

Left outside Rudder Skin (excess material remains to bridge fillets)

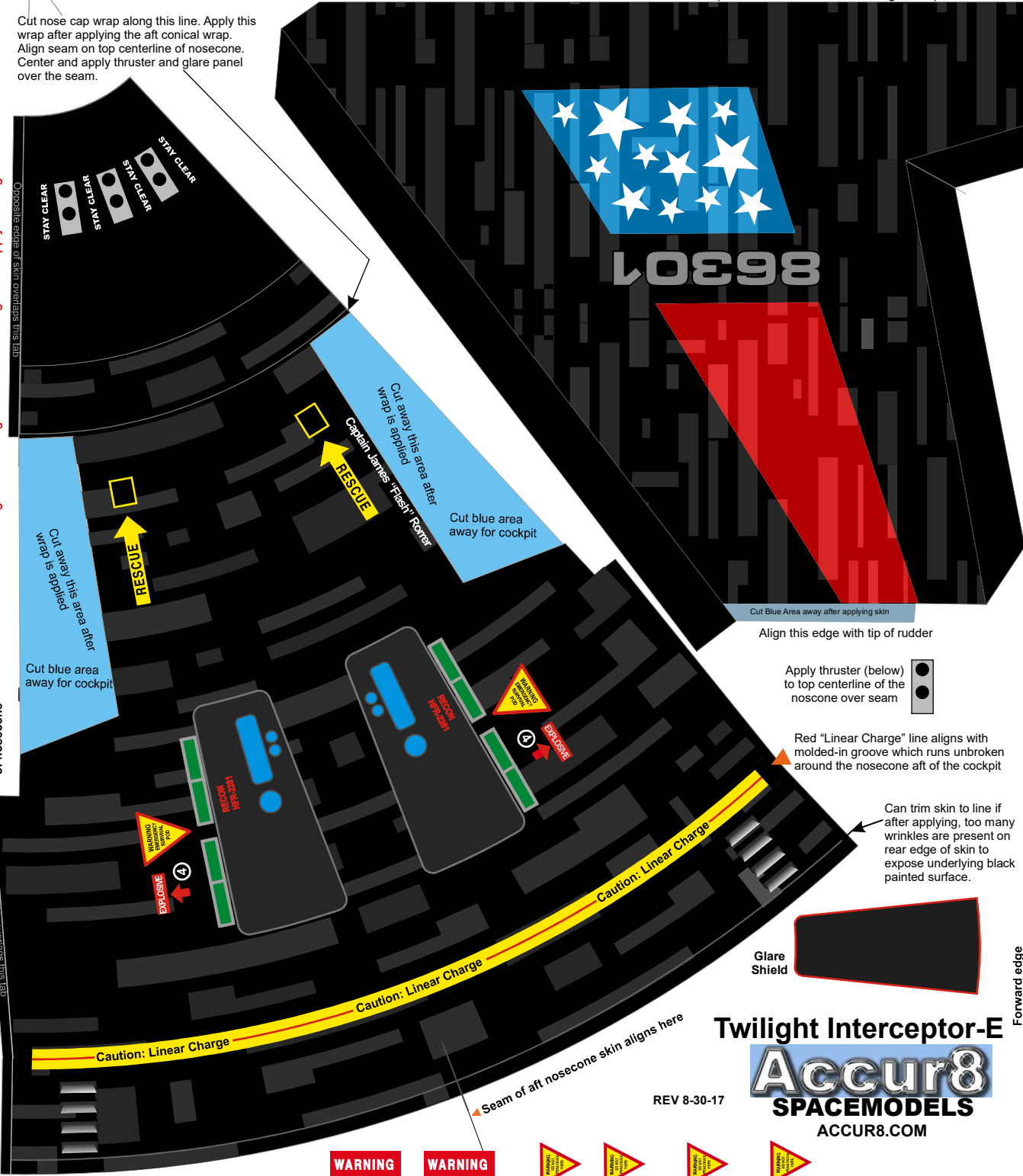
Cut nose cap wrap along this line. Apply this wrap after applying the aft conical wrap. Align seam on top centerline of nosecone. Center and apply thruster and glare panel over the seam.

Cut 1/2" of backing from this edged to "tack" and align skin. Apply this edge first

Top centerline of nosecone

Cut 1/2" of backing from this edged to "tack" and align skin. Apply this edge first

Cut 1/4" of backing from this edged to "tack" and align skin. Apply this edge first



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

This edge on bottom centerline of nosecone. Apply this skin to nosecone last, carefully aligning forward edge with the aft edge of forward skin.



