

**READ INSTRUCTIONS**  
printed on all skin  
sheets before beginning  
assembly of your model  
and application of the  
skins

Can trim skin to this line if  
after applying, too many  
wrinkles are present on  
rear edge of skin.

This edge aligns with the bottom centerline of  
nosecone. Use molded seam as guide. The  
forward edge of this wrap butts against aft edge  
of fore nosecone wrap.

Forward edge  
Forward edge



INTERCEPTOR-E

INTERCEPTOR-E



Opposite edge of skin overlaps this tab

This edge applies first. Remove 1/4" of backing from this edge and replace. Pre-wrap around nosecone to proper positioning then remove the 1/4" backing and adhere this edge to nosecone. Swing skin out and remove backing as you carefully adhere the skin around the circumference of nosecone. The centerline edges will overlap slightly when complete. The skin will extend slightly beyond step in nose shoulder. Trim even with the step on the shoulder.

MARINES

DEF



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

Red "Linear Charge" line aligns with  
molded-in groove which runs unbroken  
around the nosecone aft of the cockpit

Can trim skin  
to this line if  
after applying,  
too many  
wrinkles are  
present on

Apply thruster (below)  
to the bottom  
centerline of the  
nosecone (over seam)



Cut this area  
away for cockpit  
after applying to  
nosecone

Cut blue area  
away for cockpit  
after applying to  
nosecone

RESCUE

RESCUE



Caution: Linear Charge

Caution: Linear Charge

Caution: Linear Charge

Marines Interceptor-E

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Rev 1-30-17

Sheet 1

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REV 1-30-17

apply forward nosecone  
skin first

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

Cut nose cap wrap along this  
line. Apply wrap so that seam  
is on bottom of nosecone and  
the grey glare panel is on the  
centerline of the cockpit  
canopy.

Opposite edge of skin overlaps this tab

Top centerline of nose

Opposite edge of skin overlaps this tab

Remove 1/2" of backing from this edge and replace. Position and wrap skin around nosecone aligning this edge along top nosecone centerline. Use molded seam as guide. Make sure the red "Linear Charge" line aligns with the groove which runs around nosecone. Once positioned, hold the wrap tightly with one hand and lift this edge and remove the 1/2" backing. Carefully press the exposed adhesive to the remaining skin out and begin removing backing as you carefully wrap and adhere the rest of the skin to the nosecone. The ends of the "Linear Charge" line should exactly align and there should be a slight overlap of the skin edges along the top centerline.

**3** Apply this skin to body tube third.

Place straight edge cutting guide **INSIDE** the corner marks. Only cut to the corner marks

WARNING

WARNING

WARNING

WARNING

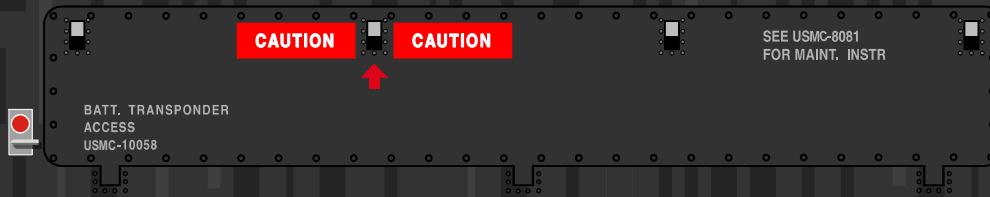
WARNING

WARNING



MARINES

MARINES



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

DO NOT PLUG  
RESERVOIR VENT

CAUTION

CAUTION

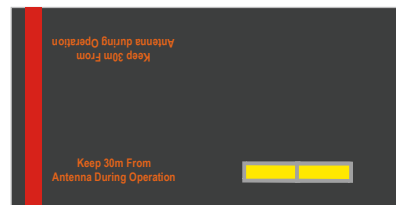
RESERVOIR VENT  
DO NOT PLUG

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 ▲

**Wing Pods**

If you are scratch building or creating an Interceptor by "bashing" a Cosmic Interceptor, you can scratch build "near-scale" Interceptor Wing pods by obtaining one or two Estes #3161 NC-20 Nose Cone Packs. Though the contents of such packs sometimes vary, they will almost always contain two of the long "ogive" nosecones and two of the short "parabolic" nosecones for the front and rear nosecones of each pod.

