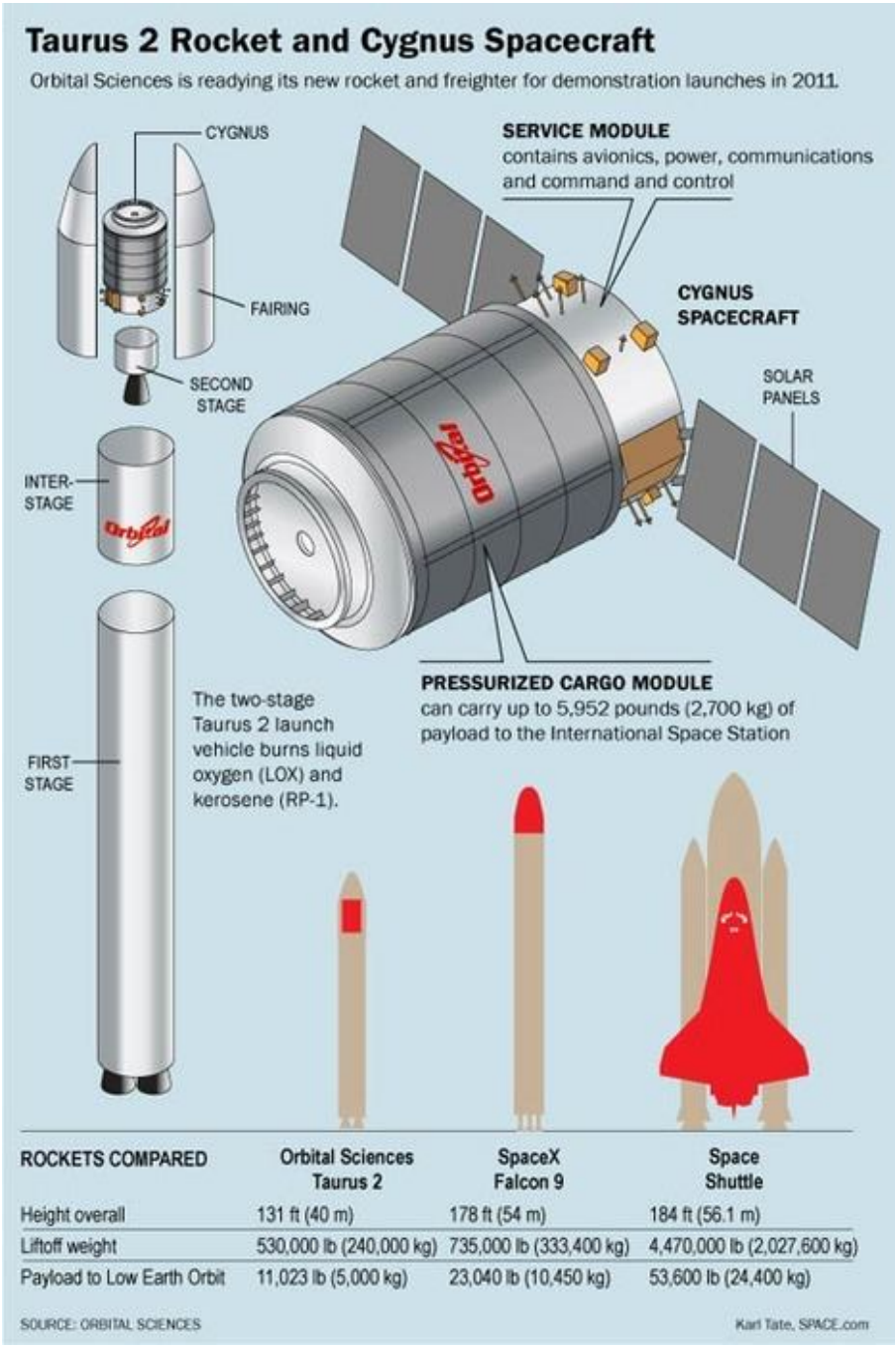
Orbital Sciences Corporation Taurus II 1:100 scale (print at 104% for 1:96 scale)

