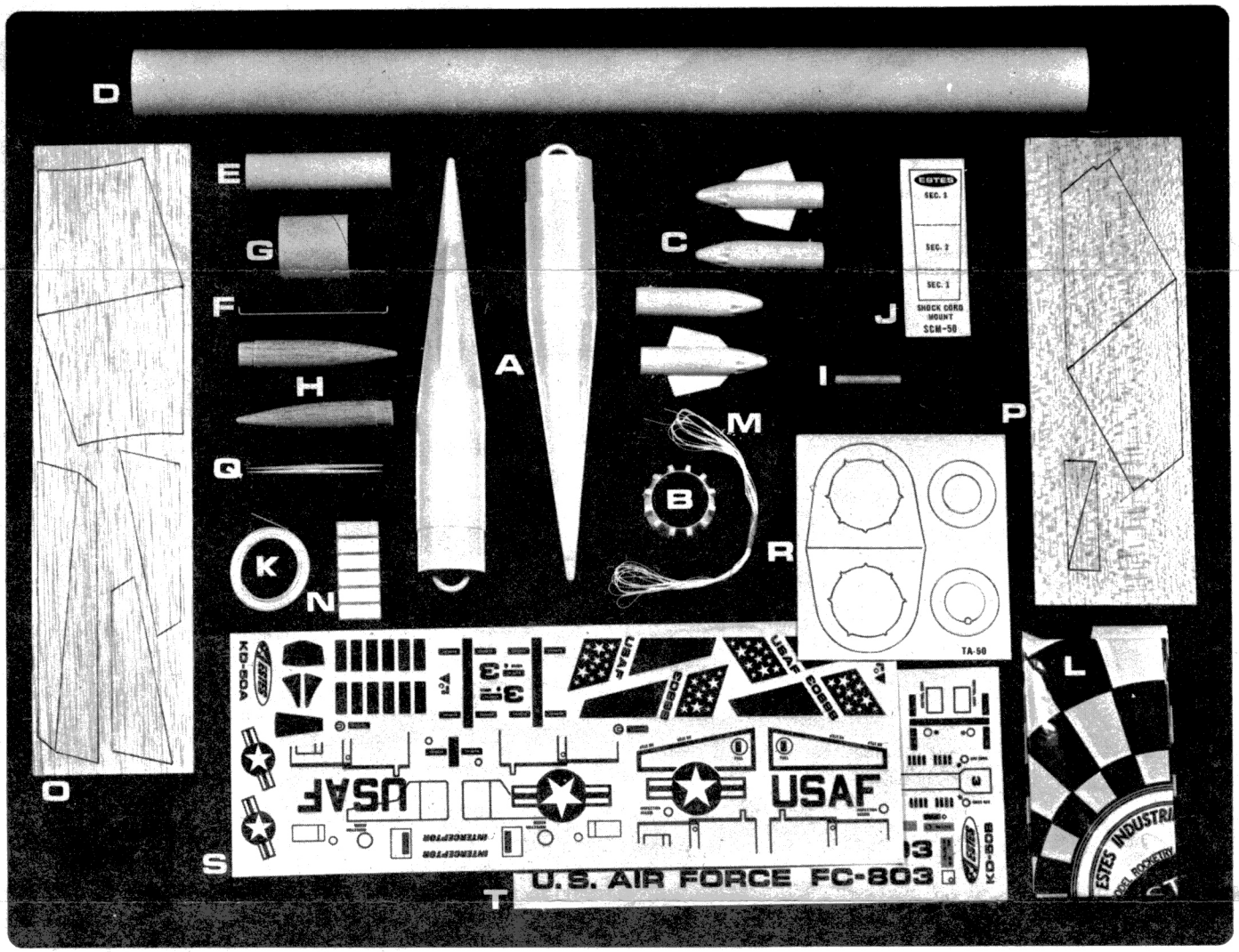

U.S. AIR FORCE
FC-303
USAF

ESTES
A SUBSIDIARY OF DAMON

INTERCEPTOR
K-50

The Interceptor suggests the trend of advanced military aircraft for the 1980's and beyond. Featuring detailed plastic parts, the kit provides maximum realism with a minimum of modeling. Complete with realistic markings, the Interceptor is truly fascinating to build, fly and display.



PARTS LIST

A	1	Nose Cone #PNC-55EJ	
B	1	Tail Cone #PTC-55EJ	#PRP-50
C	2	Wing Pods #PWP-EJ	
D	1	Body Tube	#BT-55
E	1	Engine Tube	#BT-20J
F	1	Engine Holder	#EH-2
G	1	Stage Coupler	#JT-55C
H	2	Balsa Wing Pods	#BWP-EJ
I	1	Launch Lug	#LL-2A
J	1	Shock Cord Mount	#SCM-50
K	1	Shock Cord	#SC-3
L	1	18" Parachute	#PK-18A
M	1	108" Shroud Line	#SLT-108
N	6	Tape Strips	#TD-2F
O	1	Balsa Fin Stock	#BF-50A
P	1	Balsa Fin Stock	#BF-50B
Q	2	Antenna Dowels	#AT-1
R	1	Ring/Marking Guide Set	#TA-50
S	1	Decal	#KD-50A
T	1	Decal	#KD-50B

In addition to the parts supplied, you will also need:

1. Testors Plastic Cement (Estes Cat. No. PC-2)
2. White glue
3. Modeling knife
4. Metal ruler
5. Ball point pen or pencil
6. Fine and extra fine grit sandpaper
7. Sanding sealer
8. Spray paint

ASSEMBLY INSTRUCTIONS

☐ **1.** Cement nose cone halves together. USE ONLY PLASTIC CEMENT.

☐ **2.** Cement wing pod halves together. ALLOW TO DRY COMPLETELY. NOTE: Use only PLASTIC CEMENT for joining balsa pod to plastic. (Do not use solvent type cement.)

☐ **3.** Glue centering rings (from part #TA-50) to stage coupler (part #JT-55C). Slit engine tube (part #BT-20J) and install engine holder (part #EH-2). Position coupler assembly on engine tube as shown and glue into place.

☐ **4.** Slip tube marking guides (from part #TA-50) onto body tube (part #BT-55), align and mark tube as illustrated.

☐ **5.** Fine-sand rudder and rudder fairing parts before removing them from balsa sheet (part #BF-50B). Glue fairing to rudder. Cut a 1-1 2'' length from each antenna dowel (part #AT-1) and glue to rudder notch. Allow both rudder assemblies to dry.

☐ **6.** Mark engine tube 1/2'' from tube rear. Smear a band of glue inside body tube rear. Insert engine mount unit until mark is even with body tube end. Align engine hook with launch lug line.

☐ **7.** Assemble shock cord mount (part #SCM-50) as shown in fig. 6 and glue to inside of body tube.

☐ **8.** Fine-sand all fin and wing parts before removing them from large balsa sheet (part #BF-50A). Sand ventral fin leading edge round. Sand other edges square. Glue fins to body tube NEXT TO ALIGNMENT LINES as shown. See also Rear View. Cut the launch lug (part #LL-2A) in half and glue to body tube DIRECTLY UPON the launch lug alignment line as illustrated.

☐ **9.** Taper-sand the trailing edge of both wings as in fig. 11. Sand the wing leading edge round only after wing fairing is glued into place. Rub a priming coat of white glue into root edge of both wings and allow to set. Position and glue wings to body tube NEXT TO ALIGNMENT LINES. See also Rear View. Glue wing fairings into place. Hold fairings against tube with masking tape until dry.

