

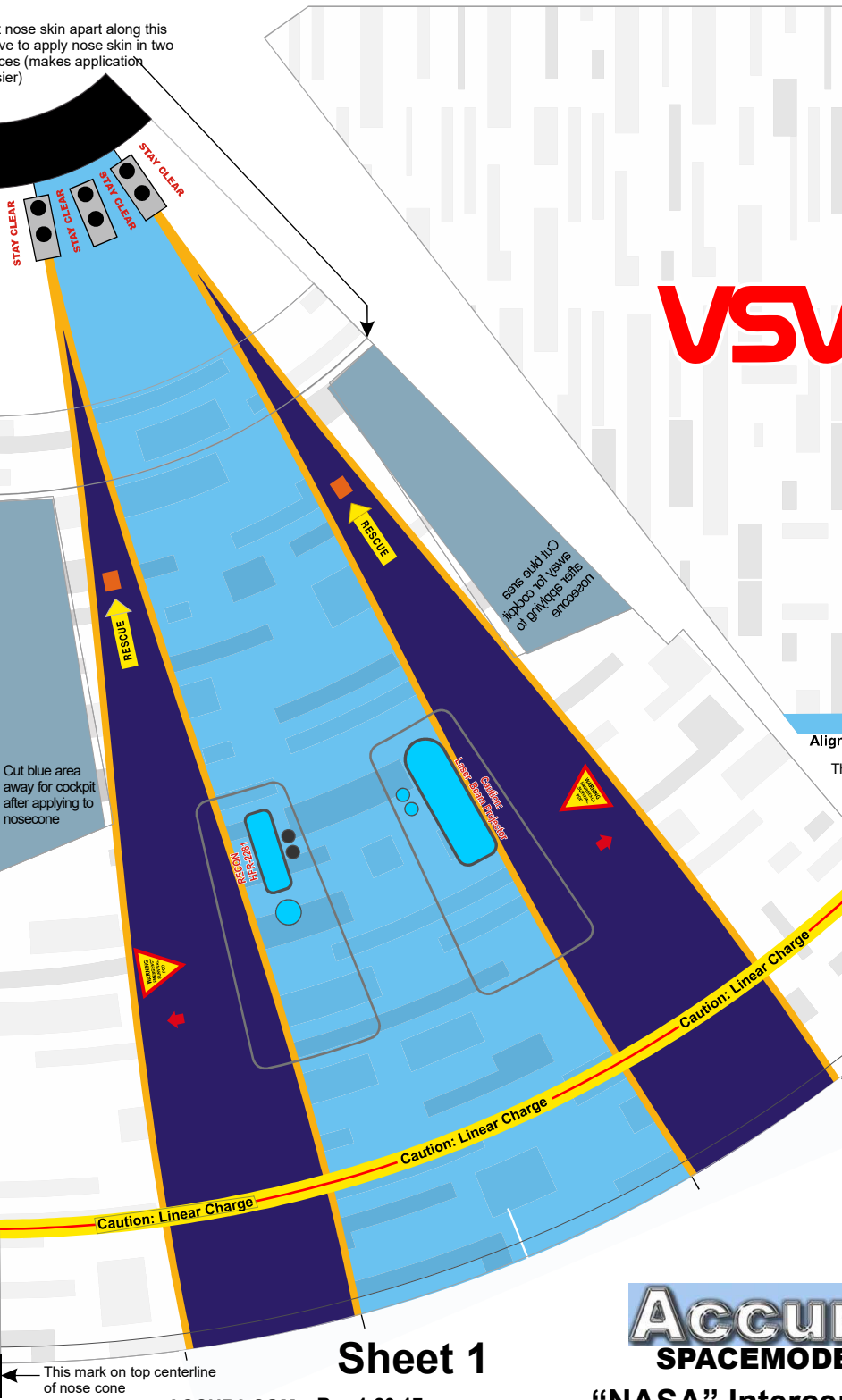
This edge applies to nosecone first. Cut skin from sheet. Peel back about 1" or the skin from the backing along this edge and cut a 1/2" strip of backing from this edge. Replace backing and press skin back down over backing to retain 1/2" strip. Dry fit skin (with backing in place) beginning by aligning this edge with the top molded seam of the nosecone and also aligning the "Linear Charge" centerline with corresponding groove that runs around the nosecone. When satisfied with positioning and while holding tightly in place with one hand, carefully remove 1/2" backing and press exposes skin material adhesive to nosecone. Remove remainder of backing and adhere rest of skin in place.

