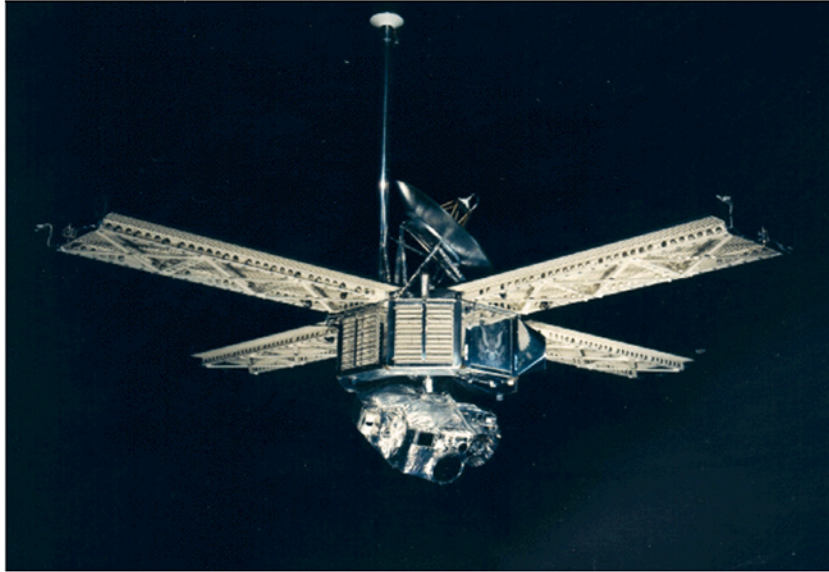


Mariner 6 - 7



As part of NASA's wider Mariner program, Mariner 6 and Mariner 7 (Mariner Mars 69A and Mariner Mars 69B) completed the first dual mission to Mars in 1969. Mariner 6 was launched from Launch Complex 36B at Cape Canaveral Air Force Station and Mariner 7 from Launch Complex 36A at Cape Kennedy.

The craft flew over the equator and south polar regions, analyzing the atmosphere and the surface with remote sensors, and recording and relaying hundreds of pictures. The mission's goals were to study the surface and atmosphere of Mars during close flybys, in order to establish the basis for future investigations, particularly those relevant to the search for extraterrestrial life, and to demonstrate and develop technologies required for future Mars missions. Mariner 6 also had the objective of providing experience and data which would be useful in programming the Mariner 7 encounter five days later.