- Red arrows indicate fold lines, score before cutting. Study the diagram on page 2 before starting. Line up the joining seam when assembling parts.
- Cut out the parts for the fairing. Roll the upper conics and secure, overlapping the tab to the dashed line. Bend in the tabs at the top of each conic, stack, and glue.
- Glue the joiner strip to the side of the fairing cylinder part, then roll the cylinder and secure with the joiner strip. Glue the upper (tabbed) connector inside the top of the cylinder.
- Laminate the fairing formers to thick card and glue in place, one below the upper connector and one ¼ in (6mm) above the lower edge; trim if needed for a snug fit.
- Bend the tabs on the upper edge of the cylinder assembly in slightly and glue the upper fairing conics in place.
- Cut out the parts for the booster.
- Glue the joiner strips to the sides of the upper & lower booster parts, then roll into cylinders and glue (just as you did the fairing cylinder). Glue the connectors inside the upper ends of both booster sections.
- Laminate the formers to thick card and glue inside the booster where indicated. Trim if needed for a snug – not tight – fit. Glue the upper and lower booster sections together.
- Fold the tabs at the bottom of the lower booster and glue the base in place, aligning one of the black marks on the edge with the booster seam. Roll the rocket nozzle parts into conics and stack to make two nozzles. Glue the nozzles into the holes in the rocket base.
- Cut out the wiring channel and fold into a long rectangular beam. Overlap as indicated and glue. Run a fingernail lightly along the bottom to “dish” that side to fit tightly against the booster. Glue to the side of the booster over the rectangular outline.
- Glue the payload fairing assembly to the top of the booster.

A Product of ***Yogi’s Workshop***
Idiosyncratic Carpentry &
Shade Tree Engineering

