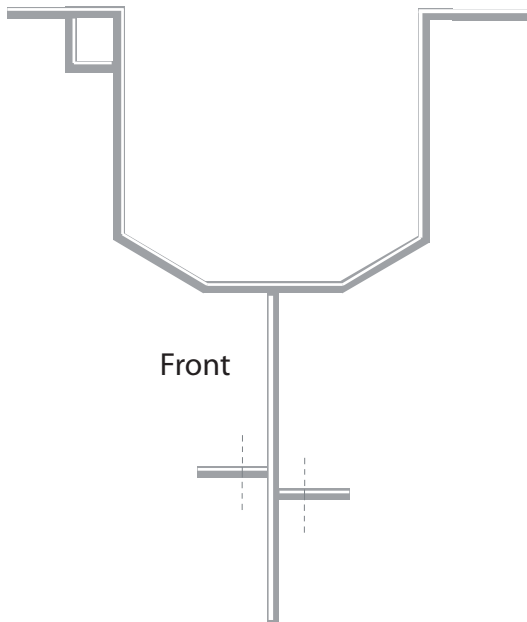
MMS

Print on Cardstock (110 lbs)

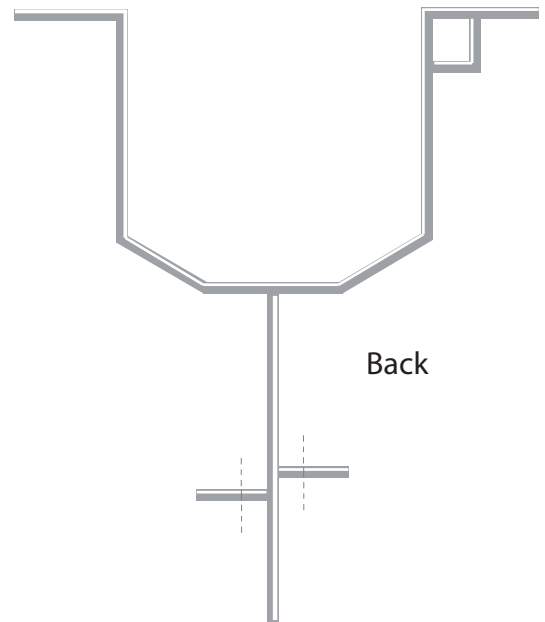
Propulsion Lines

1:16 Scale

Bay 7

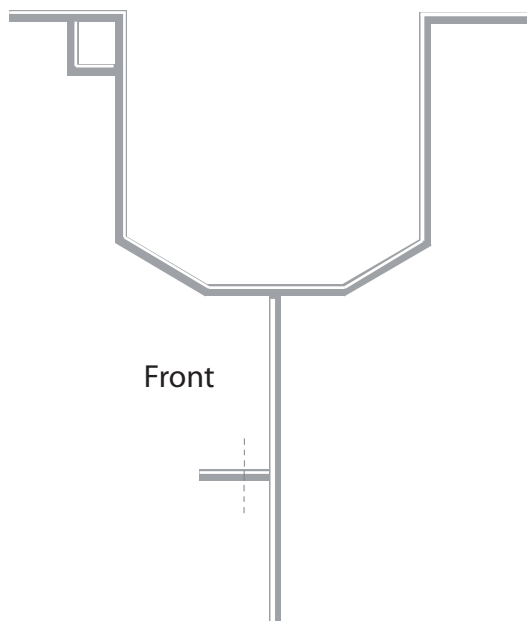


Front

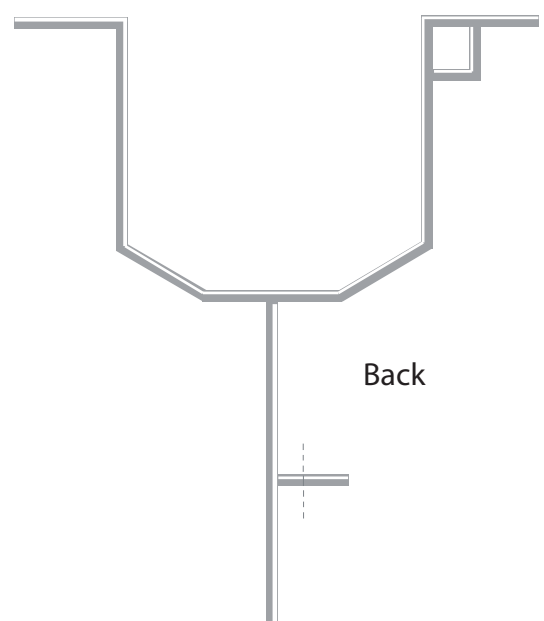


Back

Bay 3



Front



Back



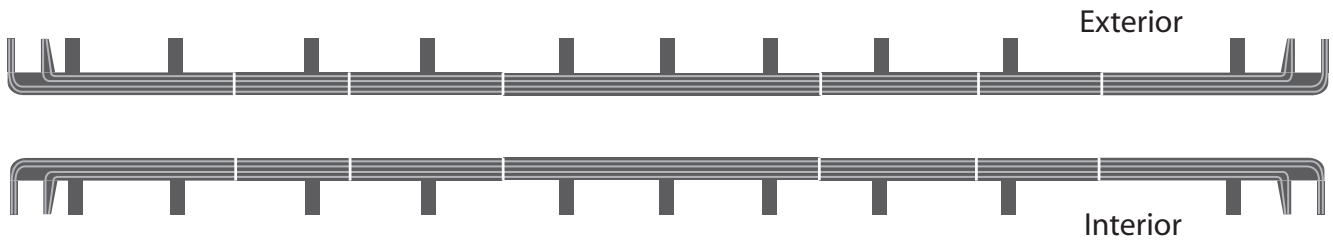
MMS

Print on Cardstock (110 lbs)

Propulsion Lines
Lower Deck

1:16 Scale

Bay 3



Both are glued together to make one piece

Bay 7



Both are glued together to make one piece



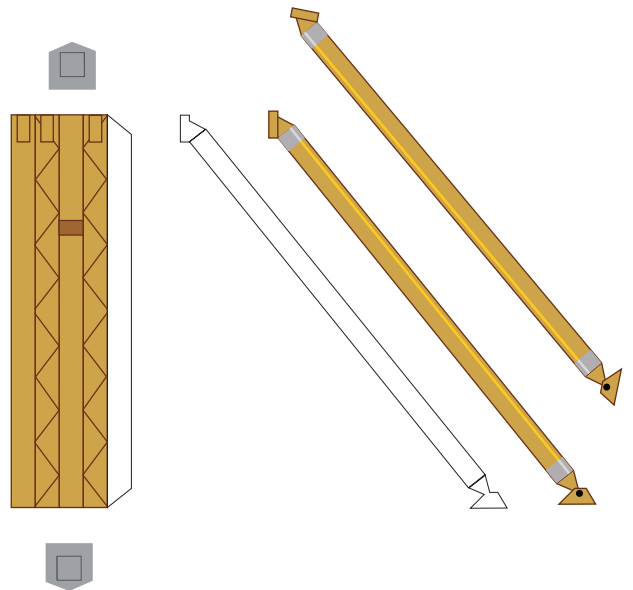
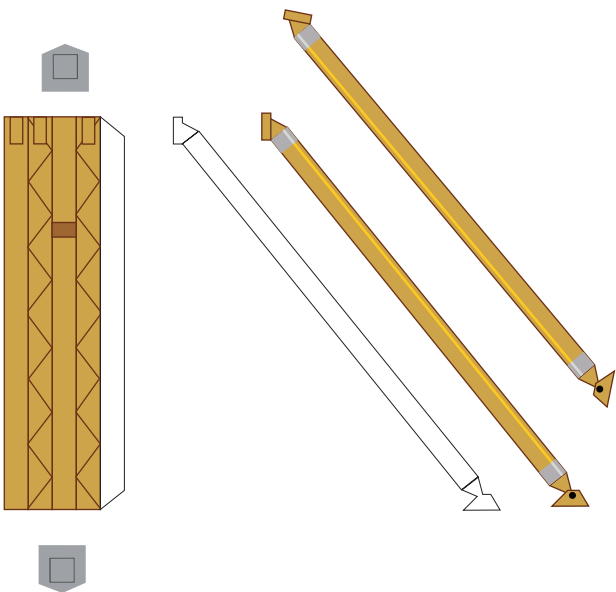
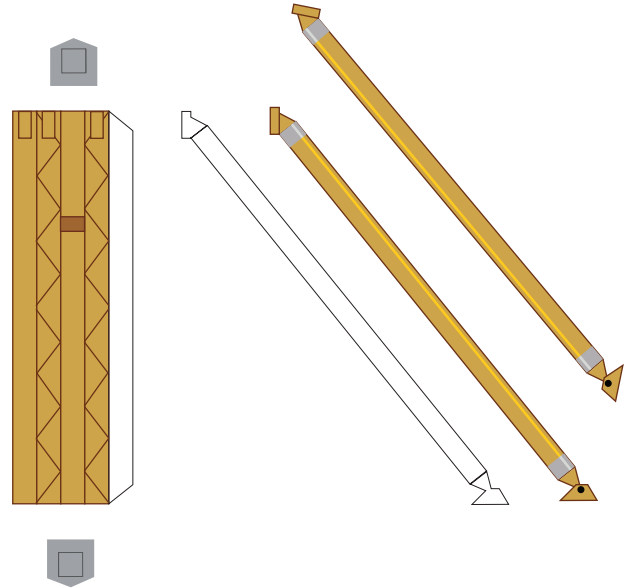
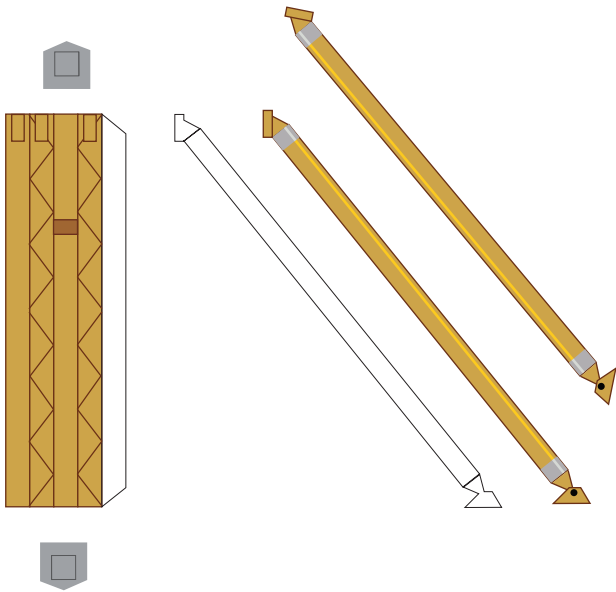
MMS

Print on Cardstock (110 lbs)