Cut nose skin apart along this curve to apply nose skin in two pieces (makes application easier)

Remove 1/4" backing from this edge after cutting out skin

This mark on top centerline of nose cone

Opposite edge of skin overlaps this tab



VSVN

Align this edge with tip of rudder

The red centerline of the "Linear Charge" band lines up over the groove in the nosecone just behind the raised portion of the cockpit and about 3/4" forward of the transition from cylinder to cone. This alignment assures the correct fore and aft positioning of the conical forward cockpit skin.

If after applying skin you encounter unacceptable or difficult to remove wrinkling along this edge, cut along this line and remove wrinkled strip. The appearance of the model will not be severely impacted by exposing the painted surface of the nosecone..

Sheet 1

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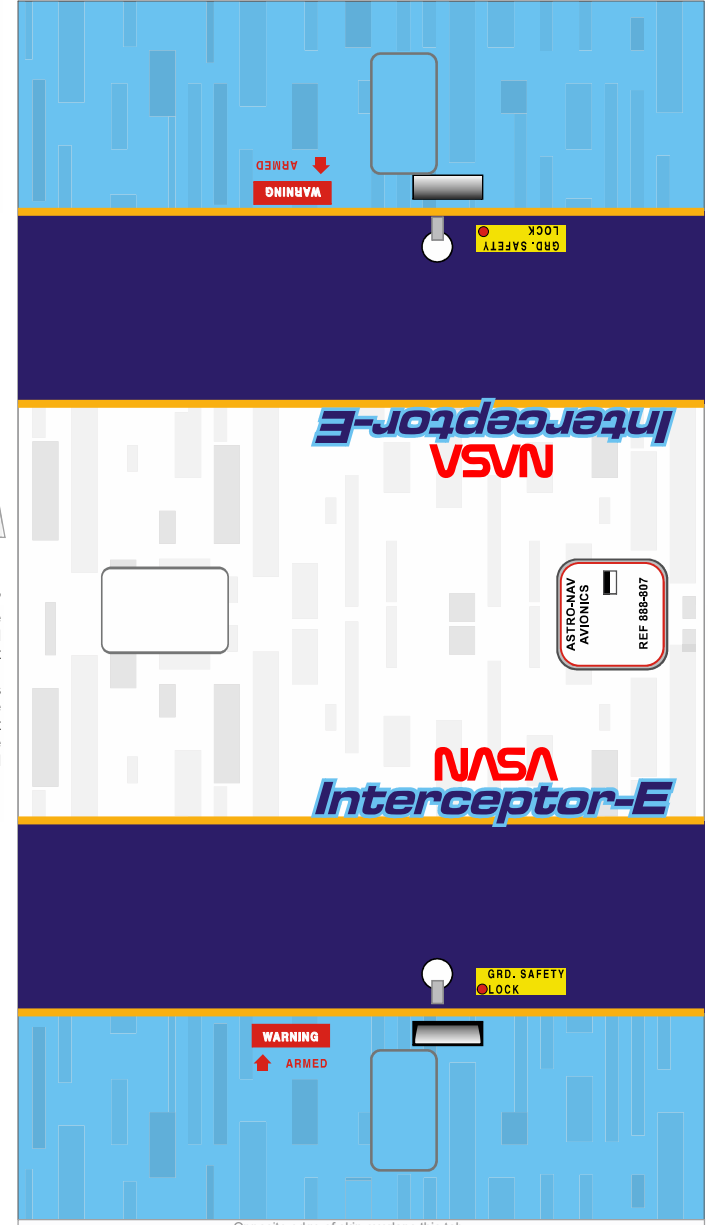
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"NASA" Interceptor-E

inside Right Rudder Skin

Paint model subassemblies with a glossy White before applying skin. This will provide a good surface for the skin to adhere to and camouflage small gaps you may have after covering.

This edge of aft cockpit skin is positioned exactly opposite the seam of the fore cockpit skin. There is a thin white line printed on the forward skin that will align with this edge.



Align this edge with tip of rudder

WARNING
ARMED

GRD. SAFETY
LOCK

ASTRO-NAV
AVIONICS
REF 888-807

**NASA
Interceptor-E**

Opposite edge of skin overlaps this tab

Cut away approx 1/4" of the backing from this edge and replace. Tightly wrap around nosecone so that the forward edge of this wrap butts against the aft edge of the forward nosecone wrap. Once in position, lift this edge and remove 1/4" backing. Press the exposed adhesive to the Bottom centerline of the nosecone. Follow the instructions to complete the wrapping process for the aft nosecone.