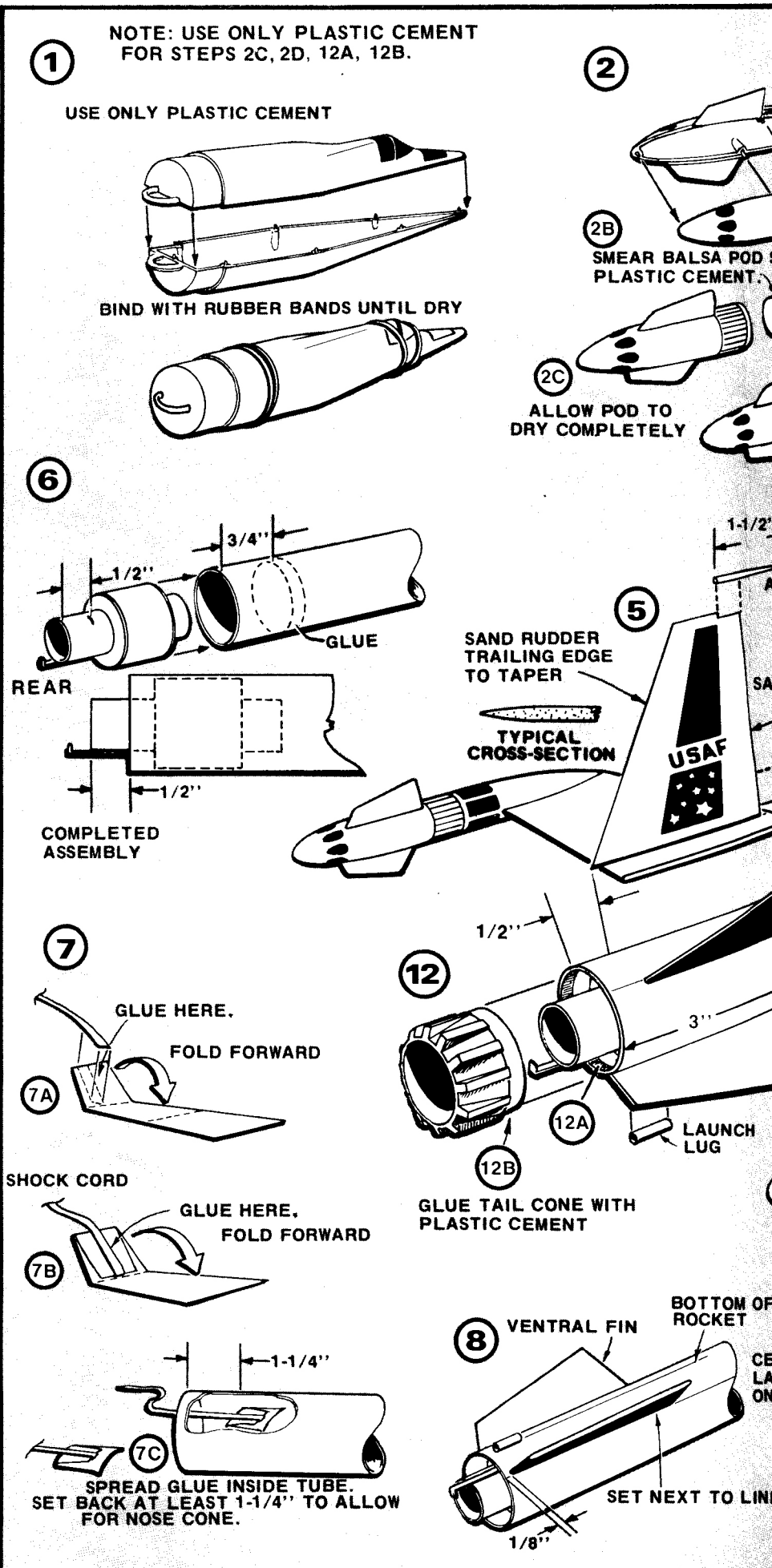
☐ **10.** Glue rudder assemblies to body tube NEXT TO ALIGNMENT LINES as shown in Rear View.

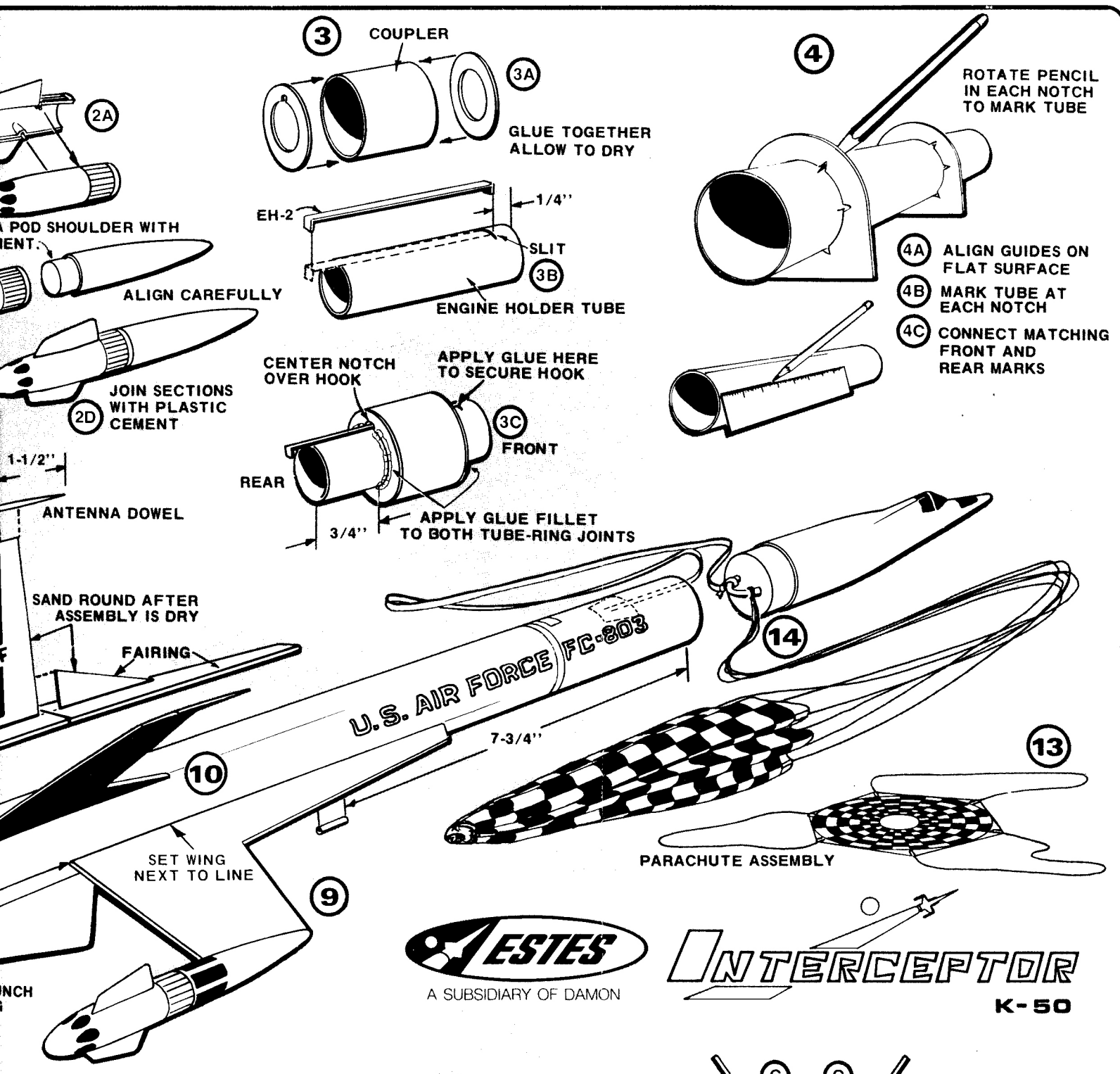
☐ **11.** Test fit wing pods against wing tip. Sand wing tip if necessary for proper fit. Rub white glue into wing tip edge and allow to set. Apply glue to wing tip edge and glue pod into place. Align pod carefully (see also Rear View) and hold in place with masking tape until dry.