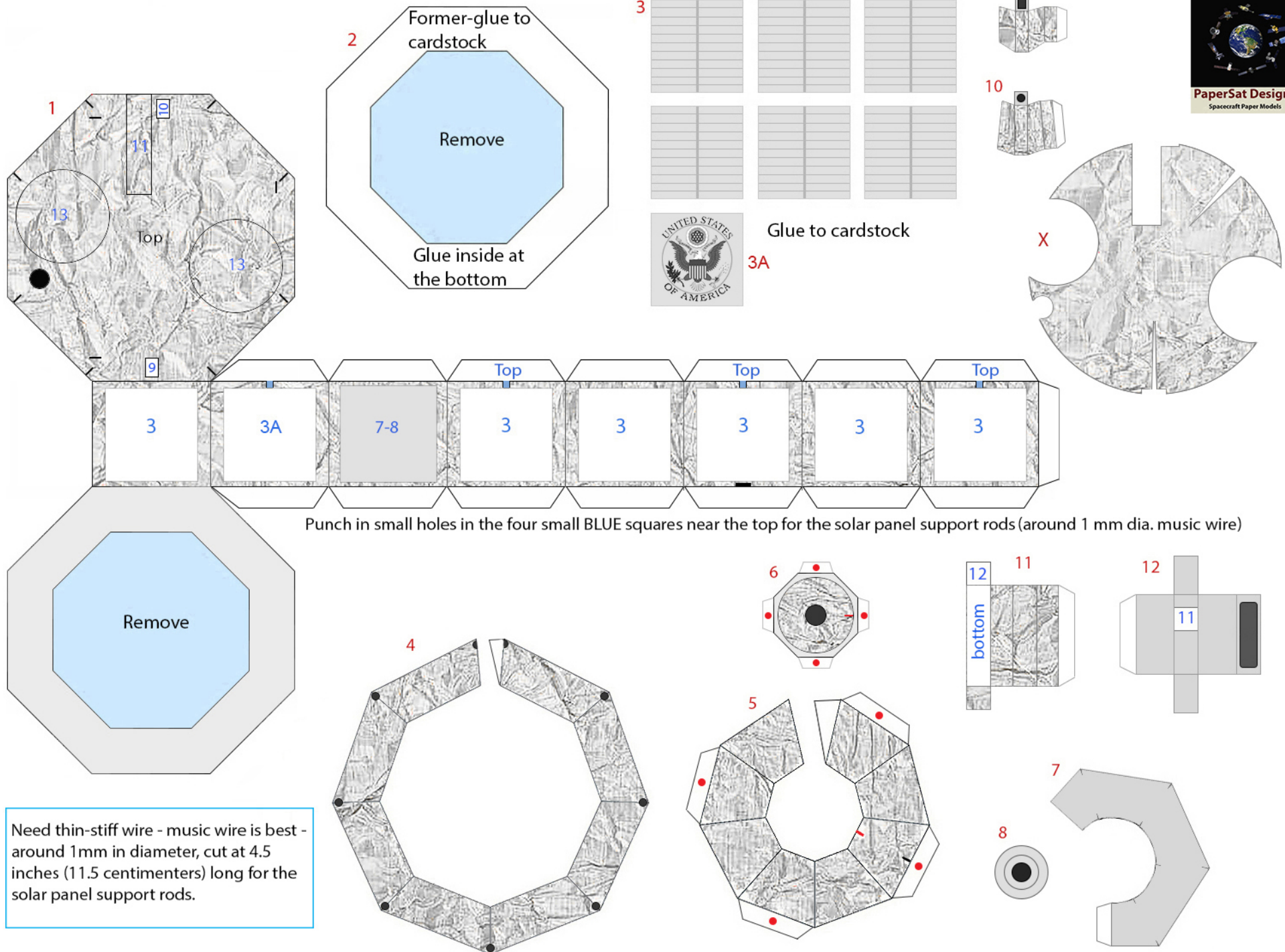
Launched on Feb. 25 and March 27, 1969, respectively, Mariner 6 and 7 arrived at Mars just five days apart despite being launched a month apart. After a flight of 156 days from Earth, Mariner 6 flew within 2,132 miles of Mars on July 31, roughly twice as close as Mariner 4's flyby in 1965. Controllers lost contact with Mariner 7 for seven hours just five days before its planned flyby, but by Aug. 2, after quick replanning, they restored the spacecraft to full capability as it began its encounter with Mars. Three days later, it passed within 2,130 miles of Mars' southern hemisphere. Both spacecraft flew behind the planet and a radio occultation experiment measured the surface pressure of the Martian atmosphere to be between 6 and 7 mb, or less than 10% of Earth's atmosphere at sea level. After their successful flybys, Mariner 6 and 7 sailed on into solar orbit.

Zach's



PaperSat Designs
Spacecraft Paper Models

Mariner 6 - 7



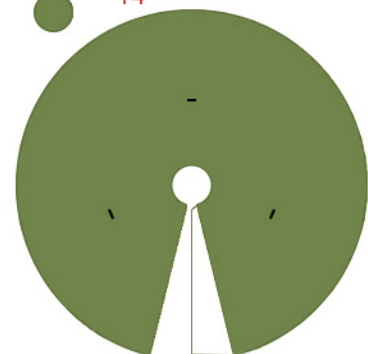
Mariner 6 - 7



13



14



Color back light grey or silver



27



26



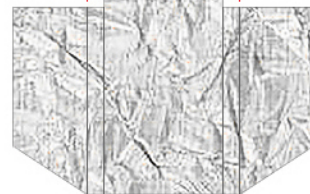
25

Color back Black on these four parts



24

20



Score-fold at the blue line - Valley fold at the Red line

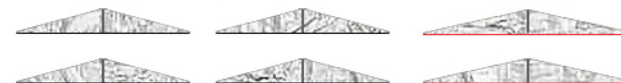
20



28

Color back light grey

29



Score-fold each of these back-to-back



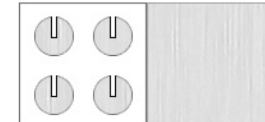
30



31

Glue to cardstock, then glue this part to the back side.

32



Fold-glue back-to-back

For realistic look, find some beads or small round balls around 5mm diameter.

21



You can roll this into a long narrow tube, or glue around a BBQ skewer just under 3mm (0.12 inch or 0.3 cm) in diameter.