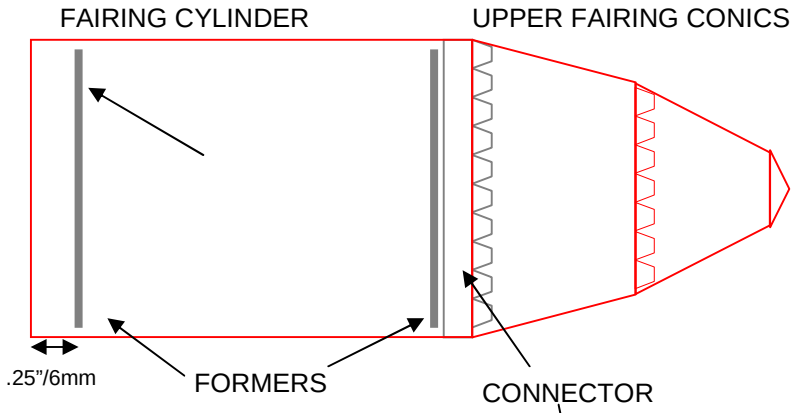


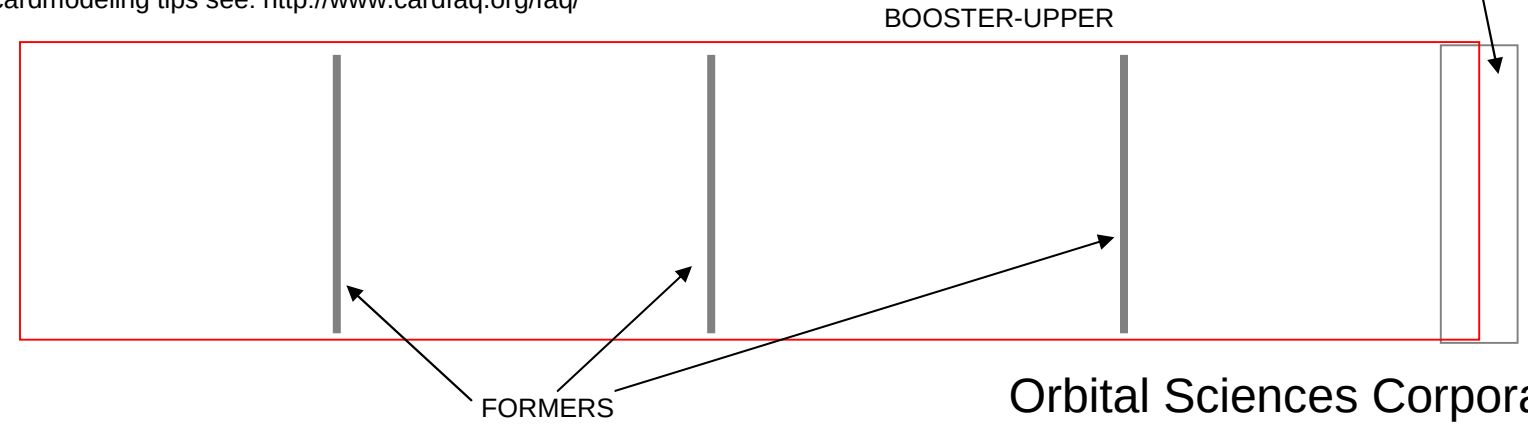
The Taurus II is Orbital Sciences Corporation's rocket for the NASA commercial orbital transportation services contract (COTS) to resupply the International Space Station (ISS). Taurus II is a two stage rocket. The first stage uses two Aerojet AJ-26-62 engines, burning kerosene and liquid oxygen, based on a Soviet design for their N-1 moon rocket. The second stage is encapsulated below the fairing and is an ATK Castor-30A solid rocket motor.

The rocket stack stands about 130 ft (~40m) tall and is just over 12 ft (3.9m) in diameter. It is designed to put up to 14,000 lb (6,500 kg) into orbit. Payloads will be housed in the Cygnus cargo capsule, derived from the ISS multi-purpose logistics module, or an ExPRESS logistics carrier for non-pressurized cargo. Initial Taurus II launches will be from the Mid-Atlantic Regional Spaceport at Wallops Island, Virginia. The rocket can be launched from any of the other US launch facilities if desired (Cape Canaveral, Florida; Vandenberg, California; or Kodiak, Alaska). First launch is expected in mid-late 2011.

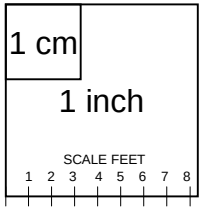
For more information: http://www.orbital.com

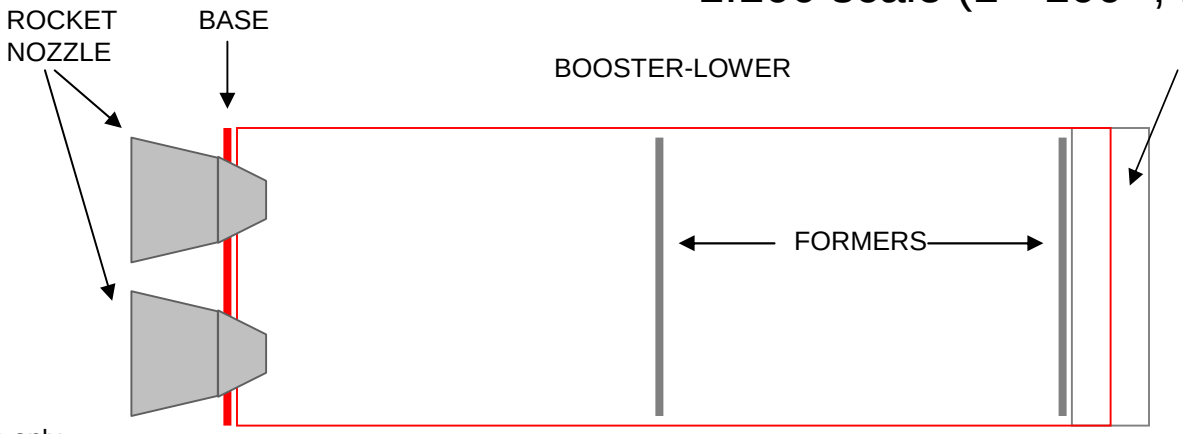
For cardmodeling tips see: http://www.cardfaq.org/faq/



