

3 Apply this skin to body tube third.

Forward skin edge

Rear skin edge

Apply this edge first ▲ Cut away 1/4" of backing and replace. Pre-wrap and position skin, Lift this edge and remove backing to expose adhesive and press to body tube. Adhere remaining skin while removing backing. Apply this edge first ▲

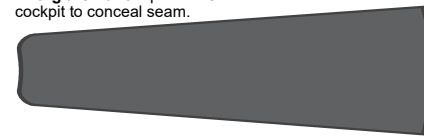
Right Antenna Pod Skin

Left Antenna Pod Skin

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.

Anti-glare Panel optional. Center on nose ahead of cockpit to conceal seam.



**THUNDERBIRDS
Interceptor-E**

REV 3-25-16

General Body and Wing Assembly

1. Apply all body wraps starting with the rear wrap. Be sure the wing and rudder slots on the body tube align with corresponding areas on the rearmost skin. Be sure the wing root areas on the second skin align perfectly with the corresponding areas on the first skin. The longitudinal seams of the third and fourth wrap align with the seams of the first two wraps.

2. Assemble the wings, rudders and subfins. Sand all root edges square and pre-glue those edges with the adhesive you will use to glue them to the body tube. Sand leading edges of the wings and rudders round. Sand the trailing edges to a taper. Sand all but root edges of subfins round. Apply at least one coat of sealer to all wood surfaces and sand smooth. Finish with a coat of gloss white to provide a good surface for the skins to adhere to. You don't have to perfectly fill all wood grain.

3. Apply the skins to all wings, rudders and fins. Trim excess at root edges flush with root edge then lightly sand root edges to remove any sealer or paint.

4. Cut away root edge skin in the areas indicated on the skin to expose body tube and slots in body tube.

5. Glue the wings to the body first making sure they project straight from centerline. Proper wing "droop" is accomplished with body resting on flat surface and both wingtips touch (or almost touch) the surface. Wipe away any excess glue from root edge.

6. Glue one rudder to body projecting straight from body and let dry. Measure the distance from the tip of the rudder to the tip of the wing on that side. Glue second rudder in place making sure the distance of the rudder tip to the wing tip on that side is the same as measured for first rudder.

8. Glue subfins in place. When viewed from rear the subfins should project away from body at same angle as the rudder on opposite side of body.

FILLETS?

After building and flying several Interceptor E models, neither the fin reinforcing pieces nor fillets are required when using any of the recommended Estes motors (including their 24mm composites). By not using fillets, you can achieve a very sharp and realistic appearing wing/body joint (after all, supersonic aircraft like the F-104, X-15 and others don't have fillets).

However, you will notice that all the skin root edges have excess material that can cover fillets if you assemble and apply fillets before covering the model.

Also, the vinyl material used very significantly strengthens the surface to which it is applied...much like iron on coverings of model airplanes.