22

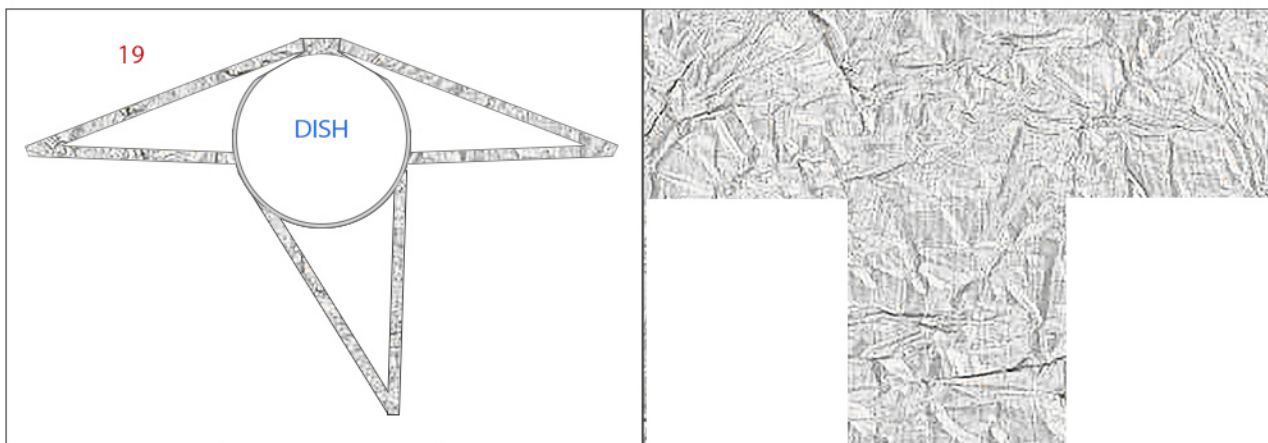


23



Glue back-to-back

Need plastic broom straw or similar material cut at the same length as the line below, colored light grey

