

TORNADO IDS

Originally known as the Multi-Role Combat Aircraft (MRCA) the Tornado was developed jointly by Great Britain, Germany, and Italy. As this name implies, the aircraft was designed to perform a variety of combat and combat support roles, and several different versions have been produced. The Tornado IDS (interdictor/strike) version, which this kit represents, is acknowledged by many experts as the finest ground attack aircraft in the world today. It is capable of carrying almost every air-launched weapon in the European arsenal, and it can attack targets from high or low altitudes, during the day or night, and in any kind of weather.

Featuring two powerful turbofan engines and variable-geometry wings, the Tornado is capable of supersonic speeds and is highly maneuverable. It's electronics and avionics systems are state-of-the-art and include an inertial navigation system, terrain following radar, a radar/map display, Doppler radar, and a laser range-finder.

Two sets of markings on the decal sheet in this kit allow a choice between units of the German Air Force and Navy. These include the Luftwaffe's Jagdbombergeschwader (fighter-bomber wing) 31 'Boelcke' (JBG 31) and German Navy's Mairnefliegergeschwader 1 (MFG1).



* REPEAT SEVERAL TIMES
* A REPETER PLUSIEURS FOIS



* OPTIONAL PARTS
* PIECES EN OPTION



* DECAL
* DECAL COMANIE



* ALTERNATIVE ASSEMBLY
* ENSEMBLAGE ALTERNATIVE



* CEMENT TOGETHER
* A COLLER



* REMOVE AND THROW AWAY
* A RETIRER ET JETER



* DO NOT CEMENT
* NE PAS COLLER

READ THIS BEFORE YOU BEGIN

- Study the assembly drawings.
- Each plastic part is identified by a number.
- In the assembly drawings, some parts will be marked by a star (*) to indicate chrome plated plastic.
- For better paint and decal adhesion, wash the plastic parts in a mild detergent solution. Rinse and let air dry.
- Check the fit of each piece before cementing in place.
- Use only cement for polystyrene plastic.
- Scrape plating and paint from areas to be cemented.
- Allow paint to dry thoroughly before handling parts.
- Any unused parts may be discarded.

DECAL APPLICATION INSTRUCTIONS

1. Cut desired decal from sheet.
2. Dip decal in water for a few seconds.
3. Place wet decal on paper towel.
4. Wait until decal is movable on paper backing.
5. Place decal in position on model, face up and slide backing away.
6. Press out air bubbles with a soft damp cloth.
7. Milkiness that may appear is for better decal adhesion and will dry clear. Wipe away any excess adhesive.
8. Do not touch decal until fully dry.
9. Allow the decals 48 hours to dry before applying clear coat.

LIRE CE QUI SUIT AVANT DE COMMENCER

- Etudier les schémas de montage.
- Chaque pièce en plastique est identifiée par un numéro.
- Sur les schémas de montage, certaines pièces sont marquées d'une étoile (*) pour indiquer qu'elles sont en plastique chromé.
- Pour une meilleure prise de la peinture et des autocollants, laver les pièces en plastique avec une solution détergente peu concentrée. Les rincer et les laisser sécher à l'air.
- Vérifier que chaque pièce s'ajuste bien avant de la coller en place.
- N'utiliser que de la colle pour polystyrène.
- Gratter les parties à coller pour enlever le chrome et la peinture.
- Laisser la peinture bien sécher avant de manipuler les pièces.
- Toute pièce inutilisée peut être jetée.

DIRECTIVES D'APPLICATION DES AUTOCOLLANTS

1. Découper l'autocollant désiré de la feuille.
2. Tremper l'autocollant dans de l'eau pendant quelques secondes.
3. Placer l'autocollant mouillé sur une serviette en papier.
4. Attendez que l'autocollant puisse être déplacé sur son support en papier.
5. Mettre l'autocollant en position sur le modèle face sur le dessus et faire glisser le support pour l'enlever.
6. Appuyer avec un chiffon doux humide pour éliminer les bulles d'air.
7. La substance laiteuse qui peut apparaître est destinée à améliorer l'adhésion de l'autocollant et devient incolore au séchage. Essuyer pour enlever tout excédent d'adhésif.
8. Ne pas toucher l'autocollant tant qu'il n'est pas bien sec.
9. Laisser l'autocollant sécher pendant 48 heures avant d'appliquer une couche transparente.

This paint guide is provided to complete this kit as shown on the box.

Ce guide de peinture est fourni pour reproduire le modèle réduit qui apparaît sur la boîte.

DARK GRAY	GRIS FONCE
MEDIUM GRAY	GRIS
LIGHT GRAY	GRIS CLAIR
GLOSS BLACK	NOIR BRILLANT
FLAT BLACK	NOIR MATT
WHITE	BLANC
GREEN	VERT
DARK GREEN	VERT FONCE
OLIVE GREEN	VERT OLIVE
BRONZE GREEN	VERT BRONZE
ALUMINUM	ALUMINIM METALIQUE
STEEL	COLORIS TER. METALIQUE
SILVER	ARGENTE
BLUE	BLEU
BROWN	BRUN
BIEGE	BIEGE
RED	ROUGE
YELLOW	JAUNE

We recommend
ProModeler™ or Revell-Monogram paints.

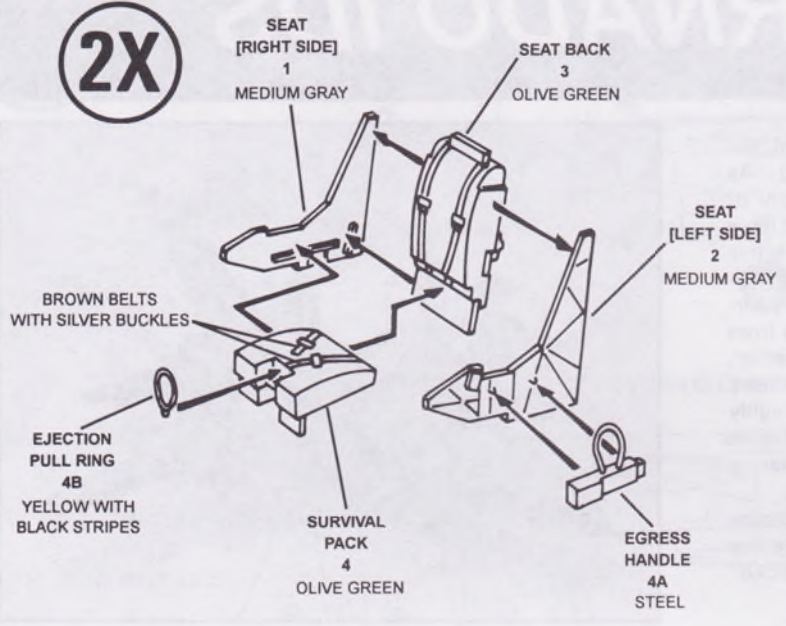
If you have any questions or comments, call our hotline at: **(800) 833-3570**
or, please write to:

Revell-Monogram Consumer Service Department, 8601 Waukegan Road, Morton Grove, Illinois 60053
Be sure to include the kit number, part number, description, your return address and phone number.