2 Apply this skin to body tube second.

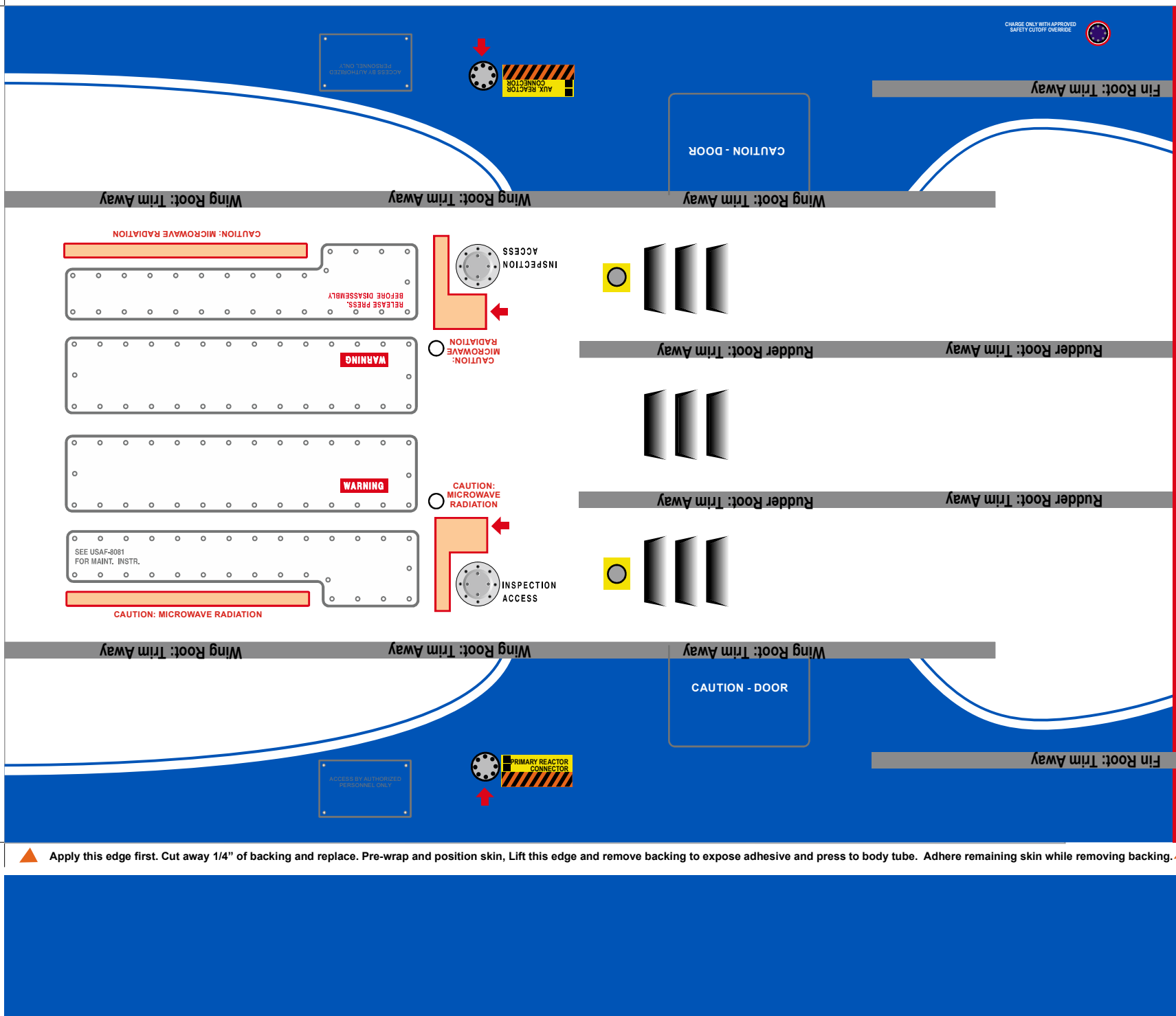
Rear edge.

Rear edge.

Rear edge.