Struts

Print X 2

1:16 Scale





1:16 Scale

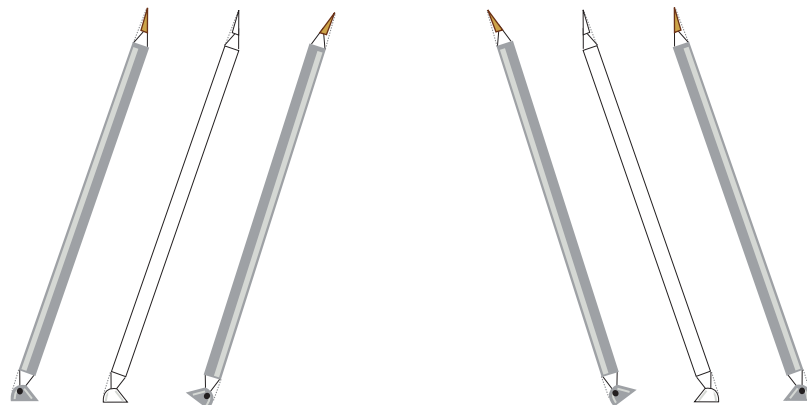
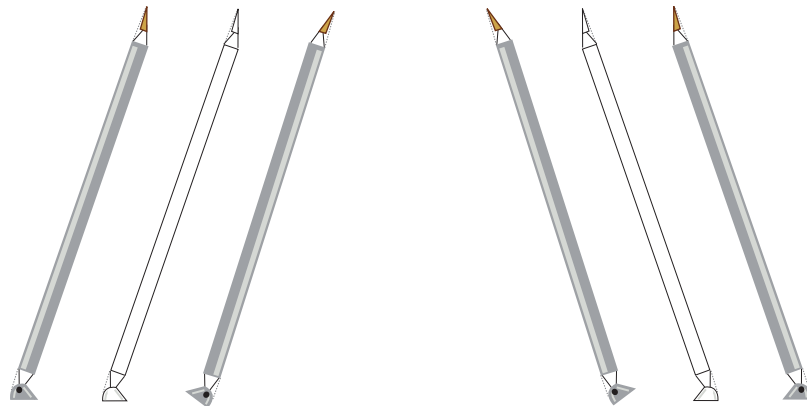
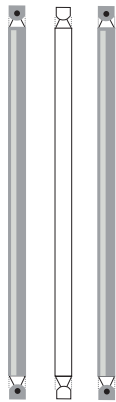
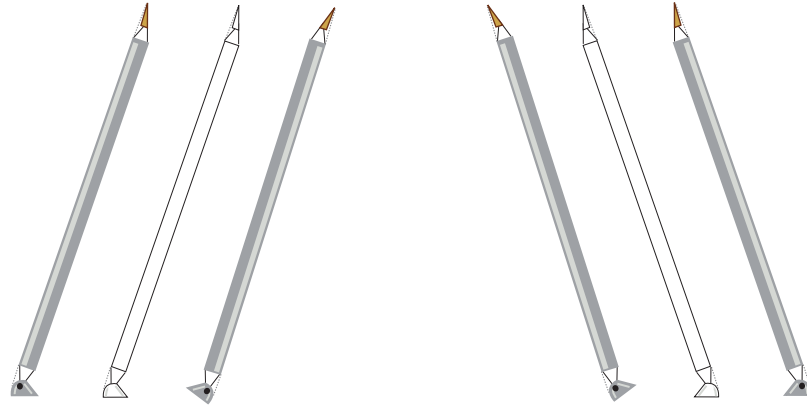
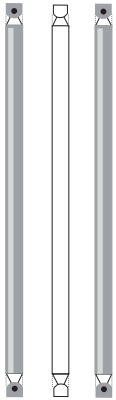
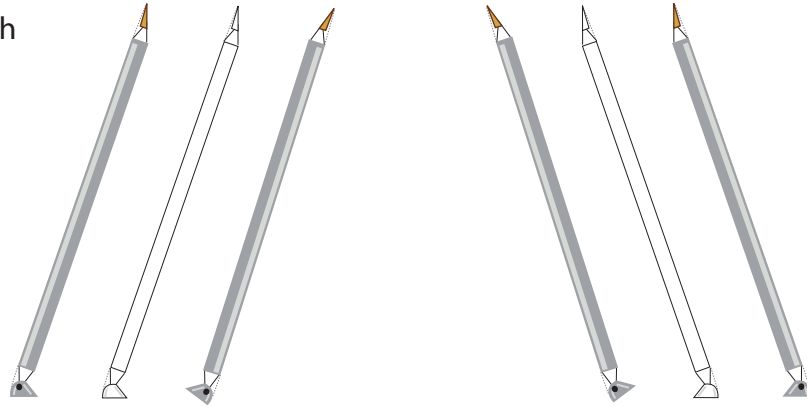


MMS

Print on Cardstock (110 lbs)

Struts #2

Print X 2



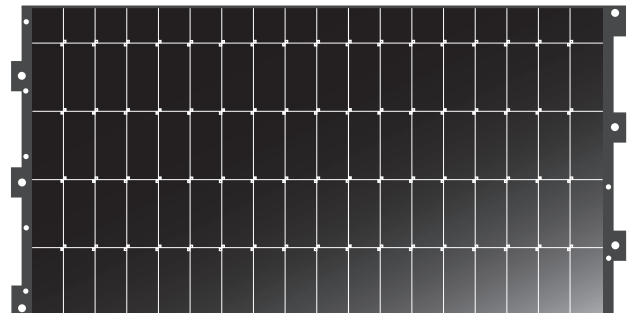
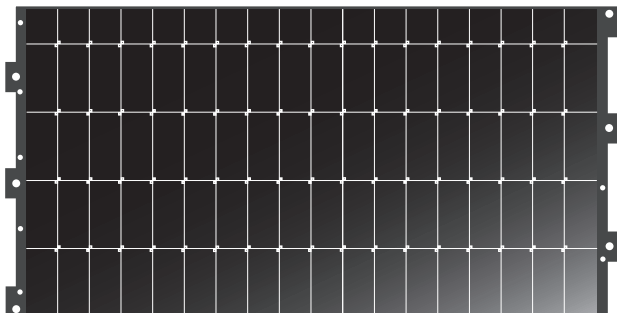
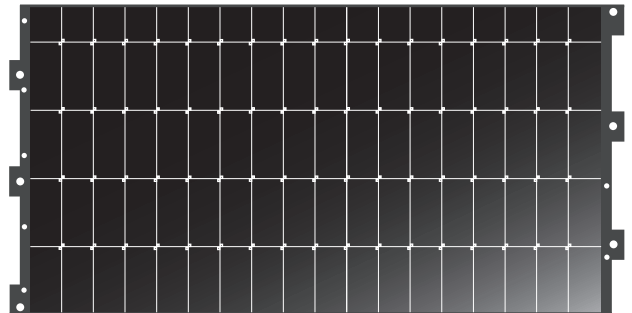
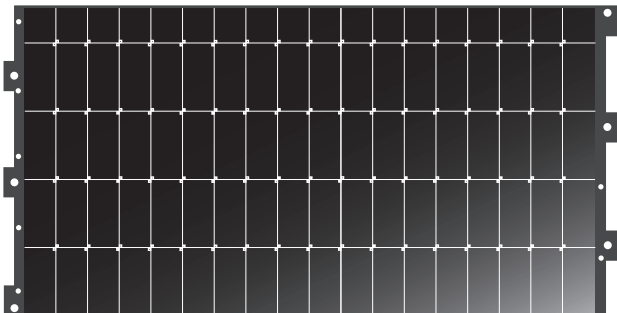
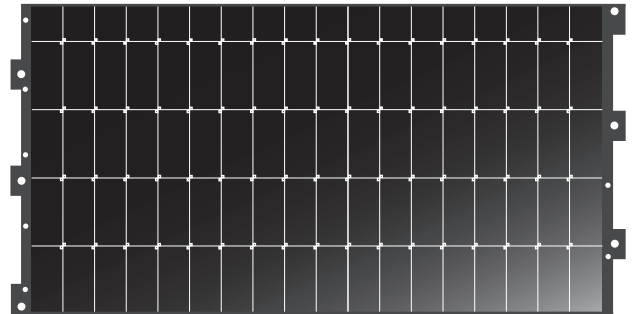
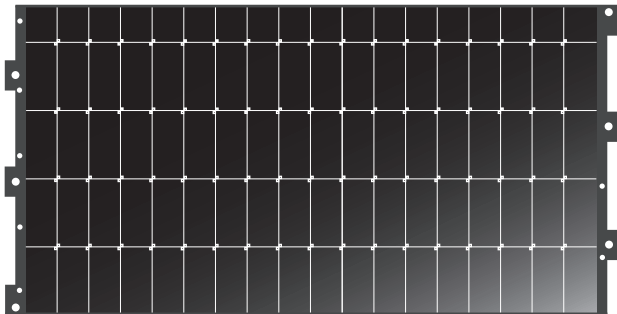
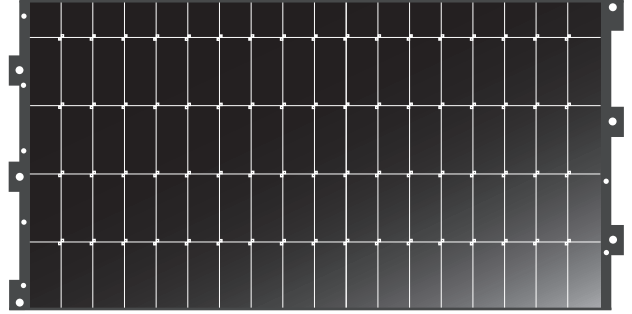
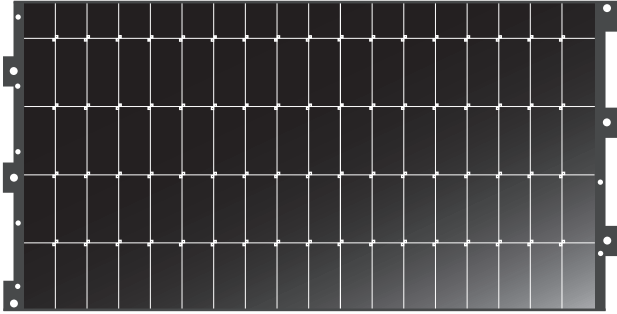


MMS

Print on Cardstock (110 lbs)
(Glossy or Photo Paper)