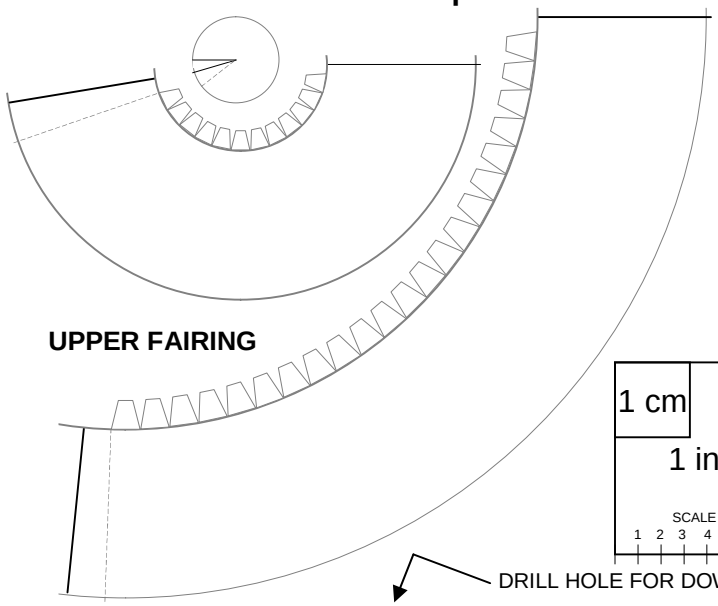


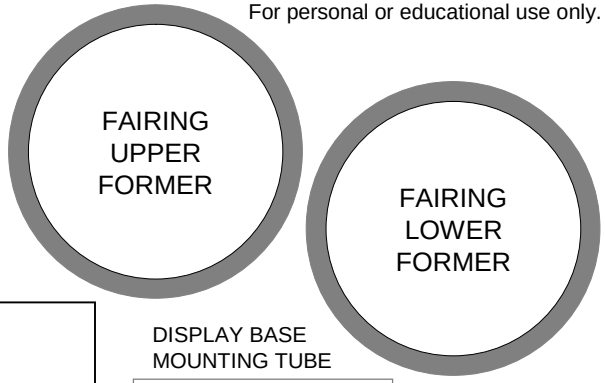
Orbital Sciences Corporation Taurus II
1:100 scale (1"=100" ; 1cm = 1 m)





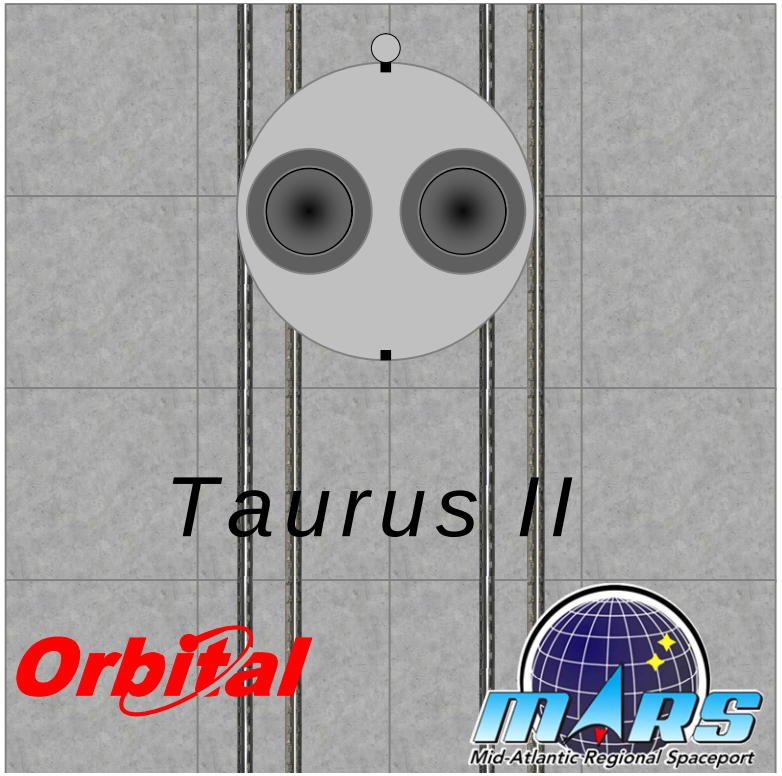
Orbital Sciences Corporation Taurus II 1:100 scale