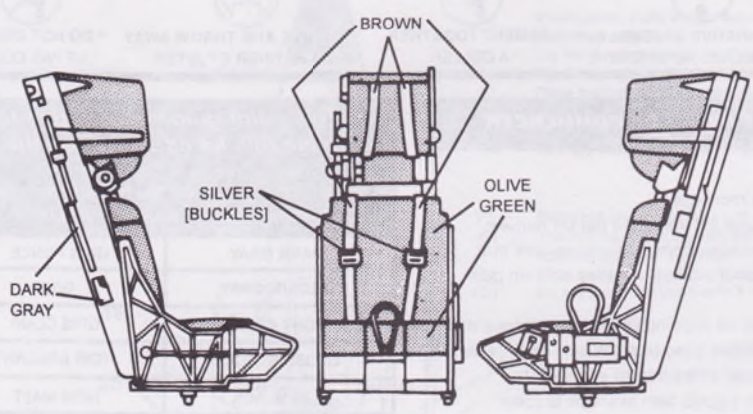
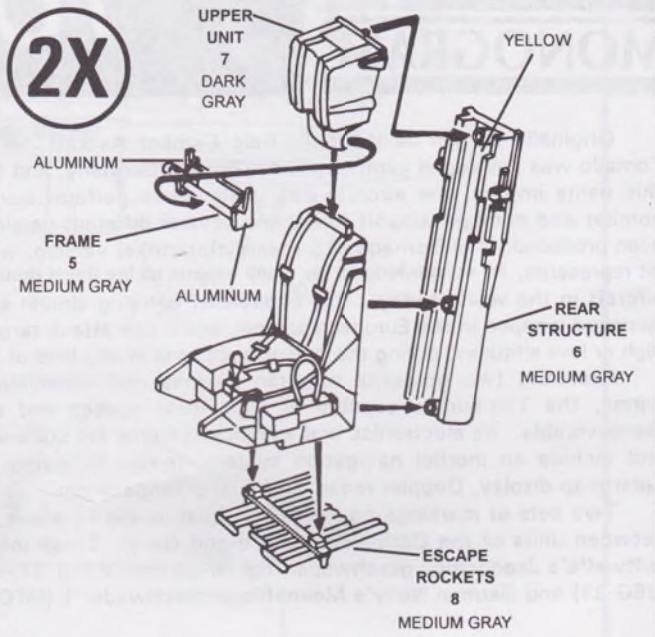
Visit our website: www.revell-monogram.com

STEP 1, COCKPIT ASSEMBLY

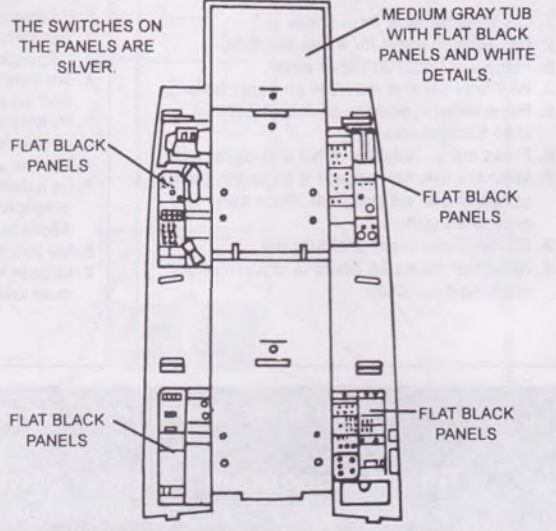
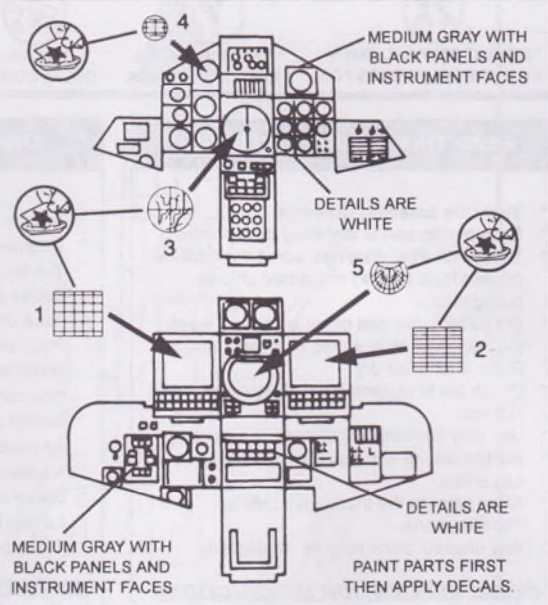
2X