Before starting, make copies of all sheets as instruction reference

Apply this body tube wrap last

Cut around landing gear door

WARNING

WARNING

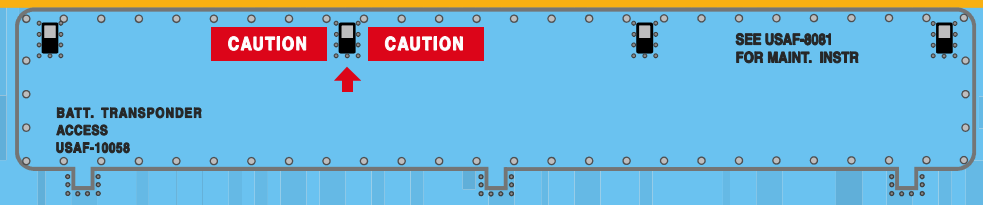
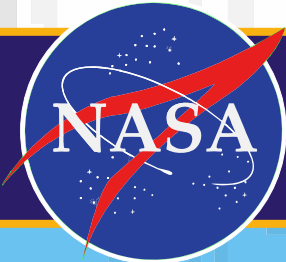
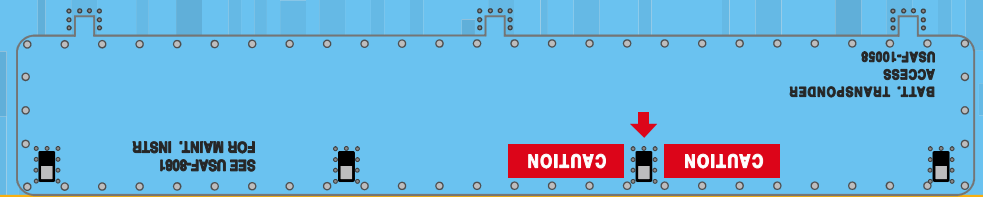
WARNING

WARNING

WARNING

WARNING

Forward edge of body tube



Opposite skin edge overlaps tis tab

Opposite skin edge overlaps tis tab

▲ Apply this edge to body tube first ▲

For All Body Wrap Sections: After you cut each body wrap and its backing from its sheet, place it face up on a clean flat surface and peel about 1" of the skin back along the length of this edge. Cut away approximately 1/4" of the backing from this edge and replace...seal the skin back over backing to hold the 1/4" strip in place. Pre-fit and dry-wrap (don't remove backing) around body tube so that the aft edge of the first wrap is either flush with the aft end of the body tube and each succeeding wrap butts perfectly against the previous body wrap, depending on which skin wrap you are working with. Once you have aligned the wrap and while still holding tightly in place with one hand, lift this edge and remove the 1/4" backing strip. Press the exposed adhesive to the bottom centerline of the tube, starting by pressing down from the middle of the wrap edge to the rear and then midway of the wrap edge to the front. "Swing" the wrap away from the body and partially remove the backing so that you can smoothly adhere the remainder of the wrap to the body. Work smoothly and slowly, avoiding wrinkles or air pockets.