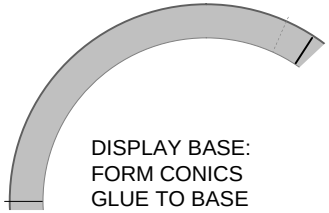


DISPLAY BASE
MOUNTING TUBE

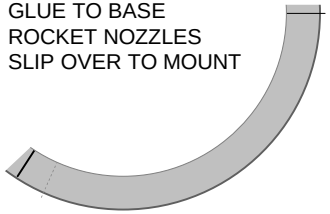
PRINT ON CARDSTOCK



BASE
TEMPLATE



DISPLAY BASE:
FORM CONICS
GLUE TO BASE
ROCKET NOZZLES
SLIP OVER TO MOUNT



FAIRING CYLINDER

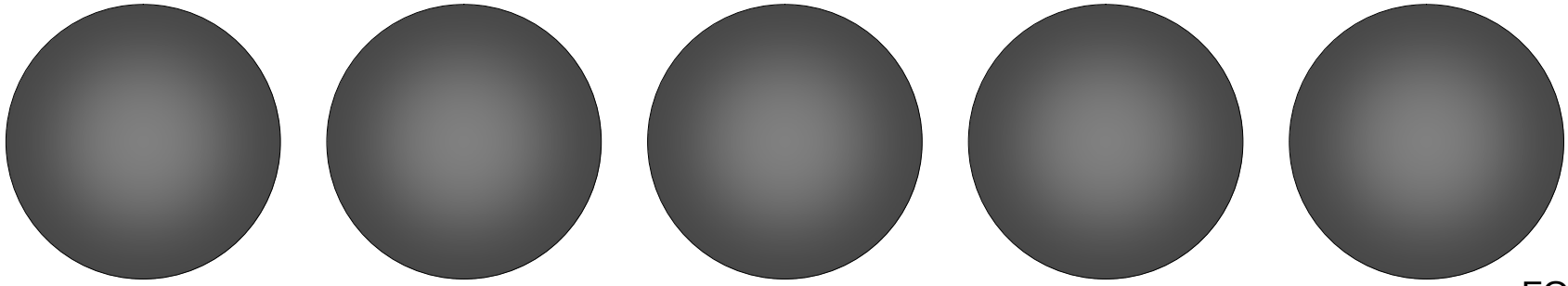
JOINER STRIP – FAIRING CYLINDER

DISPLAY BASE

- Cut out the parts.
- Cut out a wooden base approximately 4 inches square (10 cm). Glue the template to the base.
- Cut a thin dowel about 8 inches long (20 cm). Roll the mounting tube around the dowel loosely and glue into a tube – DO NOT GLUE THE TUBE TO THE DOWEL.
- Cut out, roll and glue the locating cones. Glue the cones over the engine circles on the base.
- Drill a hole to match your dowel using the small circle on the template. Insert the dowel in the hole.
- Set the rocket on the base with the locating cones inside the main engine nozzles. Note where the dowel rests against the rocket – this is where you will attach the mounting tube. Usually the tube will be glued over the seam on the booster. Glue the mounting tube to the rocket.
- When the glue is dry, slip the rocket onto the dowel and lower the engine nozzles over the locating cones for display.

