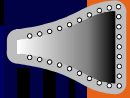
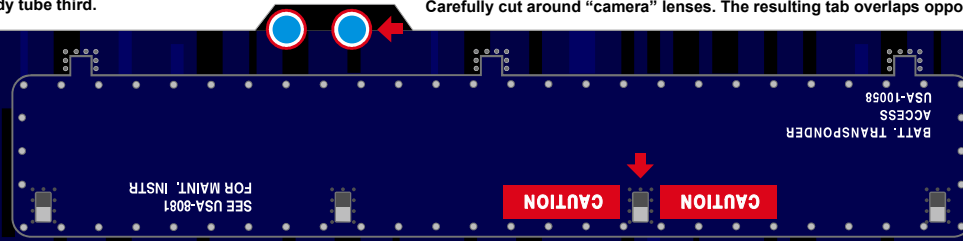


3 Apply this skin to body tube third.

Carefully cut around "camera" lenses. The resulting tab overlaps opposite edge of wrap when complete.

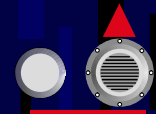


Wing Root: Cut Away - Be sure centerline of cutaway aligns with wing slot in body tube

ULYSSES S. GRANT

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RESERVOIR VENT DO NOT PLUG

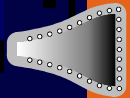
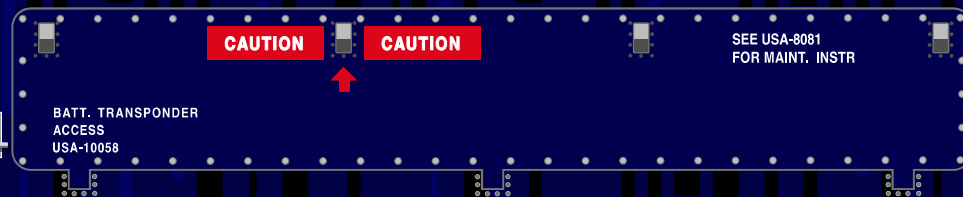


CAUTION



RESERVOIR VENT DO NOT PLUG

Wing Root: Cut Away - Be sure centerline of cutaway aligns with wing slot in body tube

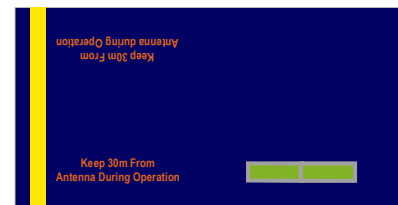


▲ Apply this edge first

▲ Apply this edge first

Paint overall model gloss black. This will camouflage any gaps...intentional or accidental and save a lot of touch up work later.

Use the Spare Patch Material to cover any damage you might incur during flying (or construction). Make sure the Chameleon pattern is aligned properly