Solar Panels

1:16 Scale





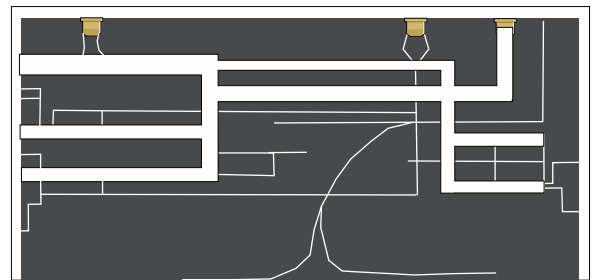
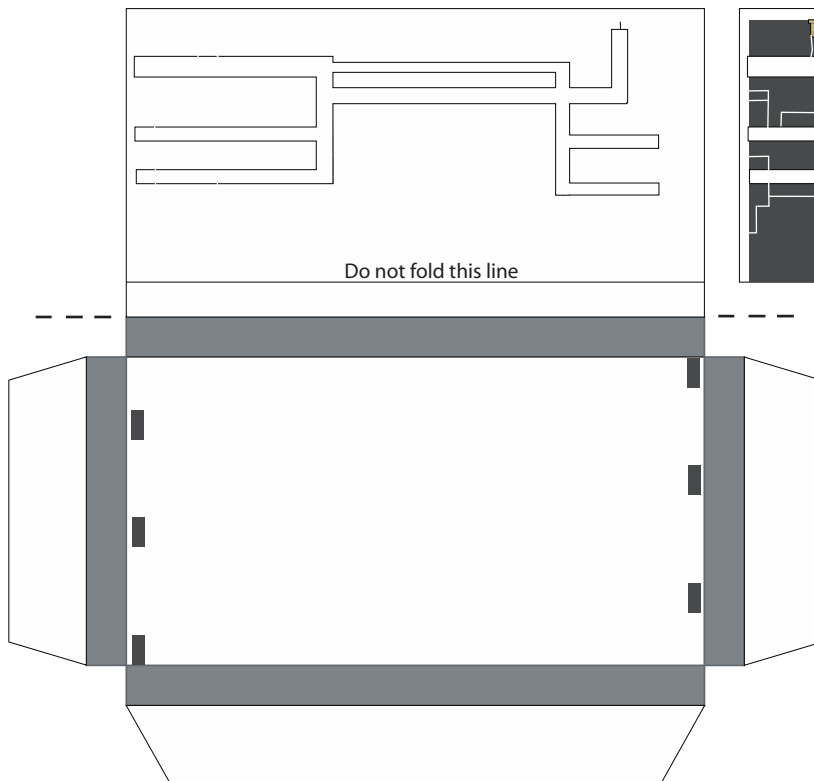
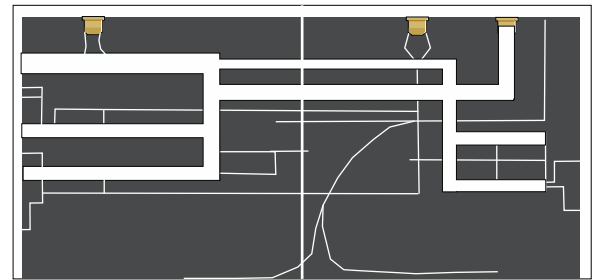
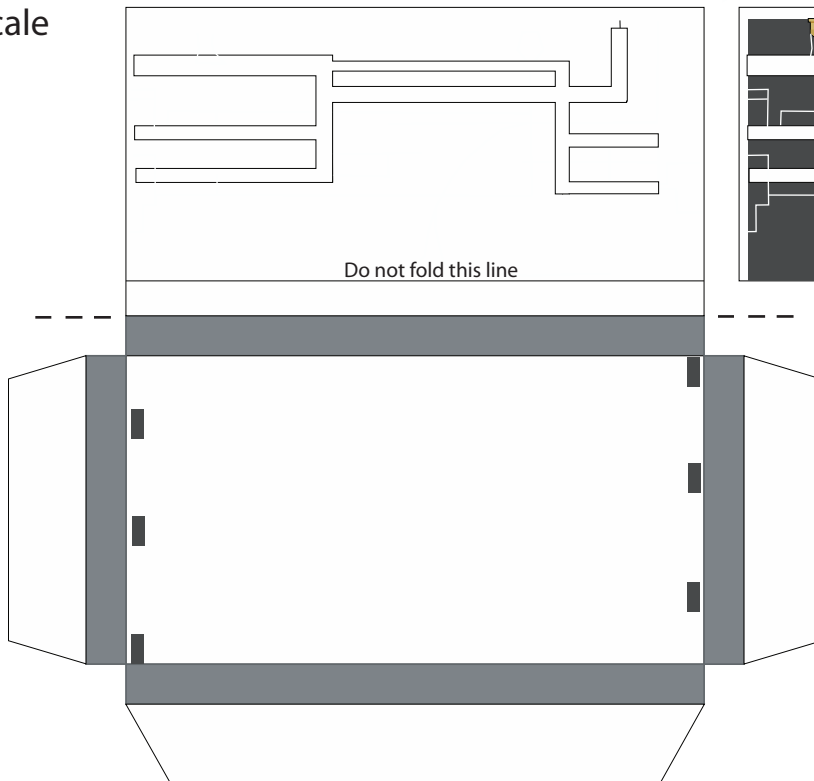
MMS

(Print X 4)

Print on Cardstock (110 lbs)

Solar Panels

1:16 Scale





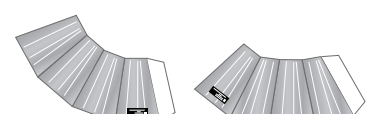
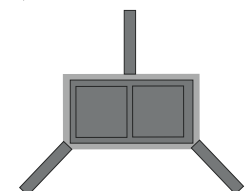
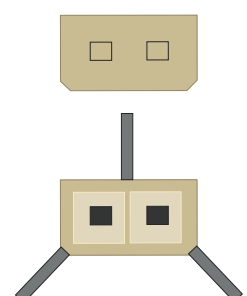
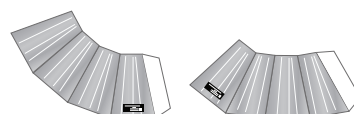
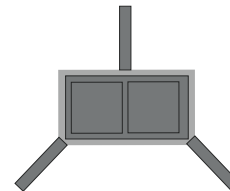
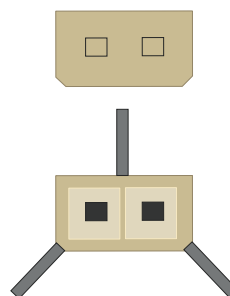
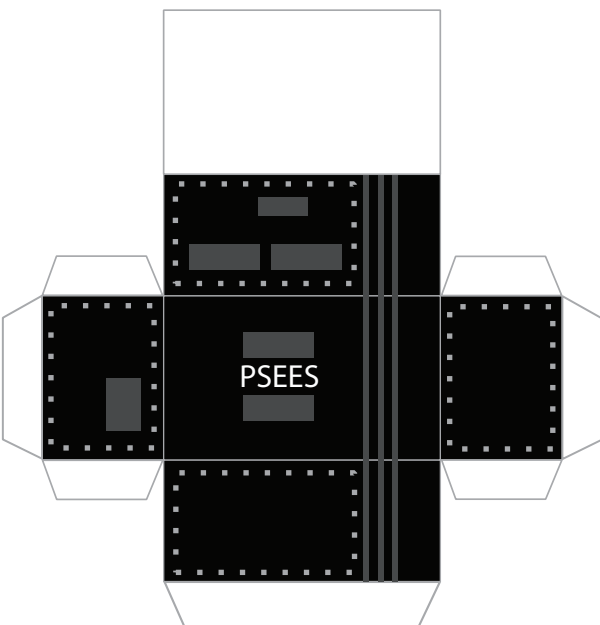
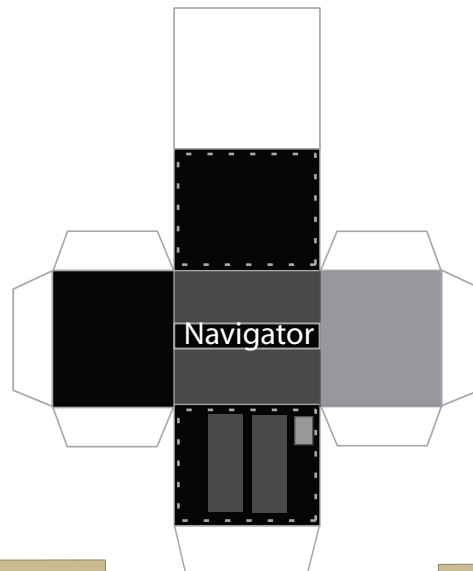
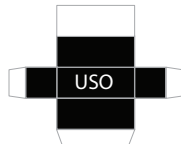
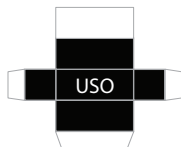
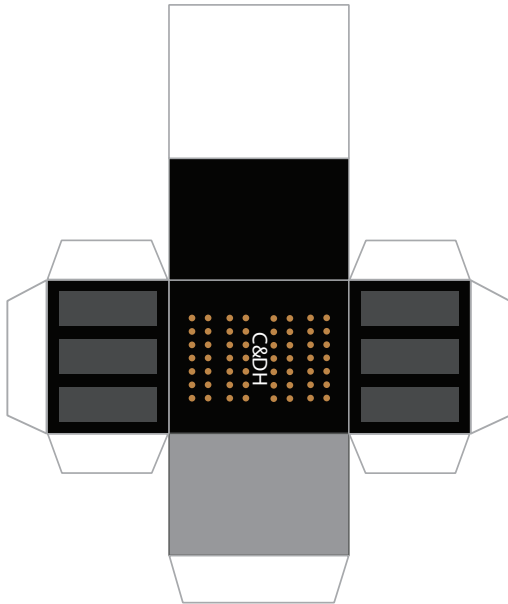
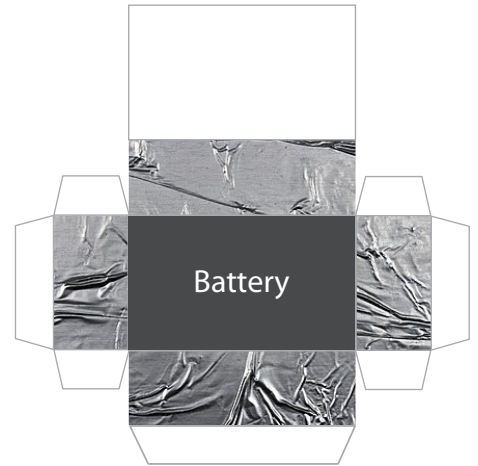
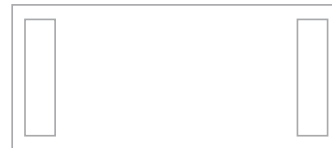
1:16 Scale

MMS

Print on Cardstock (110 lbs)

Spacecraft Deck Instruments (Lower deck)

Battery's red cover
(optional)



