

Relay 1



Relay was a communications satellite of the active repeater type, in which signals from one ground station were picked up and rebroadcast to another station by the satellite's internal equipment. A NASA project, Relay was a 78 kg, spin-stabilized spacecraft boosted by a Delta launch vehicle. The first Relay satellite was launched December 13, 1962, and it remained operational for more than 2 years. Relay 2, launched January 21, 1964, was used in thousands of tests and experiments and in some 40 public demonstrations through September 1965.

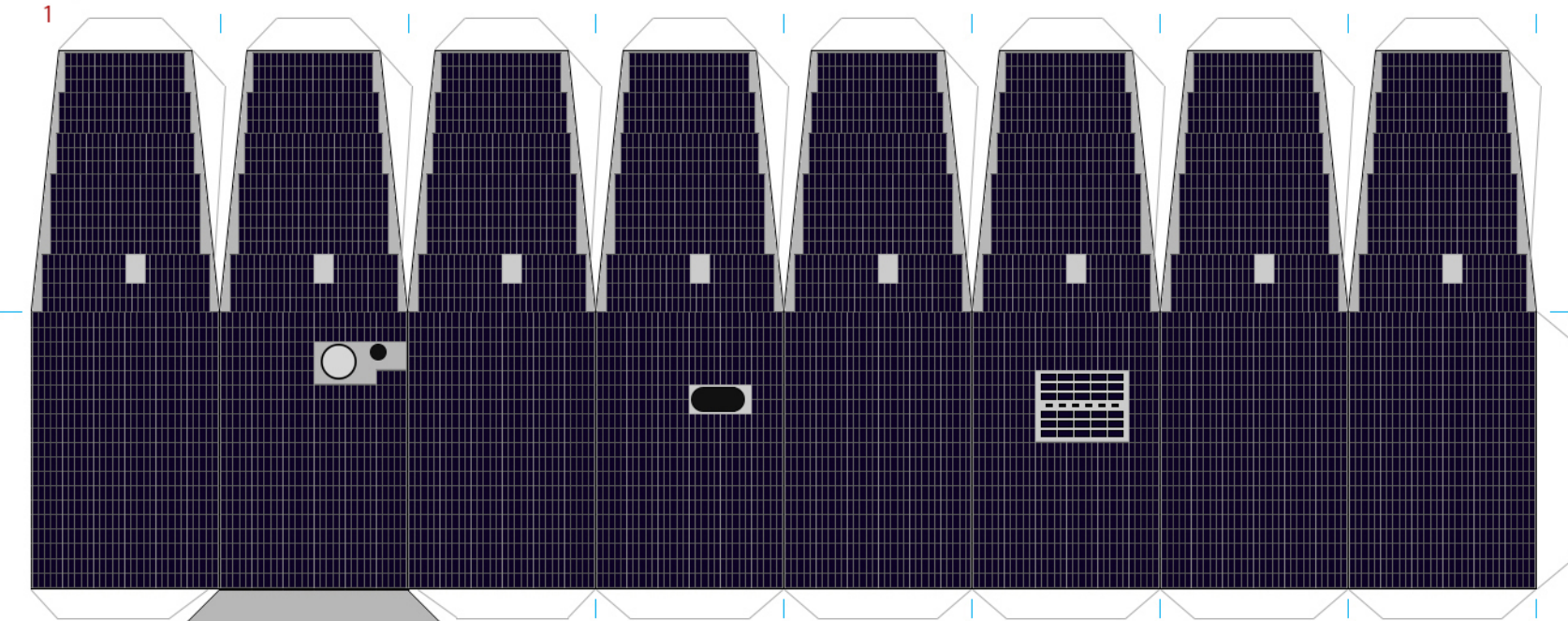
Relay 1 was revolutionary. Not only was it meant for communications between countries, but it also took measurements to map out the Earth's radiation belt.

This is the first satellite to relay television signals from the United States to Japan, including the first word of the assassination of President Kennedy in 1963. In 1964, it's part of the link bringing television coverage of the 1964 Summer Olympics from Tokyo to the U.S., participating in the first multi-satellite broadcast with Syncom 3. This technological first doesn't come without some problems, however, and Relay 1 ceases to be operational in early 1965, but remains in orbit for decades.