Opposite edge of skin overlaps this tab. Cut 1/4" of backing from this edged to "tack" and align skin. Apply this edge first. The rear nosecone skin is intentionally printed a bit long (front to rear) to allow for trimming to size once forward skin is in place and rear skin is butted against aft edge of forward skin.

Twilight Interceptor-E
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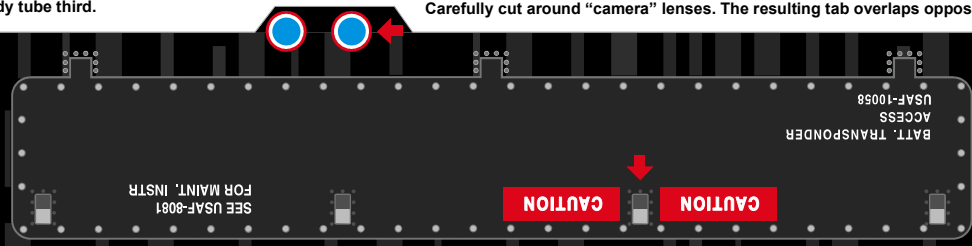
WARNING WARNING

3 Apply this skin to body tube third.

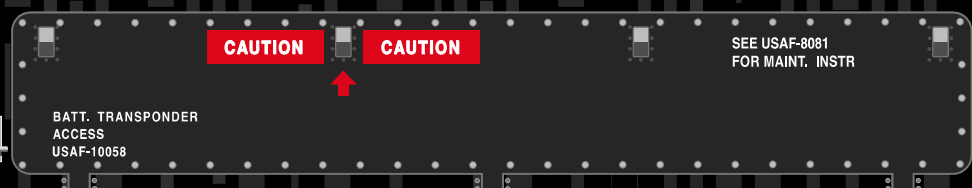
Carefully cut around "camera" lenses. The resulting tab overlaps opposite edge of wrap when complete.

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

DE-301 U.S. AIR FORCE DE-301



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

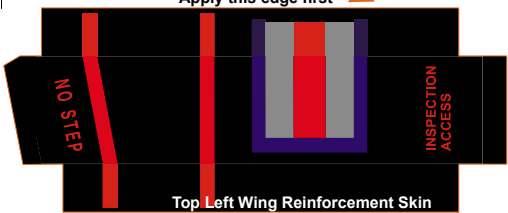


Wing Root: Cut Away - Be sure centerline of cutaway aligns with wing slot in body tube



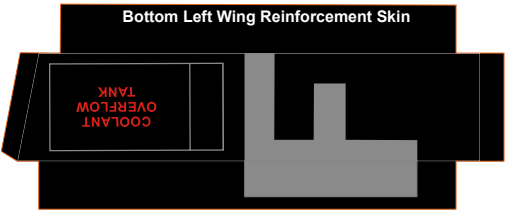
- WARNING: Sharp Edges
- WARNING: Sharp Edges
- WARNING: Sharp Edges
- WARNING: Sharp Edges
- WARNING
- WARNING

Opposite edge of skin overlaps this tab
Apply this edge first

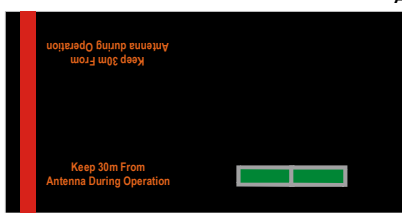


Top Left Wing Reinforcement Skin

Cut balsa wing reinforcements to 2 5/8" length before shaping and applying skins



Bottom Left Wing Reinforcement Skin



Left Rudder Fin Antenna Skin

Apply this edge first

Red 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.
Yellow marker to rear of antenna faces outward.