1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

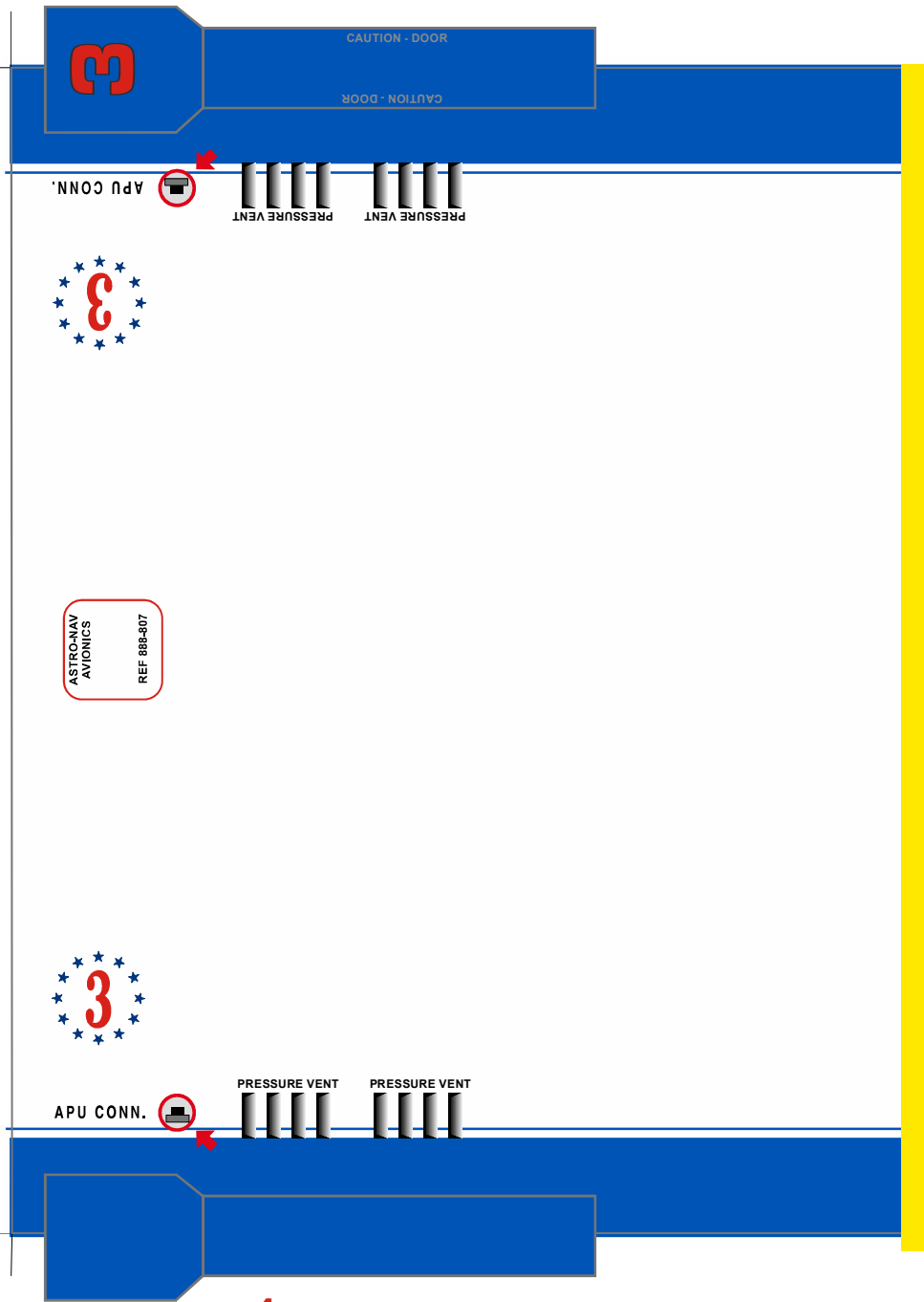
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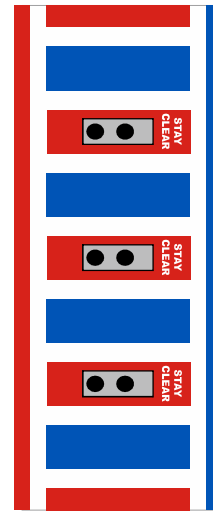
▲ Apply this edge first. Cut away 1/4" of backing and replace. Pre-wrap and position skin, Lift this edge and remove backing to expose adhesive and press to body tube. Adhere remaining skin while removing backing. ▲

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

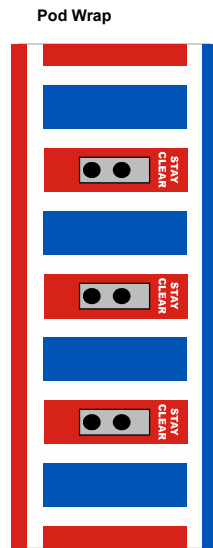
The blue rectangle to the left can be used to "Patch" or add blue accents as you wish, to cover seams, etc.