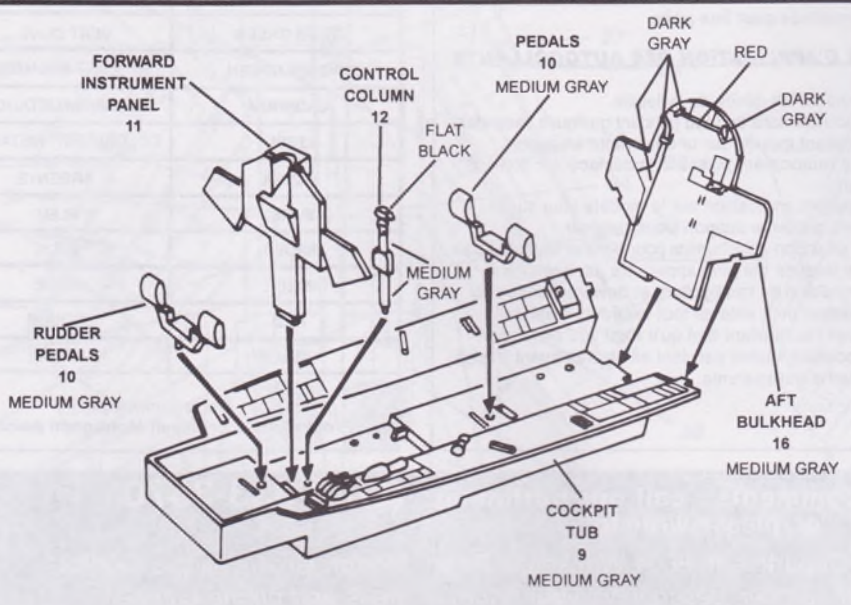
2X



ADDITIONAL PAINTING INFORMATION FOR THE SEATS



PAINTING INFORMATION FOR THE COCKPIT



STEP 11

AFT INSTRUMENT PANEL 14

JOYSTICK CONTROLLER 15

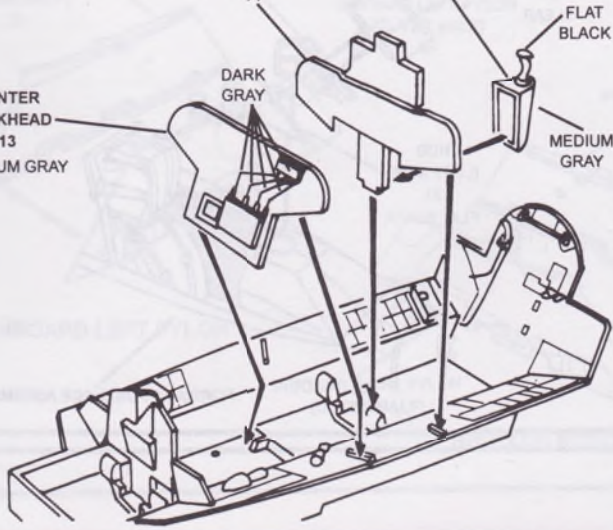
FLAT BLACK

MEDIUM GRAY

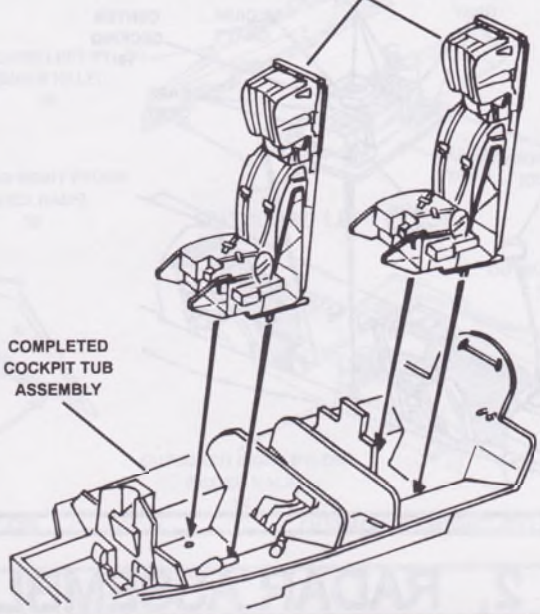
DARK GRAY

CENTER BULKHEAD 13

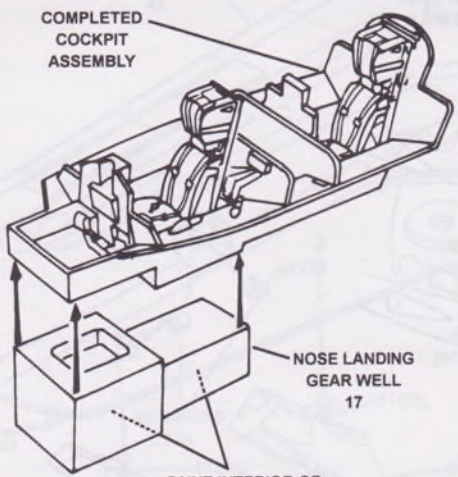
MEDIUM GRAY



COMPLETED EJECTION SEATS



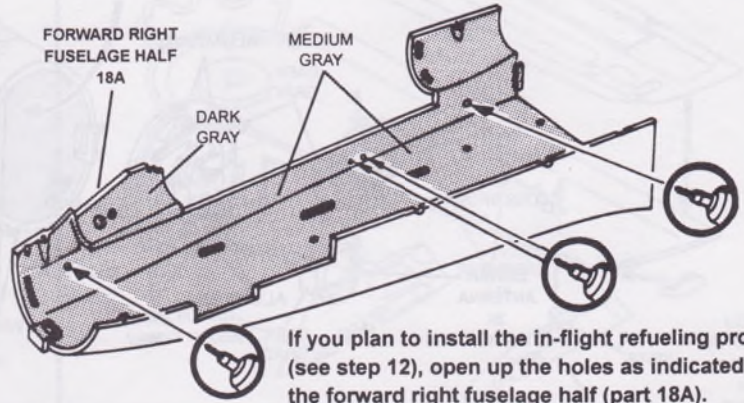
COMPLETED COCKPIT ASSEMBLY



PAINT INTERIOR OF NOSE GEAR WELL LIGHT GRAY.



FORWARD RIGHT FUSELAGE HALF 18A

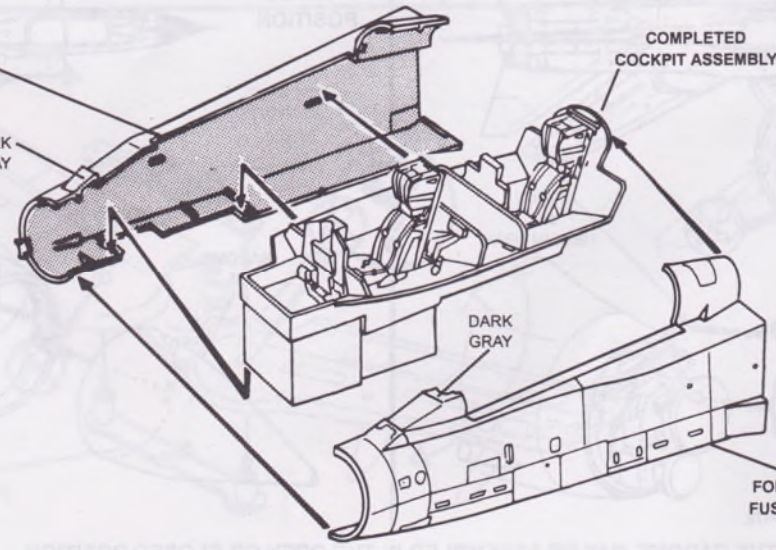


If you plan to install the in-flight refueling probe (see step 12), open up the holes as indicated in the forward right fuselage half (part 18A).