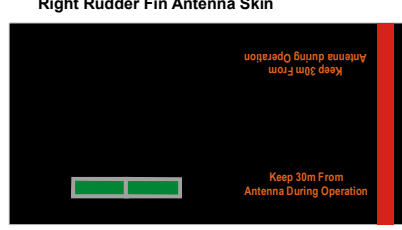
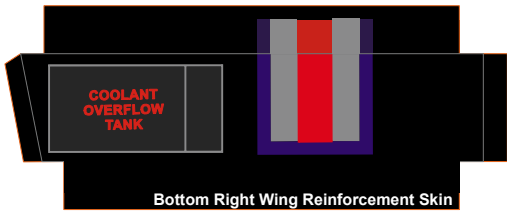
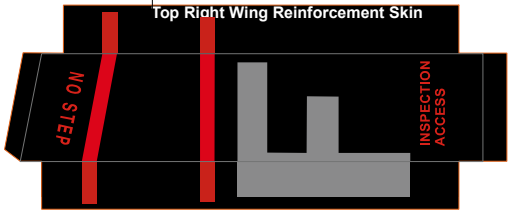
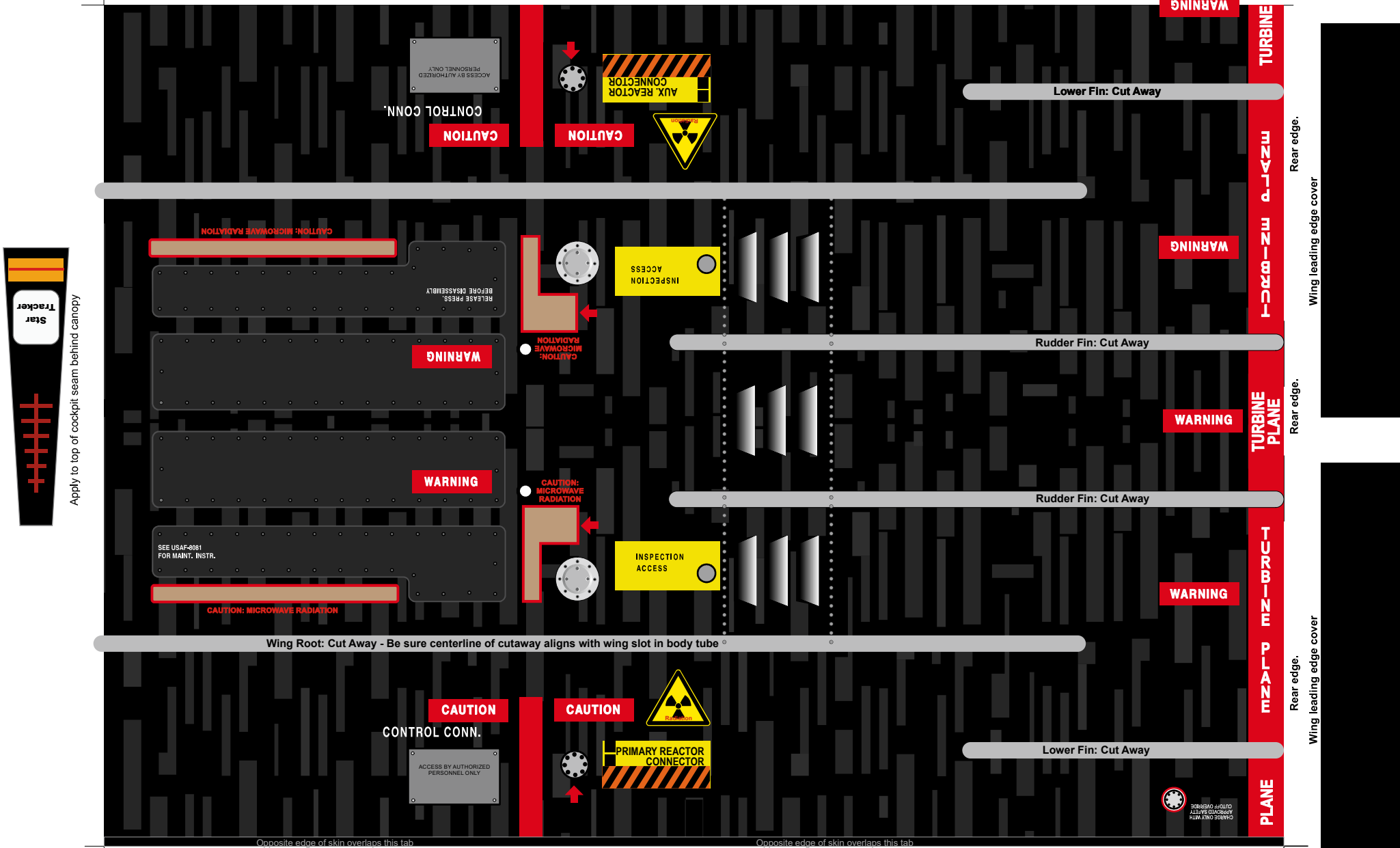
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2 Apply this skin to body tube second.