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

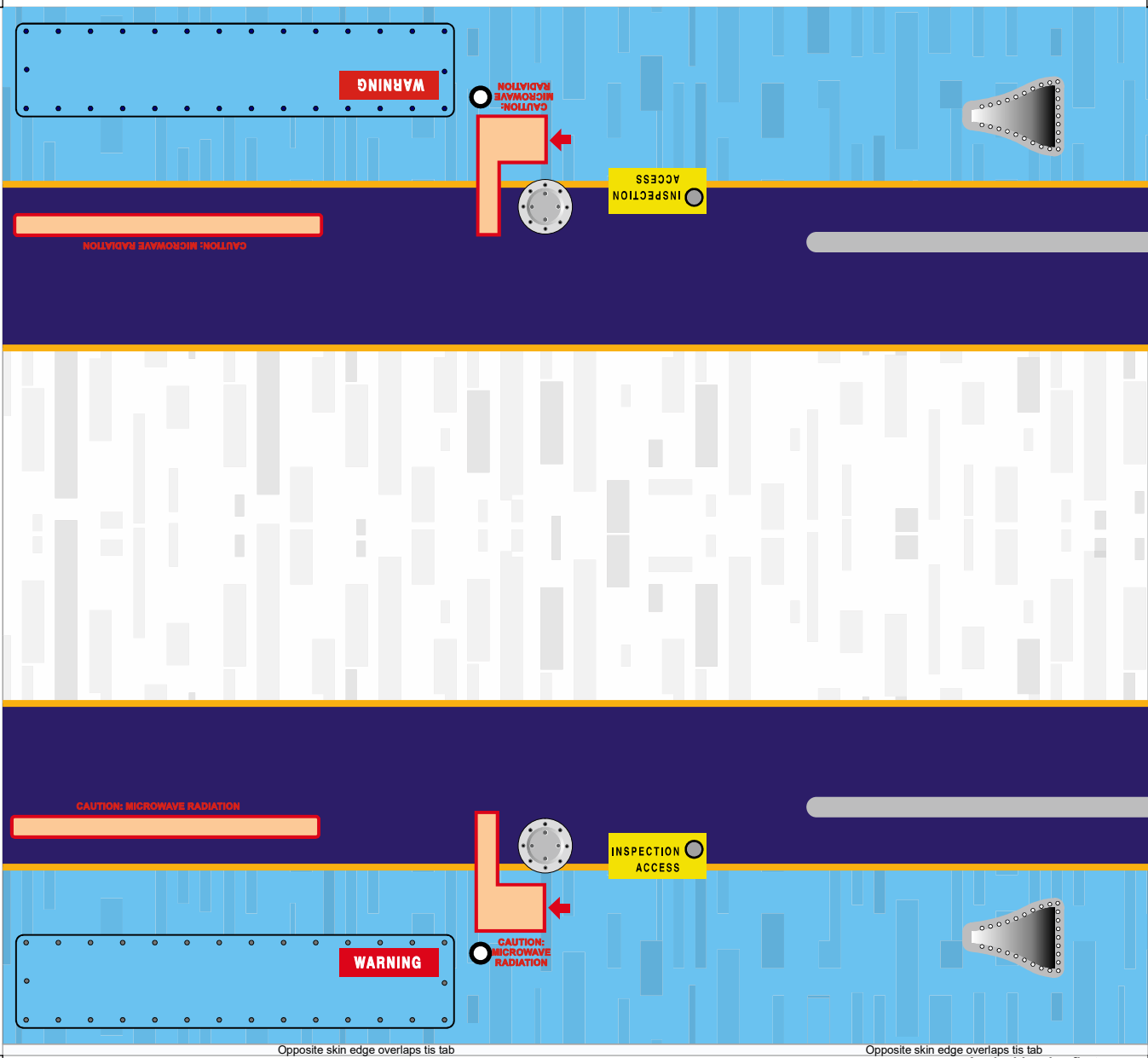
"NASA" Interceptor-E

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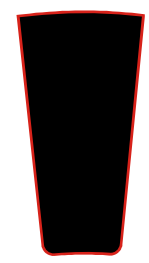
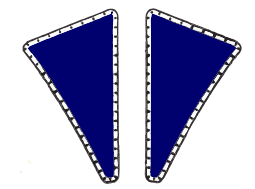
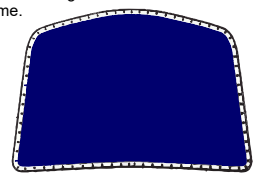
If the nosecone skin seam around the nosecone has a slight mismatch, it can be "camouflaged" by wrapping this "gold" band around the seam



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Use these optional cockpit coverings for an enhanced appearance with a more pleasant blue color and "riveted" frame around the windows. Cut around each window just along the outer edge of the line around the window frame.

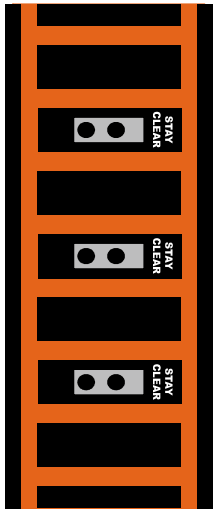
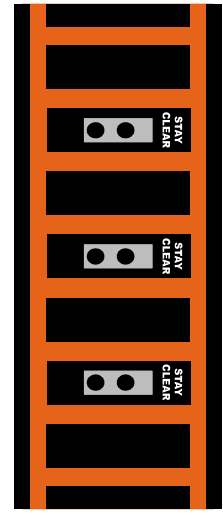


Apply glare shield over top centerline skin seam ahead of canopy

Apply thruster (right) to the top centerline of the nosecone (over skin seam)



Apply to top of cockpit seam behind canopy



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.



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"Clutter Markings" Apply over blemishes or mismatched lines or seams to "camouflage" such imperfections

Sheet 3

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ACCESS BY AUTHORIZED PERSONNEL ONLY

CONTROL CONN.

CAUTION

CAUTION



AUX REACTOR CONNECTOR



WARNING

CHANGE ONLY WITH APPROVED SAFETY CUTOFF OVERRIDE

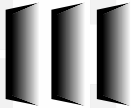
Lower Fin: Cut Away

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

N1350X



Rudder Fin: Cut Away



Rudder Fin: Cut Away



N1350X

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

CAUTION

CAUTION



PRIMARY REACTOR CONNECTOR



CONTROL CONN.