FORWARD RIGHT FUSELAGE HALF 18A

DARK GRAY

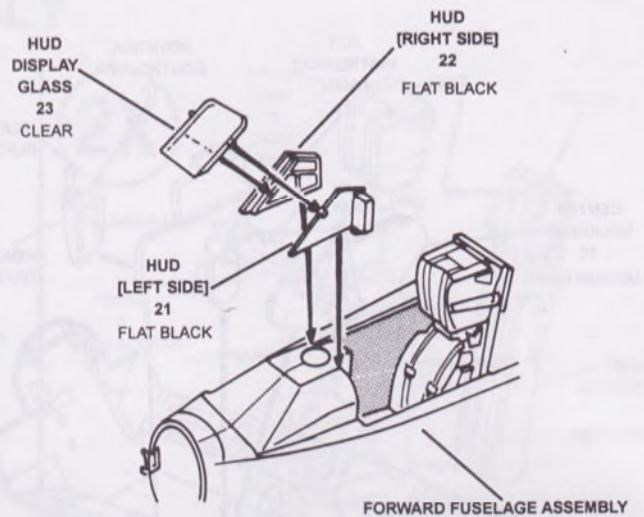
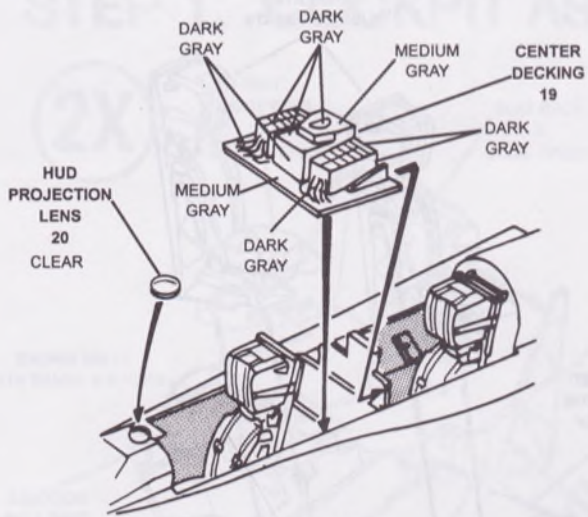
COMPLETED COCKPIT ASSEMBLY



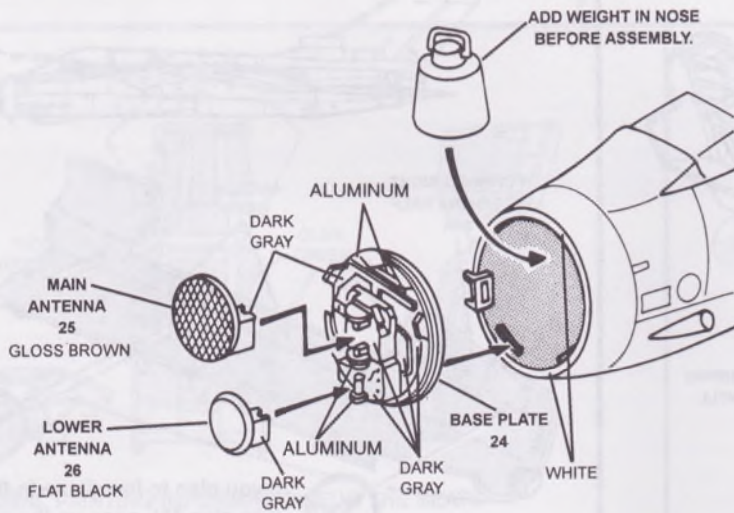
DARK GRAY

FORWARD LEFT FUSELAGE HALF 18

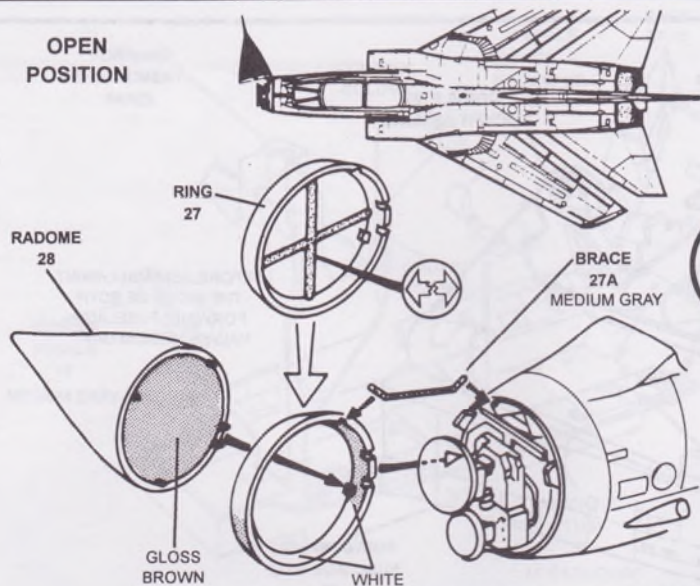
BEFORE ASSEMBLY, PAINT THE INSIDE OF BOTH FORWARD FUSELAGE HALVES MEDIUM GRAY.