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

Carefully cut around "Warning" label edges



Red 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.

Yellow marker to rear of antenna faces outward.

Twilight Interceptor-E

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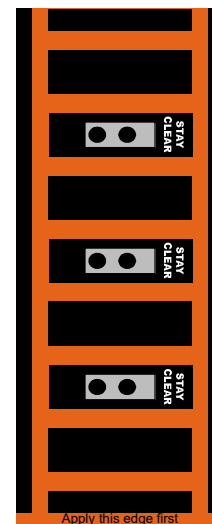
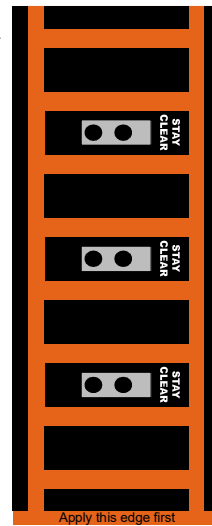
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Cut balsa wing reinforcements to 2 5/8" length before shaping and applying skins

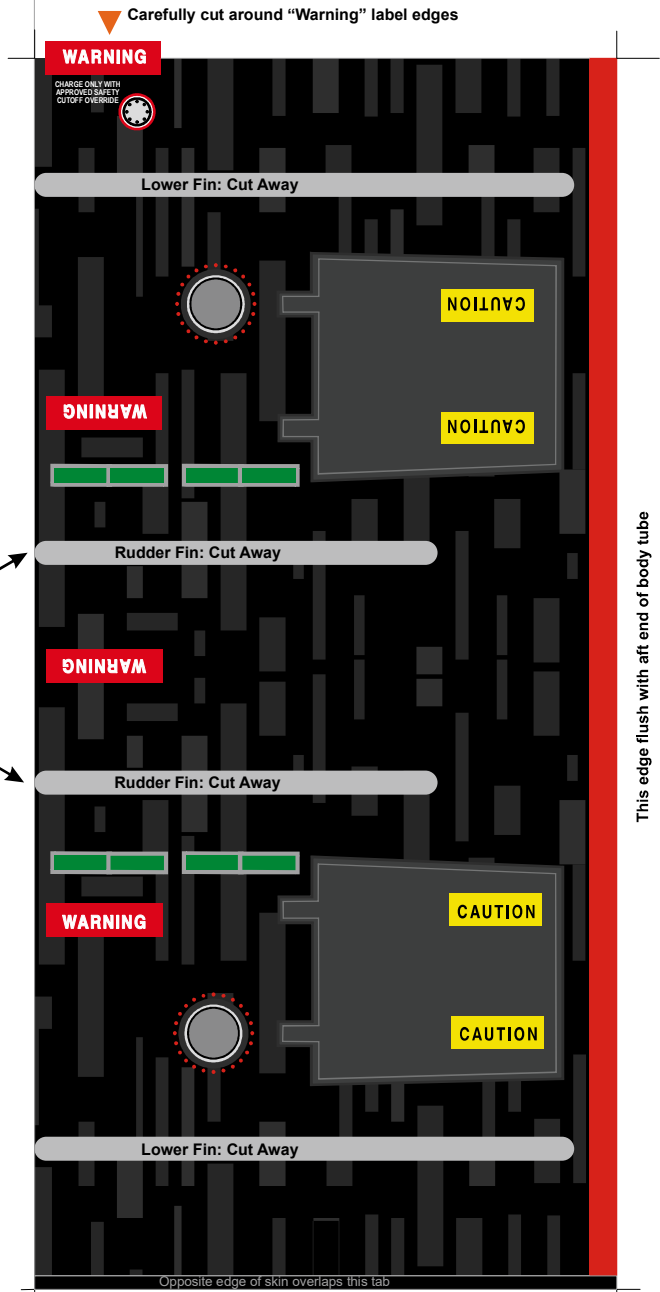


Forward edge of body tube

Apply this edge first



Center the two Rudder Fin Cut Away areas with the slots cut into Aft Body Tube