4 Apply this skin to the body tube first



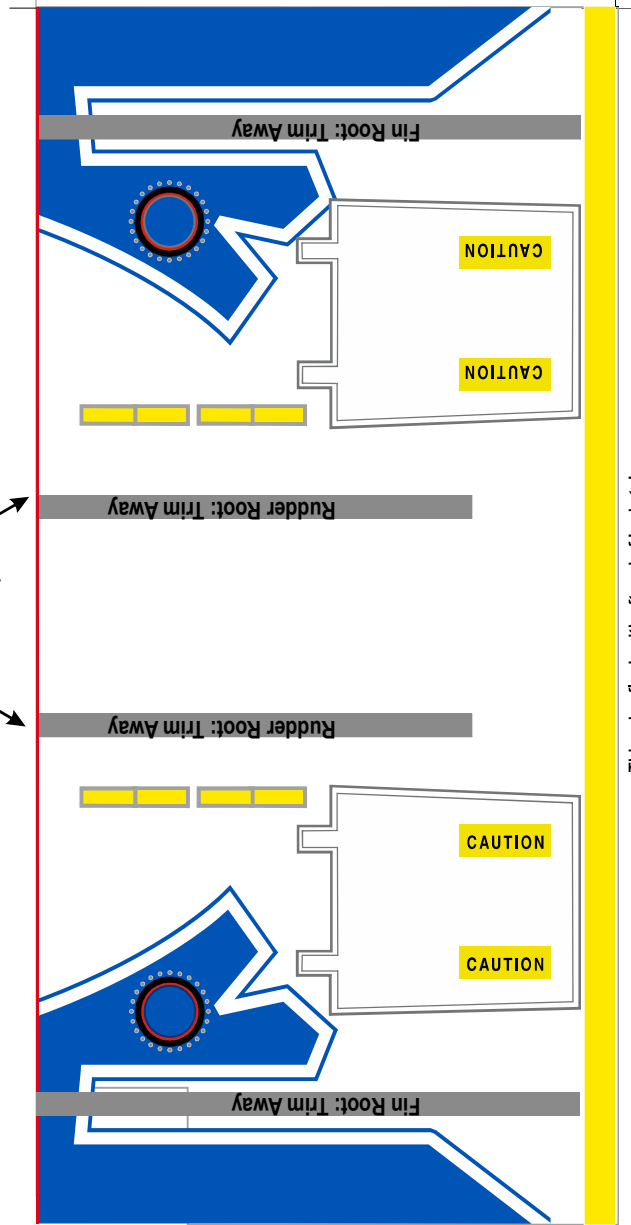
Pod Wrap



Pod Wrap

The wingtip pod wraps should be positioned so "Stay Clear" is nearest the front of the pod. The ends of the wrap are positioned in line with the wing cut out on each pod.

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



Apply this edge to body tube first

1 Apply this skin to the body tube first

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

This edge flush with aft end of body tube

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

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Interceptor-E
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Accur8 Spacemodels
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Sheet **4**

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

Right Subfin Skin

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)

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)

Left Subfin Skin

Bottom left wing skin (apply after applying top wing skin)