Star
Sensors

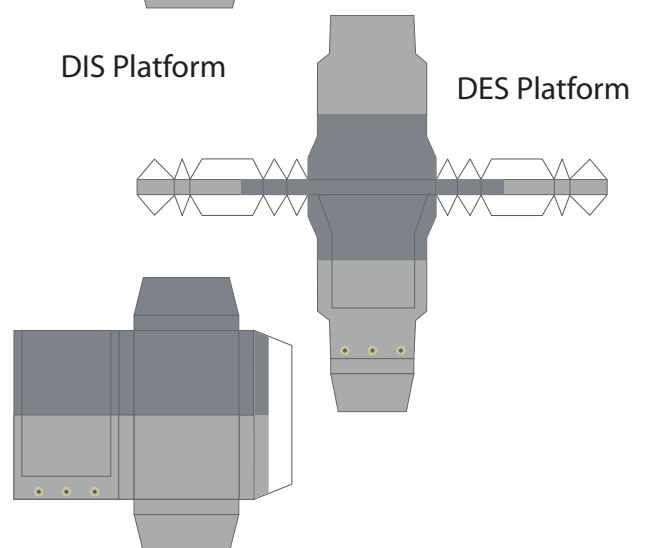
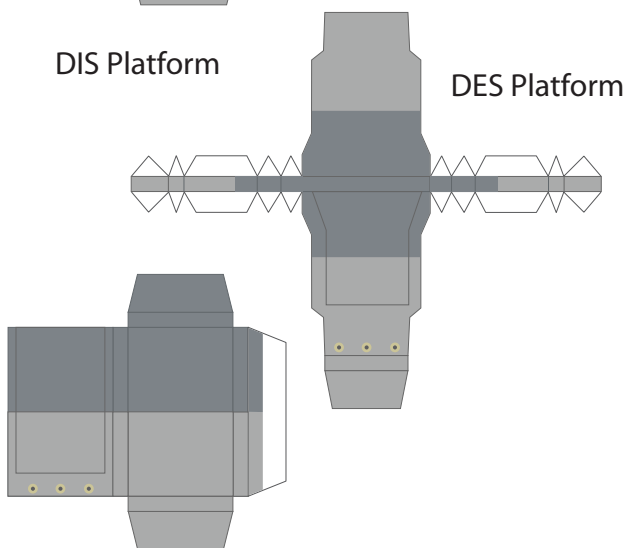
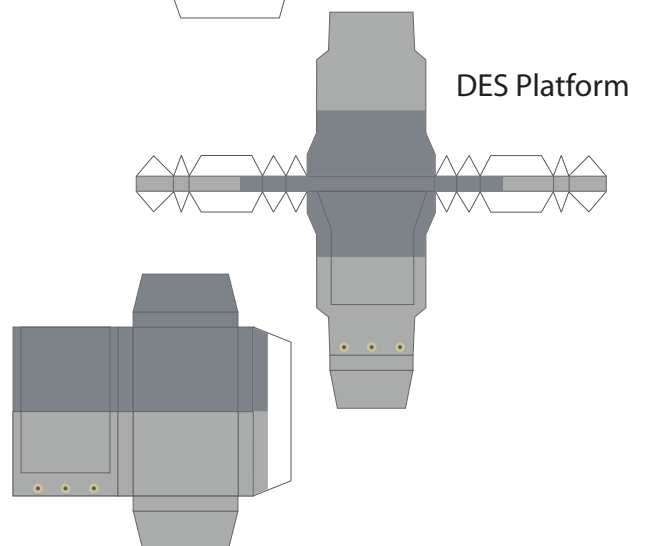
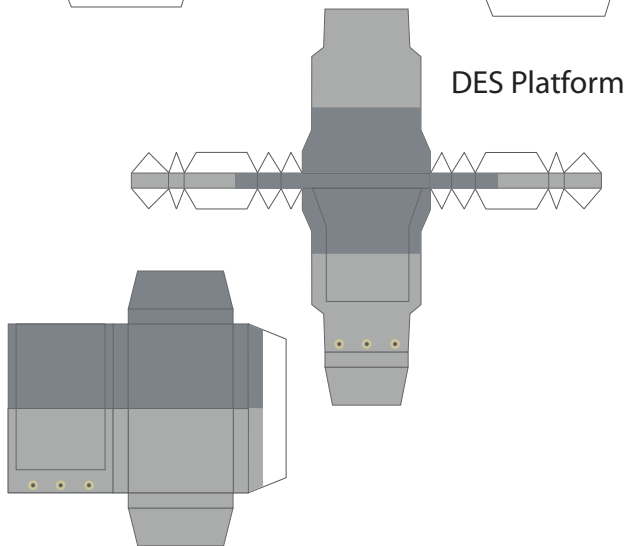
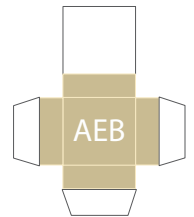
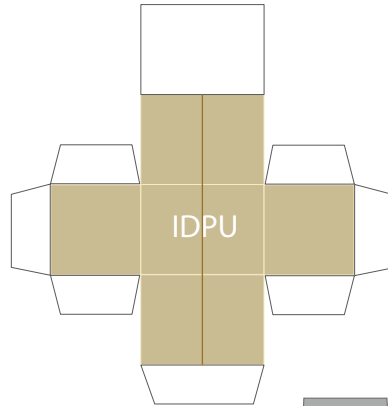
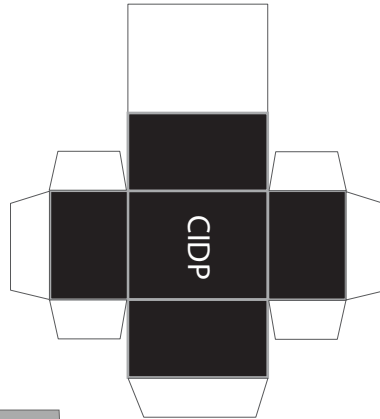
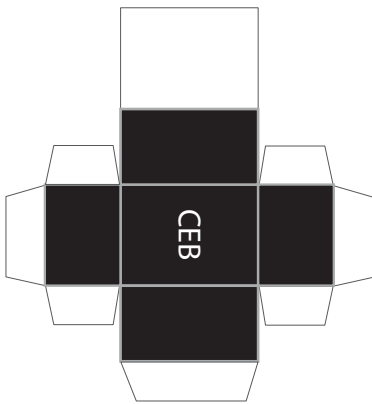


MMS

Print on Cardstock (90 lbs)

Instrument Deck components (Upper deck)

1:16 Scale



DIS Platform

DIS Platform

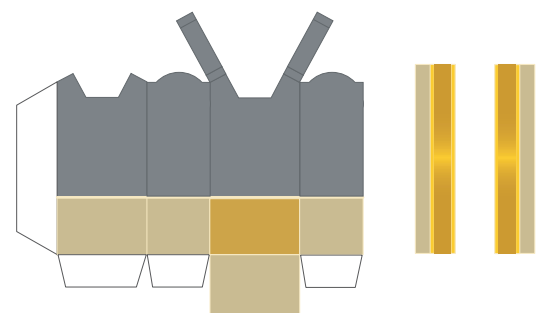
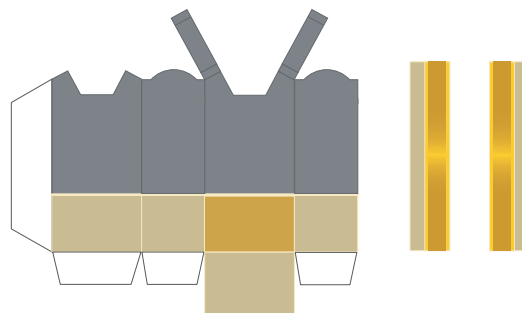
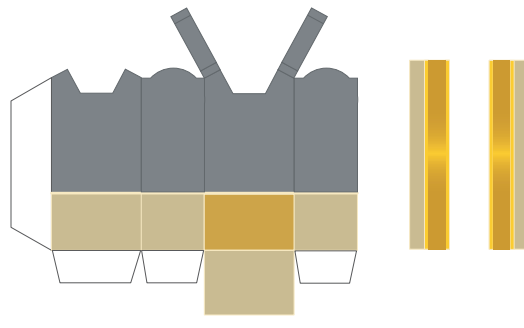
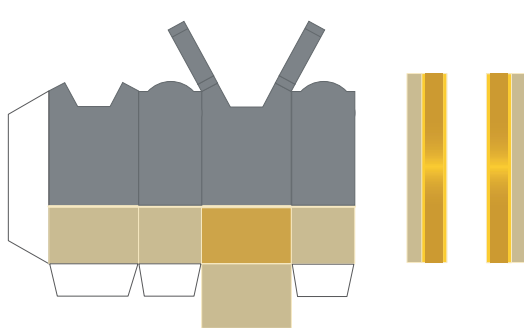
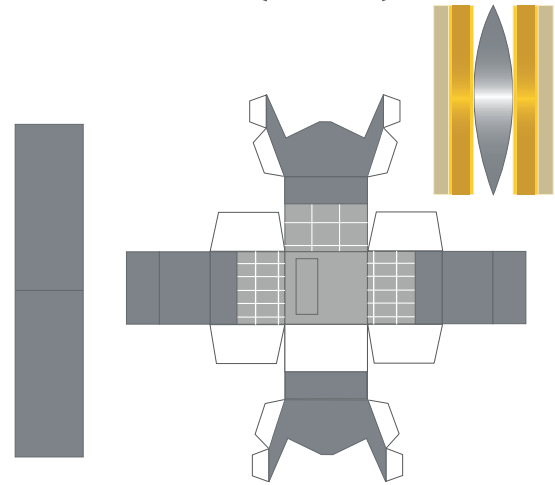
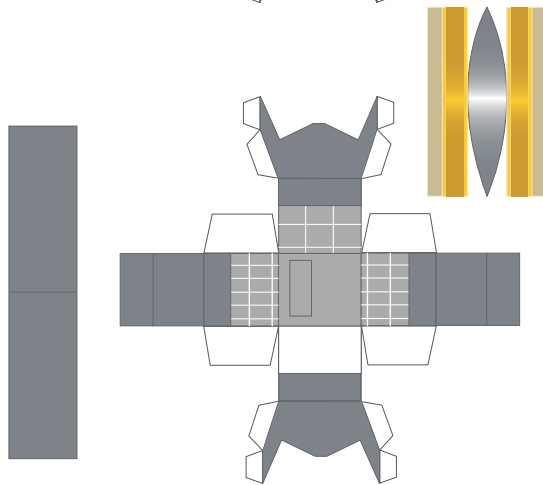
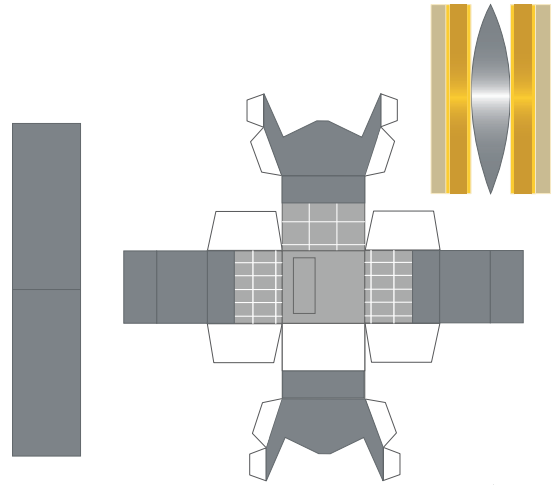
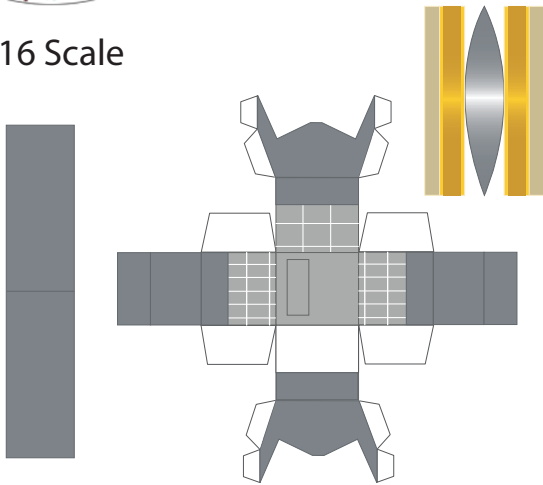


MMS

Print on Cardstock (90 lbs)

Instrument Deck components (Upper deck)

1:16 Scale





1 cm

1 inch

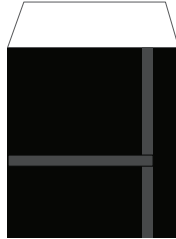
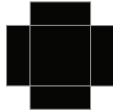
MMS

Print on Cardstock (90 lbs)

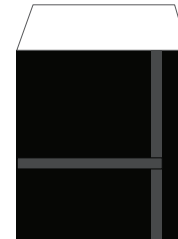
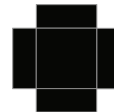
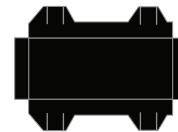
Instrument Deck components (Upper deck)

1:16 Scale

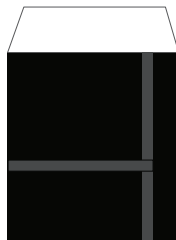
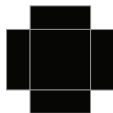
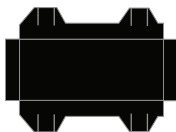
SDP



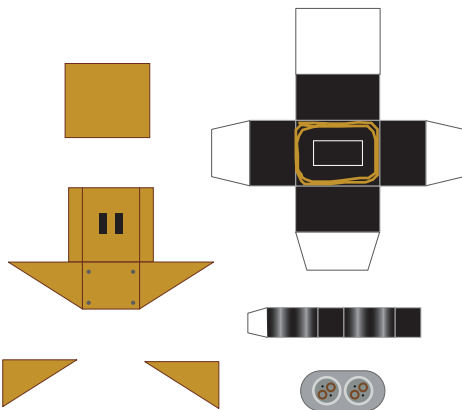
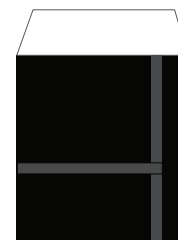
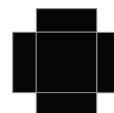
SDP