ACCESS BY AUTHORIZED PERSONNEL ONLY

Lower Fin: Cut Away

Opposite skin edge overlaps tis tab

Opposite skin edge overlaps tis tab

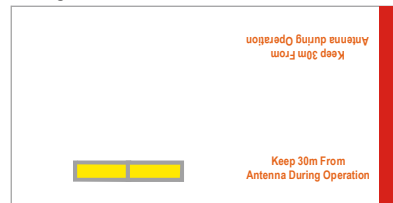
This edge is flush with rear of body tube

Apply this body tube wrap first
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"NASA"
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▲ Apply this edge to body tube first ▲

For All Body Wrap Sections: After you cut each body wrap and its backing from its sheet, place it face up on a clean flat surface and peel about 1" of the skin back along the length of this edge. Cut away approximately 1/4" of the backing from this edge and replace...seal the skin back over backing to hold the 1/4" strip in place. Pre-fit and dry-wrap (don't remove backing) around body tube so that the aft edge of this wrap is either flush with the aft end of the body tube or butts perfectly against the previous body wrap, depending on which skin wrap you are working with. Once you have aligned the wrap and while still holding tightly in place with one hand, lift this edge and remove the 1/4" backing strip. Press the exposed adhesive to the bottom centerline of the tube, starting by pressing down from the middle of the wrap edge to the rear and then midway of the wrap edge to the front. "Swing" the wrap away from the body and partially remove the backing so that you can smoothly adhere the remainder of the wrap to the body. Work smoothly and slowly, avoiding wrinkles or air pockets.

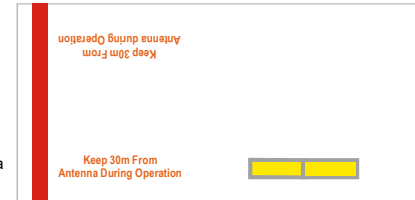
Right Rudder Fin Antenna Skin



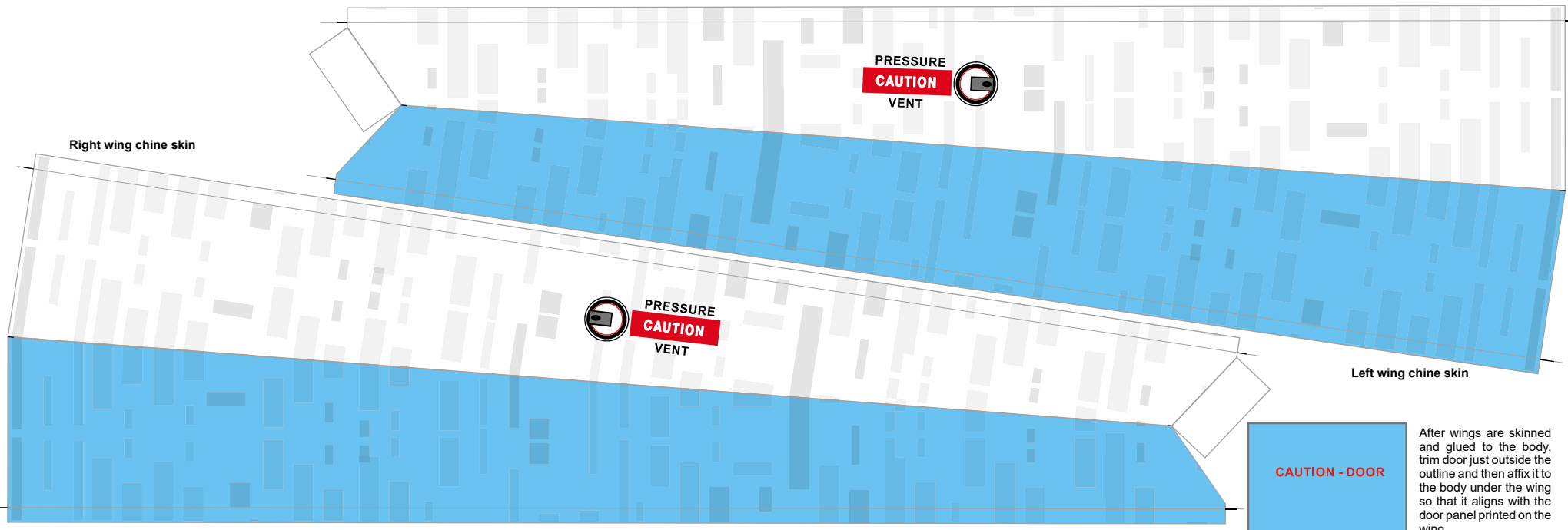
Red band end of Antenna Skin aligns with forward edge of the aft portion of the Antenna. Trim overhanging skin from the rear of the antenna flush with the rear surface.