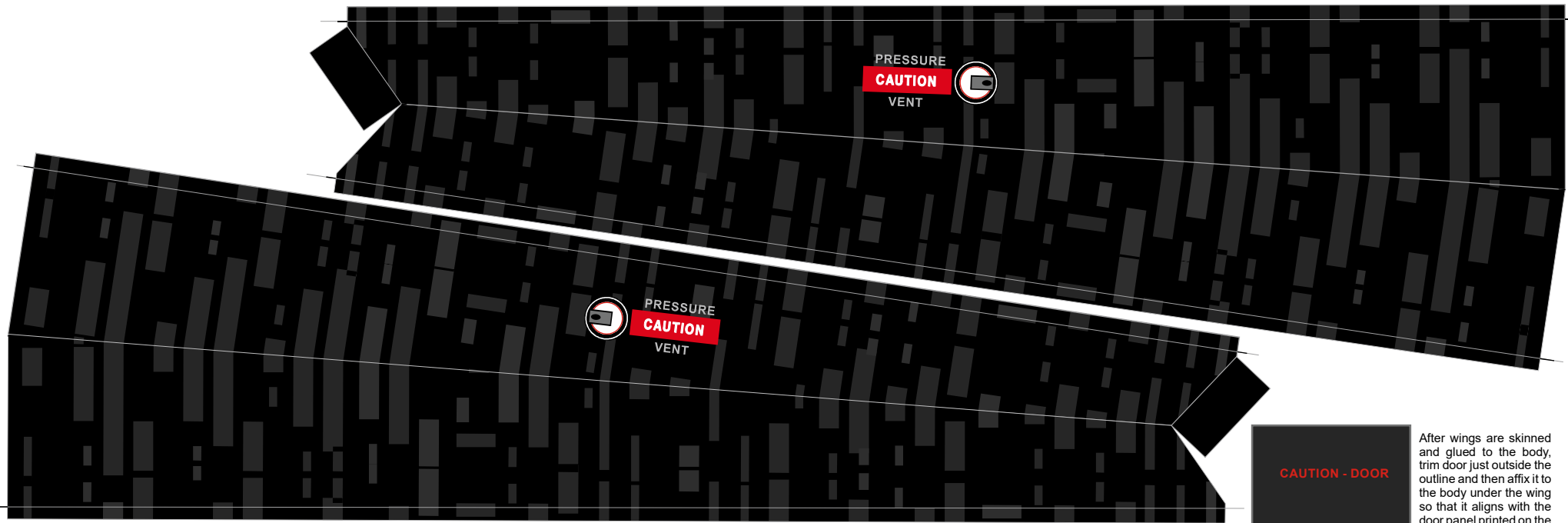


1 Apply this edge to body tube first
Apply this skin to the body tube first

4 Apply this skin to the body tube last

There are four sections of body tube skins numbered with red 1-4. Apply #1 to rear of body first, then 2, etc.

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



Spray light coat of clear (such as Krylon Crystal Clear) to sheet before using

CAUTION - DOOR

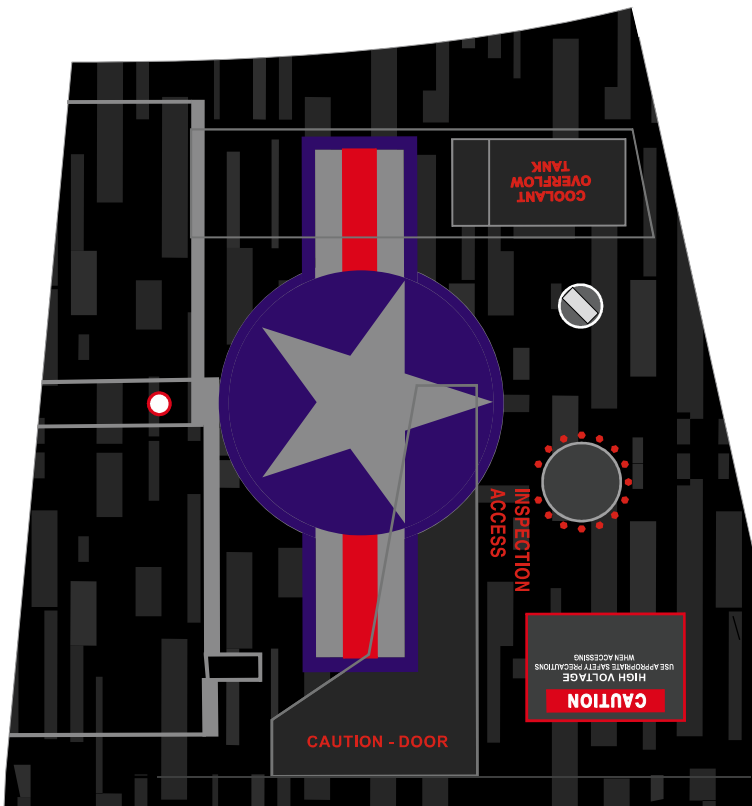
After wings are skinned and glued to the body, trim door just outside the outline and then affix it to the body under the wing so that it aligns with the door panel printed on the wing