To create the pods, glue one each of the long and short nosecones to each end of a 3" section of BT-20 Body tube. The fins for the pods may be made from scrap card stock from which the laser cut parts of the Cosmic Interceptor are produced or from other thin wood or plastic using the enclosed templates. Alternatively, a "cleaner" look for the pods may be obtained by simply omitting the pod fins.



Left Rudder Fin Antenna 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.

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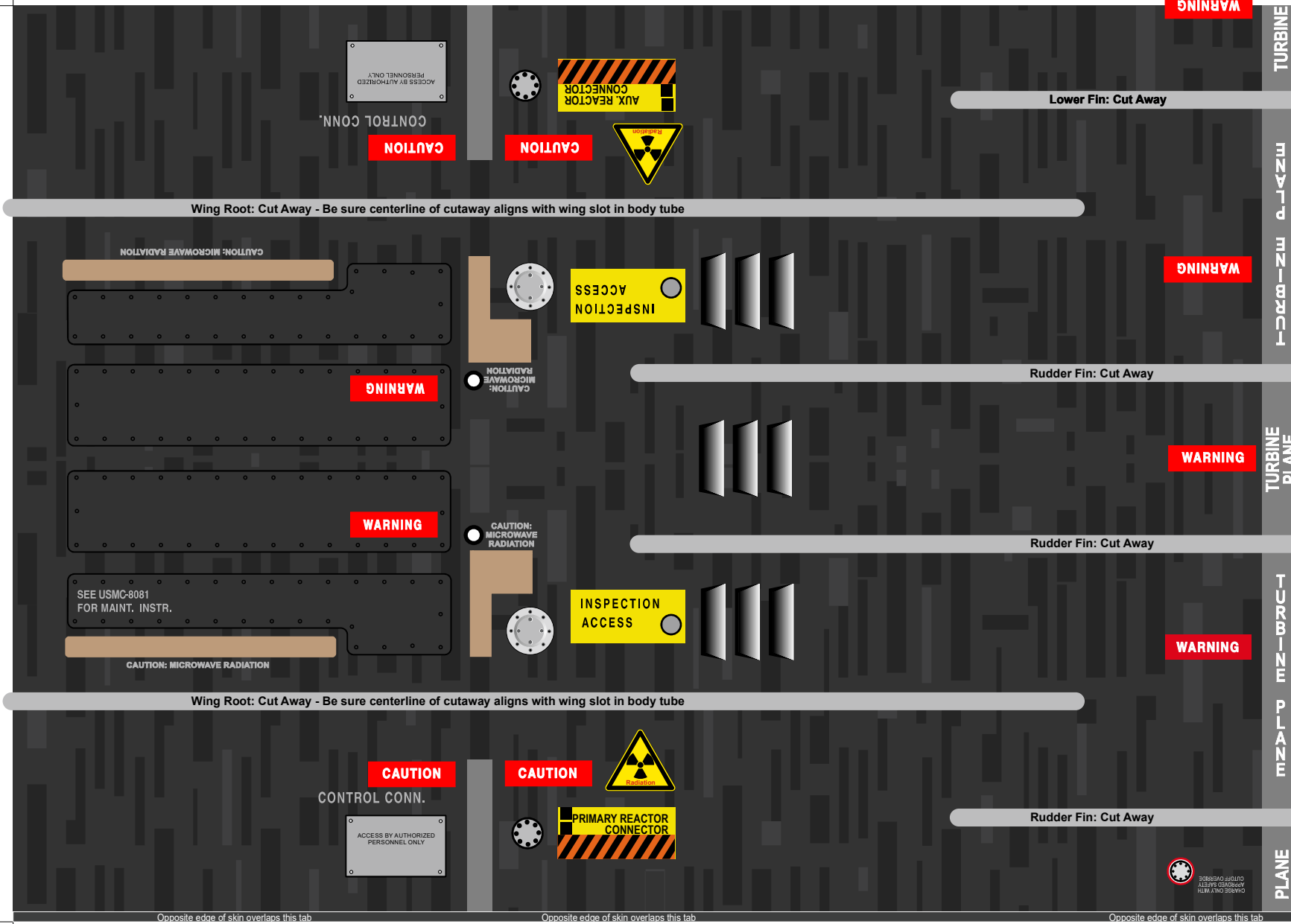
**Marines Interceptor-E**

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**2** Apply this skin to body tube second.

