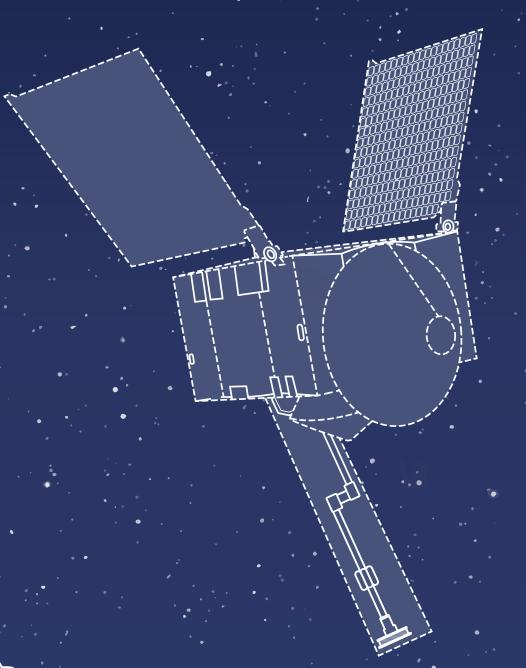
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PAPER SPACECRAFT MODEL







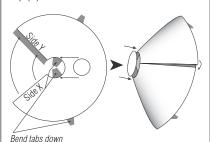


PRE-ASSEMBLY

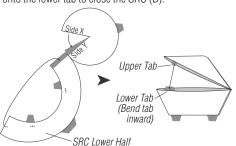
- Carefully cut along the borders of all Spacecraft parts. Do not cut off white tabs or cut through dotted or solid lines on the Spacecraft pieces.
- To easily fold the Spacecraft Bus (A), lightly score the main folds of the Spacecraft (all sides and tabs) with a dull, pointed obiect.



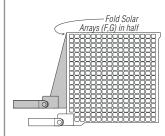
 Bend the High Gain Antenna (HGA) (B) into a cone with the colored side out. Glue or tape side X over top of the tab on Side Y. Next, attach the HGA Top (C) by bending the tabs on the HGA (B) down and glueing or taping the HGA Top (C) to the tabs.



4 Bend the top white circle of the Sample Return Capsule (SRC) (D) into a cone, colored side out. Glue or tape Side X over top of the tab on Side Y. Next, repeat this process on the lower half of the SRC (D). Lastly, bend the lower tab down and glue or tape the upper tab onto the lower tab to close the SRC (D).

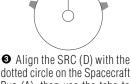


• Fold Solar Arrays (F, G) in half. Glue or tape to keep the two halves together in order to make one solid piece. Repeat with the second Solar Array.



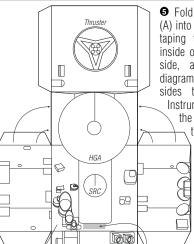
SPACECRAFT ASSEMBLY

- Fold the Spacecraft Bus (A) along the lines shown in Pre-Assembly Step 2. Don't tape or glue yet.
- 2 Align the HGA (B) with the dotted circle on the Spacecraft Bus (A), then use the tabs to glue or tape the HGA (B) to the Spacecraft Bus (A).



dotted circle on the Spacecraft Bus (A), then use the tabs to glue or tape the SRC (D) to the Spacecraft Bus (A).

Fold the Touch-And-Go Sample Acquisition Mechanism (TAGSAM) (E) in half and fold the tab at a 90° angle. Glue or tape the tab to the Spacecraft Bus (A), as shown on the diagram.



TAGSAM

Placement

Instrument

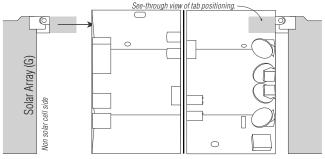
Deck

TAGSAM (E)

 \Box (GO **6** Fold the Spacecraft Bus

(A) into a box by glueing or taping the tabs onto the inside of its corresponding side, as shown in the diagram. Start with the four sides that surround the Instrument Deck, and tape the tabs to the inside of the box as you go.

Leave the side with the Thruster open for the installation of the Solar Arrays.



- Install the Solar Arrays (F, G) and glue or tape tabs to the inside of the Spacecraft Bus (A). Each Solar Array should run parallel to the side of the Spacecraft Bus that it is installed on (see diagram). The solar cell side should face inward toward the Thruster. Once installed, carefully and slightly bend the Solar Arrays down at their point of attachment, so that together the two Solar Arrays form a V shape. Close the top of the Spacecraft by glueing the tabs onto their respective slides, similar to Step 5.
- Refer to the stand diagram below. On the Attachment Tab, cut on the dotted line and fold the left and right rectangles behind the middle rectangle. Tape or glue after folding each rectangle.

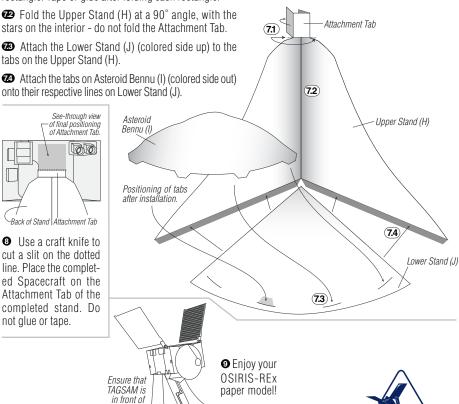


Attach the tabs on Asteroid Bennu (I) (colored side out) onto their respective lines on Lower Stand (J).

> Asteroid Rennu



Use a craft knife to cut a slit on the dotted line. Place the completed Spacecraft on the Attachment Tab of the completed stand. Do not glue or tape.



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