Left Rudder Fin Antenna Skin

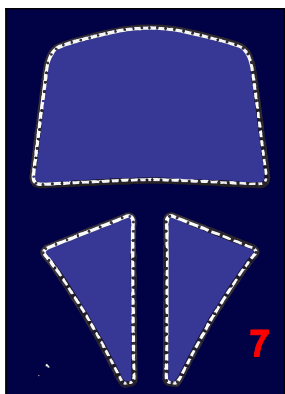
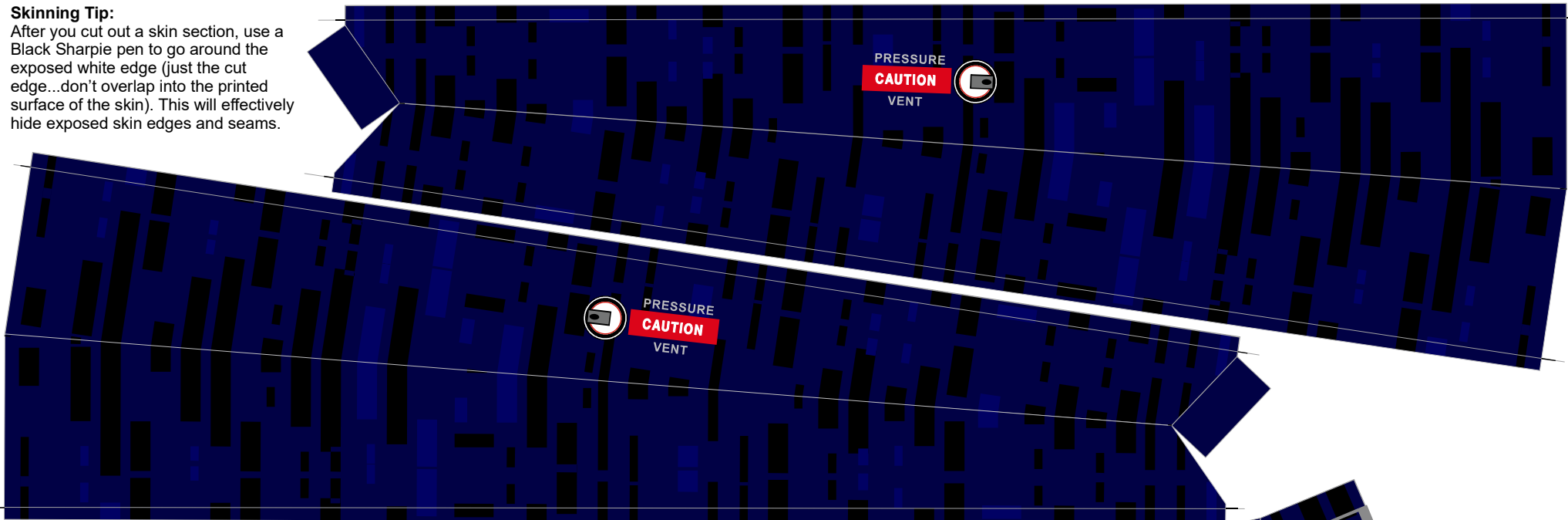
Yellow band end of Antenna Skin aligns with forward edge of the aft portion of the Antenna. Trim overhanging skin from the rear of the antenna flush with the rear surface.

Green marker to rear of antenna faces outward.

REV 10-14-16

Skinning Tip:

After you cut out a skin section, use a Black Sharpie pen to go around the exposed white edge (just the cut edge...don't overlap into the printed surface of the skin). This will effectively hide exposed skin edges and seams.