COOLANT OVERFLOW TANK

INSPECTION ACCESS

CAUTION

HIGH VOLTAGE USE APPROPRIATE SAFETY PRECAUTIONS WHEN ACCESSING

CAUTION - DOOR

INSPECTION ACCESS

NO STEP

NO STEP

NO STEP

NO STEP

NO STEP

NO STEP

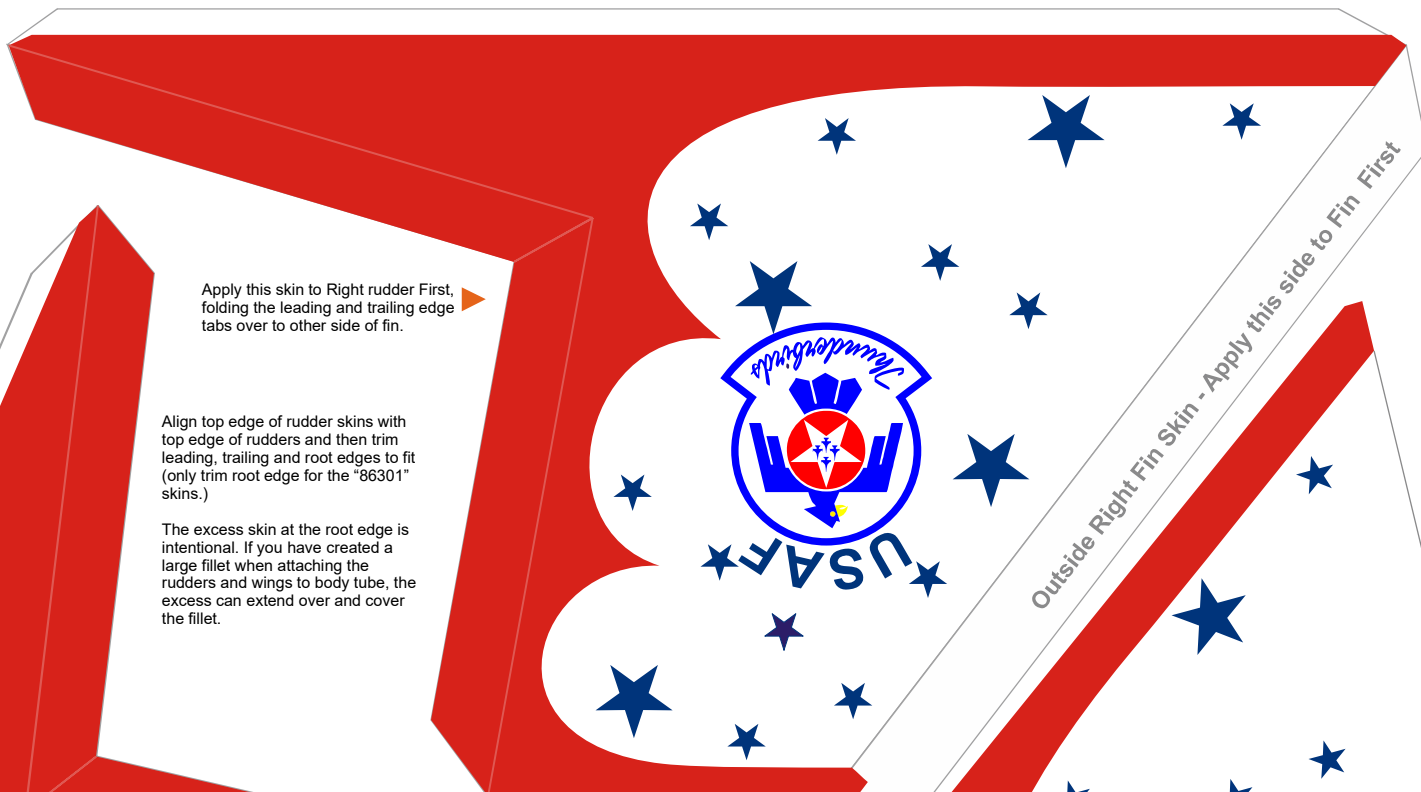
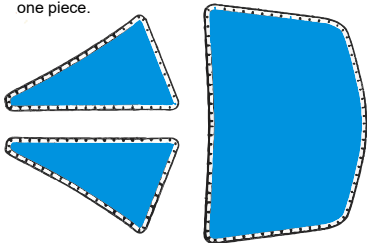
MILITARY GRADE ISOTOPIES ONLY VENT BEFORE OPEN



Top left wing skin (apply first)

THUNDERBIRDS Interceptor-E REV 3-25-16

Trim the cockpit windows just outside of the frames.
The two forward windows can remain attached together as they are properly spaced to be applied as one piece.

