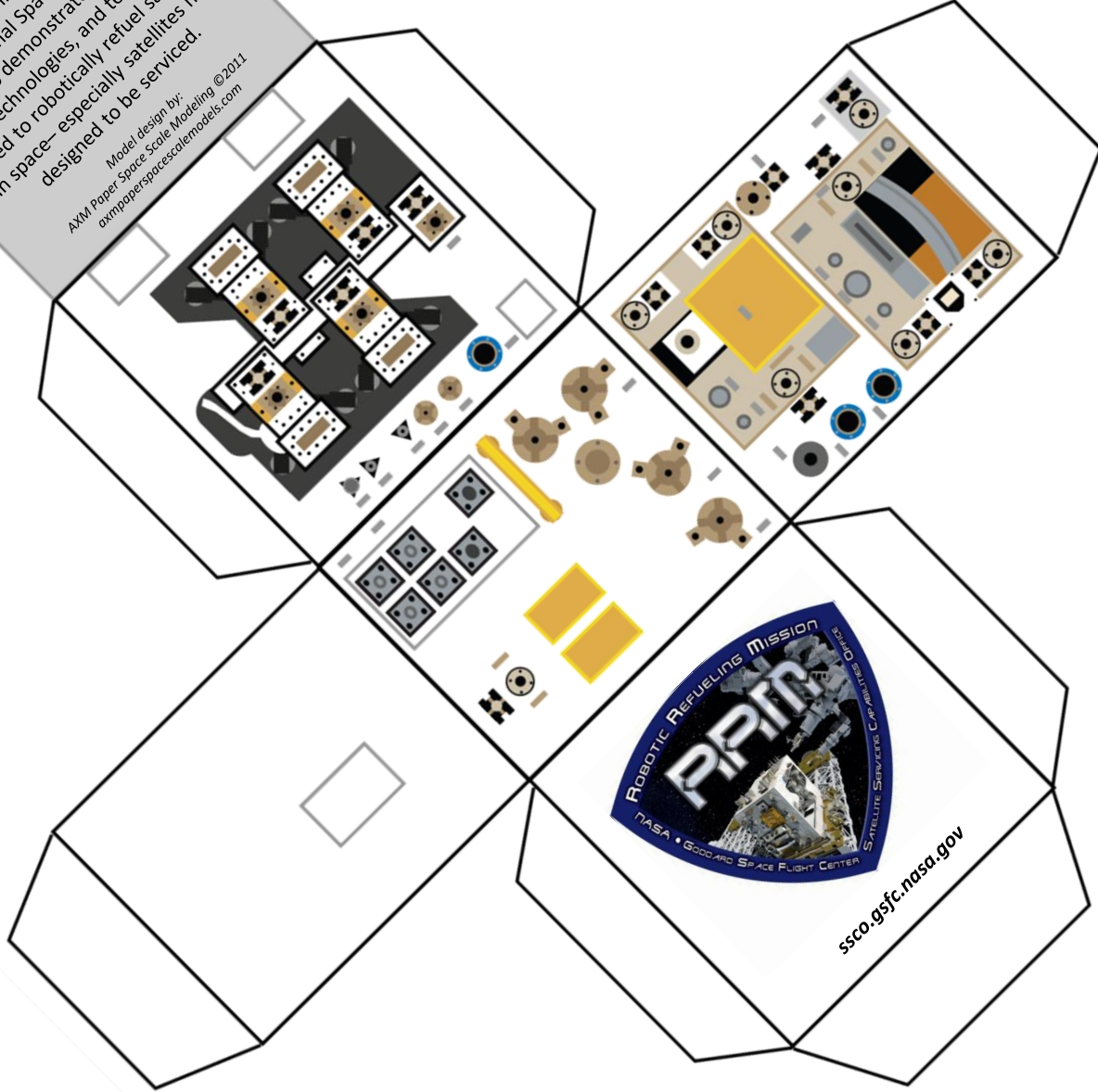


Robotic Refueling Mission (RRM)

RRM is an experiment mounted on the International Space Station that is designed to demonstrate and test the tools, technologies, and techniques needed to robotically refuel satellites in space—especially satellites not designed to be serviced.