Yellow marker to rear of antenna faces outward.

Left Rudder Fin Antenna Skin



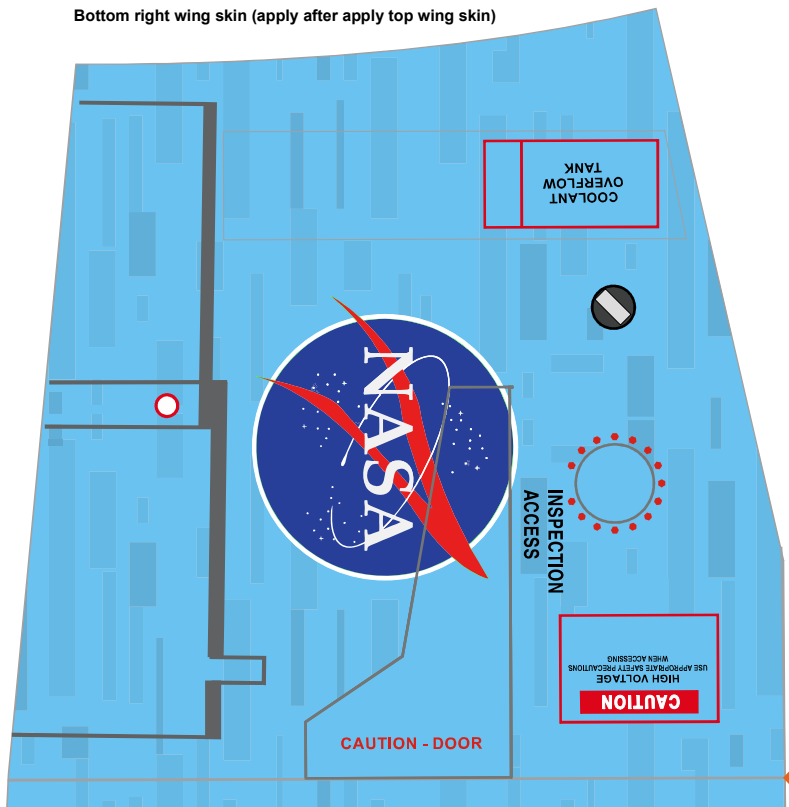
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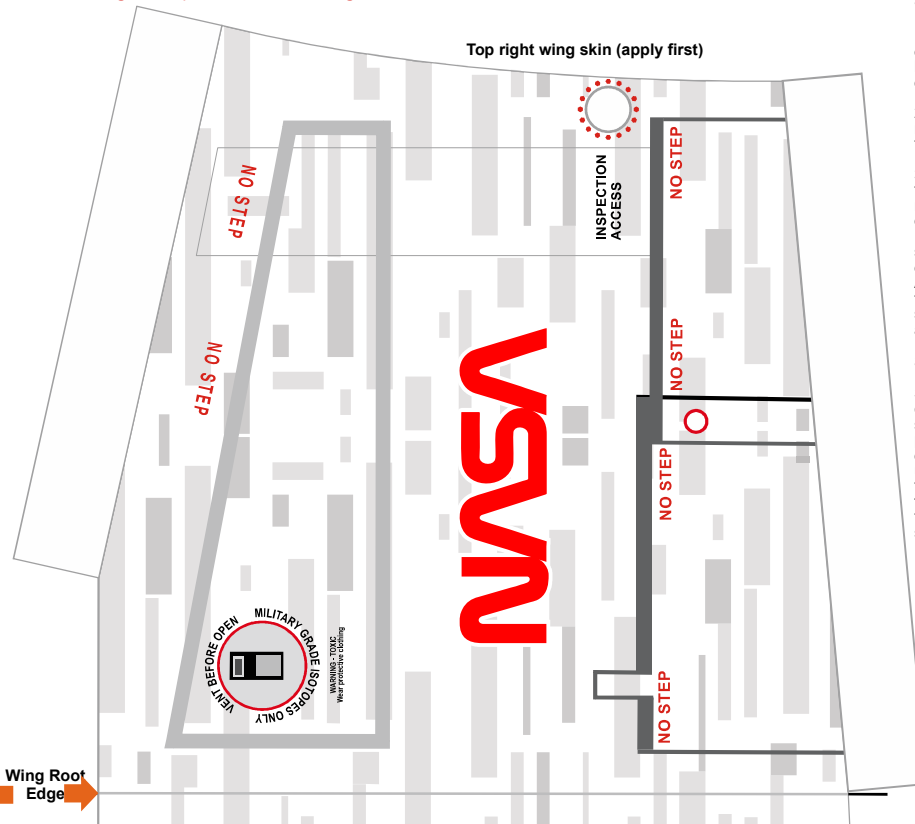
After wings are skinned and glued to the body, trim door just outside the outline and then affix it to the body under the wing so that it aligns with the door panel printed on the wing