☐ **12.** Smear a coat of PLASTIC CEMENT around the inside of the body tube rear and allow to dry (fig. 12A). Apply plastic cement to the tail cone shoulder and attach it to tube rear (fig. 12B).

☐ **13.** Cut out the parachute (part #PK-18A) along its edge lines. Cut the shroud line (part #SLT-108) into three equal lengths. Attach lines to 'chute top with tape strips (part #TD-2F) as in fig. 13.

☐ **14.** Pass shroud line loop ends through nose cone loop. Pass nose cone through loops, then draw lines tight against plastic loop. Secure knot with glue. Tie the shock cord end to nose cone loop.




3
COUPLER
3A
GLUE TOGETHER
ALLOW TO DRY
2A
EH-2
1/4''
SLIT
3B
ENGINE HOLDER TUBE
4
ROTATE PENCIL
IN EACH NOTCH
TO MARK TUBE
4A ALIGN GUIDES ON FLAT SURFACE
4B MARK TUBE AT EACH NOTCH
4C CONNECT MATCHING FRONT AND REAR MARKS
ALIGN CAREFULLY
2D
JOIN SECTIONS
WITH PLASTIC
CEMENT
CENTER NOTCH
OVER HOOK
APPLY GLUE HERE
TO SECURE HOOK
3C
FRONT
REAR
3/4''
APPLY GLUE FILLET
TO BOTH TUBE-RING JOINTS
1-1/2''
ANTENNA DOWEL
SAND ROUND AFTER
ASSEMBLY IS DRY
FAIRING
14
U.S. AIR FORCE FC-803
7-3/4''
10
13
PARACHUTE ASSEMBLY
SET WING
NEXT TO LINE
9
ESTES
A SUBSIDIARY OF DAMON
INTERCEPTOR
K-50
11
GLUE POD TO WING TIP
HOLD IN PLACE WITH
MASKING TAPE
CENTER
LAUNCH LUG
ON LINE
TAPER SAND
TRAILING EDGE
SAND
ROUND
TYPICAL SECTION
C
C
B
B
A
A
REAR VIEW
A VENTRAL FIN ALIGNMENT LINES
B WING ALIGNMENT LINES
C RUDDER ALIGNMENT LINES

ASSEMBLY INSTRUCTIONS

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☐ 2. Cement wing pod halves together. ALLOW TO DRY COMPLETELY. NOTE: Use only PLASTIC CEMENT for joining balsa pod to plastic. (Do not use solvent type cement.)

☐ 3. Glue centering rings (from part #TA-50) to stage coupler (part #JT-55C). Slit engine tube (part #BT-20J) and install engine holder (part #EH-2). Position coupler assembly on engine tube as shown and glue into place.

☐ 4. Slip tube marking guides (from part #TA-50) onto body tube (part #BT-55), align and mark tube as illustrated.

☐ 5. Fine-sand rudder and rudder fairing parts before removing them from balsa sheet (part #BF-50B). Glue fairing to rudder. Cut a 1-1 2'' length from each antenna dowel (part #AT-1) and glue to rudder notch. Allow both rudder assemblies to dry.

☐ 6. Mark engine tube 1/2'' from tube rear. Smear a band of glue inside body tube rear. Insert engine mount unit until mark is even with body tube end. Align engine hook with launch lug line.

☐ 7. Assemble shock cord mount (part #SCM-50) as shown in fig. 6 and glue to inside of body tube.

☐ 8. Fine-sand all fin and wing parts before removing them from large balsa sheet (part #BF-50A). Sand ventral fin leading edge round. Sand other edges square. Glue fins to body tube NEXT TO ALIGNMENT LINES as shown. See also Rear View. Cut the launch lug (part #LL-2A) in half and glue to body tube DIRECTLY UPON the launch lug alignment line as illustrated.

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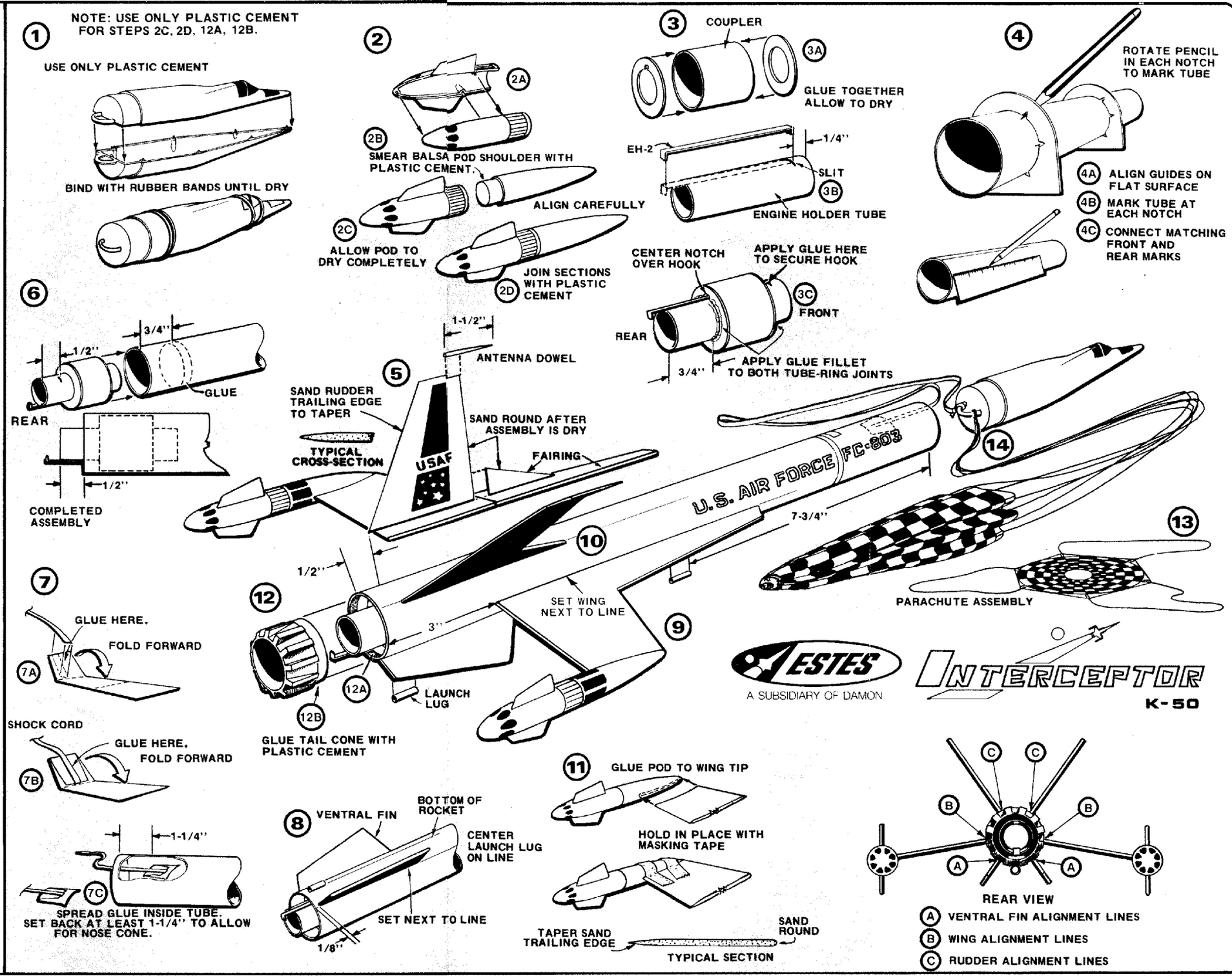
☐ 13. Cut out the parachute (part #PK-18A) along its edge lines. Cut the shroud line (part #SLT-108) into three equal lengths. Attach lines to 'chute top with tape strips (part #TD-2F) as in fig. 13.