Carefully cut around "Warning" label edges



**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.
7. 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.

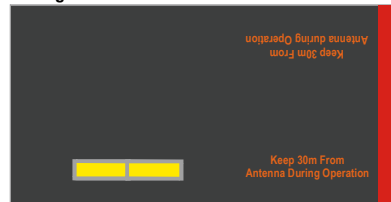
Also, the vinyl material used very significantly strengthens the surface to which it is applied...much like iron on coverings of model airplanes.

▲ 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. ▲

**Rudder Antennas**

If you are scratch building or creating an Interceptor by "bashing" a Cosmic Interceptor, you can scratch build "near-scale" Interceptor rudder-tip antennas using approximately 4" long (you can vary the length as you like...try two different lengths for an "asymmetric" look if you like) pieces of 3/16" wood dowel sanded to a point on one end. Glue non-pointed end flush with the trailing edge of the rudder and sand the rear edge of the dowel antenna to match the angle of the rudder trailing edge.

**Right Rudder Fin Antenna 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.

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

Forward edge of body tube

Cut on grey line outside of landing gear door. This overlaps door on opposite edge for 3D effect



Opposite edge of skin overlaps this tab

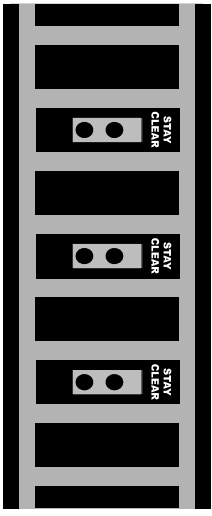
Cut around landing gear door

Apply this edge to body tube first

**4** Apply this skin to the body tube first

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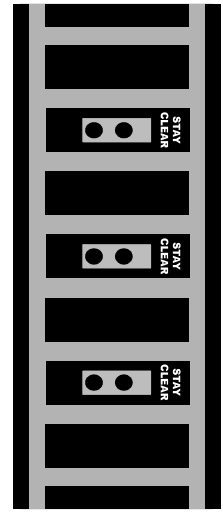
Spray light coat of clear (such as Blair 500 Digi-Finish) to sheet before using



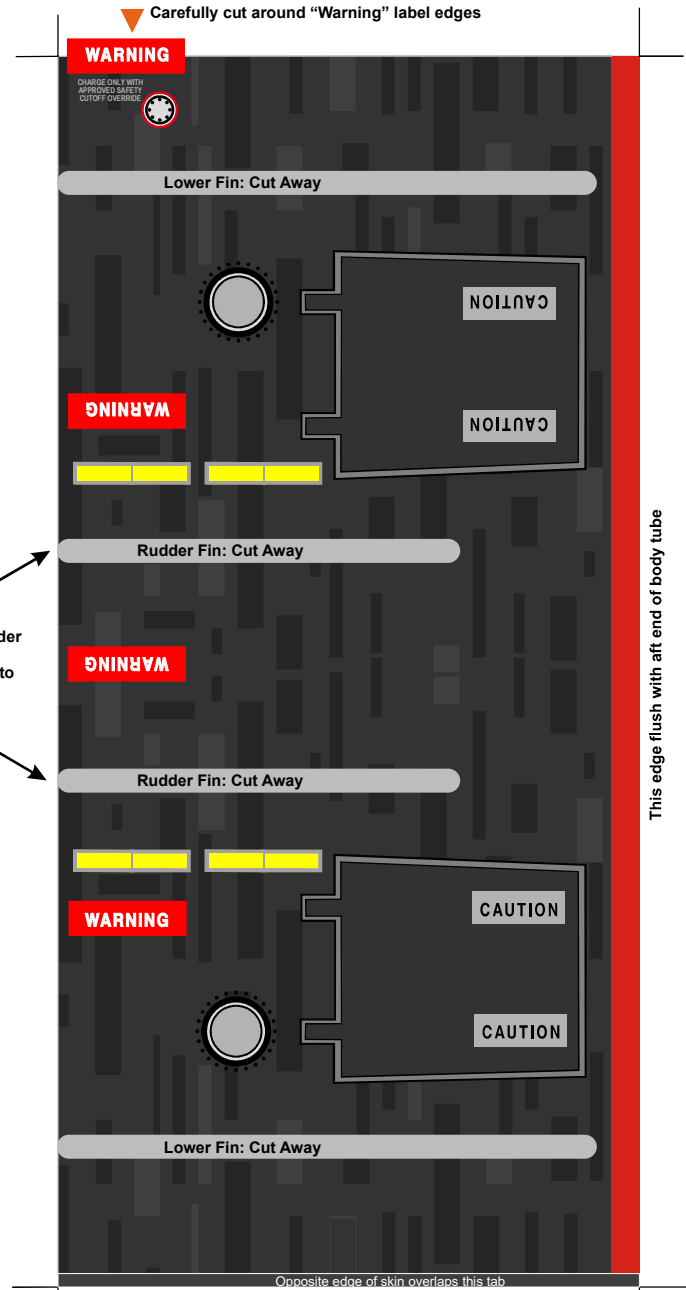
The wingtip pod wraps should be positioned so "Stay Clear" is nearest the front of the pod. The ends of the wrap are positioned in line with the wing cut out on each pod.