Skinning the Wings

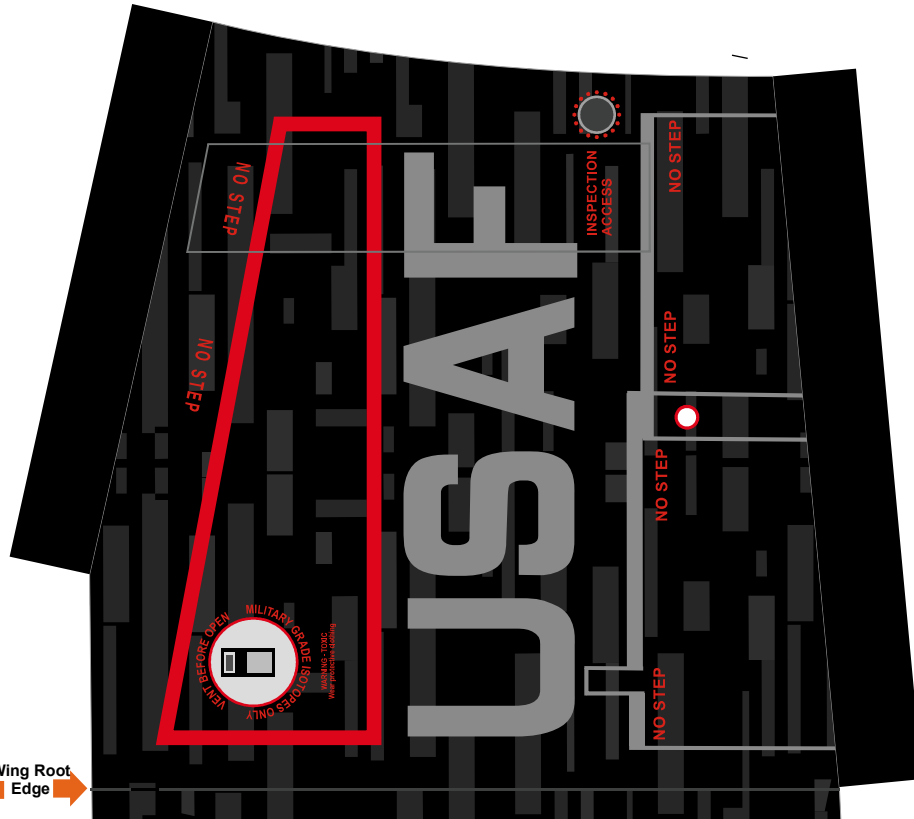
1. Apply the top wing skin first and wrap tabs over leading and trailing edges. Align the light "root edge" line with the root/body joint of the wing.
2. Apply the bottom wing skin observing the root alignment and alignment with details on top of wing.
3. Fold the wing chine skins sharply along the centerline and pre-fit to chine. Trim the rear edge of the chines to butt or slightly overlap corresponding edge on wing. Remove backing and carefully position the skin so the fold runs down the center of the outside leading edge of the wing chine. Adhere the side of the skin that has the tab at the forward end first. Tightly fold remaining skin surface around the leading edge and adhere to bottom of chine.

Skinning the Subfins

Sharply fold the subfin skins along the centerline. Place skin face down on work surface and remove backing. Carefully position the outside leading edge of subfin over fold and then fold the side with the tabs up and adhere to subfin surface. Fold the tabs around the front and rear edges. Finally, fold the remaining skin over the other side of the subfin and trim the skin flush with the subfin root edge.