☐ 14. Pass shroud line loop ends through nose cone loop. Pass nose cone through loops, then draw lines tight against plastic loop. Secure knot with glue. Tie the shock cord end to nose cone loop.



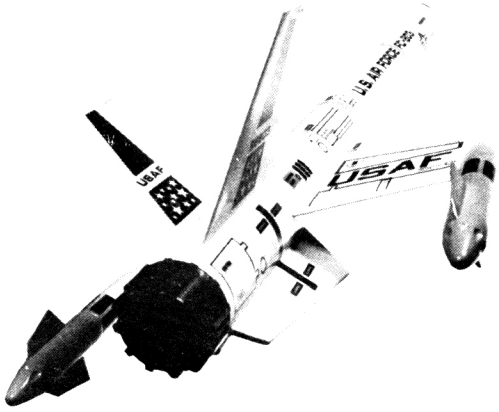
FINISHING & PAINTING

Apply two or more coats of sanding sealer to balsa surfaces. Sand lightly with extra fine sandpaper between coats. Plastic surfaces must be wiped clean before painting. Very light sanding with 320 grit sandpaper will also help paint to adhere to surface. Give the rocket a base coat of white paint. DO NOT USE BUTYRATE DOPE ON PLASTIC PARTS. Sand lightly and apply a final finish coat of gloss white paint.

APPLYING THE DECALS

Because the Interceptor decals are applied in large sections at a time the following suggestions will be helpful (fig. 15):

1. Wet surface slightly with water.
2. Slide decal carefully from backing paper to desired surface.
3. Smooth out bubbles and excess water from beneath decal with wide, wet brush.
4. Blot with damp cloth and allow to dry.



COUNTDOWN CHECKLIST

☐ **11.** Pack six squares recovery wadding into body tube. Fold the parachute in half. Pack the 'chute, shroud lines and shock cord neatly into the rocket.

☐ **10.** Insert an igniter into the engine as directed in the engine instruction sheet. Install engine in rocket.

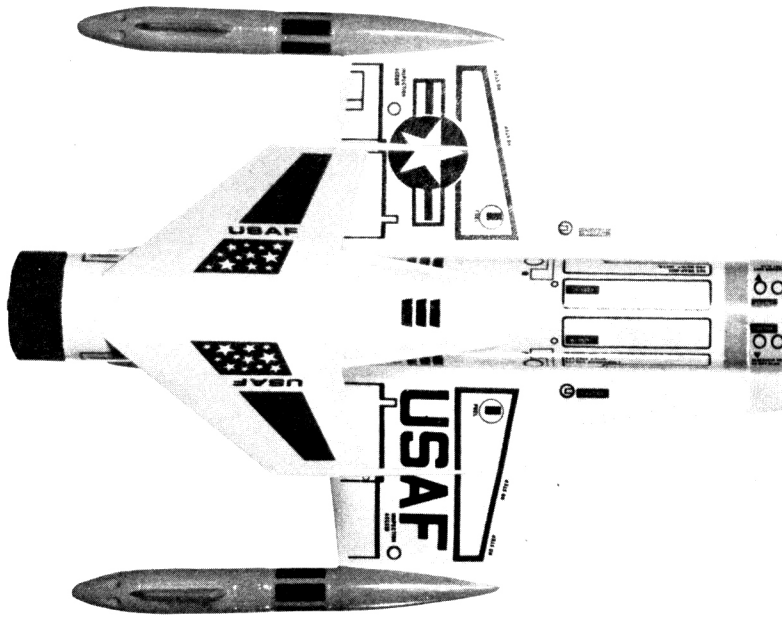
☐ **9.** Disarm the launch panel. Place rocket on launcher.

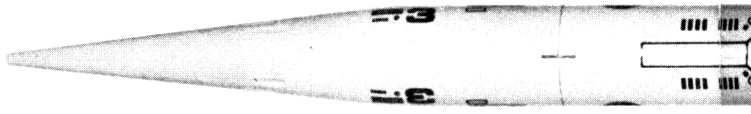
☐ **8.** Clean the micro-clips and attach them to the igniter.

☐ **7.** Clear the launch area.

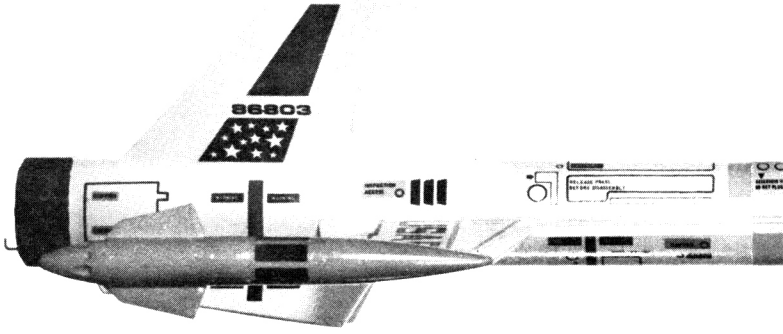
☐ **6.** Arm the launch panel.

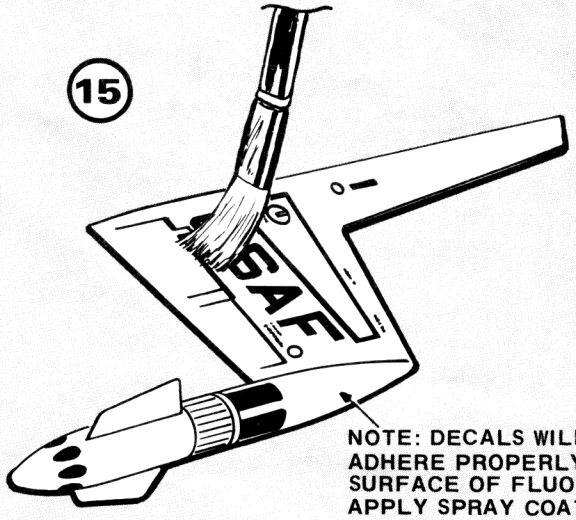
5 - 4 - 3 - 2 - 1 - LAUNCH!