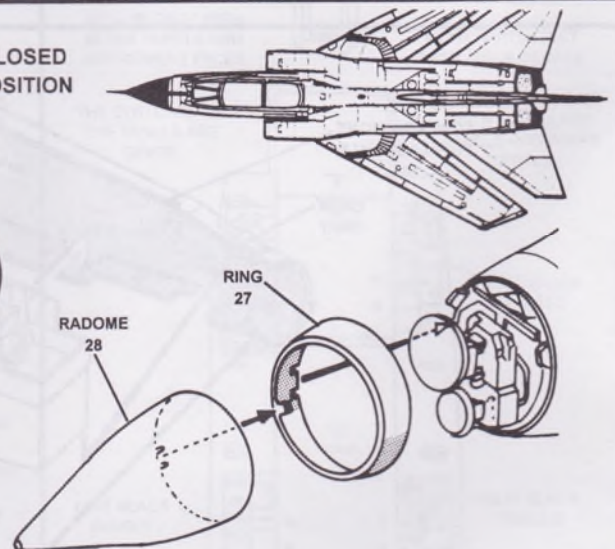
STEP 2, RADAR ASSEMBLY



OPEN POSITION

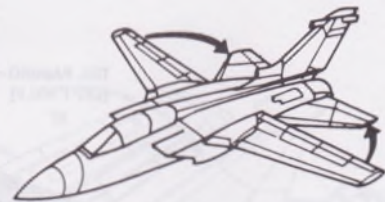
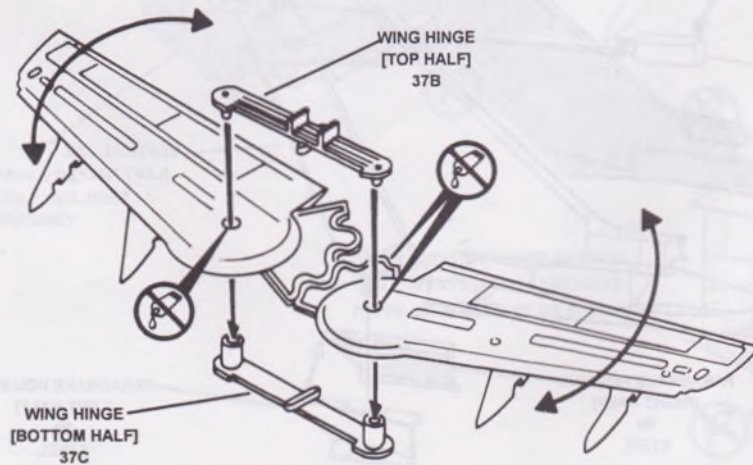
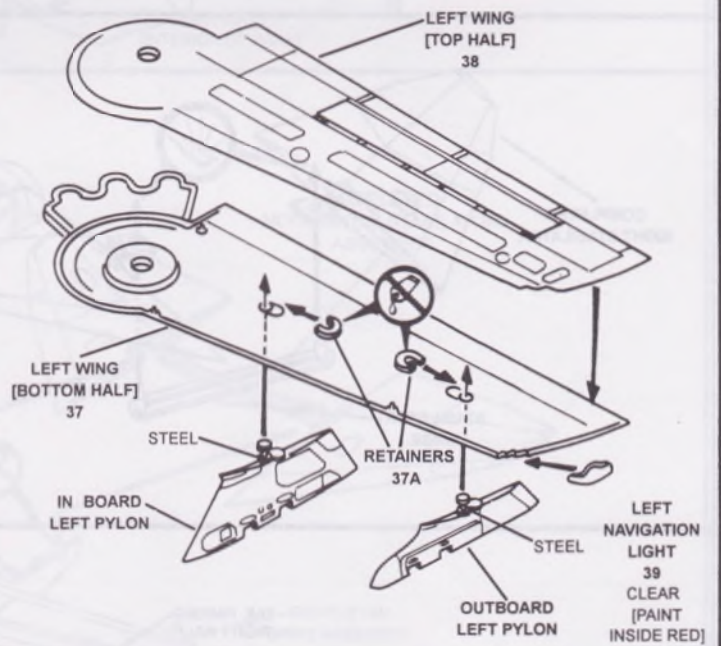
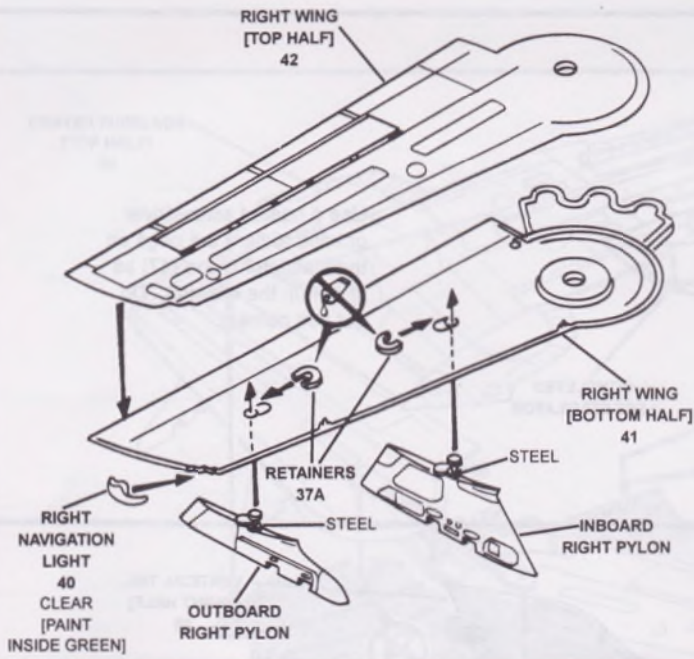
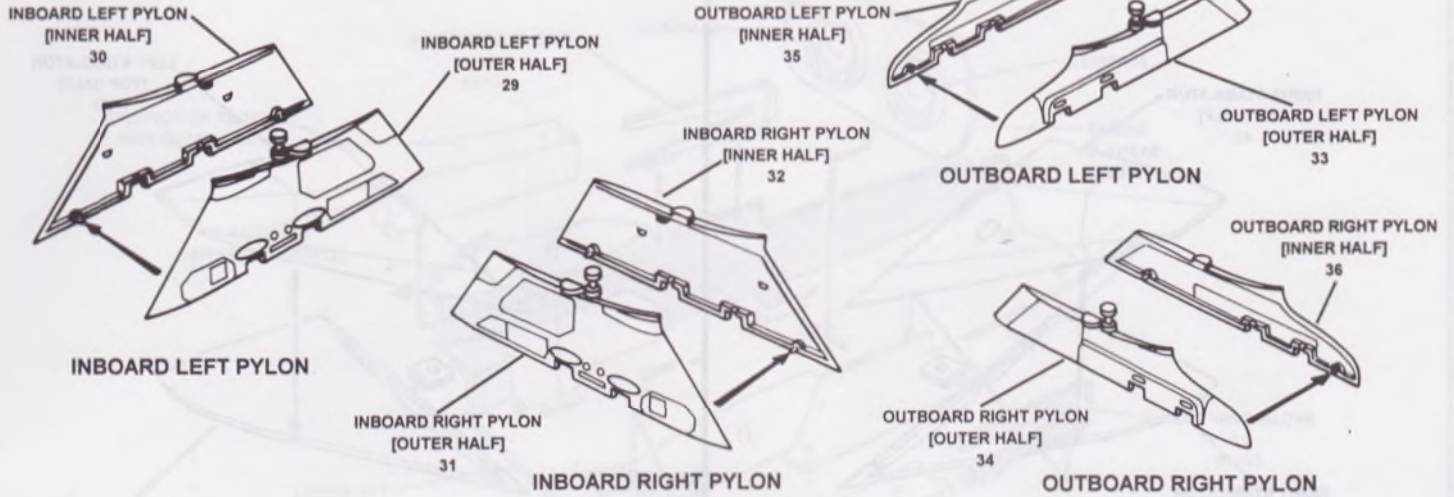


CLOSED POSITION



THE RADOME MAY BE ASSEMBLED IN THE OPEN OR CLOSED POSITION.