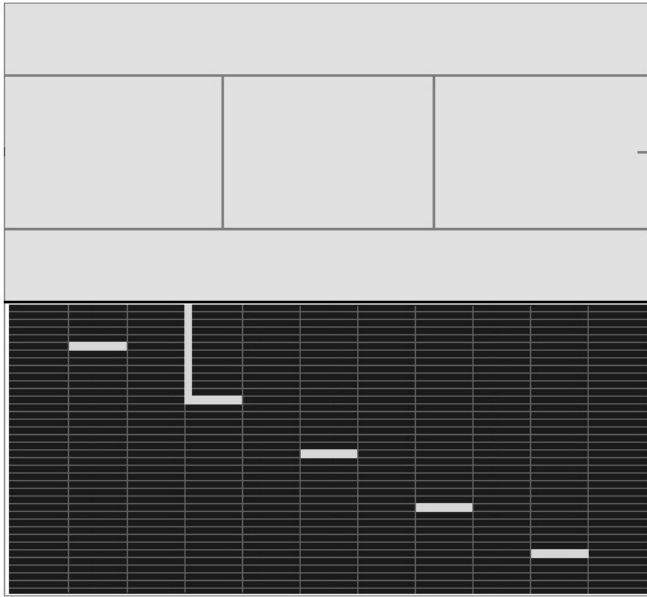


19

DISH

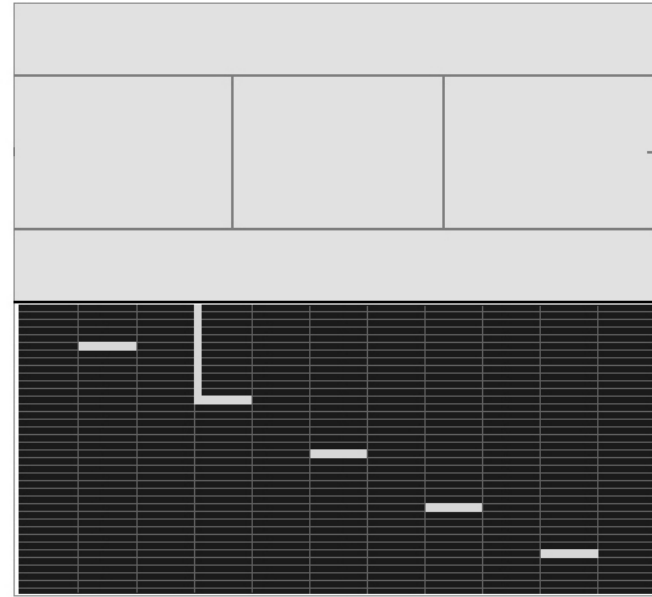
Mariner 6 - 7

33



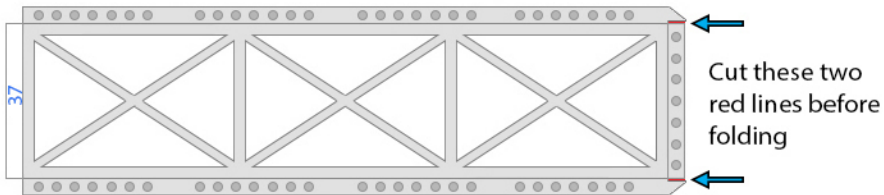
Fold in half, glue back-to-back

33



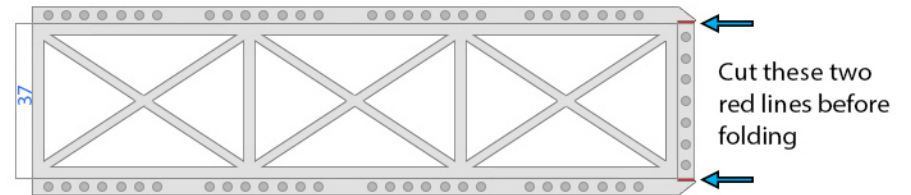
Fold in half, glue back-to-back

34



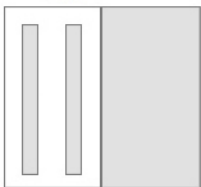
Cut these two
red lines before
folding

34



Cut these two
red lines before
folding

35



Fold-glue back-to-back,
then cut out for color on both sides.

37



Cut out the blue rectangles,
glue back-to-back

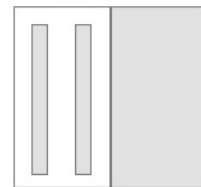
36

Glue to
cardstock

36

Glue to
cardstock
* spares

35



Fold-glue back-to-back,
then cut out for color on both sides.

37



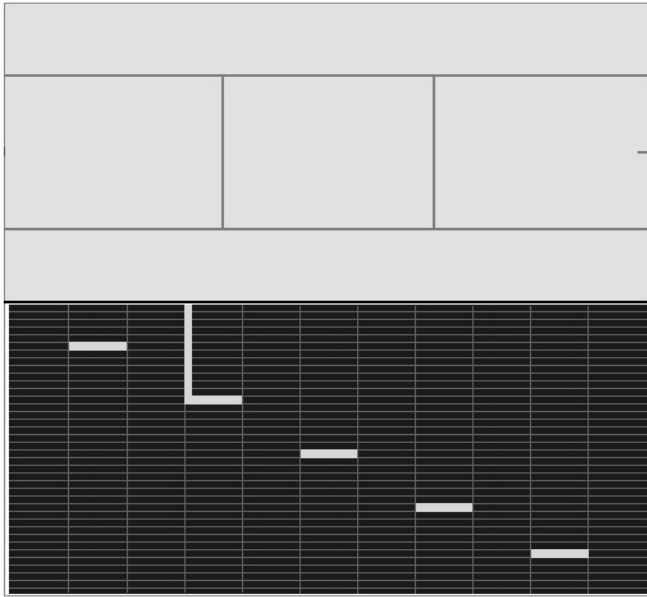
Cut out the blue rectangles,
glue back-to-back