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

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



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



Carefully cut around "Warning" label edges

**WARNING**

CHARGE ONLY WITH APPROVED SAFETY CUTOFF OVERBORDS

Lower Fin: Cut Away

**WARNING**

Rudder Fin: Cut Away

**WARNING**

Rudder Fin: Cut Away

**WARNING**

Lower Fin: Cut Away

Opposite edge of skin overlaps this tab

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

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Sheet 4

Rev 1-30-17

# Marines Interceptor-E

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Right wing chine skin

PRESSURE  
**CAUTION**  
 VENT

PRESSURE  
**CAUTION**  
 VENT

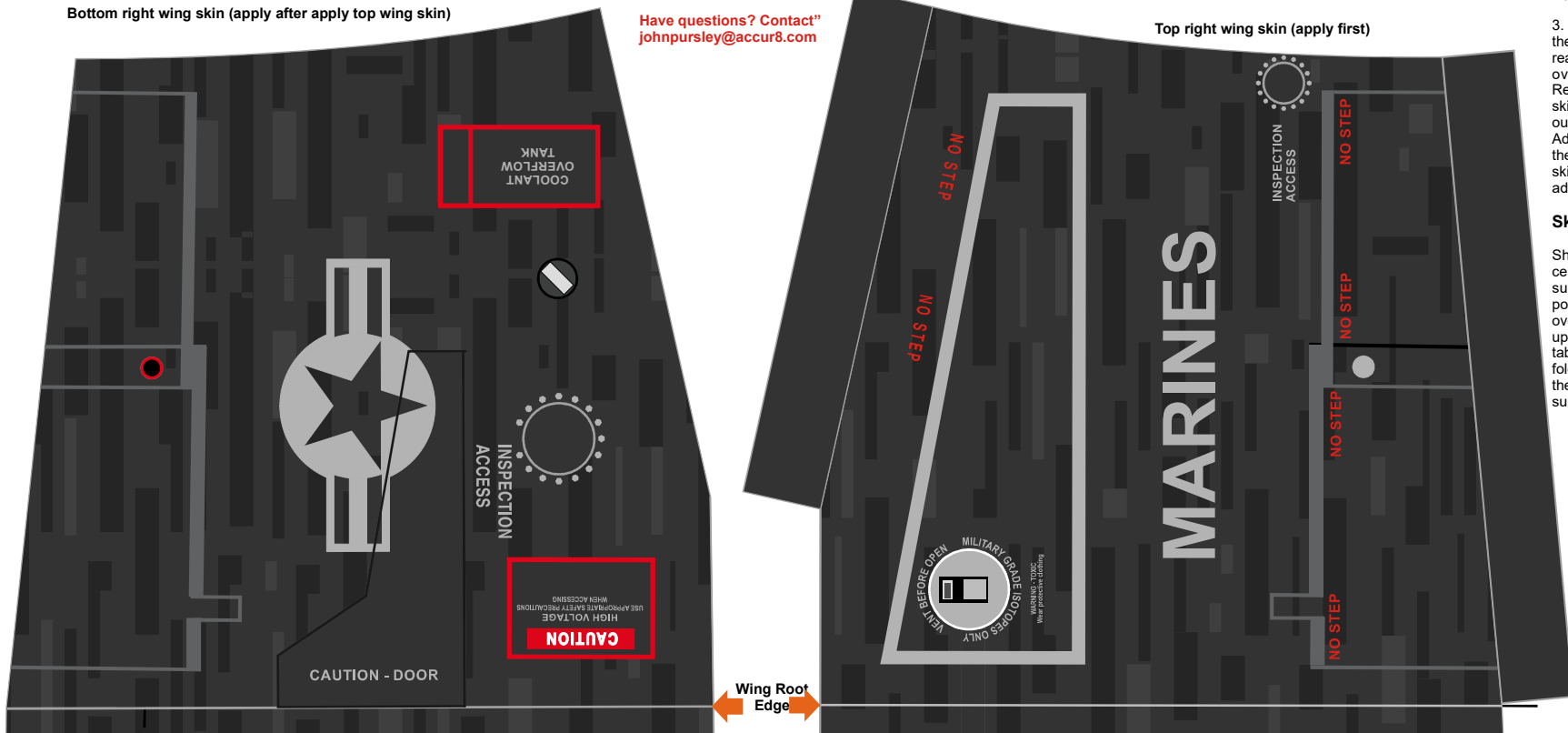
Left wing chine skin

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

Bottom right wing skin (apply after apply top wing skin)

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Top right wing skin (apply first)



## 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.

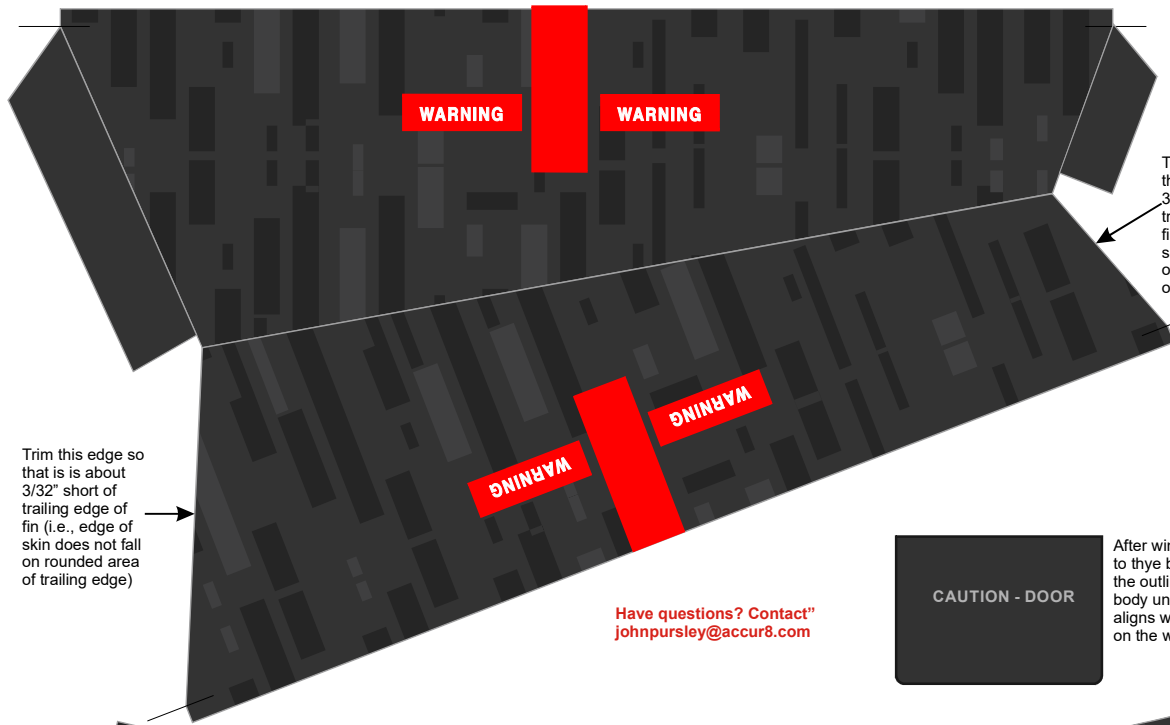
3. Fold the wing chine skins sharply along the centerline and pre-fit to chine. Trim the rear edge of the chines to butt or slightly overlap corresponding edge on wing. Remove backing and carefully position the skin so the fold runs down the center of the outside leading edge of the wing chine. Adhere 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.