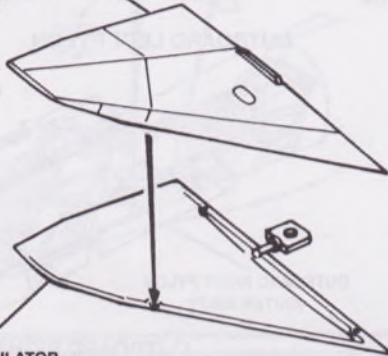
STEP 3, WING ASSEMBLY



STEP 4, TAIL ASSEMBLY

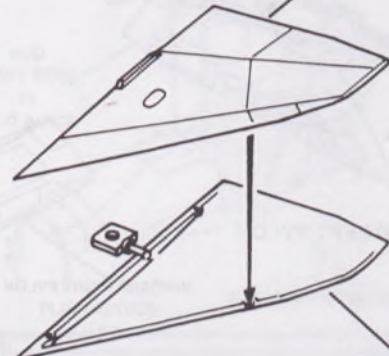
RIGHT STABILATOR
[TOP HALF]
45

RIGHT STABILATOR
[BOTTOM HALF]
46



LEFT STABILATOR
[TOP HALF]
43

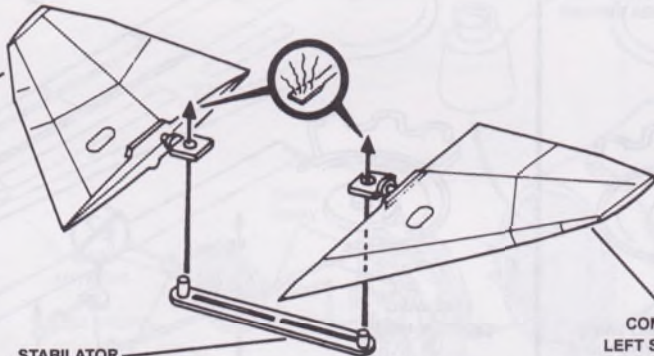
LEFT STABILATOR
[BOTTOM HALF]
44



COMPLETED
RIGHT STABILATOR

STABILATOR
HINGE
47

COMPLETED
LEFT STABILATOR



Use a heated screwdriver or knife to flare the pegs on the stabilator hinge (47) as shown in the drawing. Do not use cement.

TAIL FAIRING
[RIGHT HALF]
58

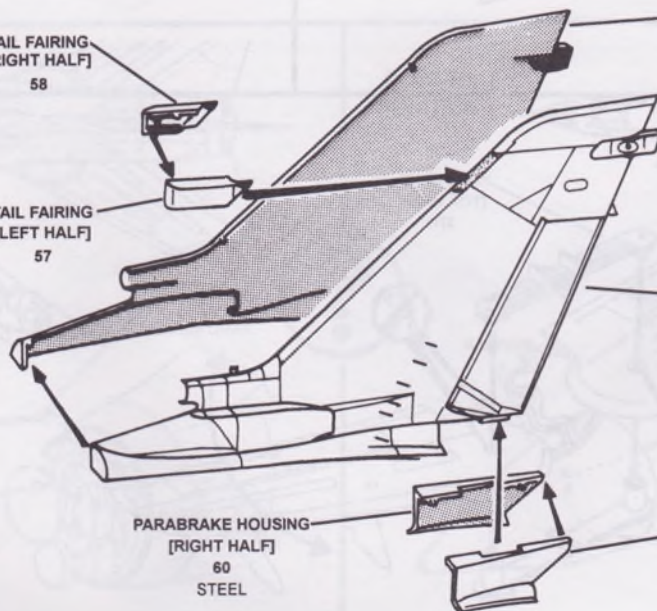
TAIL FAIRING
[LEFT HALF]
57

VERTICAL TAIL
[RIGHT HALF]
56

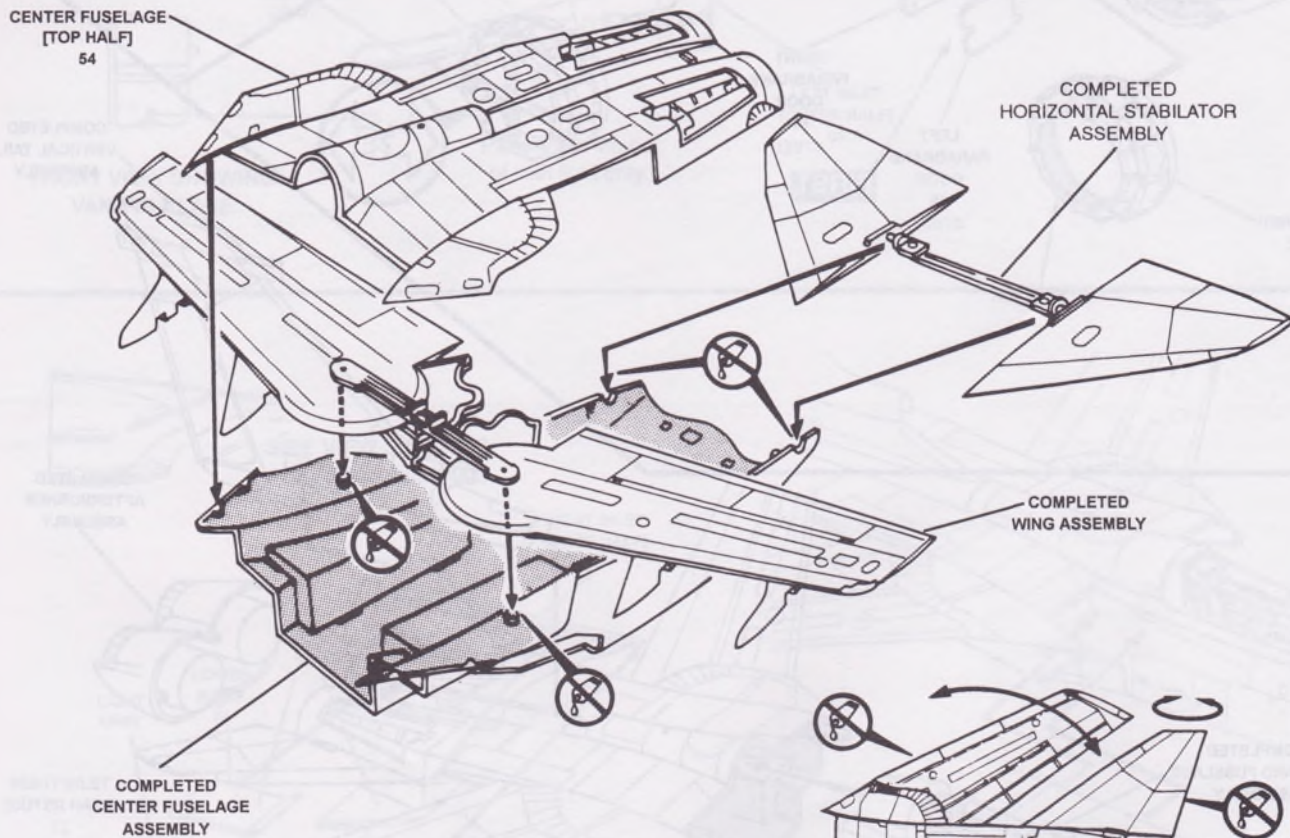
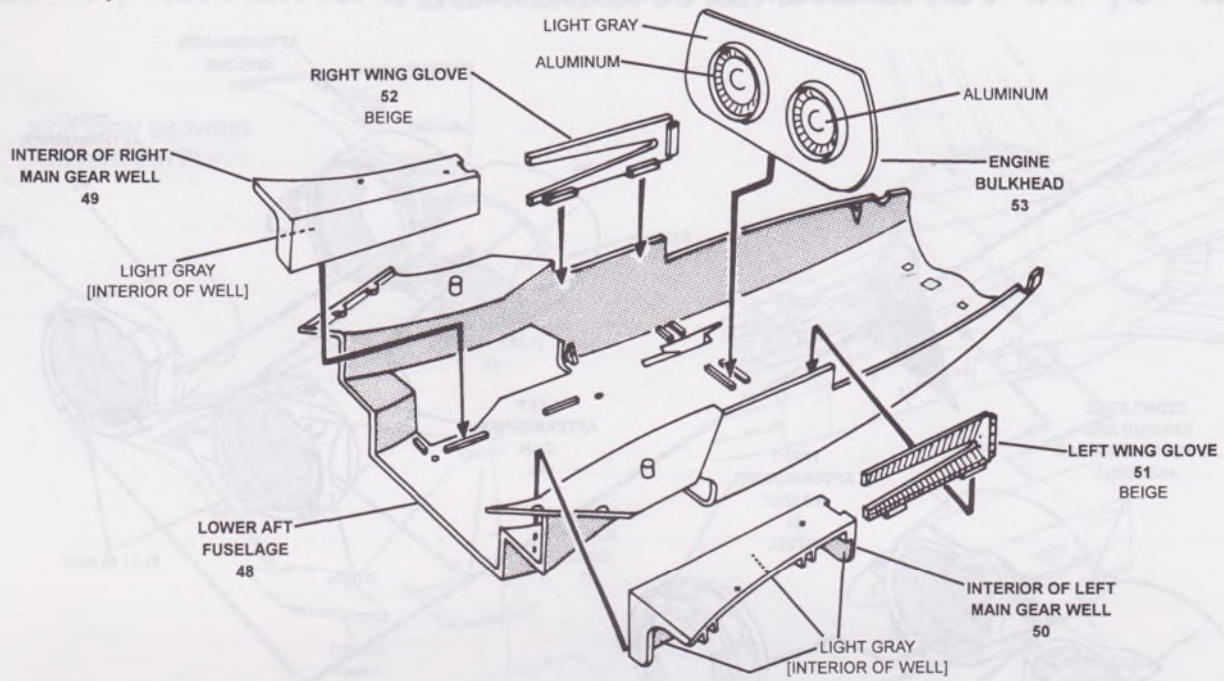
VERTICAL TAIL
[LEFT HALF]
55