36

Glue to
cardstock

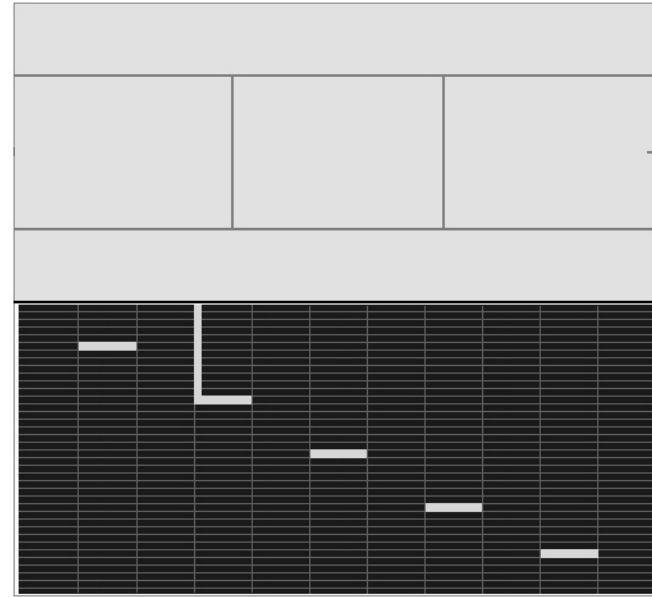
Mariner 6 - 7

33



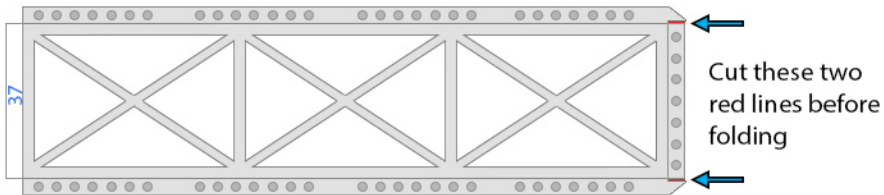
Fold in half, glue back-to-back

33



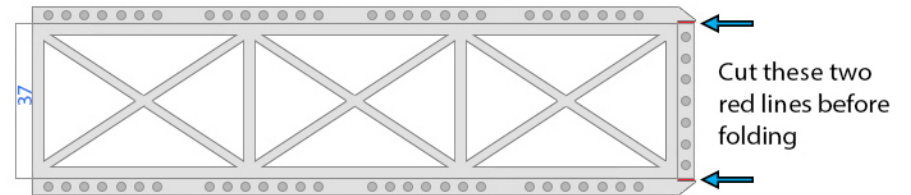
Fold in half, glue back-to-back

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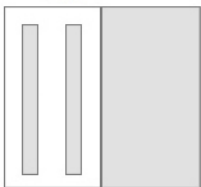
Cut these two red lines before folding

34



Cut these two red lines before folding

35



Fold-glue back-to-back, then cut out for color on both sides.

37

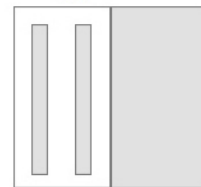


Cut out the blue rectangles, glue back-to-back

36
 Glue to cardstock

36
 Glue to cardstock
 * spares

35



Fold-glue back-to-back, then cut out for color on both sides.

