Canon

PAPER CRAFT

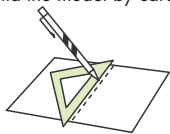http://www.canon.com/c-park/en/

Subaru Telescope
"SUBARU" Japan National Large Telescope

View of completed model

*This model was designed for Papercraft and may differ from the original in some respects.

■ Assembly Instructions:Six A4 sheets(No.1 to No.6)

*Build the model by carefully reading the Assembly Instructions, in the parts sheet page order.

*Hint: Trace along the folds with a ruler
and an exhausted pen (no ink) to get a sharper, easier fold.
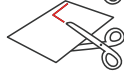
Assembly Instructions

Mountain fold(dotted line)
Make a mountain fold.

Valley fold(dashed and dotted line)
Make a valley fold.

Scissors line(solid line)
Cut along the line.

Cut in line(solid line)
Cut along the line.

Glue
The glue spot(colored dot)
shows where to apply the glue.

● **Glue spot(Red dot)**
Glue parts with the same number together.

● **Glue spot(Green dot)**
Glue within the same part.

● **Glue spot(Blue dot)**
Glue to the rear of the other part.

Tools and materials
Scissors, set square, glue(We recommend stick glue), pencil, used ballpoint pen, toothpicks, tweezers, (useful for handling small parts)
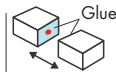
Assembly tip
Before gluing, crease the paper along mountain fold and valley fold lines and make sure rounded sections are nice and stiff.

Caution
Glue, scissors and other tools may be dangerous to young children so be sure to keep them out of the reach of young children.

### Rules for assembling the Subaru Telescope Paper Craft

1 | Number each part on its backside after cutting out to avoid confusion.

2 | Indicates where sections should be glued together.
Indicates where to insert sections. Do not glue the sections together.

3 | The grey diagonal lines indicate the portion to be cut out.
Use a circle cutter to easily cut perfect circles.

4 | In the explanatory diagrams, indicates the backside of the paper,
while indicates the margins to which glue is applied.

A

A narrow slit (groove)
will remain after assembly.

Cross-section
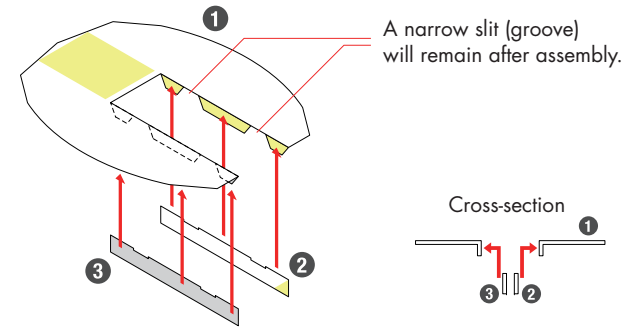
B

Glue to the backside of
the paper along the periphery
of the ellipse.
To ensure the optimal finish,
glue one flap each time,
and dry in series,
working from front to back.

Slit

Make sure that
the corners are
also glued.

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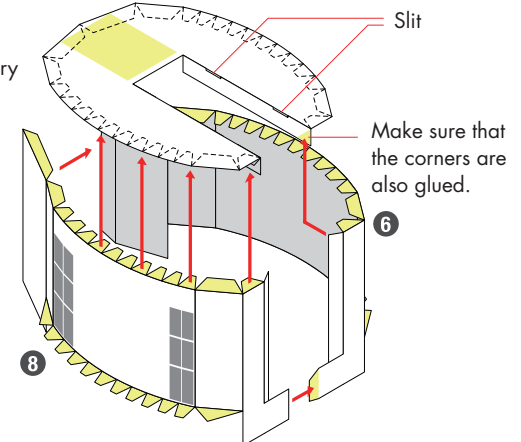
C

Glue the right and left walls from the front, moving around the body.

⑩

⑨

D

Turn over the dome and insert the bottom to the extent of the width of the area to which glue is to be applied, then glue. Take care of the front and back direction.

⑰

Front and back direction

E

⑤

⑦

Nail

Nail

Nail

Assemble the right and left shutters. Do not glue the two upper nails of each shutter.

Backside view

Do not put glue these two positions so that the two nails are left floating.

F

Insert the lower nails into the gap in the front paper, then insert the two upper nails into the slits on the ceiling.
Make sure the shutter can be opened and shut freely.