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)



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.

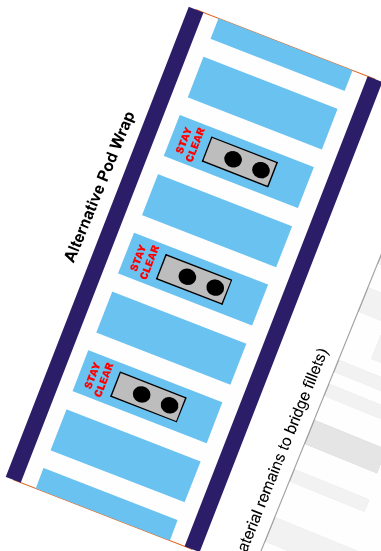
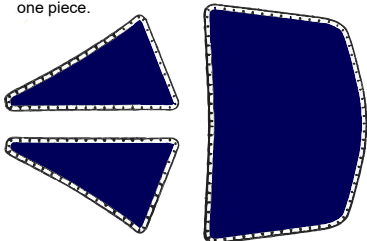
Skinning the Subfins

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.

**White Chameleon
Interceptor-E**

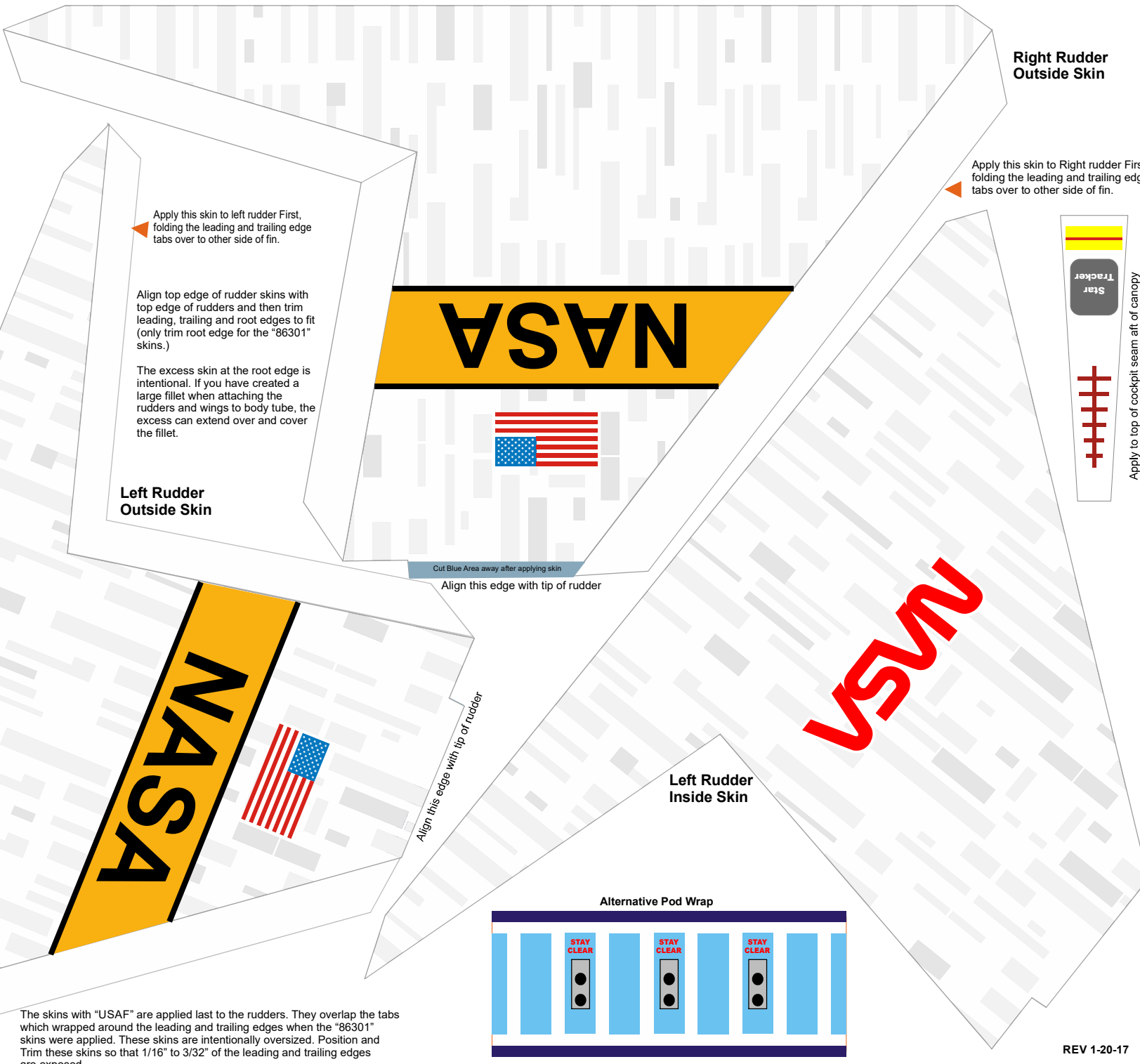
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Trim the cockpit windows just outside of the frames. The two forward windows can remain attached together as they are properly spaced to be applied as one piece.