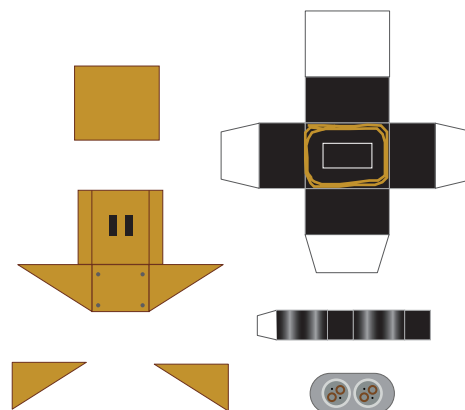
SDP



SDP



ASPOC



ASPOC



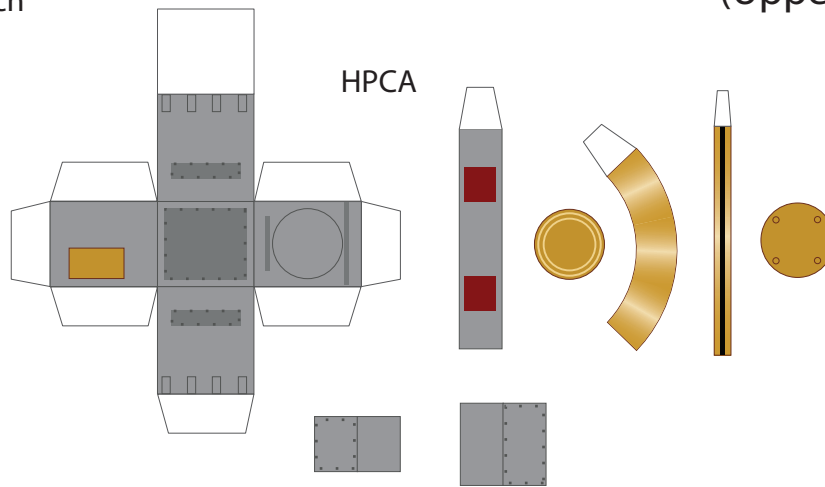
1:16 Scale



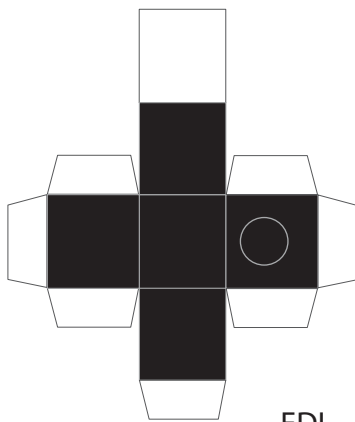
MMS

Print on Cardstock (90 lbs)

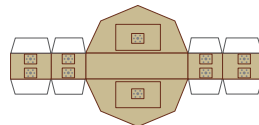
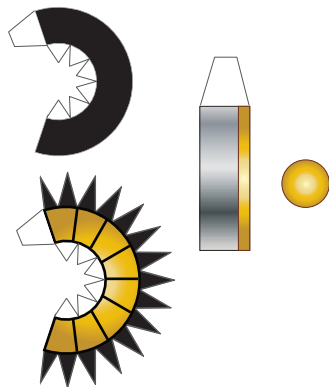
Instrument Deck components
(Upper deck)



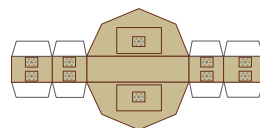
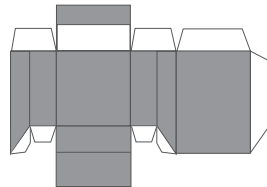
HPCA



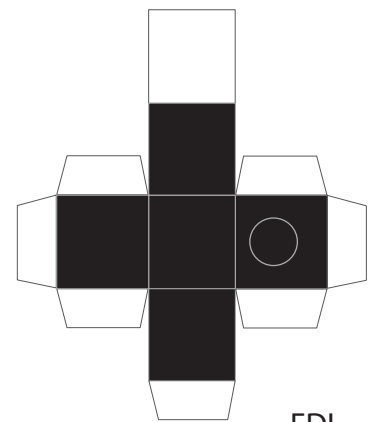
EDI



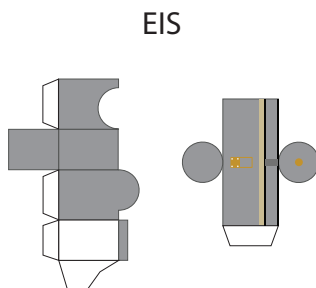
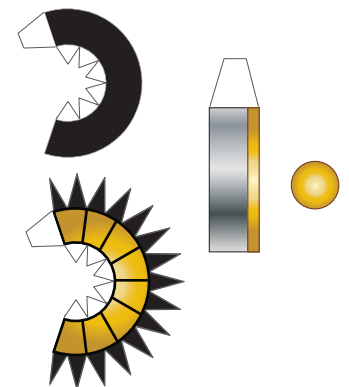
FEEPS



FEEPS



EDI



EIS

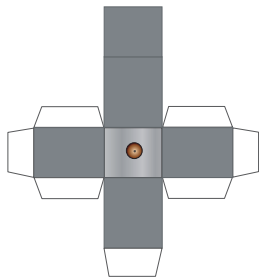


MMS

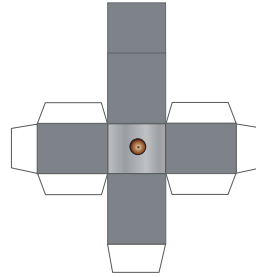
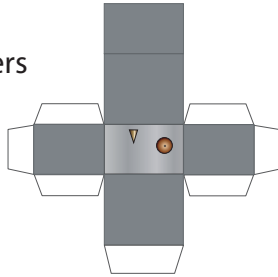
Print on Cardstock (90 lbs)

MMS Thrusters

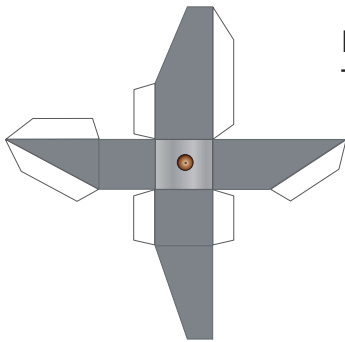
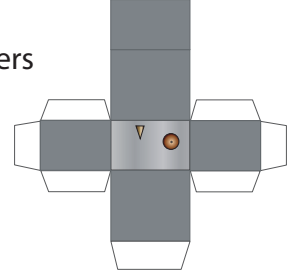
1:16 Scale



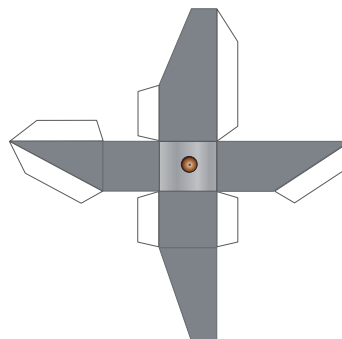
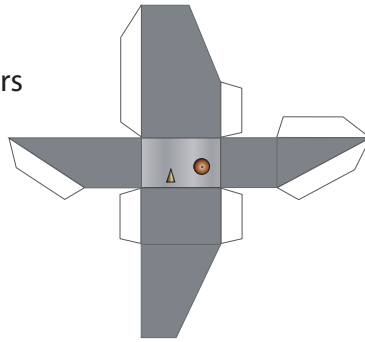
Upper Thrusters



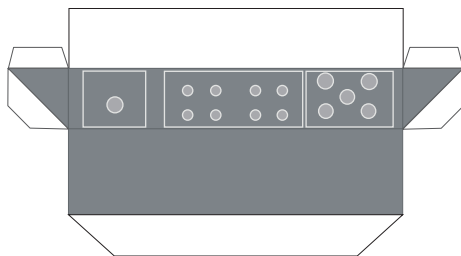
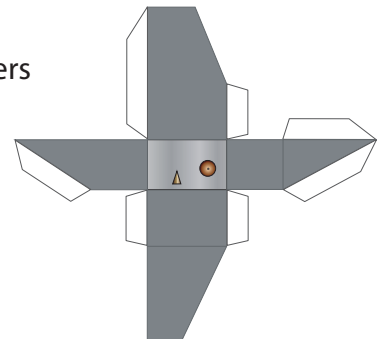
Upper Thrusters



Lower Thrusters



Lower Thrusters



Fill/Drain Valve and Fairing Access
Connectors
(Bottom of Spacecraft Deck)

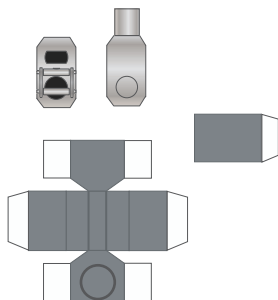
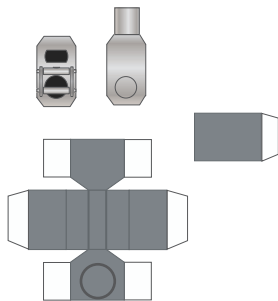


MMS

Print on Cardstock (100 lbs)

Mag Booms (stowed)

1:16 Scale



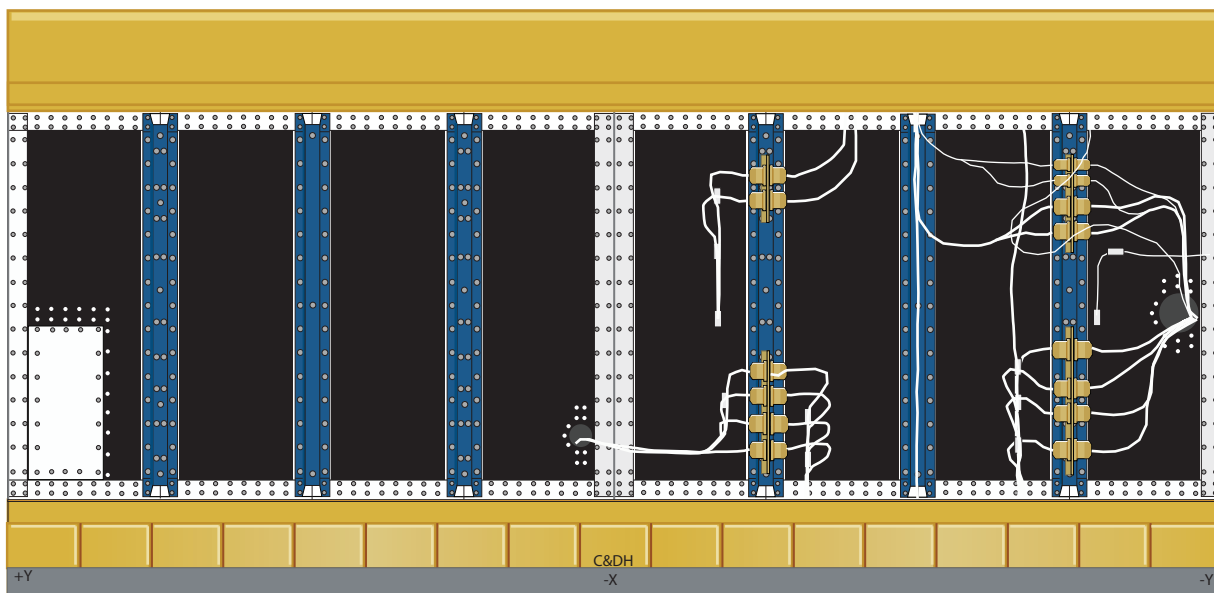
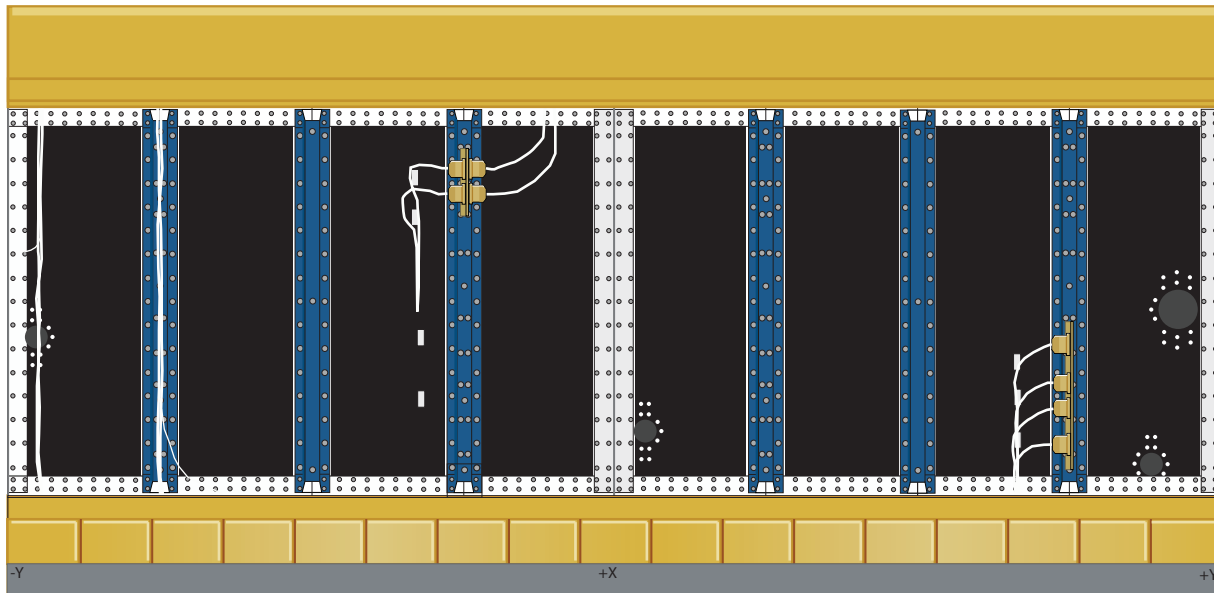