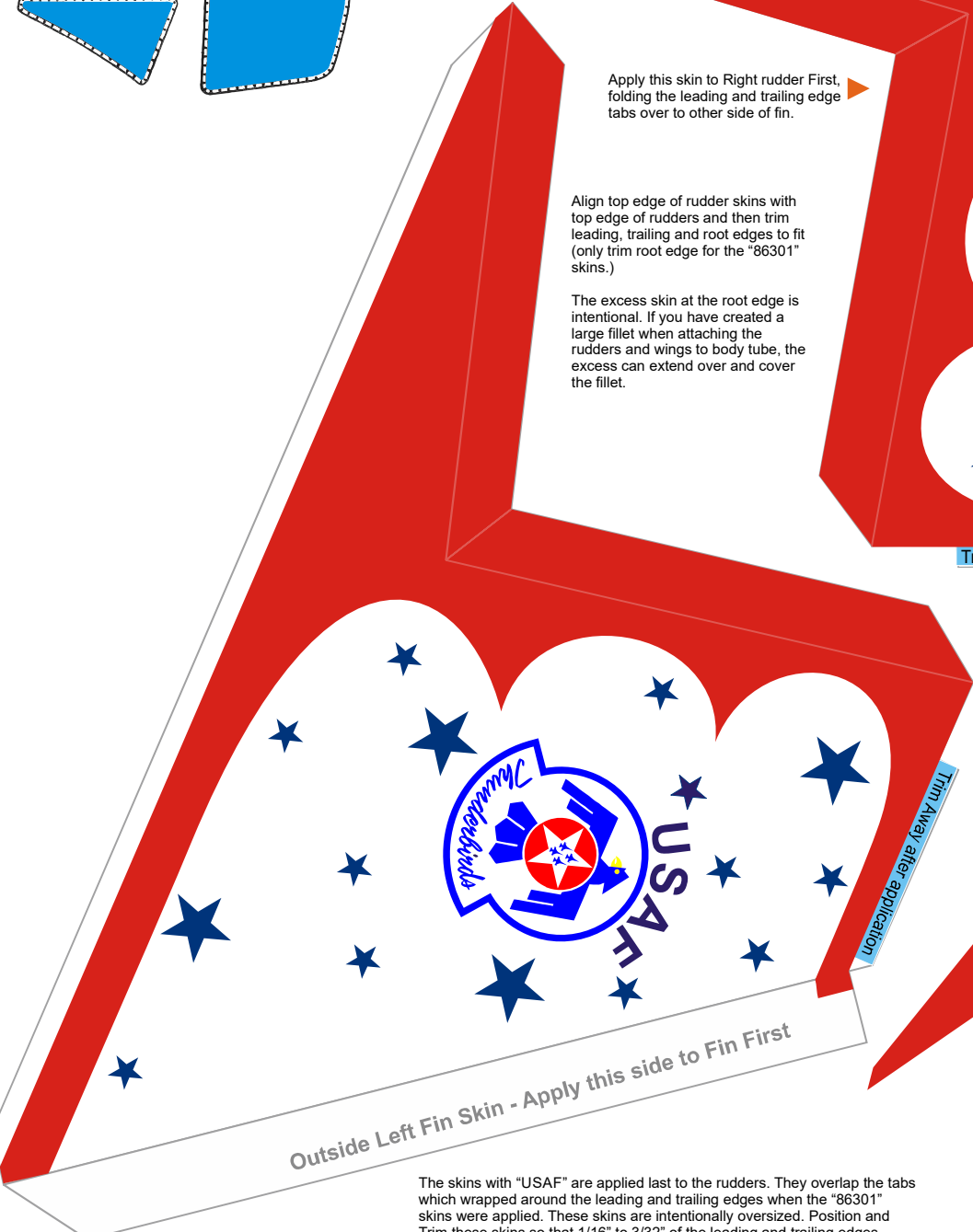


Apply this skin to Right rudder First, folding the leading and trailing edge tabs over to other side of fin.