The last transmission was on February 10, 1965. Though not perfect, Relay 1 was "one giant step" for mankind. Our modern world uses so many satellites today, it's interesting to think that one of America's first leaked all the time, but still functioned. Relay 1 may only be found in a few obscure places in history articles and books, but it is a corner stone to the way our lives have been shaped.



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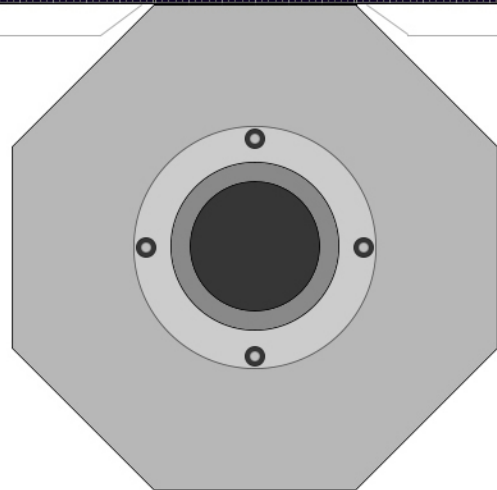


Poke a small hole on the white dot

5

6-7

8-9

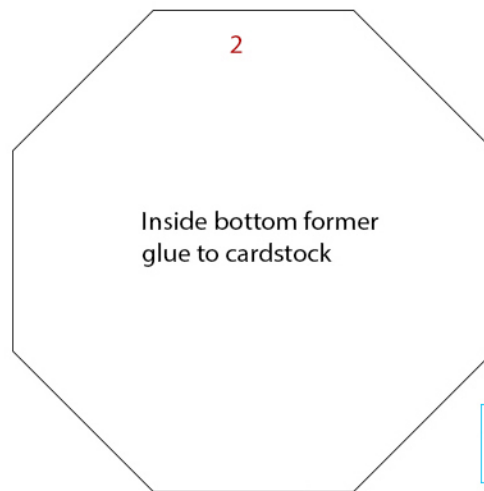


Poke pin holes on the small grey dots inside the four black circles for the antennas

4

Color back the same color

Cut four (4) plastic broom straws or similar material the same length as the line above, colored grey for the antennas.

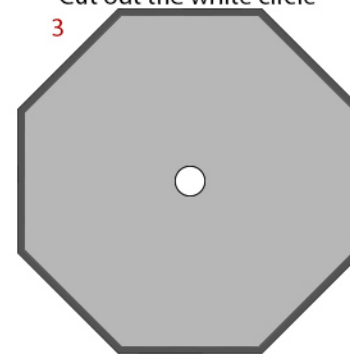


Inside bottom former glue to cardstock

2

Cut the white circle

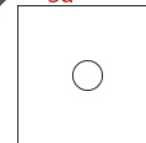
3



Cut plastic broom straw the same length as the line above, colored grey

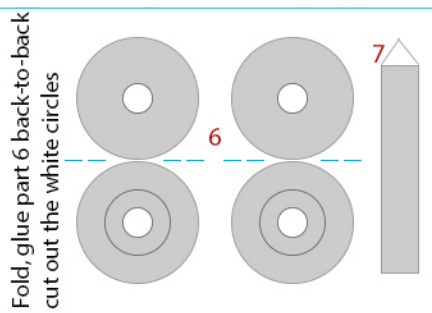
Wrap around a 3mm diameter wood skewer cut at the same length as the part above.

3a



Glue to back side of part 3 match the two holes

Cut out the white circle

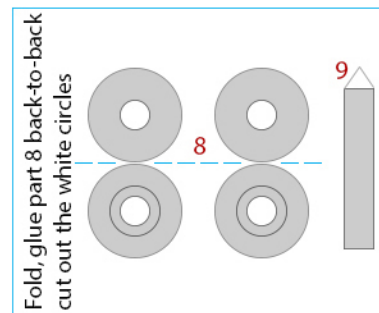


Fold, glue part 6 back-to-back cut out the white circles

6



7



Fold, glue part 8 back-to-back cut out the white circles

8



9

Fold, glue back-to-back cut out the white circle



10