G

④

㉖

㉕

H

⑪

⑲

⑫

Take care to ensure the top-bottom alignment of parts ⑪ and ⑫.

I

13   21

Don't forget to cut
the slits.

14

J

15

After assembling 22, glue the wall.
Take care to ensure the longitudinal
alignment.

22

27

16

Glue the wall in sequence,
fitting along the floor,
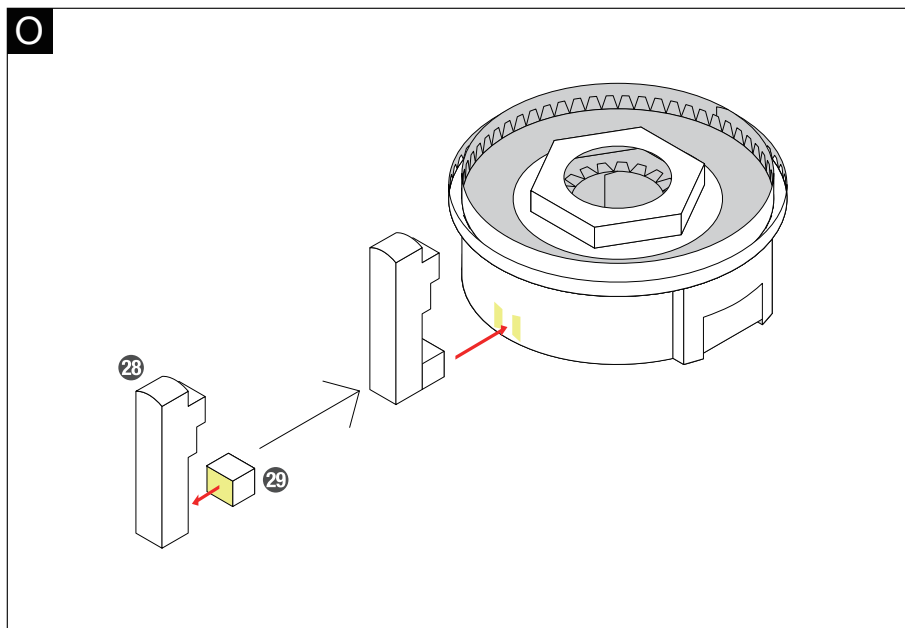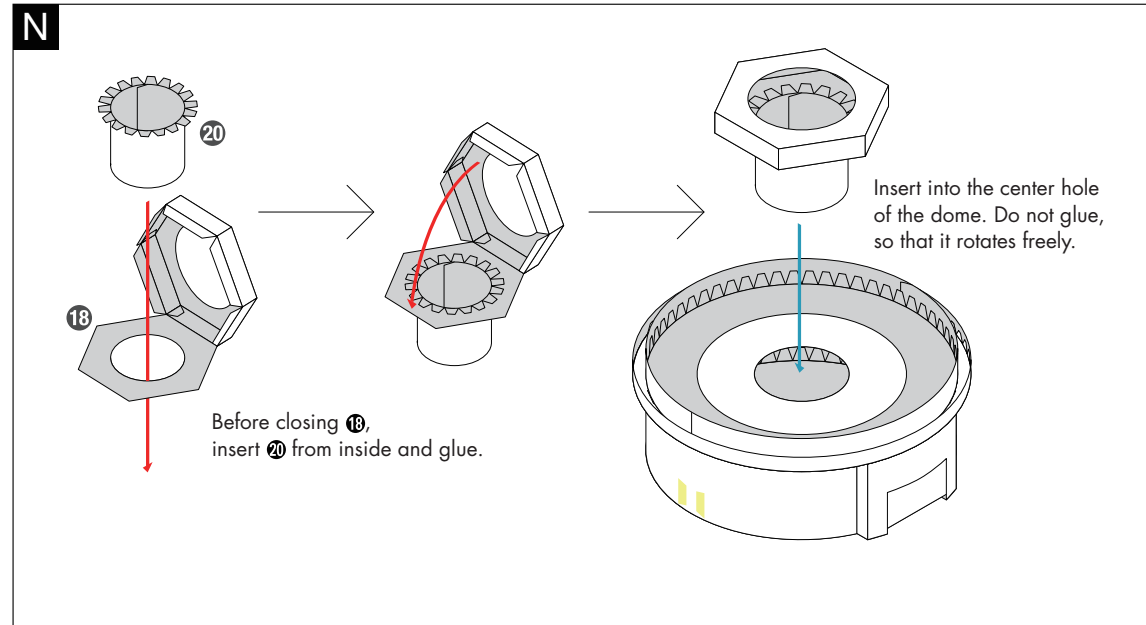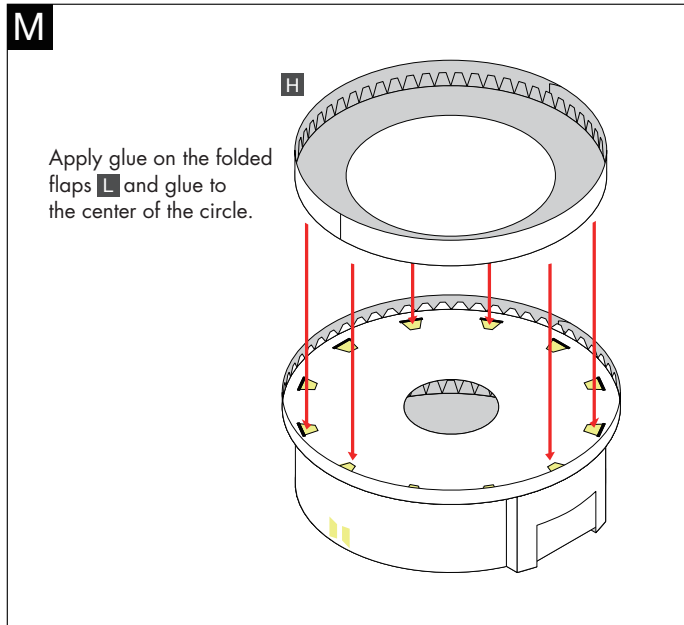starting from the front
(carry-in entrance).