BOTTO





TO AP

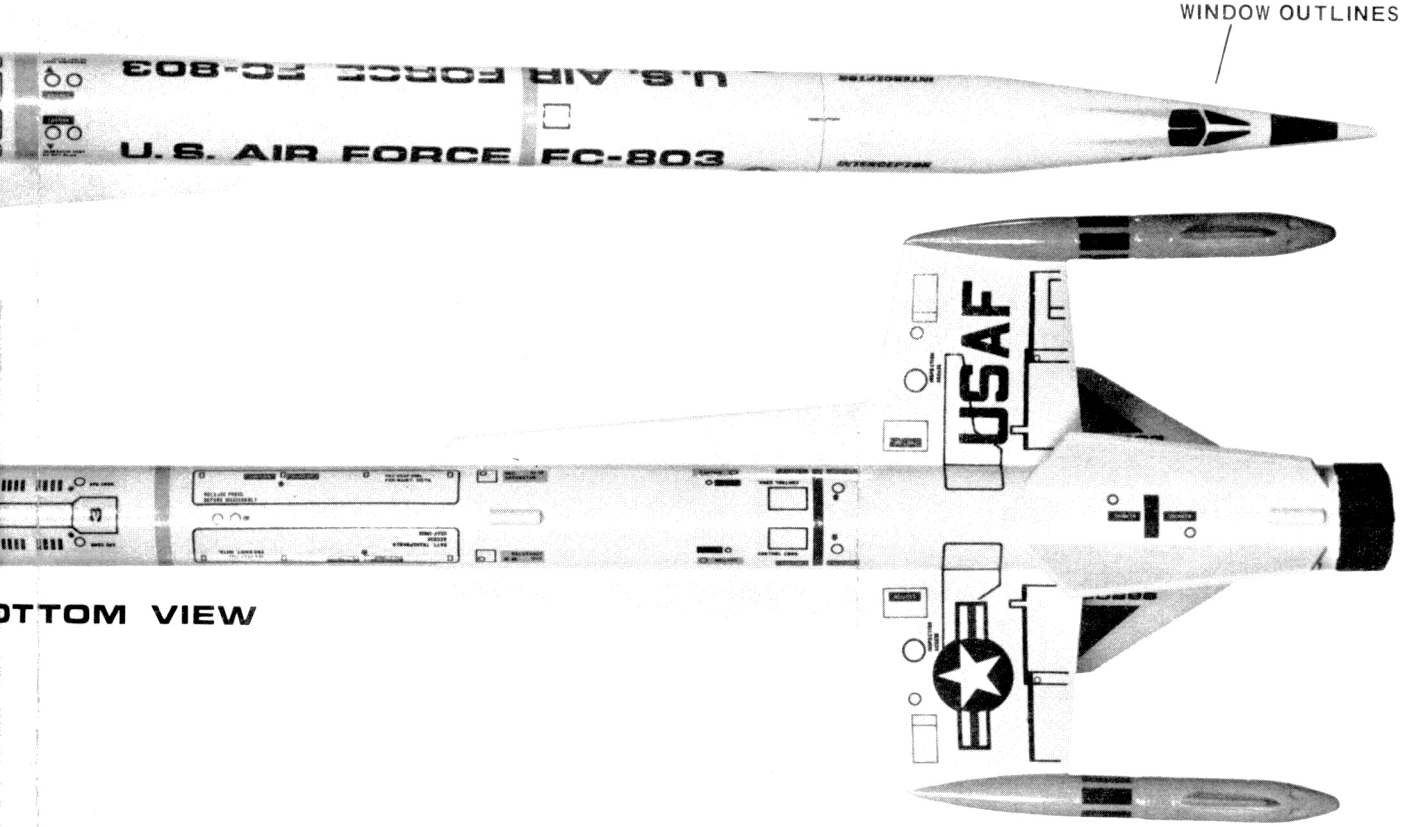
1. **WE**
2. **AP**
3. **PO WIT**
4. **BL**

NOTE: DECALS WILL NOT ADHERE PROPERLY TO ROUG SURFACE OF FLUORESCENT APPLY SPRAY COAT OF CLEA ALLOW TO DRY. APPLY DECA

DECAL REFERENCE

TOP VIEW

CUT DECAL AS CLOSE AS POSSIBLE TO COCKPIT WINDOW OUTLINES



OTTOM VIEW

APPLY YELLOW BAND BEFORE AIR FORCE SIDE DECALS

SIDE VIEW

TO APPLY LARGE DECALS:

1. WET SURFACE WITH BRUSH
2. APPLY DECAL
3. POSITION AND SMOOTH WITH WET BRUSH
4. BLOT WITH DAMP CLOTH

OT
O ROUGH
CENT PAINT.
F CLEAR TO POD.
DECAL.

COLOR SCHEME

OVERALL ROCKET	WHITE
TAIL CONE	BLACK
WINGTIP PODS	FLUORESCENT ORANGE

(DO NOT USE BUTYRATE DOPE ON PLASTIC PARTS)

RECOMMENDED ENGINES – B4-2, B6-4, C6-5

INTERCEPTOR

DESIGNED BY
WAYNE KELLNER

ESTES

A SUBSIDIARY OF DAMON

ESTES INDUSTRIES

BOX 227, PENROSE, COLO. 81240

83,065

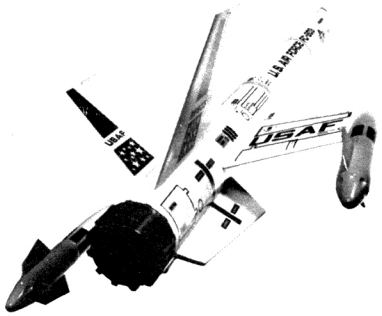
FINISHING & PAINTING

Apply two or more coats of sanding sealer to balsa surfaces. Sand lightly with extra fine sandpaper between coats. Plastic surfaces must be wiped clean before painting. Very light sanding with 320 grit sandpaper will also help paint to adhere to surface. Give the rocket a base coat of white paint. DO NOT USE BUTYRATE DOPE ON PLASTIC PARTS. Sand lightly and apply a final finish coat of gloss white paint.

APPLYING THE DECALS

Because the Interceptor decals are applied in large sections at a time the following suggestions will be helpful (fig. 15):

1. Wet surface slightly with water.
2. Slide decal carefully from backing paper to desired surface.
3. Smooth out bubbles and excess water from beneath decal with wide, wet brush.
4. Blot with damp cloth and allow to dry.



COUNTDOWN CHECKLIST

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☐ **9.** Disarm the launch panel. Place rocket on launcher.

☐ **8.** Clean the micro-clips and attach them to the igniter.

☐ **7.** Clear the launch area.

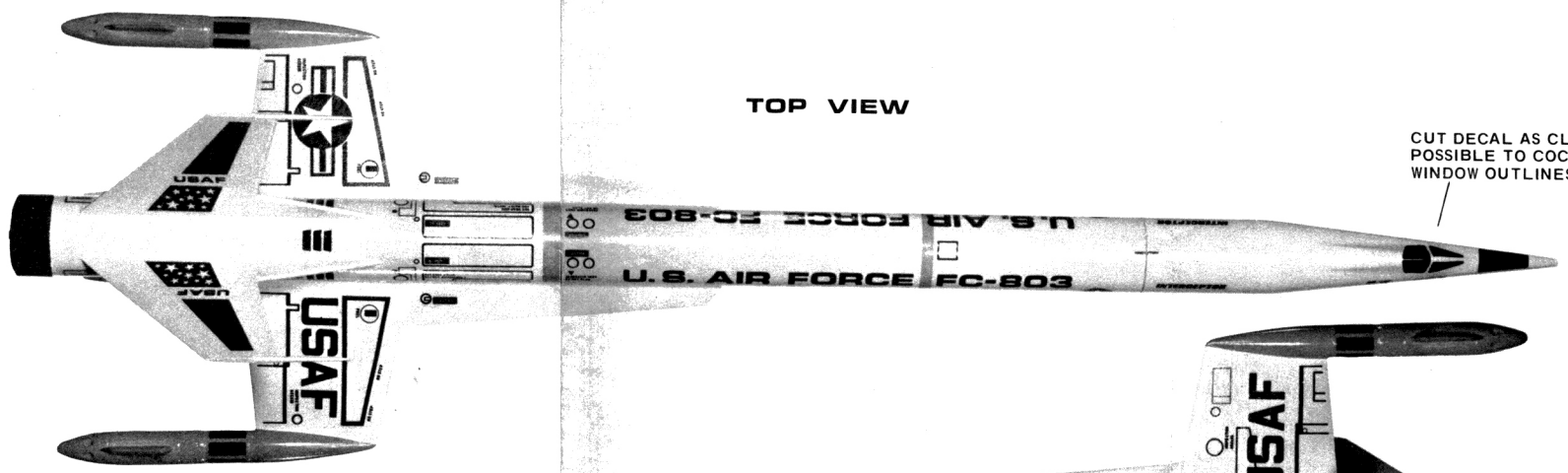
☐ **6.** Arm the launch panel.

5 - 4 - 3 - 2 - 1 - LAUNCH!