Orbital Sciences Corporation Taurus II 1:100 scale

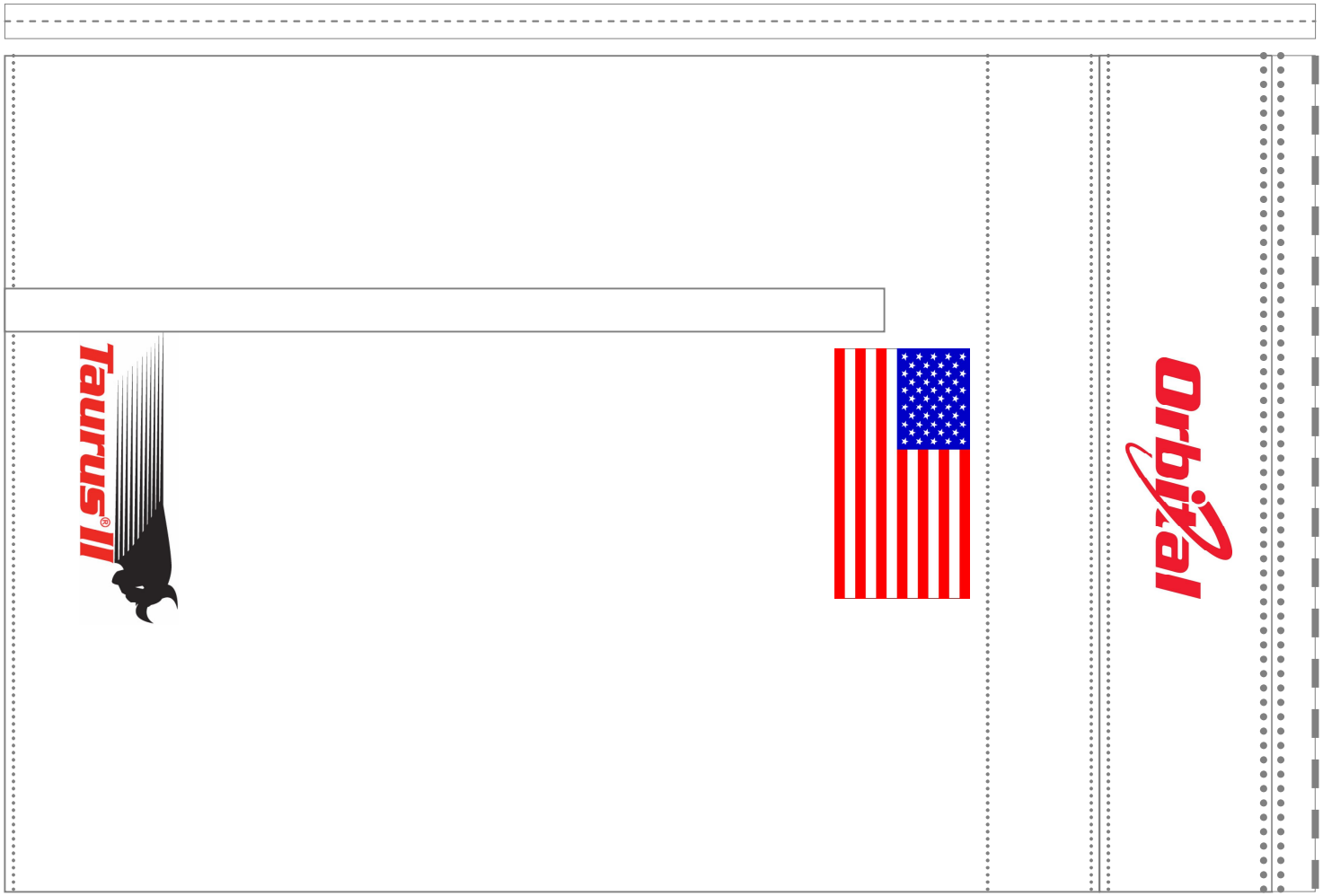
FORMERS-LAMINATE TO THICK CARD



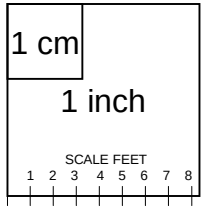
FORMERS

UPPER BOOSTER

JOINER STRIP
UPPER BOOSTER



CONNECT BOOSTER TO FAIRING

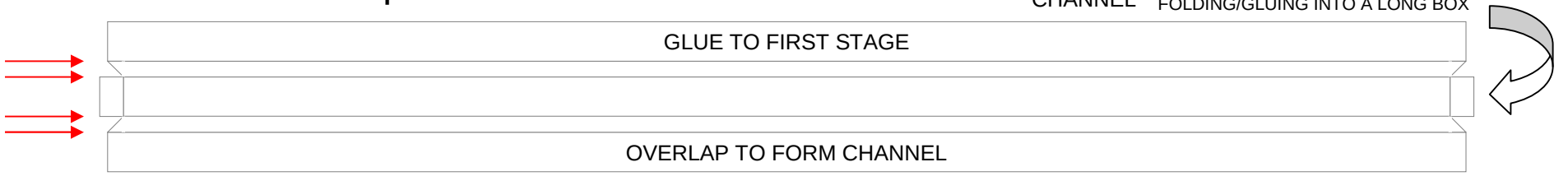