Print on Cardstock (110 lbs)

MMS

Observatory No. 2 (Blue) Thrust Tube

1:16 Scale



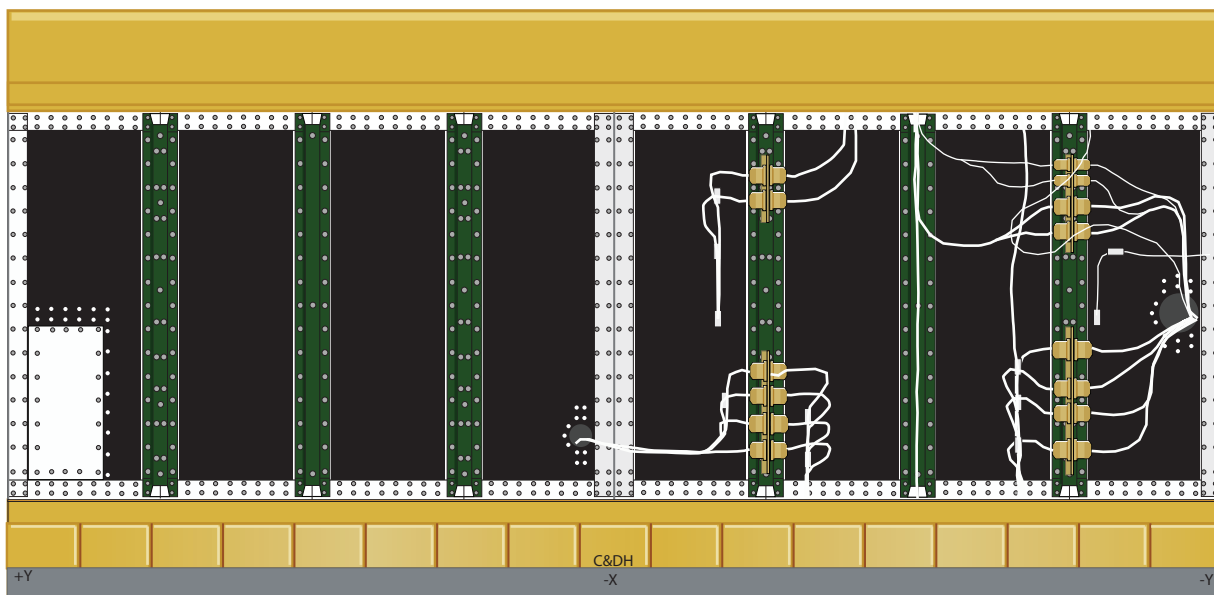
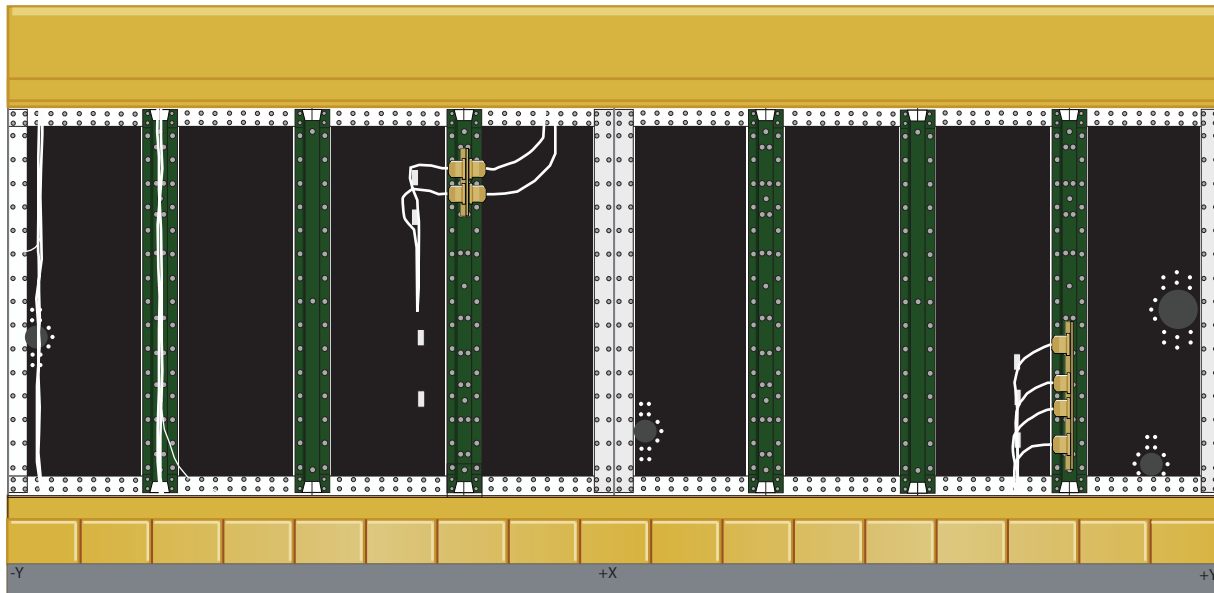


Print on Cardstock (110 lbs)

MMS

Observatory No. 3 (Green) Thrust Tube

1:16 Scale



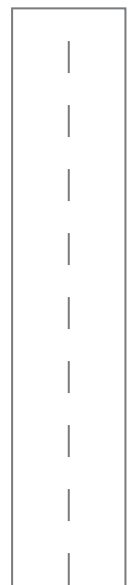
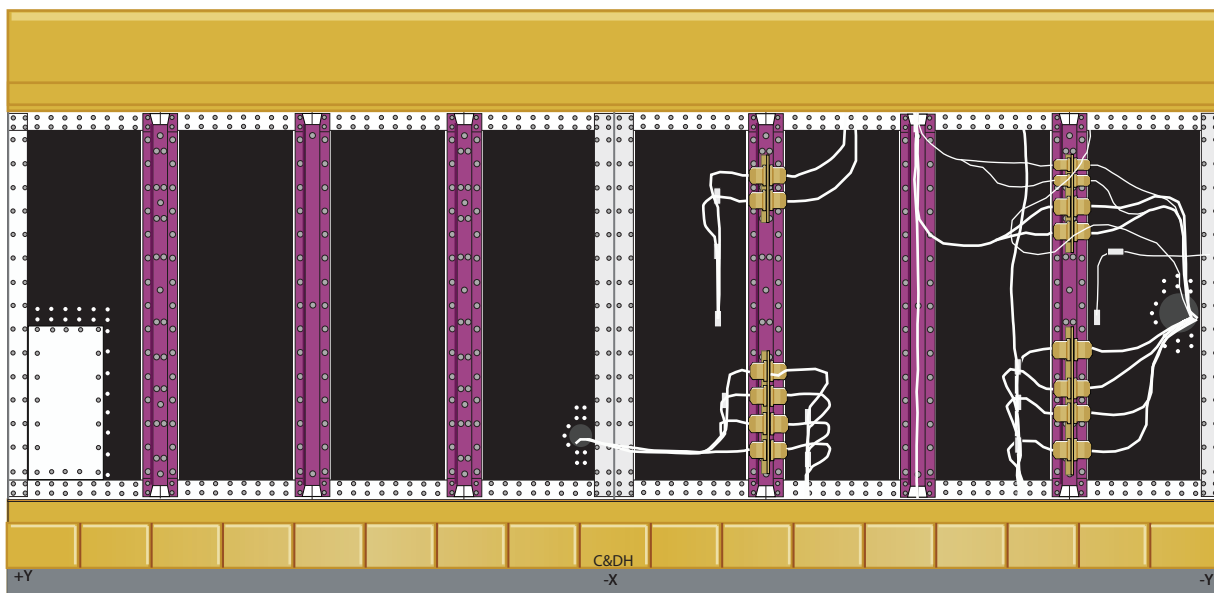
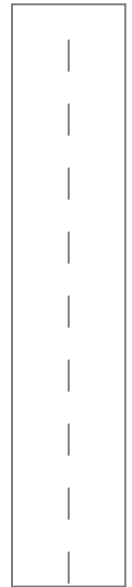
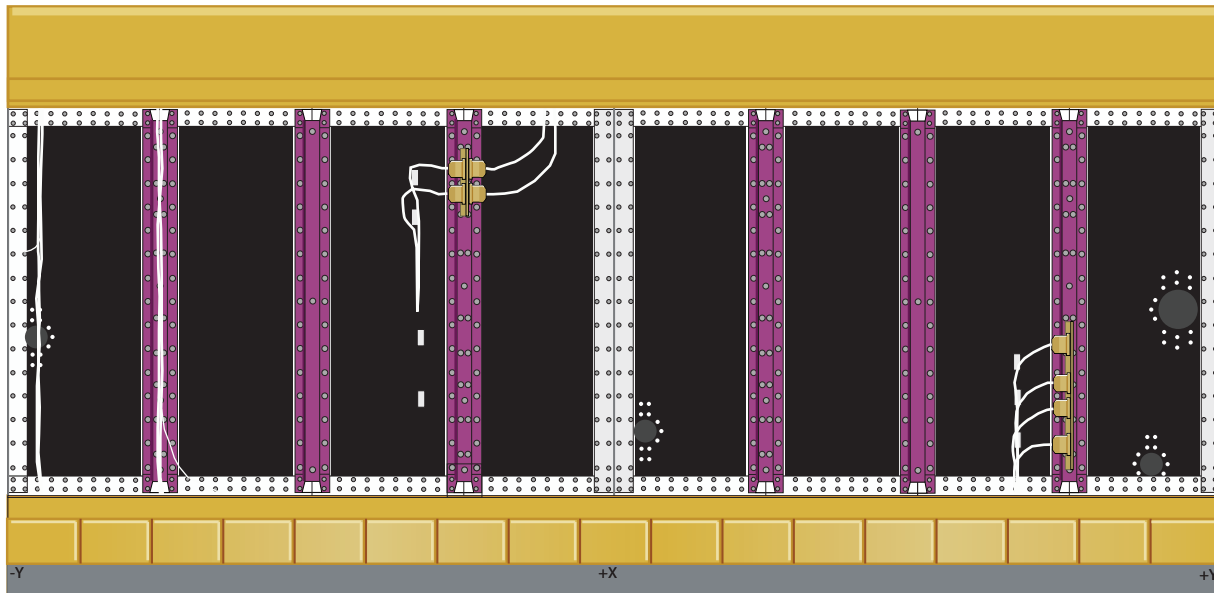