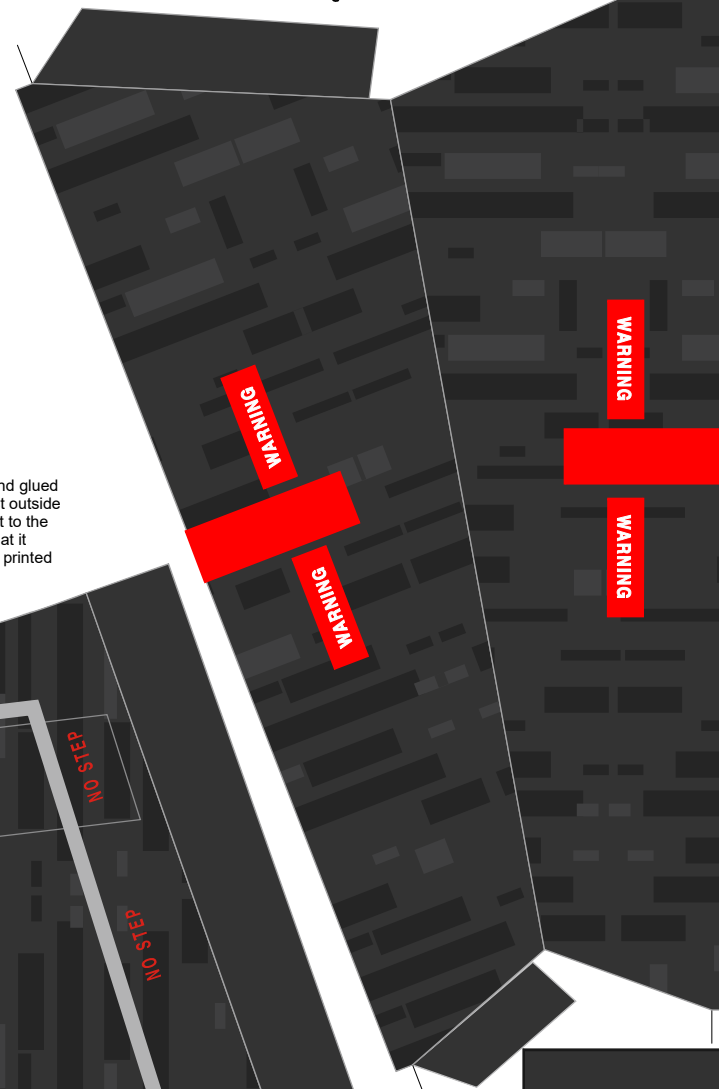
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Left Lower Fin



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

Right Lower Fin



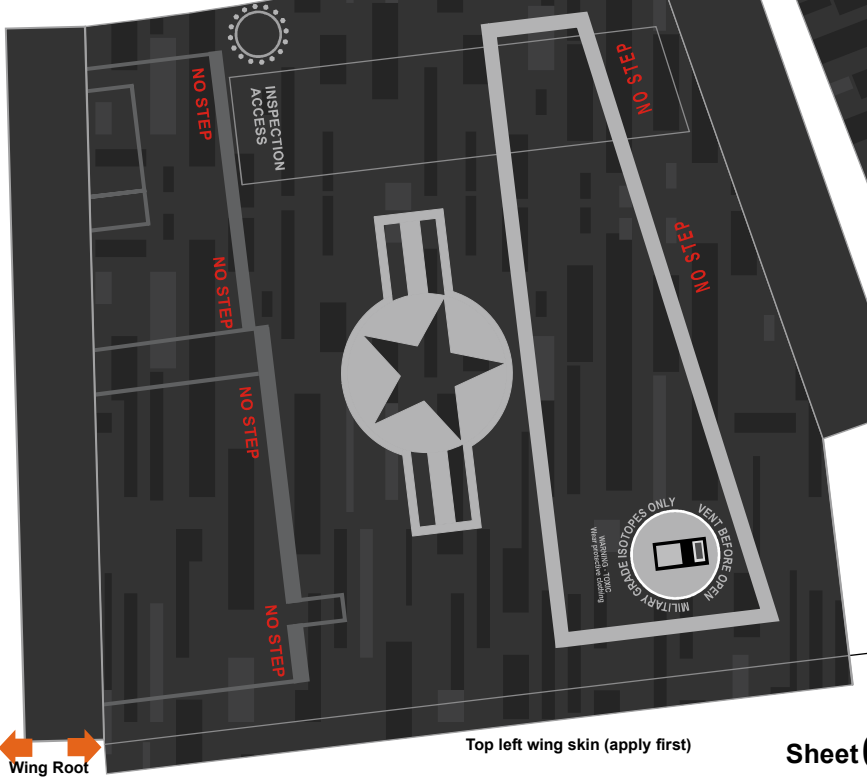
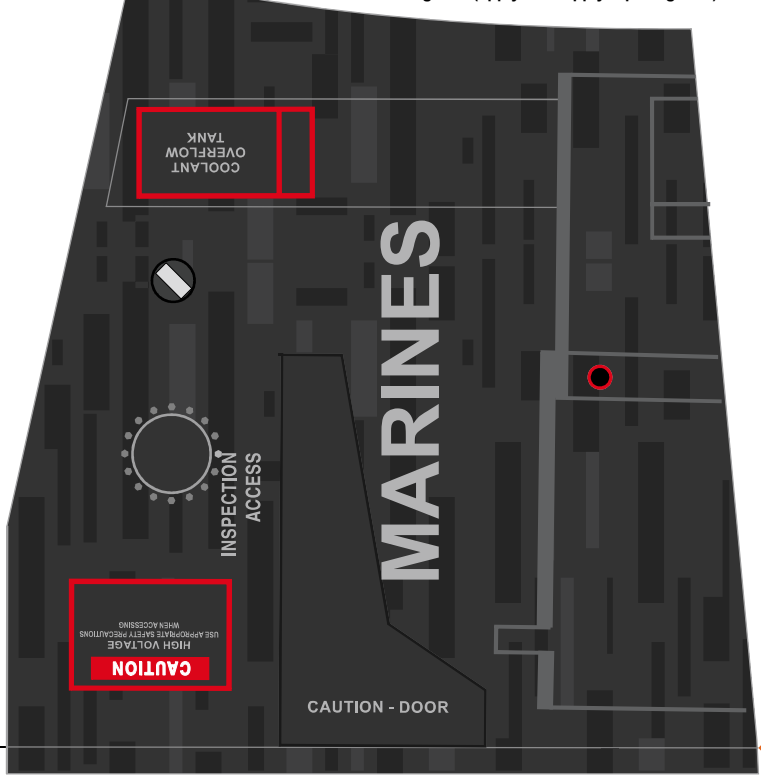
Trim this edge so that is about 3/32" short of trailing edge of fin (i.e., edge of skin does not fall on rounded area of trailing edge)