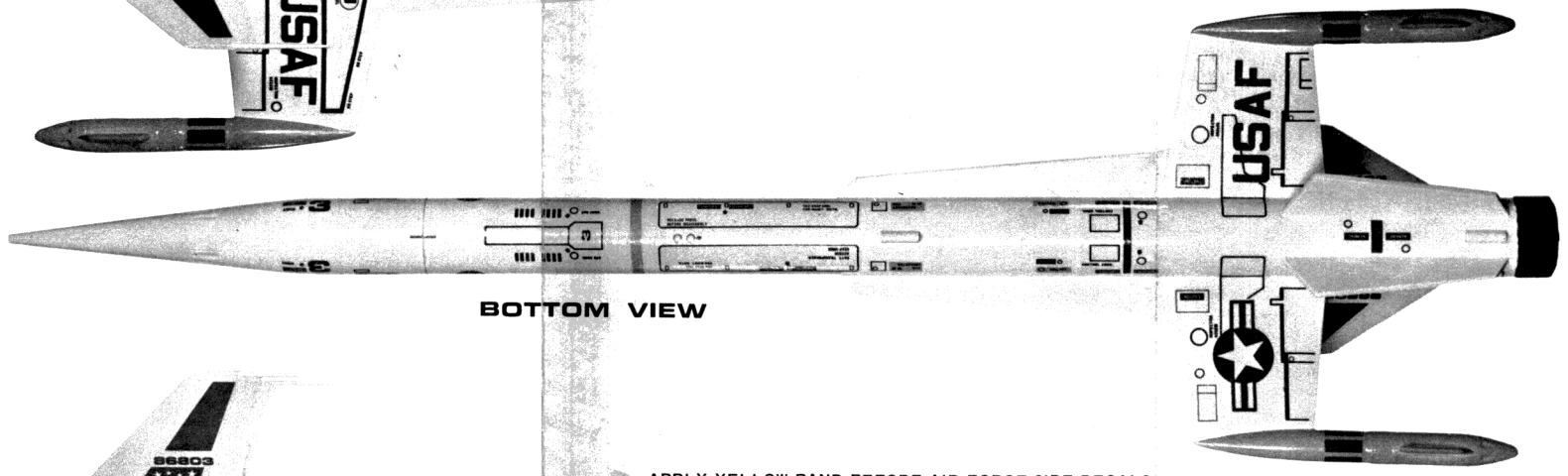
DECAL REFERENCE

TOP VIEW

CUT DECAL AS CLOSE AS POSSIBLE TO COCKPIT WINDOW OUTLINES

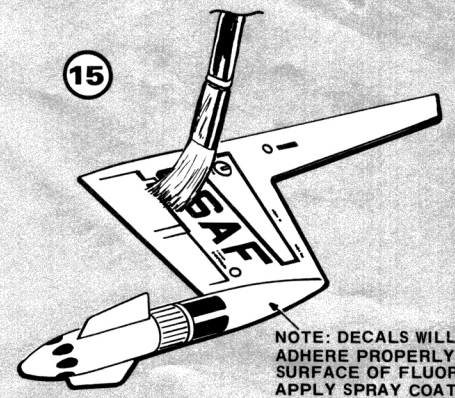


BOTTOM VIEW



APPLY YELLOW BAND BEFORE AIR FORCE SIDE DECALS

SIDE VIEW



NOTE: DECALS WILL NOT ADHERE PROPERLY TO ROUGH SURFACE OF FLUORESCENT PAINT. APPLY SPRAY COAT OF CLEAR TO POD. ALLOW TO DRY. APPLY DECAL.

TO APPLY LARGE DECALS:

1. WET SURFACE WITH BRUSH
2. APPLY DECAL
3. POSITION AND SMOOTH WITH WET BRUSH
4. BLOT WITH DAMP CLOTH

COLOR SCHEME

OVERALL ROCKET	WHITE
TAIL CONE	BLACK
WINGTIP PODS	FLUORESCENT ORANGE

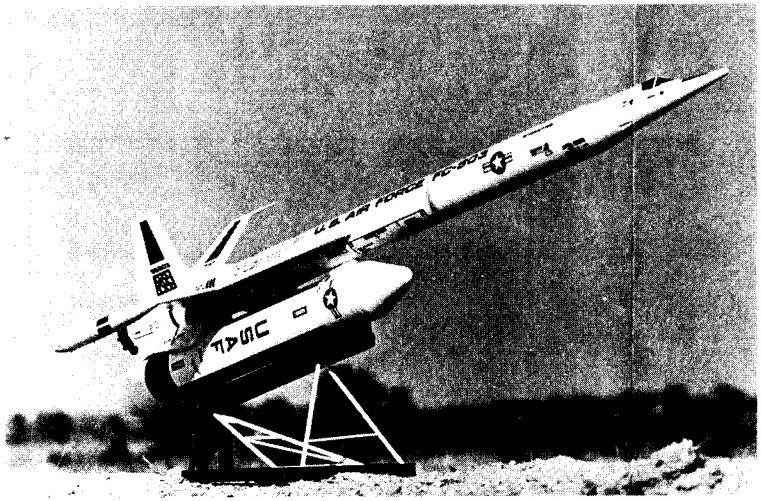
(DO NOT USE BUTYRATE DOPE ON PLASTIC PARTS)