Print on Cardstock (110 lbs)

MMS

Observatory No. 4 (Purple) Thrust Tube

1:16 Scale





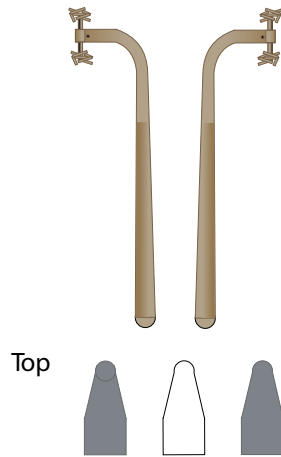
1:16 Scale



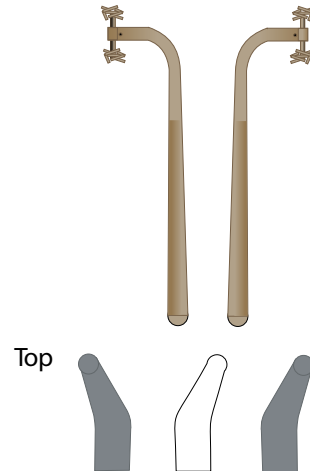
MMS

Print on Cardstock (90 lbs)

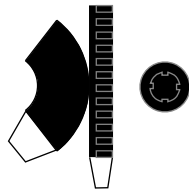
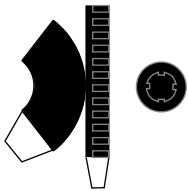
S-Band and GPS Bands



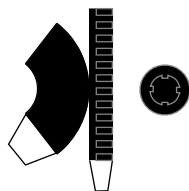
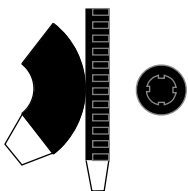
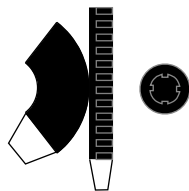
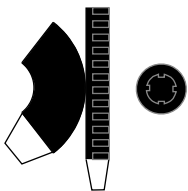
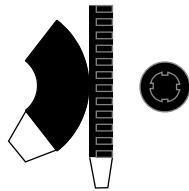
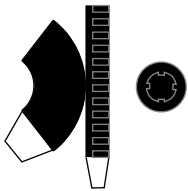
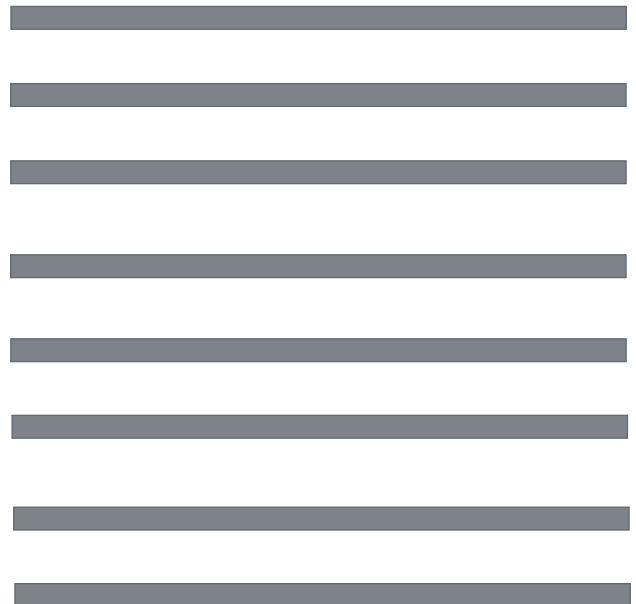
S-Band
Instrument Spacecraft Deck (Upper)



S-Band
Bottom of Spacecraft Deck (Lower)



Color strips to cover
edge of Upper Deck



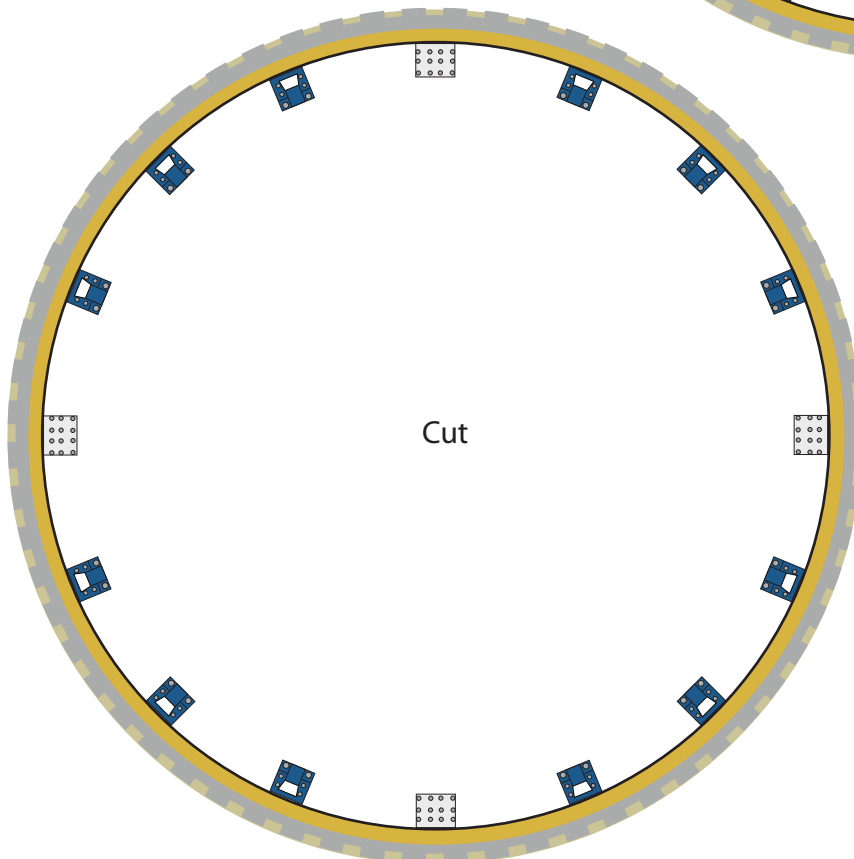
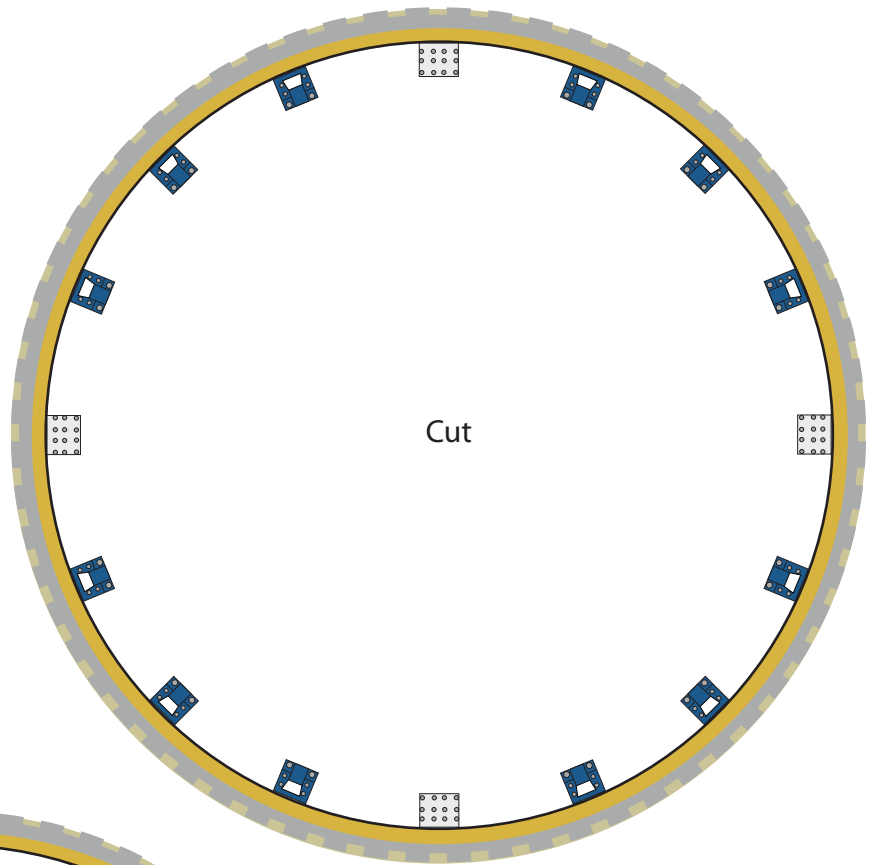


1:16 Scale

MMS

Print on Cardstock (110 lbs)