K

Glue the shutter to the inside of   23
the dome so that the picture
faces outward.

24

L

I

Mount the ceiling to the wall
so that flaps to which glue is
to be applied come out through
the slits. Since there is no flap
at the front of the dome,
one slit will remain open.

Fold back the flaps inward to which
glue is to be applied and apply glue.

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M

H

Apply glue on the folded flaps L and glue to the center of the circle.

N

20

18

Before closing **18**, insert **20** from inside and glue.

Insert into the center hole of the dome. Do not glue, so that it rotates freely.

O

28

29

Both the upper part and lower part of the dome have been completed. The next step is to assemble the telescope.

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P

30

31

34

32

35

Fold arms 34 and 35 in the middle and glue together.
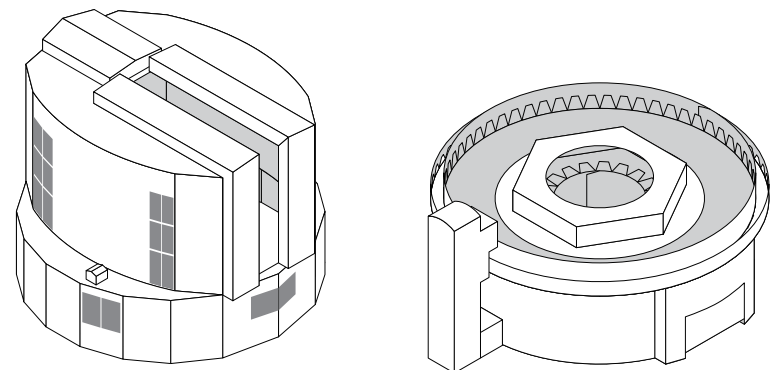
Fit into the ring, arranging the shape, and apply glue.

33

Apply a small amount of glue to the cut edge of 32 and glue so that the circle 33 is covered.

Top view

Q

47

48

Fit into the ring and glue.

49

52

53

54

After attaching 54, apply some glue to the cut edge of the paper and insert.

Apply glue to the cut edge of the paper and insert from the bottom, then apply pressure.

R

P

Apply glue to P at the areas to which glue is to be applied outside the ring and glue to 36.

36

38

37

Q

S

44

43

46

45

42

41

39

40

58

59

T

Fold 55 and 56 in the middle and glue together.