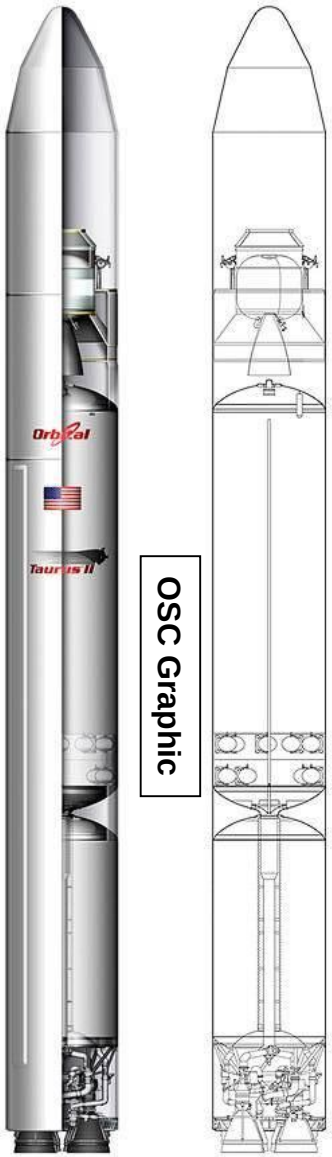
PRINT ON CARDSTOCK

Orbital Sciences Corporation Taurus II 1:100 scale

WIRING CHANNEL

BEND ENDS DOWNWARD TO CLOSE AFTER FOLDING/GLUING INTO A LONG BOX

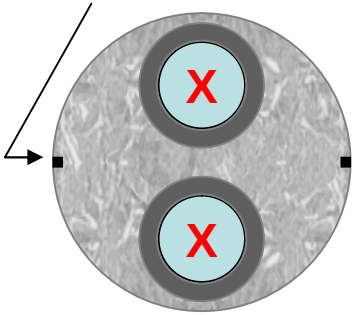




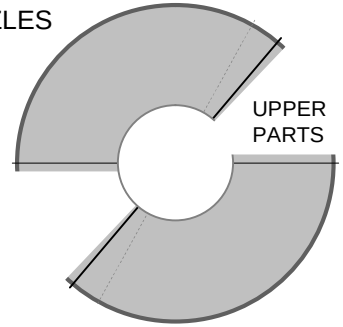