Thrust tube rings



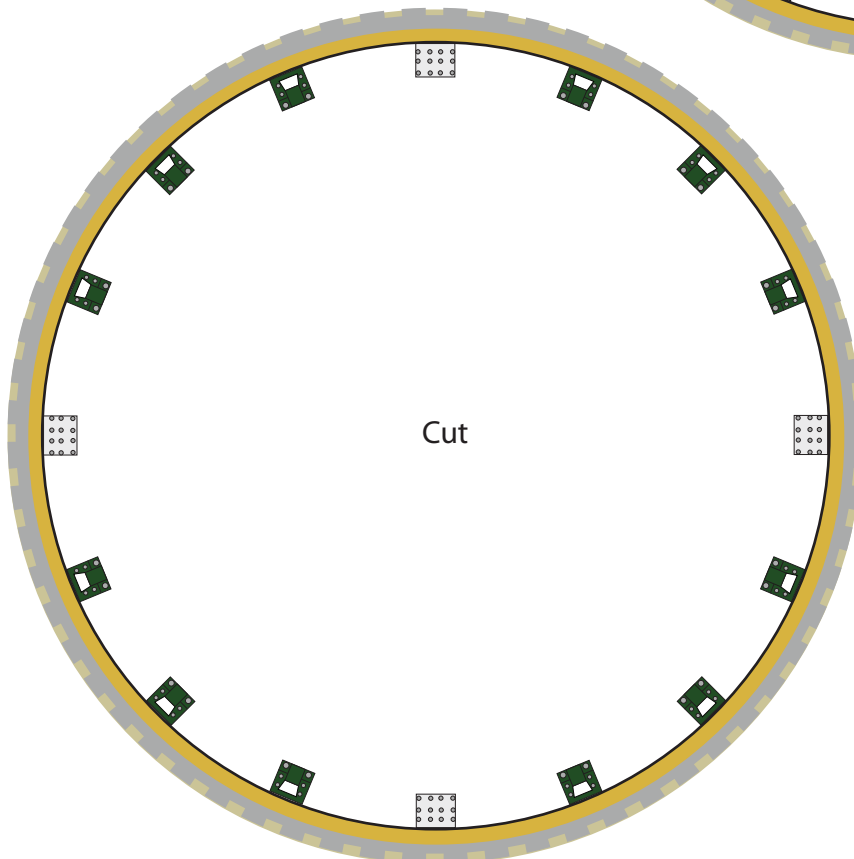
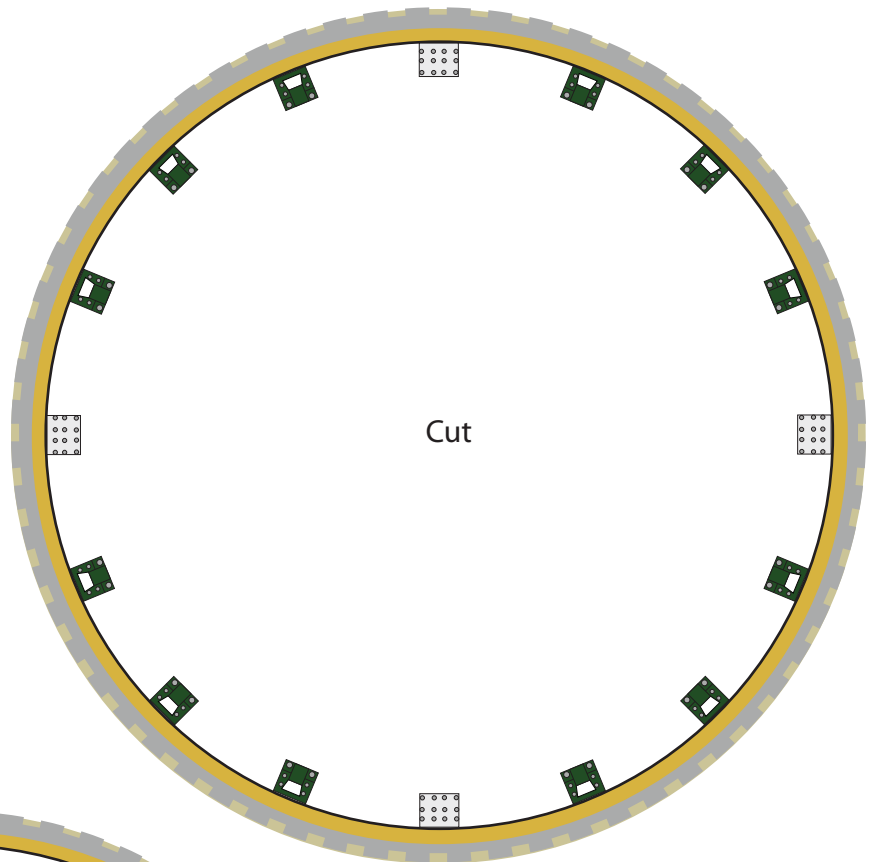


1:16 Scale

MMS

Print on Cardstock (110 lbs)

Thrust tube rings



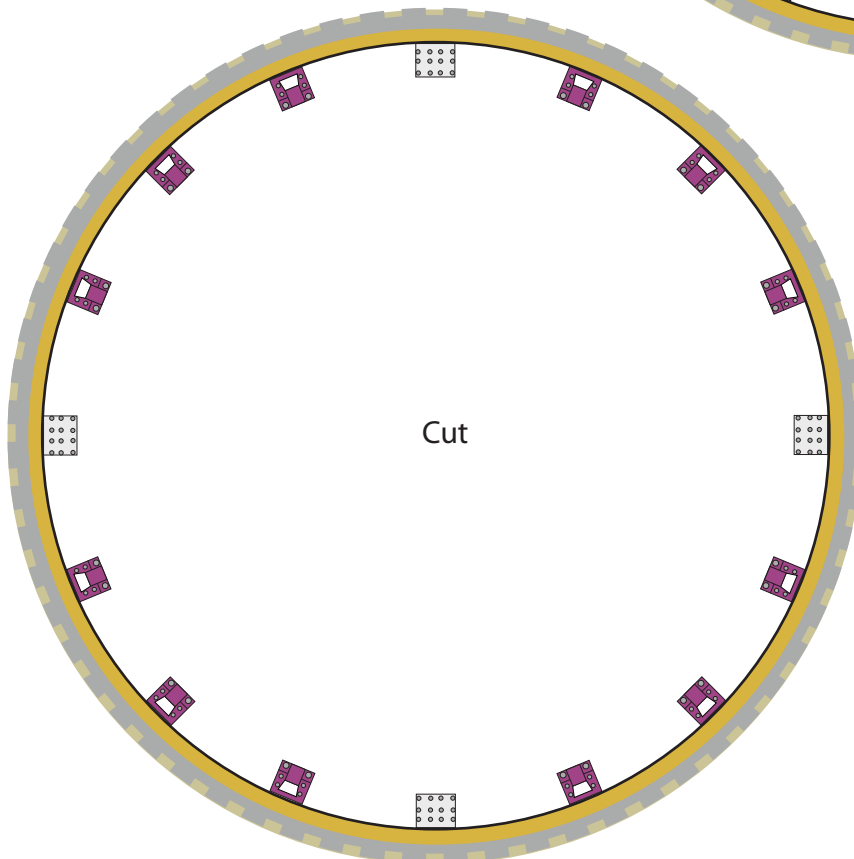
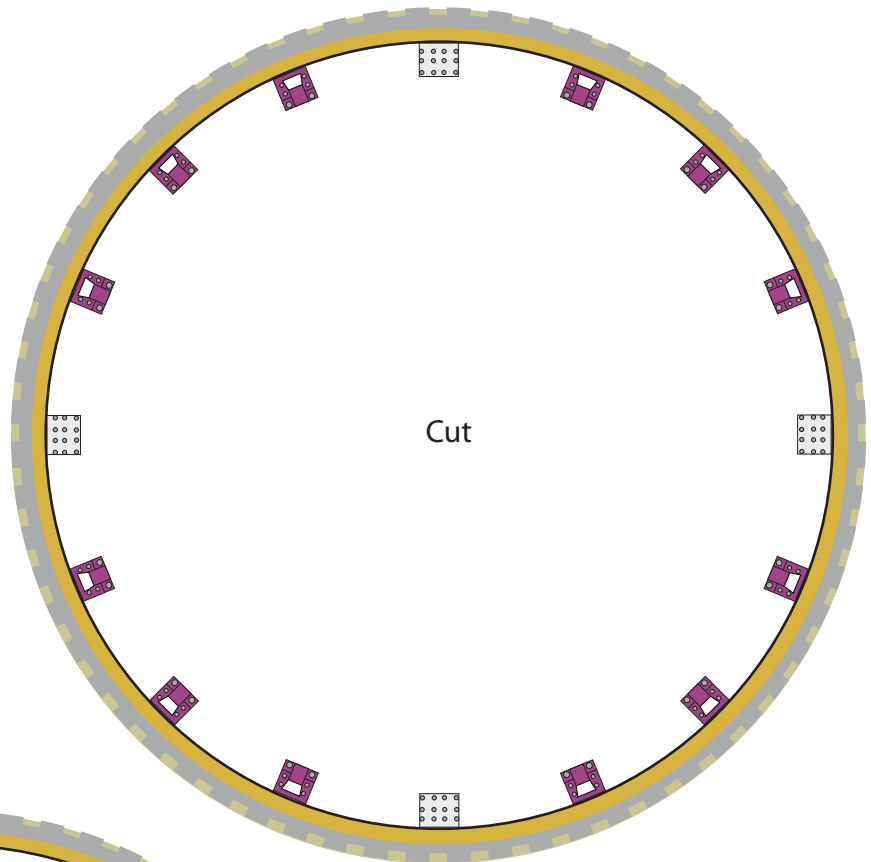


MMS

Print on Cardstock (110 lbs)

Thrust tube rings

1:16 Scale



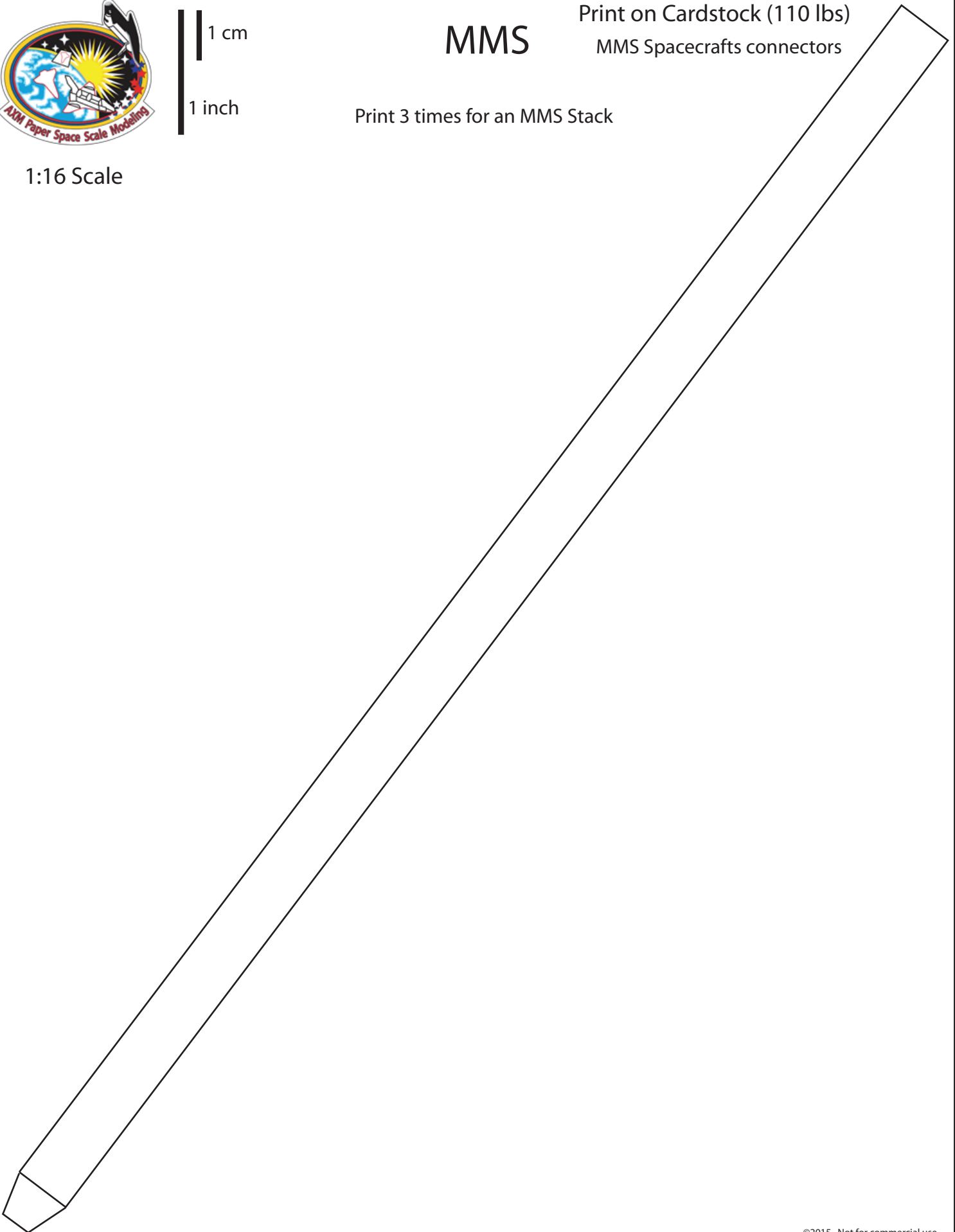


MMS

Print on Cardstock (110 lbs)
MMS Spacecrafts connectors

Print 3 times for an MMS Stack

1:16 Scale





1:16 Scale

1 cm

1 inch

Print on Cardstock (110 lbs)

MMS Display Stand

Use these templates on foam
board 5 mm in width