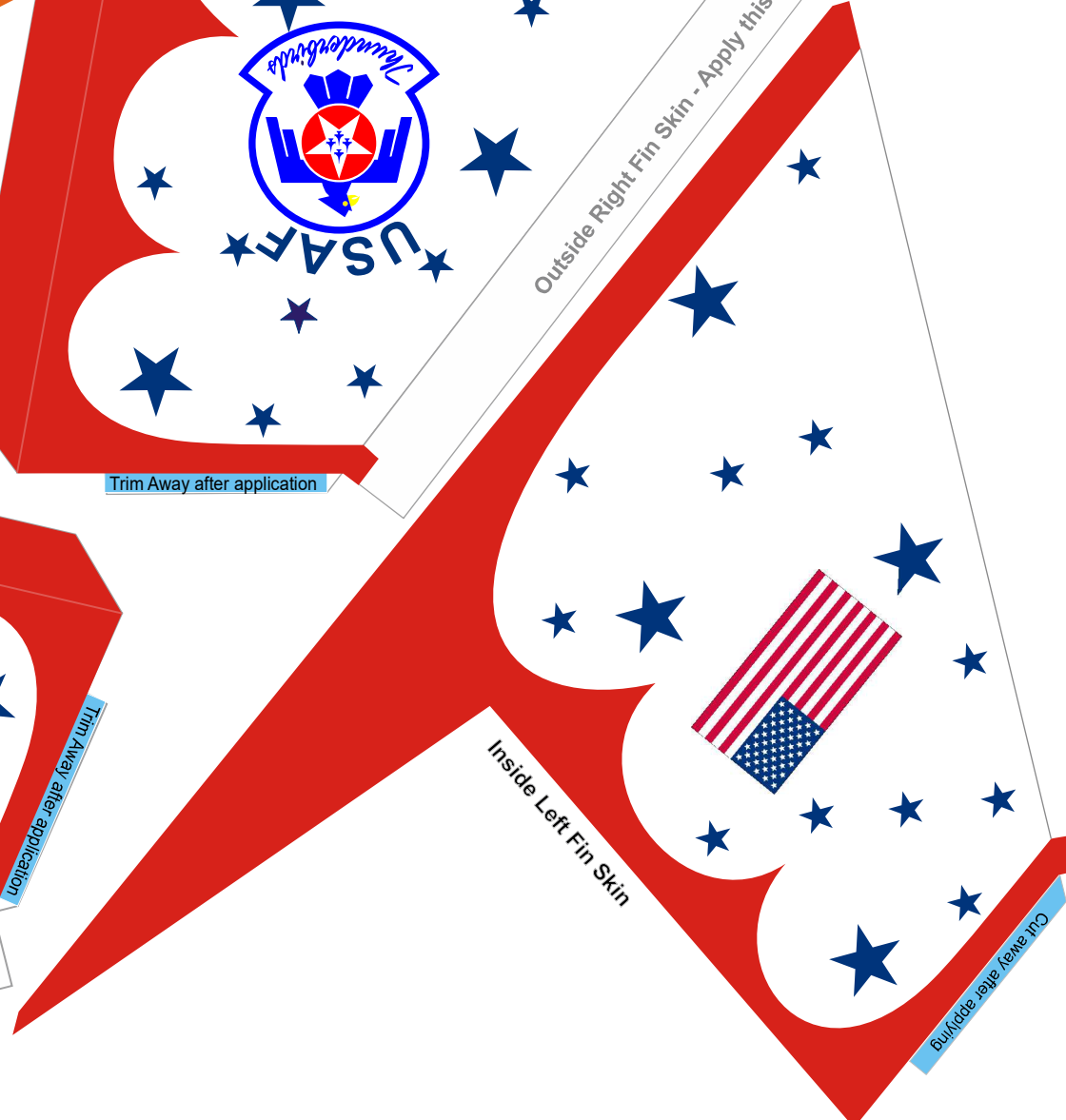
Align top edge of rudder skins with top edge of rudders and then trim leading, trailing and root edges to fit (only trim root edge for the "86301" skins.)

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.

Trim Away after application



Trim Away after application



Cut away after application

The skins with "USAF" 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.

Spray light coat of clear (such as Krylon Crystal Clear) 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

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.

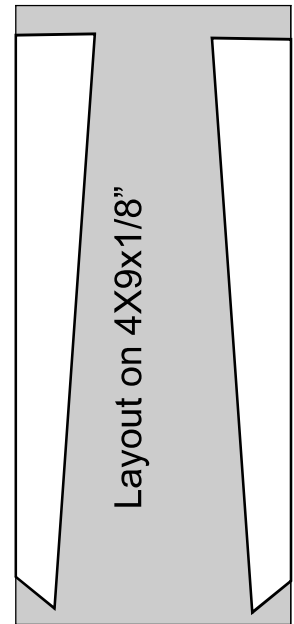
Modify the **Cosmic Interceptor engine mount** radiator fins as shown to the left on the Pattern Sheet by removing the projecting tab. Paint radiator fin section Black or Gunmetal. Save installing engine mount until the model is complete then install so the cooling fins protrude by about 1 to 1.25 inches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

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