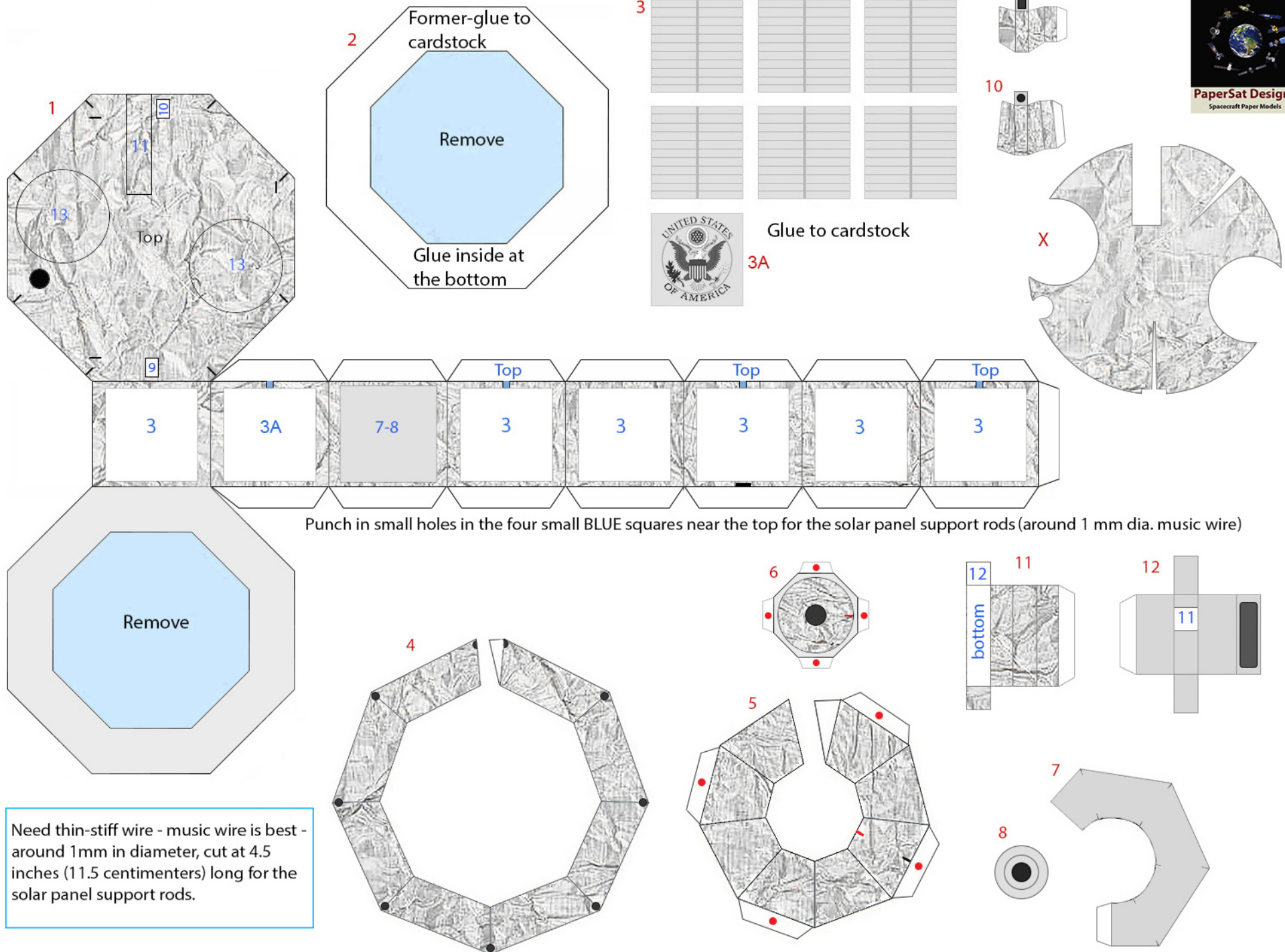
37



Cut out the blue rectangles, glue back-to-back

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 Glue to cardstock

Mariner 6 - 7



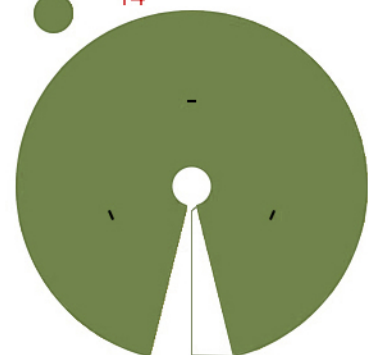
Mariner 6 - 7



13



14



Color back light grey or silver



27



26



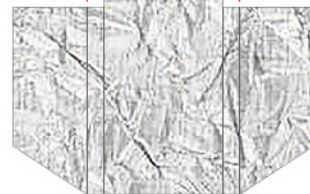
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Color back Black on these four parts



24

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Valley fold at the Red line

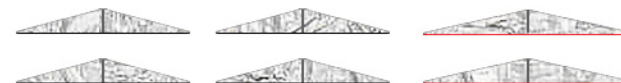
20



28

Color back light grey

29



Score-fold each of these back-to-back



30



31

Glue to cardstock, then glue this part to the back side.

32



Fold-glue back-to-back

For realistic look, find some beads or small round balls around 5mm diameter.



21

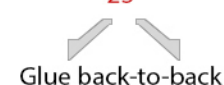


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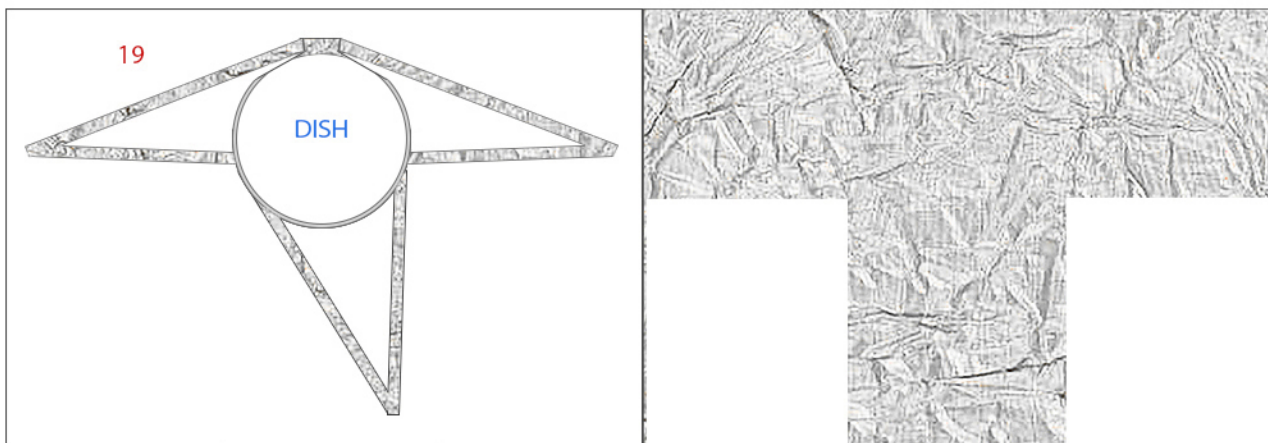