Model design by:
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Robotic Refueling Mission Model Key



Robotic Refueling Mission (RRM)

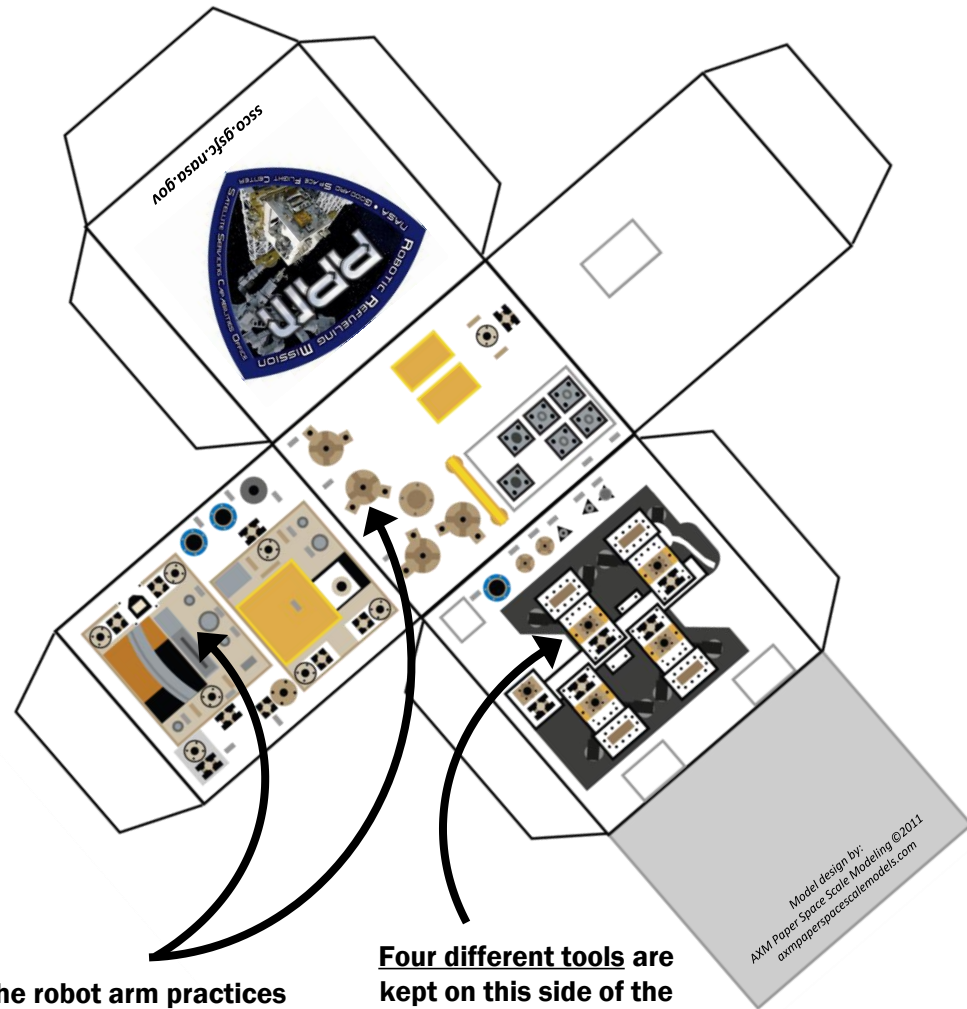
RRM is a box with special tools on the *International Space Station* that helps robotic arms practice fixing and refueling *satellites*. Soon, robots will be able to fly to real satellites to do repairs that will keep them working longer.

What is the *International Space Station*?

The International Space Station is a space structure that travels around Earth where astronauts and robots can do experiments in zero gravity.

What are *satellites*?

Satellites are objects in space that communicate with stations on the ground. Satellites are what make our cell phones, television, and weather maps work. We need these satellites for many things, but they often break or run out of fuel in space. We need to figure out how to fix them!



The robot arm practices using tools on the knobs and panels here. These knobs and panels are parts that can be found on real satellites.

Four different tools are kept on this side of the RRM box. When the robot arm needs to use one, it grabs the knob at the end of the tool and pulls it out.

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