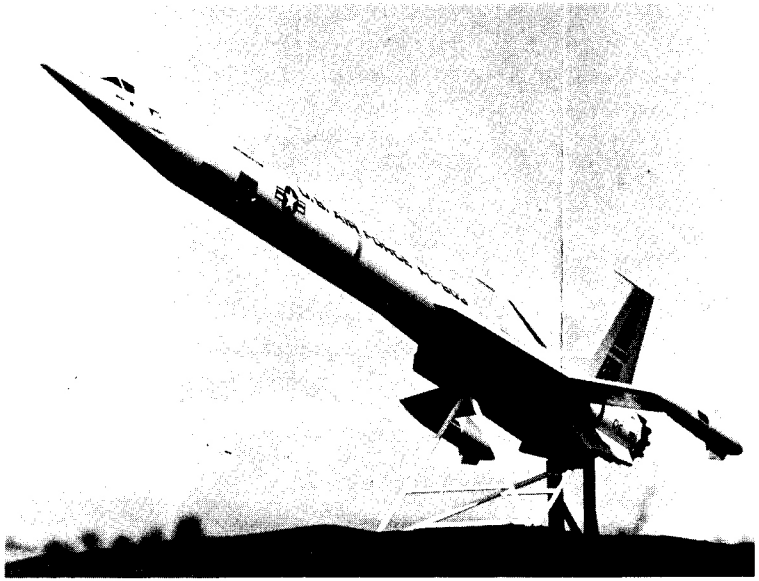
RECOMMENDED ENGINES – B4-2, B6-4, C6-5

INTERCEPTOR

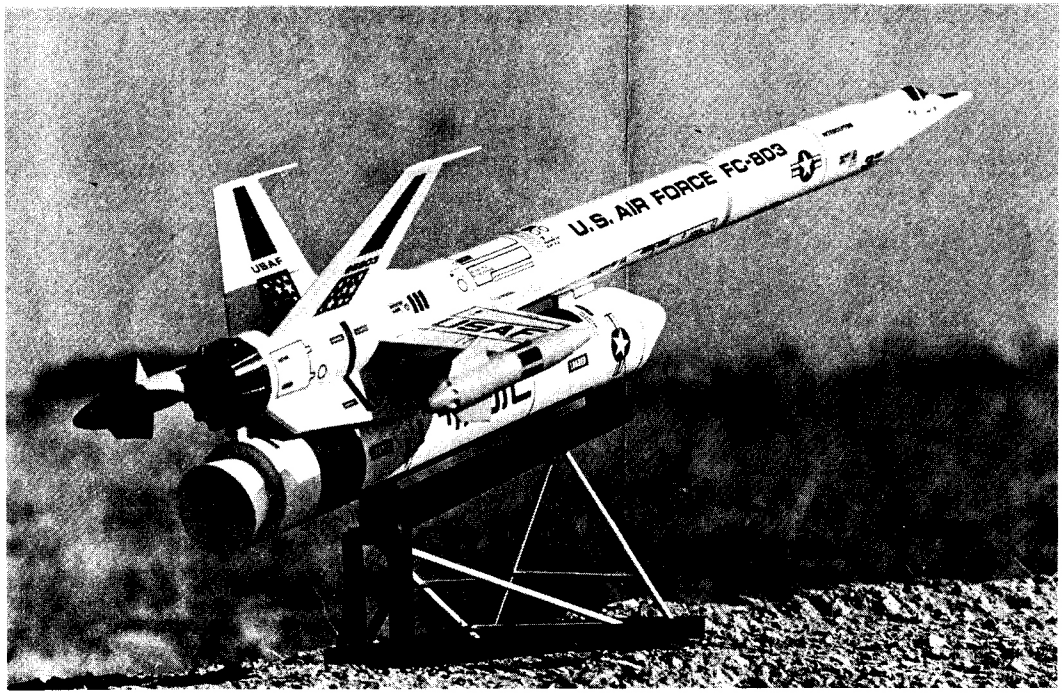
DESIGNED BY WAYNE KELLNER

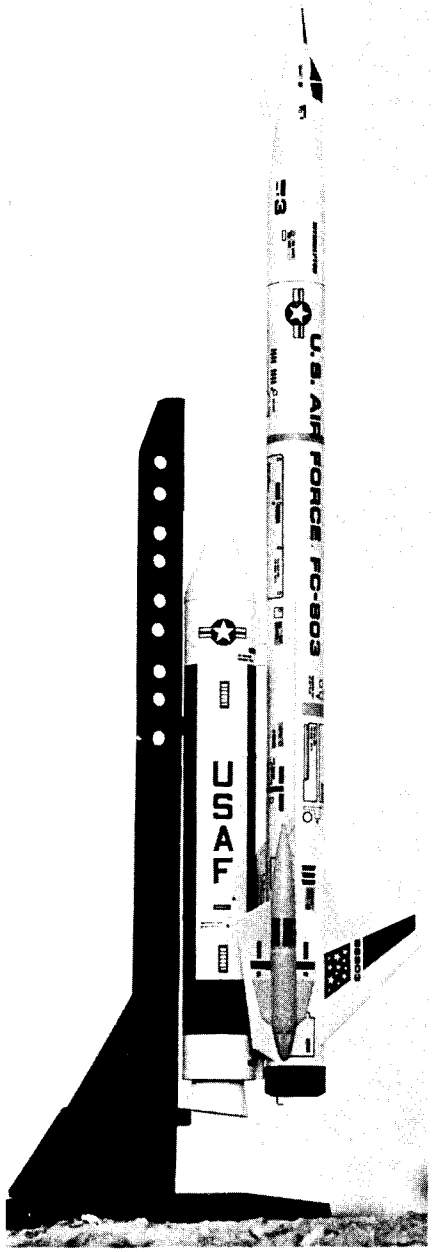
ESTES
A SUBSIDIARY OF DAMON
ESTES INDUSTRIES
BOX 227, PENROSE, COLO. 81240





Zero-length cradle launcher with simulated strap-on booster. Real aircraft would then land on conventional airstrip.





Vertical zero-length launcher with simulated strap-on booster above. Typical desk or shelf display stand at left.

DISPLAYING THE INTERCEPTOR

Shown above are several of many possibilities for scratch-built display stands. Other alternatives include stands with removable landing gear, bombs, rockets, launch pad diorama, military paint schemes, etc. Do not attempt to launch the Interceptor from any of these stands.

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ESTES
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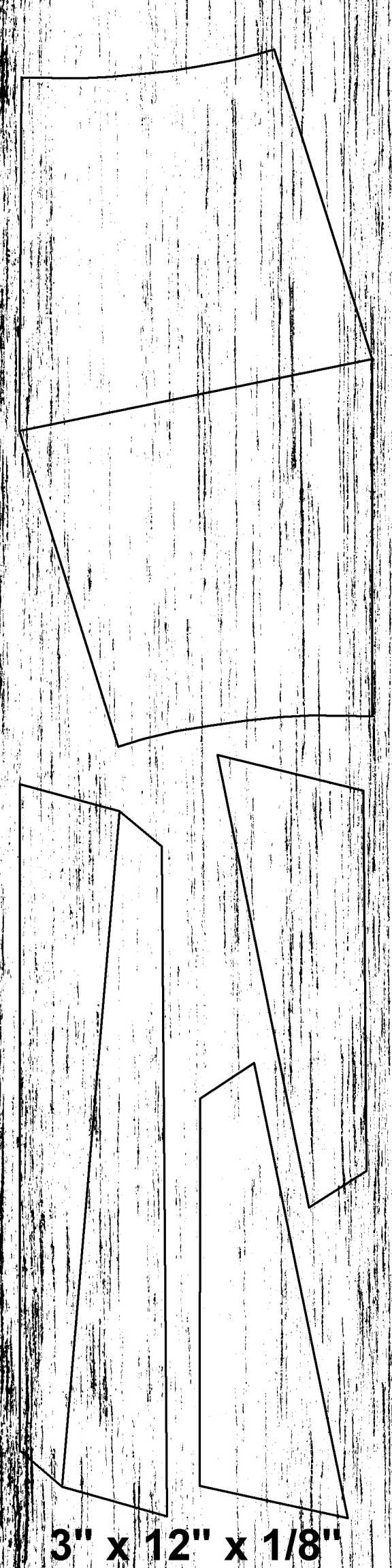
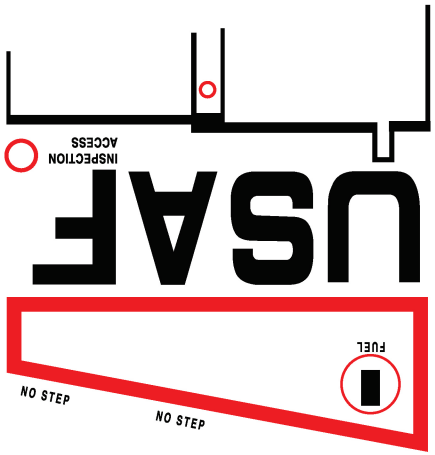
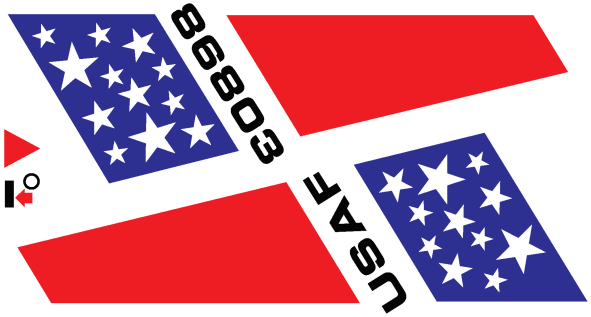
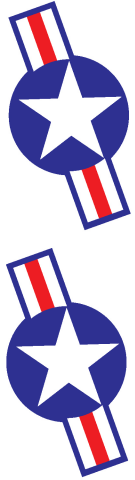

3" x 12" x 1/8"

3" x 8"
3/32"