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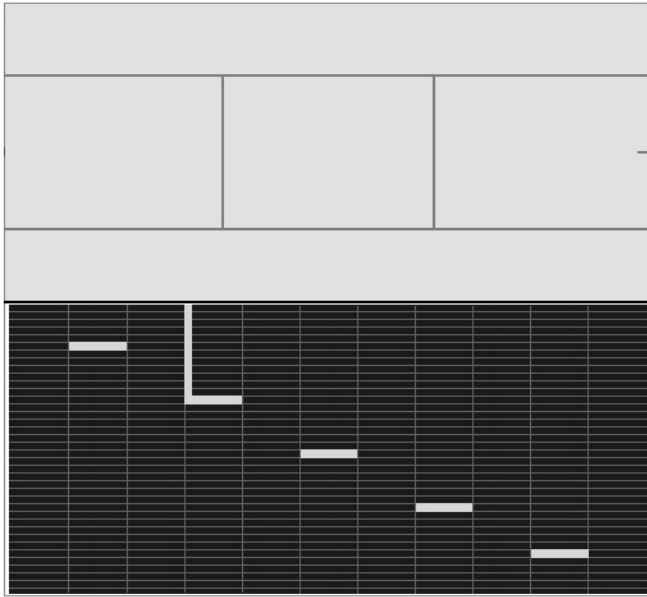


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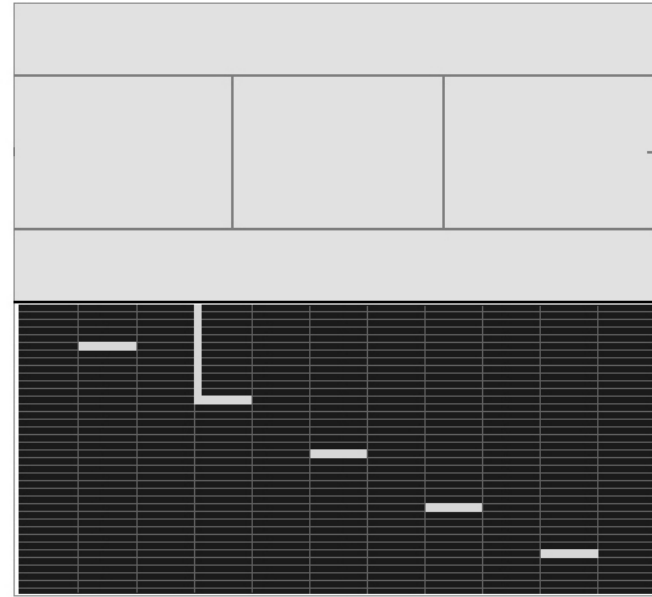
Mariner 6 - 7

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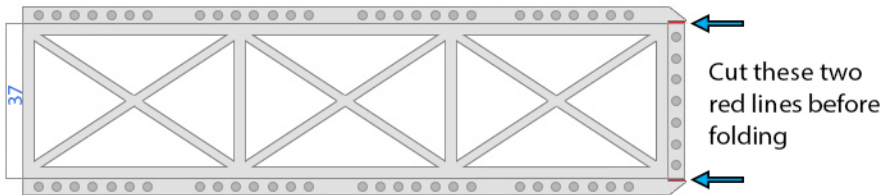
Fold in half, glue back-to-back