Keep the surface with the hole facing in.

57

51

50

56

55

Subaru Telescope: Assembly Instructions

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U

Fold up the right and left nails and insert into the holes. The nail will expand inside to fix. No gluing is required.
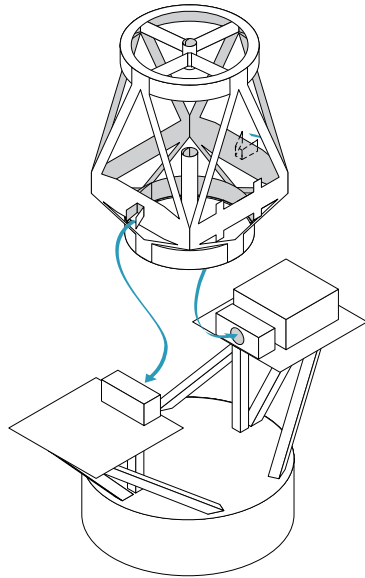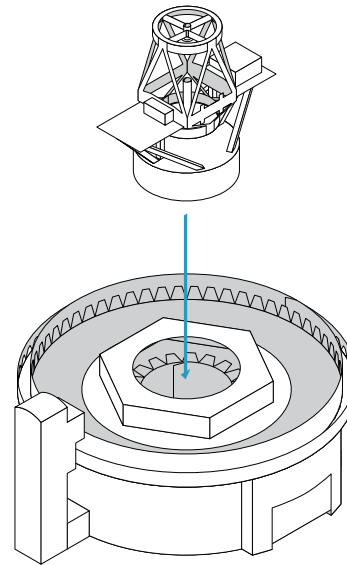
You can adjust the altitude
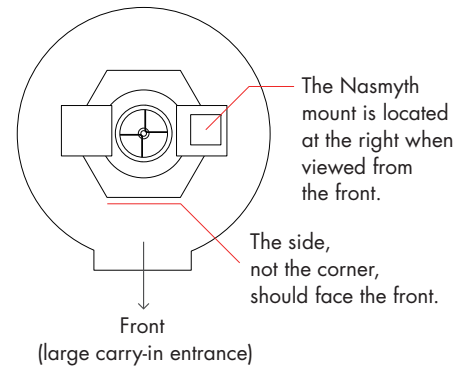(angle of the telescope)
to any position desired.

V

Fit the telescope into the center hole of the lower part of the dome. Do not glue.

Both the telescope and the setting rack can rotate freely. For the moment, however, keep them positioned as shown below.

The Nasmyth mount is located at the right when viewed from the front.

The side, not the corner, should face the front.

Front
(large carry-in entrance)

W

To complete the assembly, fit the upper dome so that the hexagons at the center engage each other, keeping the Nasmyth mount from colliding.
Set up the completed model together with the plate.

Finished!

Subaru Telescope
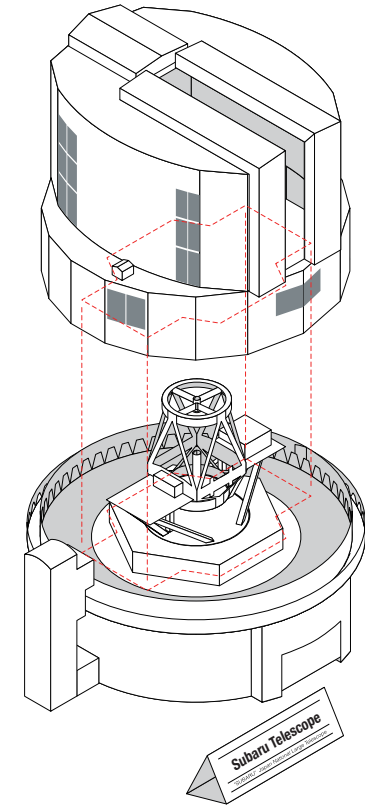
Moving parts of the completed model.
● The shutter of the opening opens and closes.
● The upper dome revolves 360 degrees.
   The telescope revolves together with the dome.
● The upper dome can be removed.
   The altitude of the telescope can be adjusted.
● The telescope revolves 360 degrees.
  *In the actual Subaru Telescope, the rotation of the dome
   and the rotation of the telescope are implemented
   by separate mechanisms to minimize errors in horizontal rotation.