PARABRAKE HOUSING
[RIGHT HALF]
60
STEEL

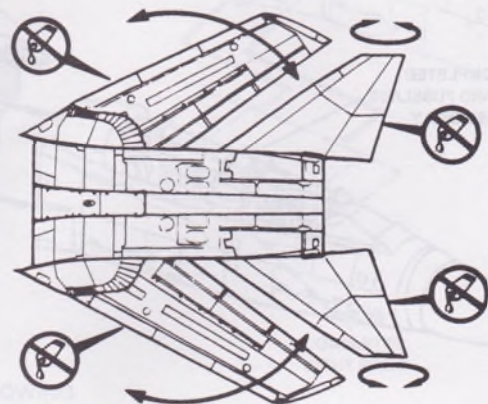
PARABRAKE HOUSING
[LEFT HALF]
59
STEEL



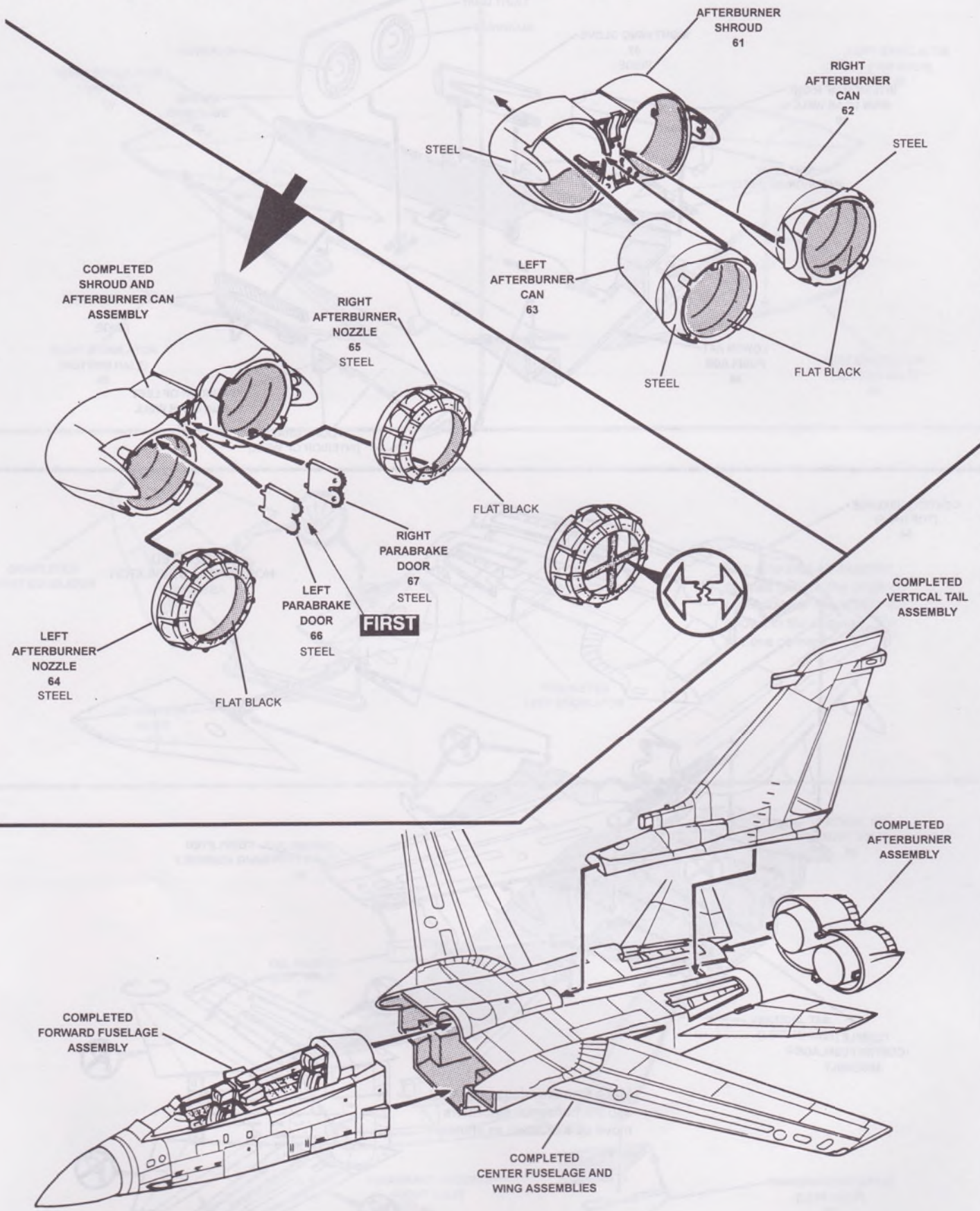
STEP 5, CENTER FUSELAGE ASSEMBLY



Make sure the wings operate and the horizontal stabilators move up and down as shown.