33



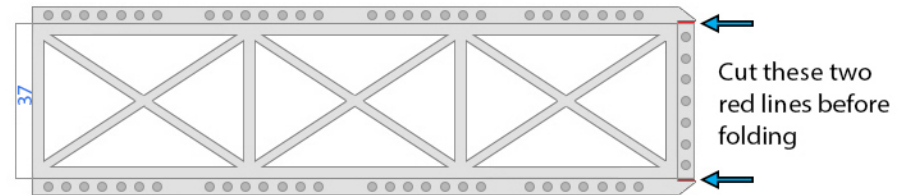
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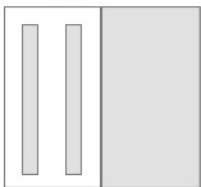
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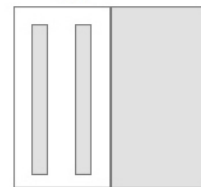
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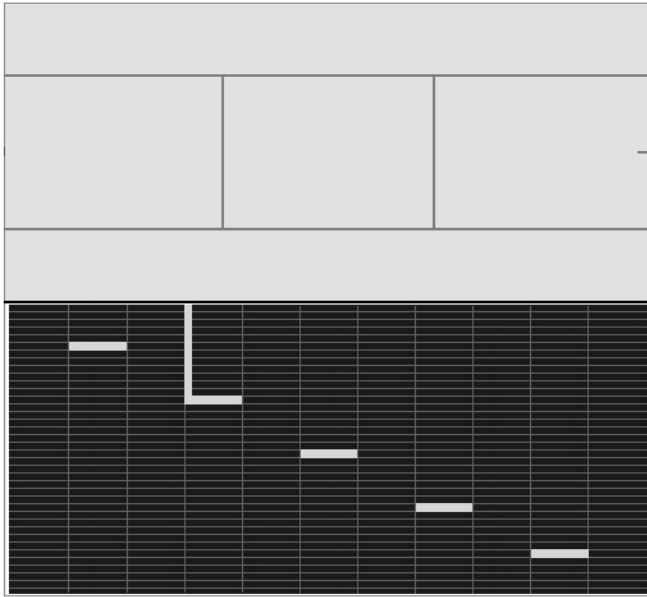
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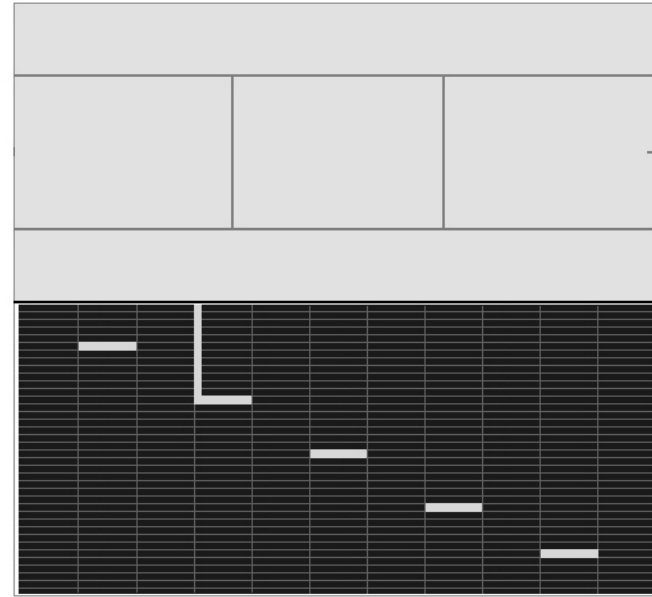
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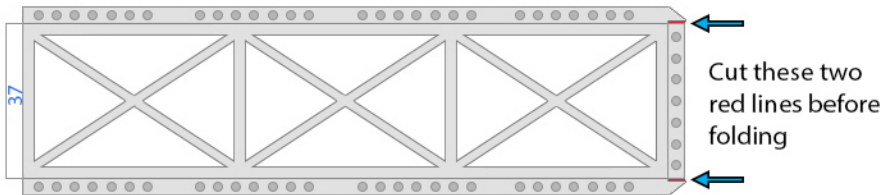
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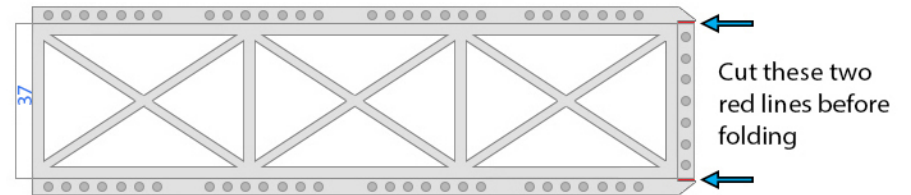
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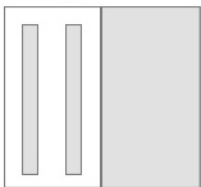
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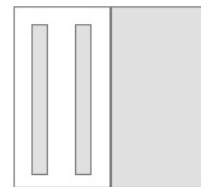
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