Wing Root Edge



White Chameleon Interceptor-E

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Sheet 5

Left Lower Fin

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

WARNING

WARNING

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). Both Fins

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) Both Fins

WARNING

WARNING

After wings are skinned and glued to the body, trim door just outside the outline and then affix it to the body under the wing so that it aligns with the door panel printed on the wing

CAUTION - DOOR

Right Lower Fin

WARNING

WARNING

WARNING

"Repair Stripes"- Clip and use as needed

WARNING

COOLANT OVERFLOW TANK

USAF

CAUTION - DOOR

INSPECTION ACCESS

NO STEP

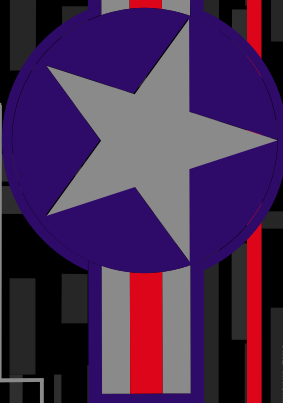
NO STEP

NO STEP

NO STEP

NO STEP

NO STEP



REMOVE BEFORE OPENING

MILITARY GRADE ADHESIVES ONLY

CAUTION HIGH VOLTAGE USE APPROPRIATE SAFETY PRECAUTIONS WHEN ACCESSING

INSPECTION ACCESS

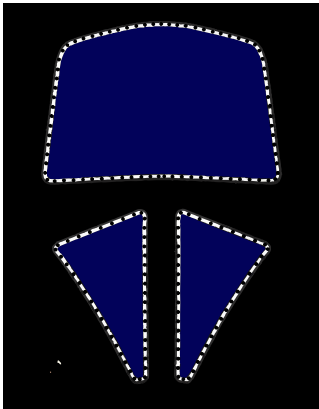
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Twilight Interceptor-E

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Wing Root Edge



Trim just outside of dotted white outline. Forward two windows remain attached together by black area between them. Center over forward peak of canopy.

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

Wing leading edge cover

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 (nly trim root edge for the "86301" 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 "USAF" skins are applied last to the rudders. They overlap the tabs which wrapped around the leading and trailing edges when the "86301" 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.

Twilight Interceptor-E

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

← 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 8 Twilight Interceptor-E

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.

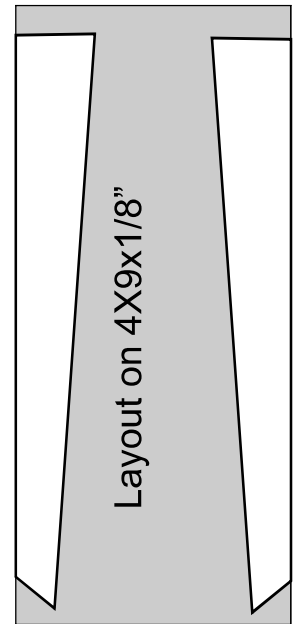
Modify the **Cosmic Interceptor engine mount** radiator fins as shown to the left on the Pattern Sheet by removing the projecting tab. Paint radiator fin section Black or Gunmetal. Save installing engine mount until the model is complete then install so the cooling fins protrude by about 1 to 1.25 inches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