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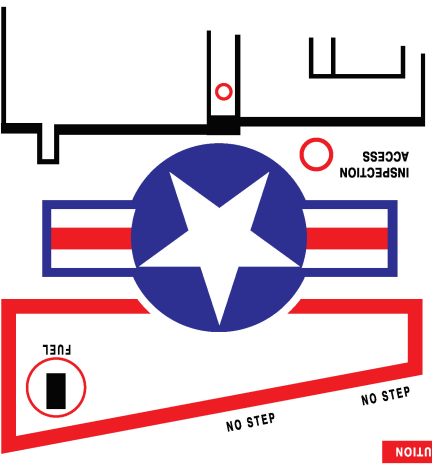

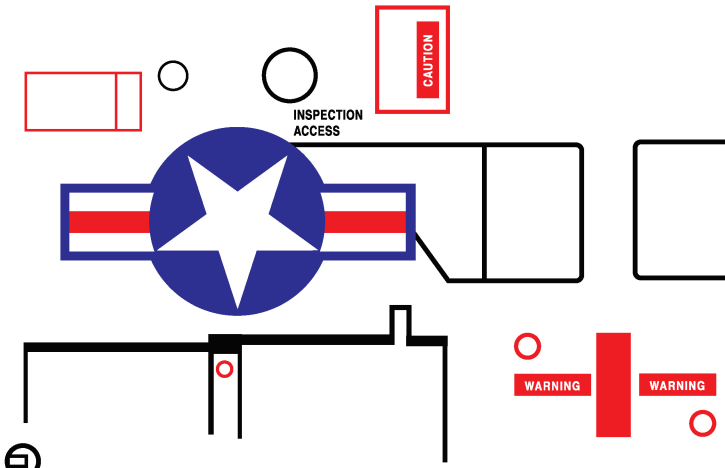

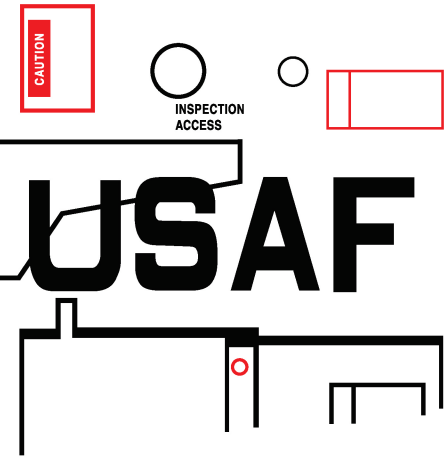

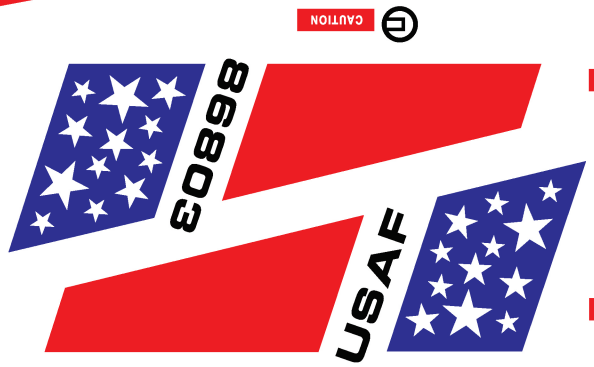

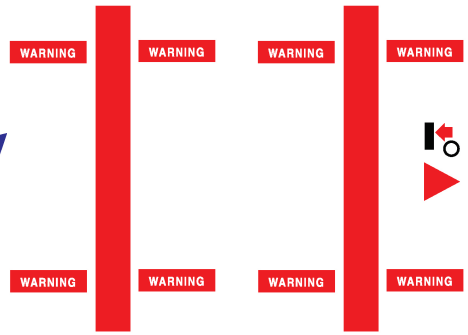

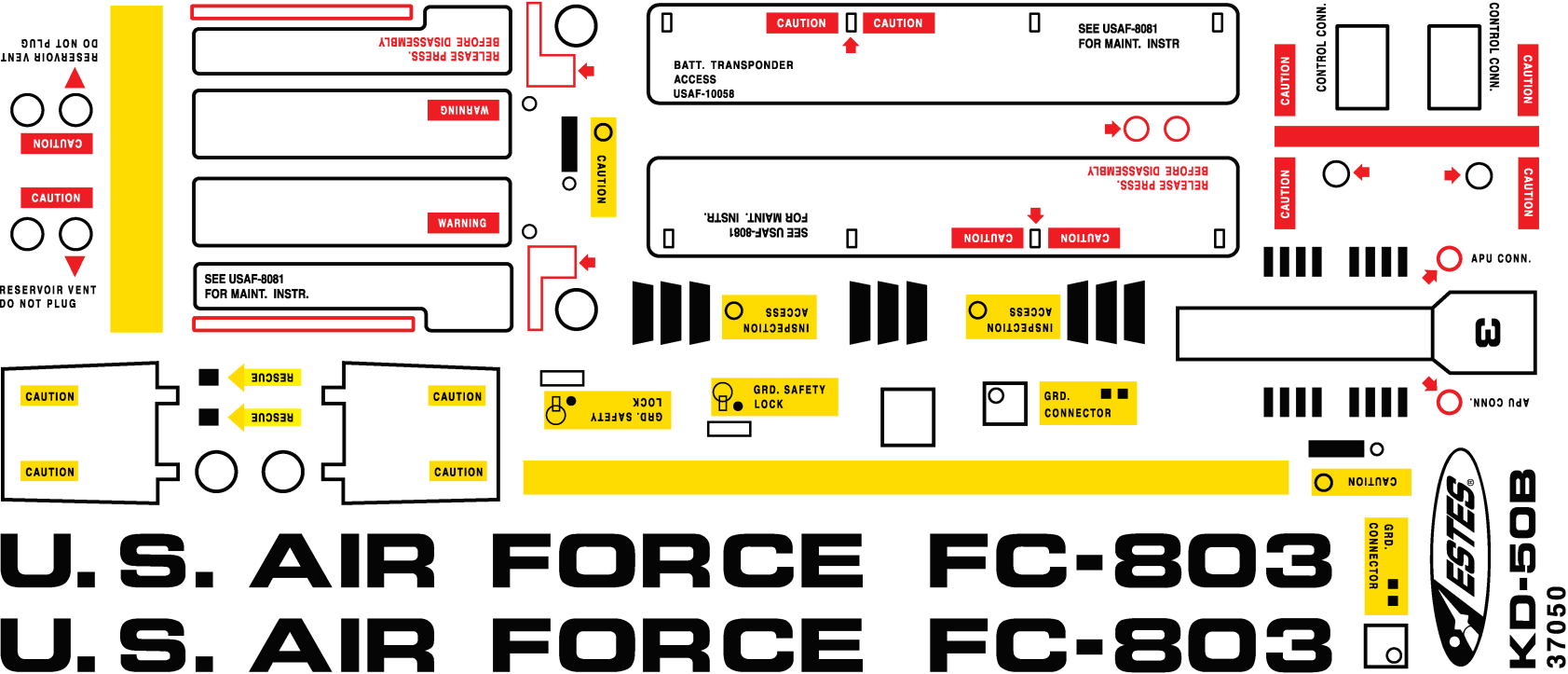
CAUTION
CAUTION
SEE USAF-8081
FOR MAINT. INSTR
BATT. TRANSPONDER
ACCESS
USAF-10058
CONTROL CONN.
CONTROL CONN.
RELEASE PRESS.
BEFORE DISASSEMBLY
WARNING
WARNING
SEE USAF-8081
FOR MAINT. INSTR.
RESERVOIR VENT
DO NOT PLUG
APU CONN.
INSPECTION
ACCESS
GRD. SAFETY
LOCK
GRD.
CONNECTOR
RESCUE
U.S. AIR FORCE FC-803
U.S. AIR FORCE FC-803
ESTES
KD-508
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INTERCEPTOR
USAF