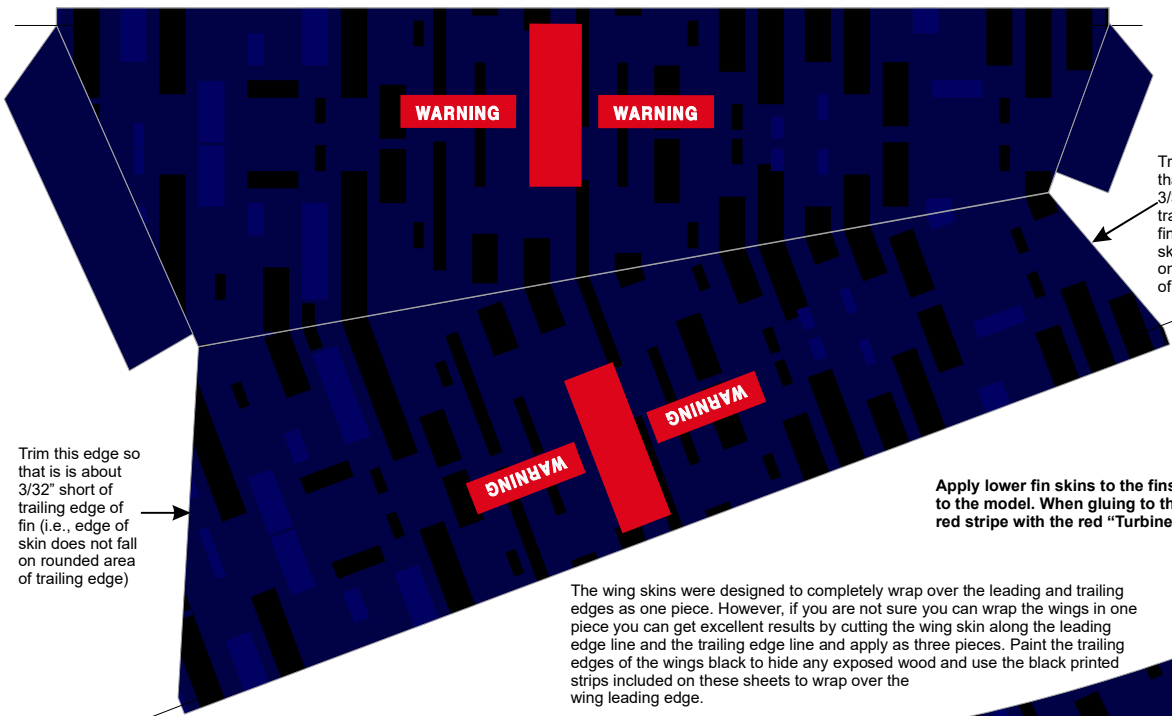


This line represents wing to body tube root edge. Fold excess skin along this line (or trim away to this line if you are going to paint the root fillet rather than bridge it with the excess skin) and use as guide for skin positioning. Also match landing gear door on skin with door on body tube.