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.

Left Rudder Outside Skin

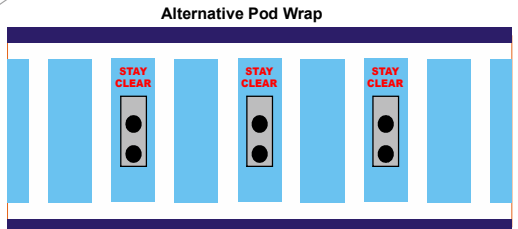
Cut Blue Area away after applying skin
Align this edge with tip of rudder

Align this edge with tip of rudder

Left Rudder Inside Skin

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



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Right Rudder Outside Skin

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



Apply to top of cockpit seam aft of canopy

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← 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)

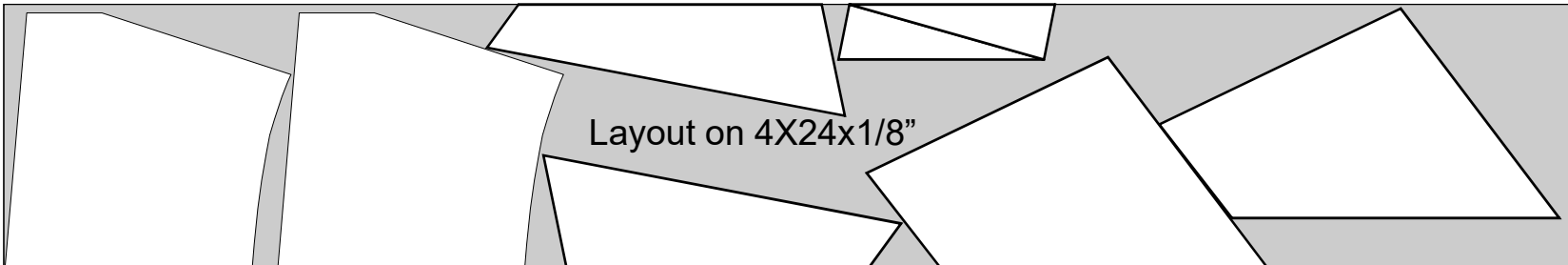
Wing (Make 2)
← Grain →

Rudder (Make 2)
← Grain →

Antenna (Make 2 from 3/16" dowel)

Ventral Fin (Make 2)
← Grain →

Pattern Sheet



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.

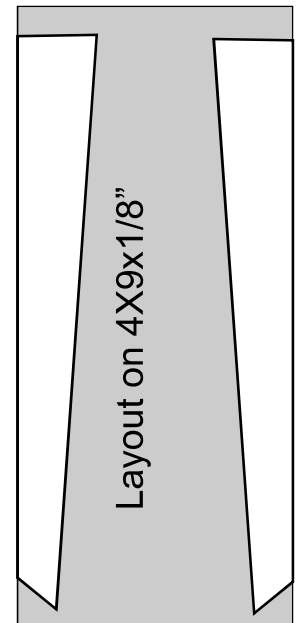
Modify the **Cosmic Interceptor engine mount** radiator fins as shown to the left on the Pattern Sheet by removing the projecting tab. Paint radiator fin section Black or Gunmetal. Save installing engine mount until the model is complete then install so the cooling fins protrude by about 1 to 1.25 inches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

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