OSC Graphic

ROCKET BASE

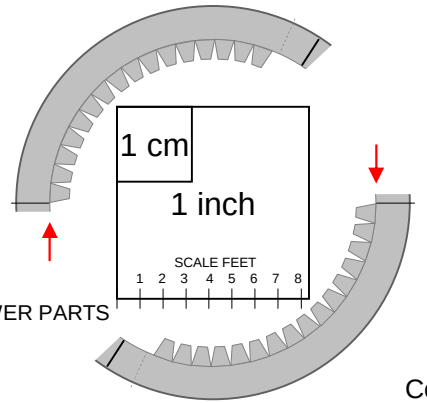
ALIGN WITH SEAM ON BOOSTER



ROCKET NOZZLES



UPPER PARTS



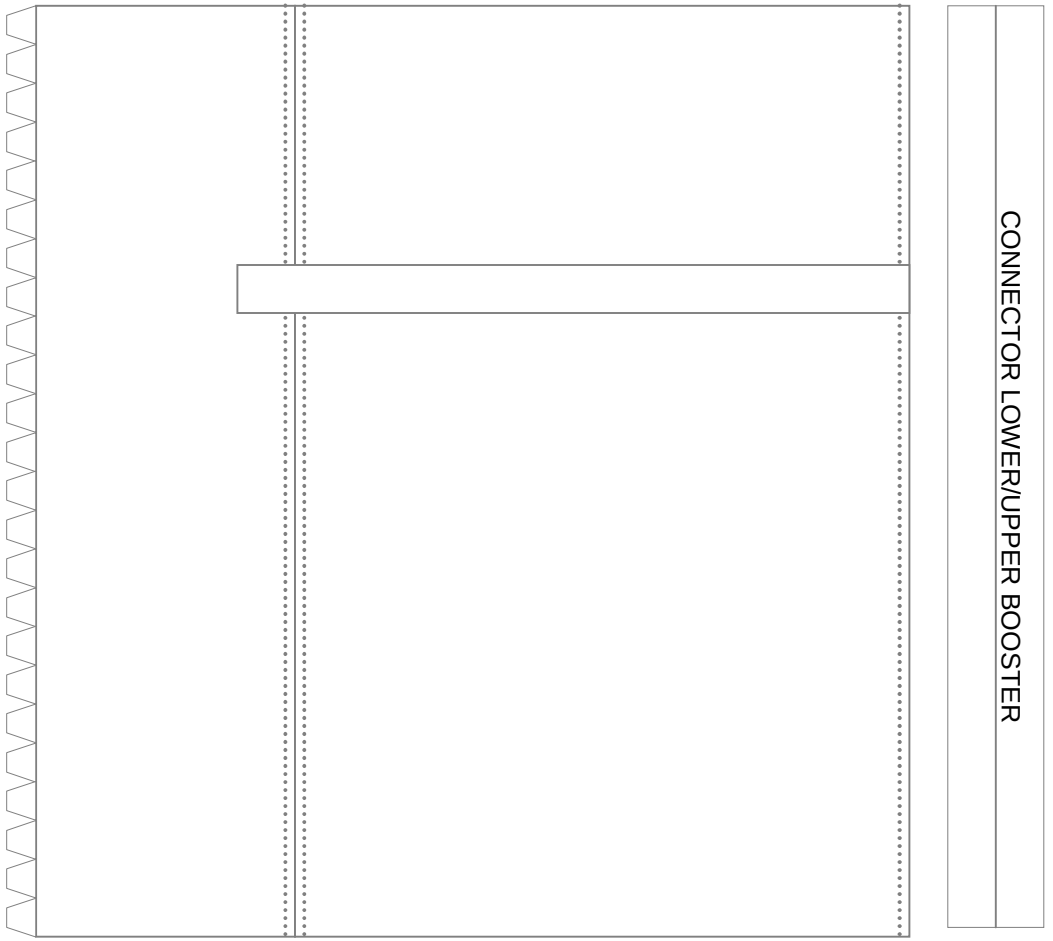
LOWER PARTS

PRINT ON CARDSTOCK

LOWER BOOSTER

FORMERS

JOINER STRIP



CONNECTOR LOWER/UPPER BOOSTER