REV 10-14-16

Left Lower Fin



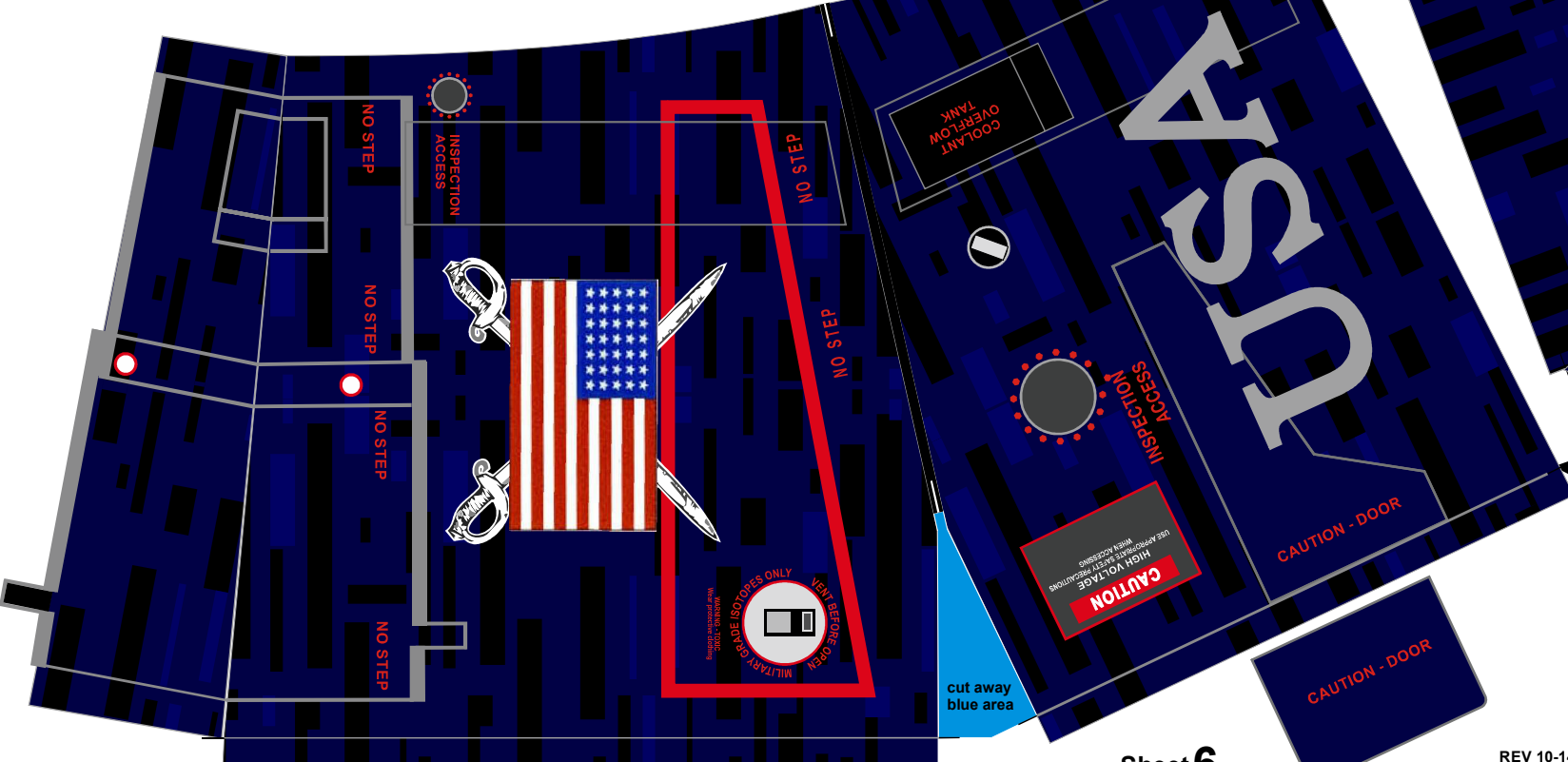
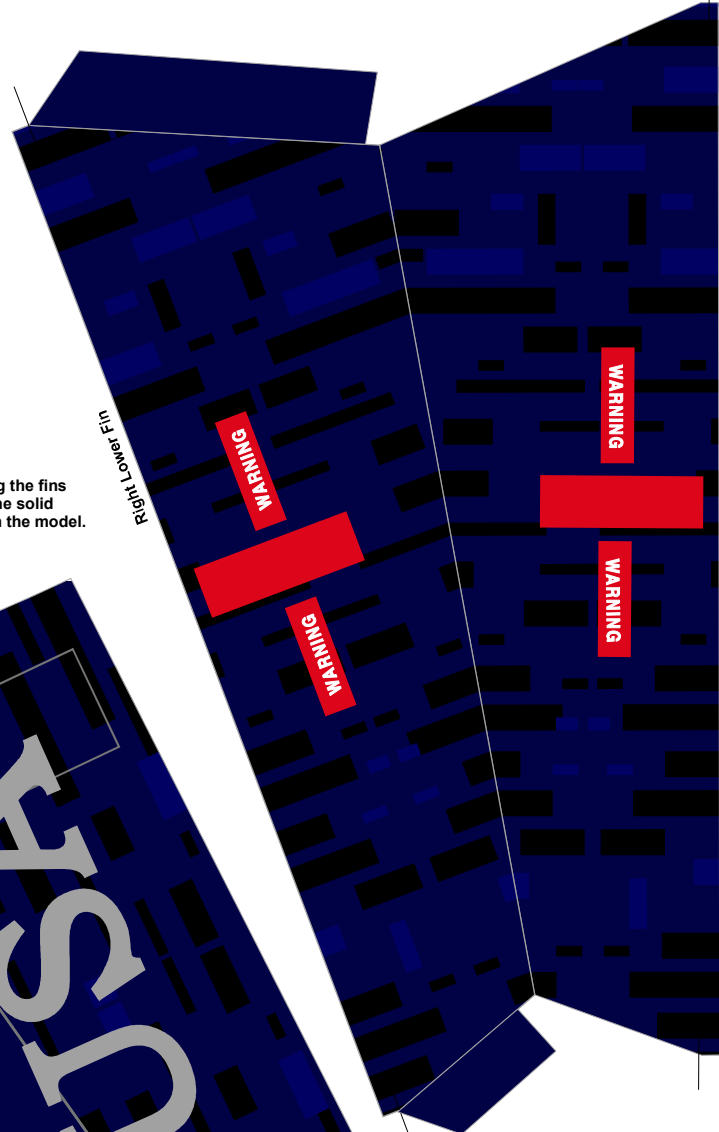
Trim this edge so that is about 3/32" short of trailing edge of fin (i.e., edge of skin does not fall on rounded area of trailing edge)

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Apply lower fin skins to the fins BEFORE gluing the fins to the model. When gluing to the model, align the solid red stripe with the red "Turbine Plane" stripe on the model.

The wing skins were designed to completely wrap over the leading and trailing edges as one piece. However, if you are not sure you can wrap the wings in one piece you can get excellent results by cutting the wing skin along the leading edge line and the trailing edge line and apply as three pieces. Paint the trailing edges of the wings black to hide any exposed wood and use the black printed strips included on these sheets to wrap over the wing leading edge.