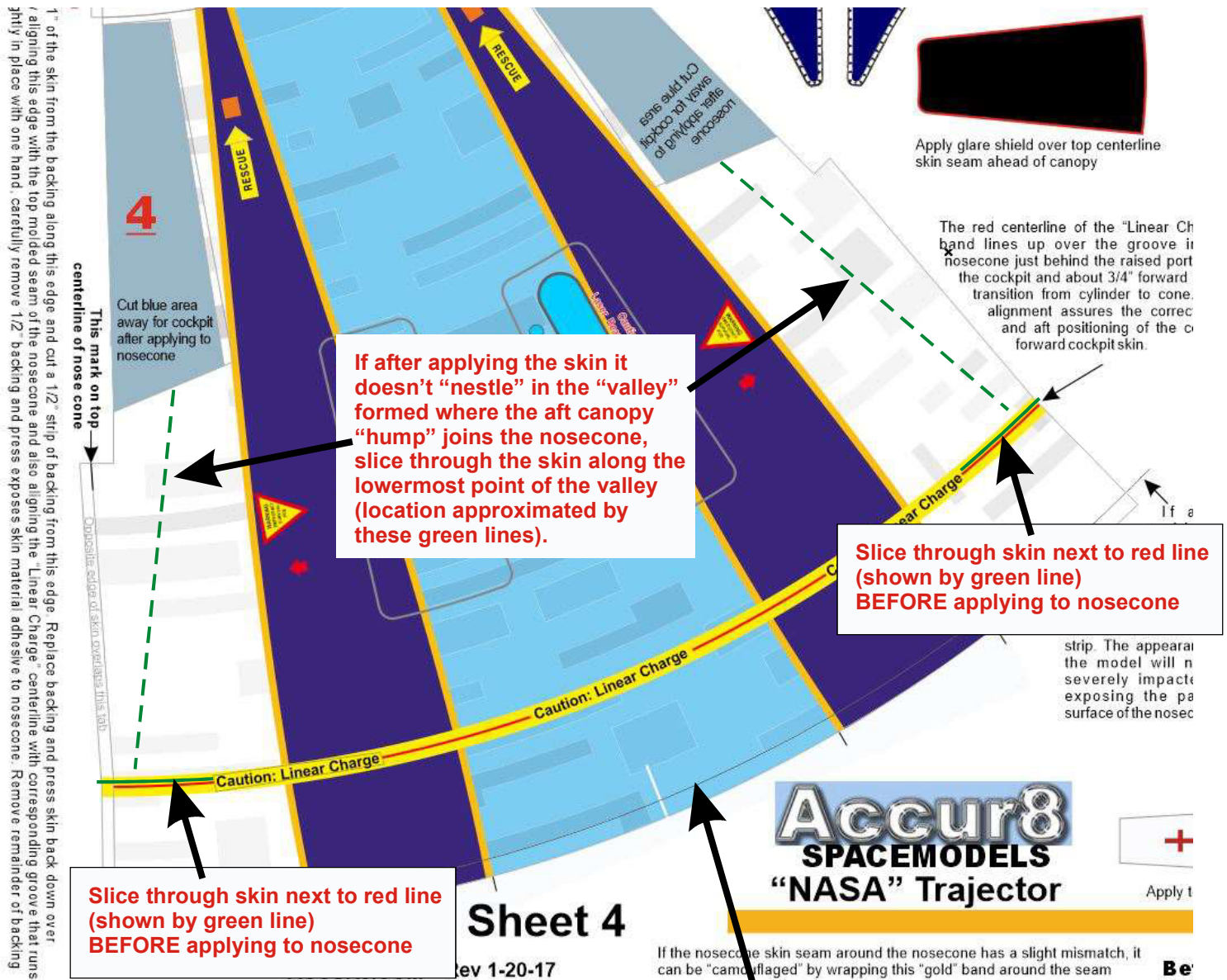
The skins for the body tubes have the locations for the wings, ventral fins and rudders. **Glue the wings on first** so that with the body tube resting on your work surface both wing tips also rest on your work surface. After the wings are dry glue the ventral fins and rudders so they point straight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





If after applying this skin section you can't satisfactorily remove wrinkles at the compound curve, cut along this line and remove wrinkled strip. You should be able to remove remaining wrinkles by rolling (don't slide!) a warm clothes iron or covering iron over the remaining wrinkles. Then apply the aft nosecone skin, butting it against the aft edge of this nosecone wrap. Its forward edge will also have wrinkles that you should be able to "iron out". This is the most challenging part of skinning the nosecone. Take your time and be patient!

The biggest challenge in applying the skin to the Trajectory and Interceptor nosecones is making the skin conform to the curve where the conical section of the nose meets the cylindrical aft section. The skin material WILL heat shrink to a slight degree by using either a clothes iron or, preferably, an iron intended for applying plastic coverings to model airplanes (typically called a "Monokote Iron"...an invaluable tool to have in your toolbox for many uses). I set my "Monokote" iron to half max and slowly "roll" it over the wrinkle (don't slide the iron on the skin or you risk damaging the skin). Apply only light pressure as you roll the iron over the affected area. Only apply the iron to the surface 2-3 seconds at a time so that you don't heat the underlying plastic of the nosecone enough to deform it.

With a clothes iron, due to its size, it may be easier to rest the iron in its "parked" (standing) position and roll the affected area of the nosecone over the stationary surface of the iron.

A few minutes of work with the iron and a bit of patience will go a long way.

If you can't get all the wrinkles out of the forward skin section, cut along the line indicated above and remove the wrinkled strip. Then, apply the aft skin, butting it against the edge of the forward skin. It will likely have wrinkles so repeat the "ironing" process for the aft skin.

Sometimes you just can't satisfactorily get all the wrinkles out. In such cases, you can carefully cut the middle "V section" out of the wrinkle and get the edges to lay flat. Then, you can use the provided "camouflage strip" provided to wrap around and cover the excised wrinkle areas.