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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

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



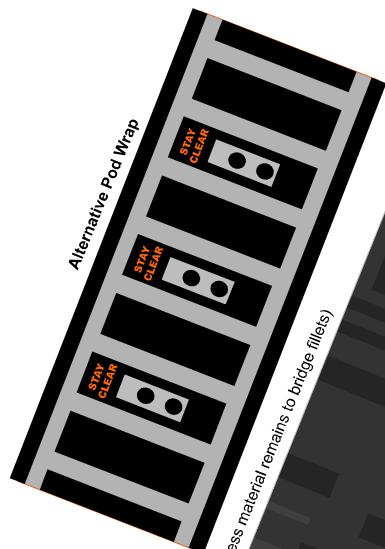
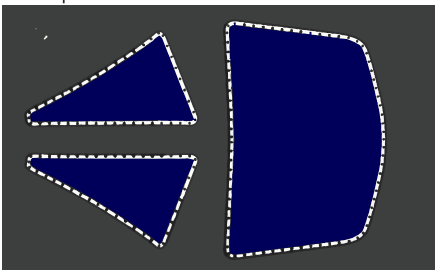
Wing Root Edge

Top left wing skin (apply first)

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

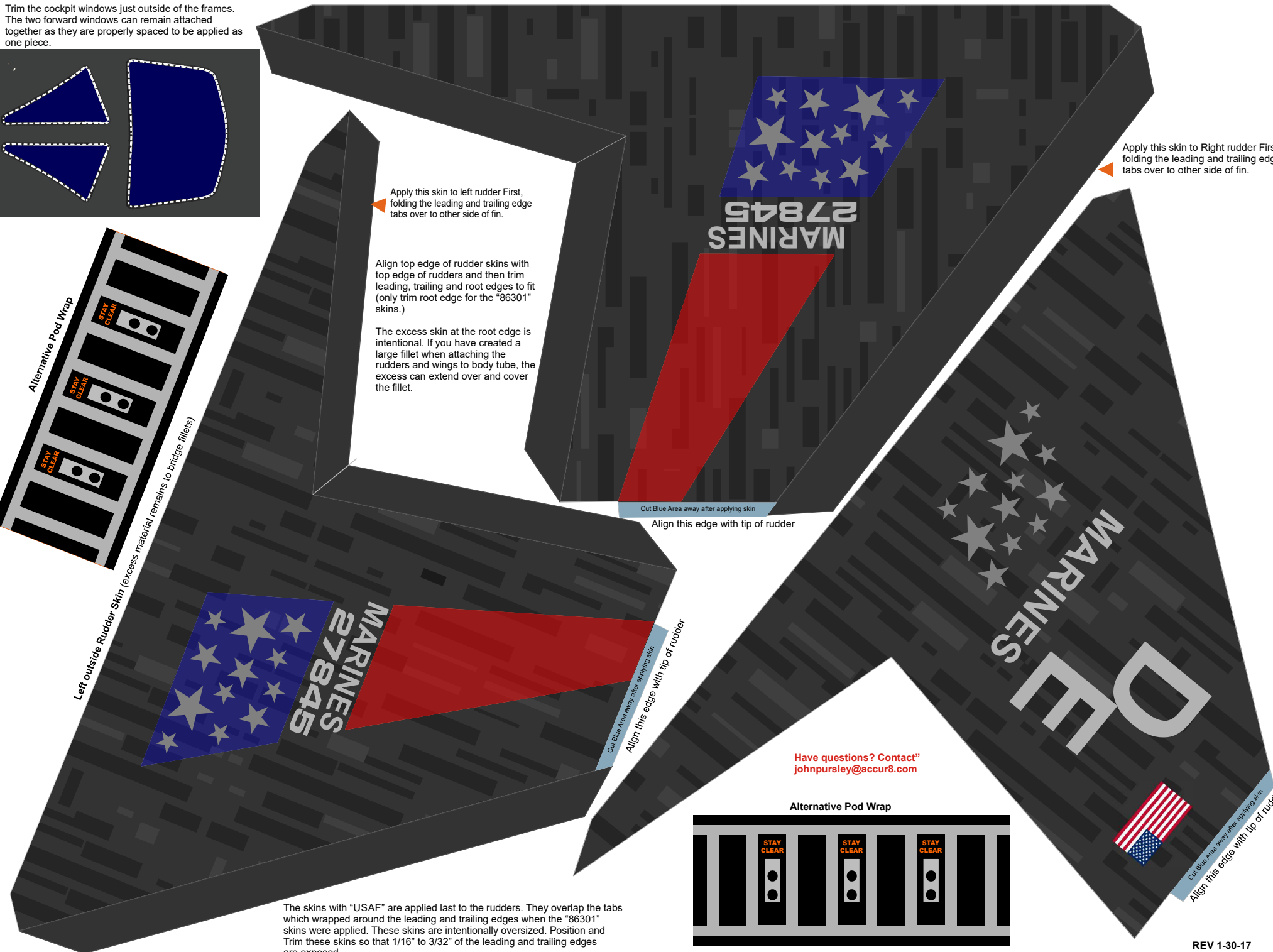


Trim the cockpit windows just outside of the frames. The two forward windows can remain attached together as they are properly spaced to be applied as one piece.



Alternative Pod Wrap

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



Apply this skin to left 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.

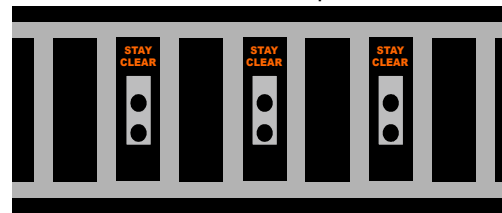
Apply this skin to Right rudder First, folding the leading and trailing edge tabs over to other side of fin.

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

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Alternative Pod Wrap



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 Blair 500 Digi-Finish) to sheet before using

REV 1-30-17

← 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 →

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## Pattern Sheet

Layout on 4X24x1/8"

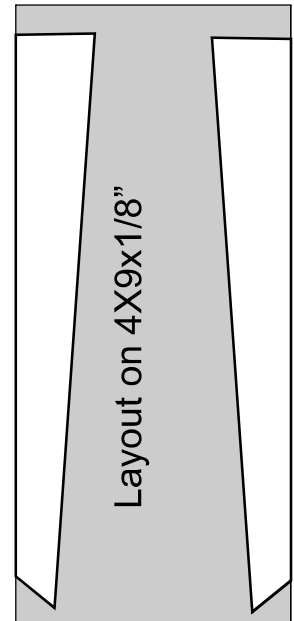
**Make the wing pods** using a 3" section of BT-20 body tube and 1 long ogive plastic nosecone and one short parabolic nosecone from the Estes #3162 Nosecone pack. Unfortunately, though the #3162 Nosecone Pack almost always comes with two long ogive nosecones it doesn't always come with two of the short 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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