Right Lower Fin



This line represents wing to body tube root edge. Fold excess skin along this line (or trim away to this line if you are going to paint the root fillet rather than bridge it with the excess skin) and use as guide for skin positioning. Also match landing gear door on skin with door on body tube.

Spray light coat of clear (such as Blair 500 Digi-Finish) to sheet before using

Leading edge cover (optional)

Leading edge cover (optional)

Leading edge cover (optional)

Apply this skin to Right rudder First, folding the leading and trailing edge tabs over to other side of fin.

Cut Blue Area away after applying skin
Align this edge with tip of rudder

Cut Blue Area away after applying skin
Align this edge with tip of rudder

Cut Blue Area away after applying skin
Align this edge with tip of rudder

Align top edge of rudder skins with top edge of rudders and then trim leading, trailing and root edges to fit (only trim root edge for the "Swords & Flag" skins.

The excess skin at the root edge is intentional. If you have created a large fillet when attaching the rudders and wings to body tube, the excess can extend over and cover the fillet.

The "USA" skins are applied last to the rudders. They overlap the tabs which wrapped around the leading and trailing edges when the "Swords & Flag" skins were applied. These skins are intentionally oversized. Position and Trim these skins so that 1/16" to 3/32" of the leading and trailing edges are exposed.

Leading edge cover (optional)

Spray light coat of clear (such as Blair 500 Digi-Finish) to sheet before using

REV 10-14-16

← Grain →
Wing Chine (Make 2)

← Grain →
Rudder Chine
(Make 2)

REMOVE

Engine Mount Radiator Fin from Cosmic Interceptor kit
(Modify by removing grey area indicated above)

Wing (Make 2)
← Grain →

Rudder (Make 2)
← Grain →

Antenna (Make 2 from 3/16" dowel)

Ventral Fin (Make 2)
← Grain →

Pattern Sheet

Layout on 4X24x1/8"

Make the wing pods using a 3" section of BT-20 body tube and 1 long ogive plastic nosecone and one short parabolic nosecone from the Estes #3162 Nosecone pack. Unfortunately, though the #3162 Nosecone Pack almost always comes with two long ogive nosecones it doesn't always come with two of the short parabolic nosecones but instead has two short blunt-point nosecones. You can still make good-looking wing pods using the conical nosecones. In the older Estes parts nomenclature the long nosecone would be a PNC-20W and the short nosecone would be a PNC-20B. You can substitute equivalently shaped balsa nosecones.

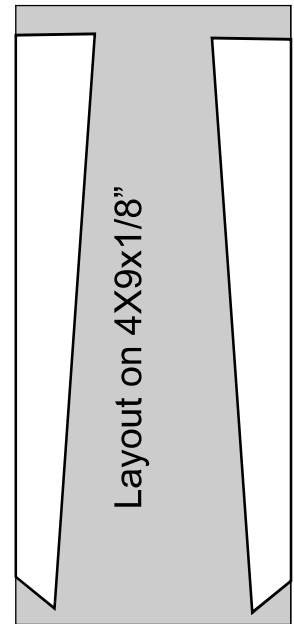
Modify the **Cosmic Interceptor engine mount** radiator fins as shown to the left on the Pattern Sheet by removing the projecting tab. Paint radiator fin section Black or Gunmetal. Save installing engine mount until the model is complete then install so the cooling fins protrude by about 1 to 1.25 inches and the engine hook is aligned between the rudder fins or the ventral fins.

The skins for the body tubes have the locations for the wings, ventral fins and rudders. **Glue the wings on first** so that with the body tube resting on your work surface both wing tips also rest on your work surface. After the wings are dry glue the ventral fins and rudders so they point straight away from the body tube.

Recommended Extra Parts

In Addition To Cosmic Interceptor Kit

- 1) Estes #3162 Nosecone Pack
- 2) Two Sheets 24X4X1/8" Dense Balsa or Basswood (basswood is recommended)
- 3) Two 4" long by 3/16" hardwood dowels



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