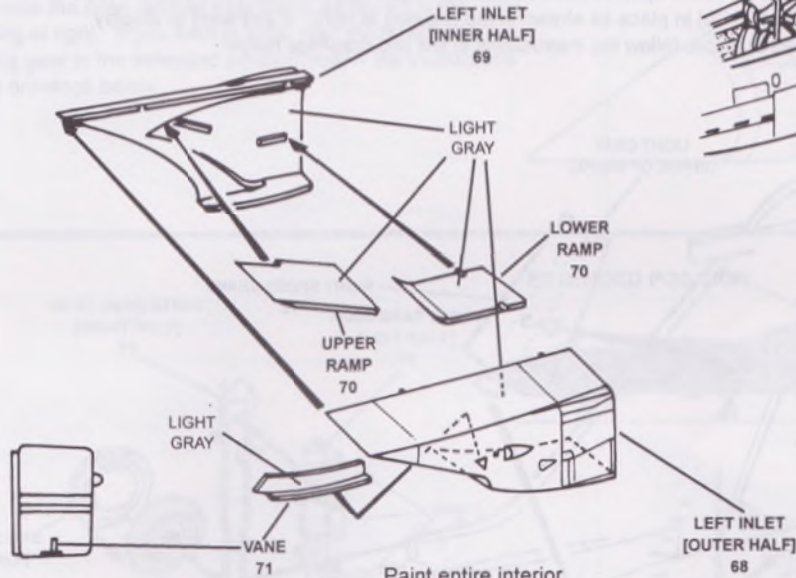
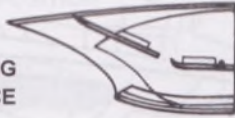


STEP 6, AFTERBURNER ASSEMBLY

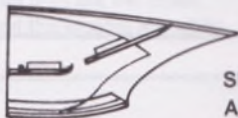
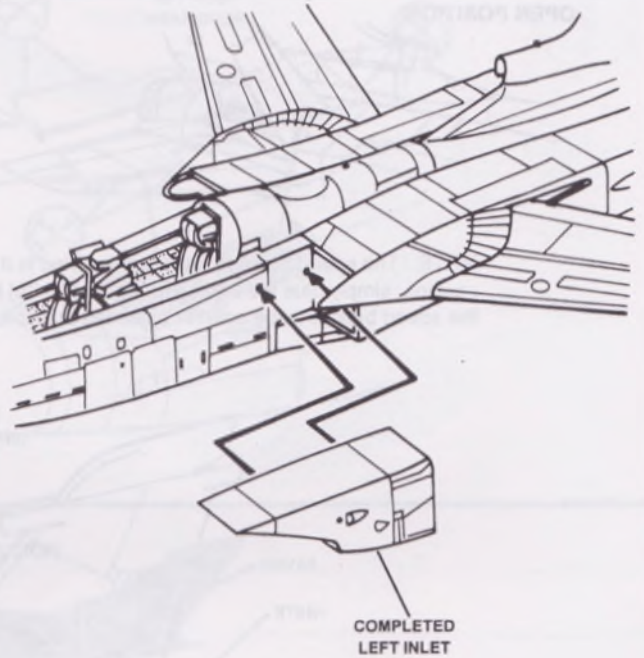


STEP 7, ENGINE INLET ASSEMBLIES

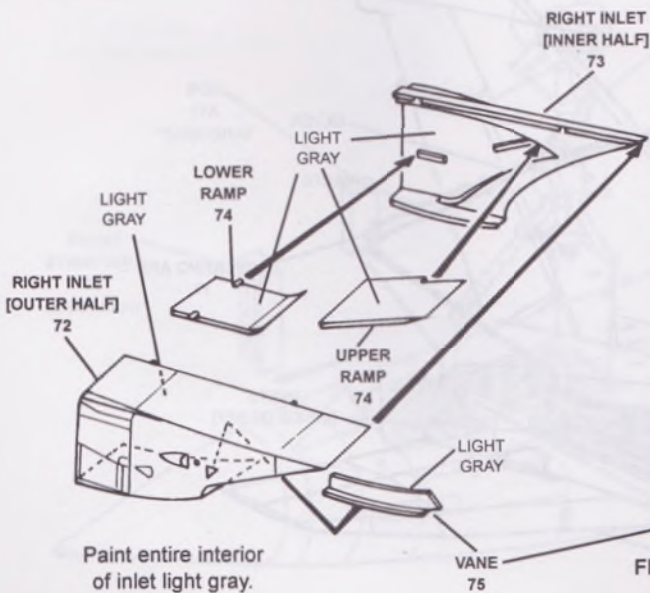
SIDE VIEW SHOWING ALL PARTS IN PLACE



FRONT VIEW SHOWING VANE IN PLACE

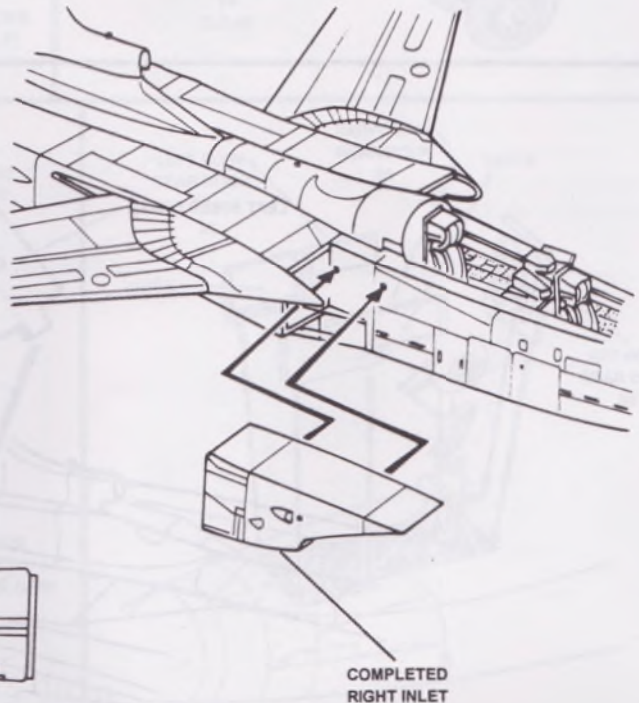


SIDE VIEW SHOWING ALL PARTS IN PLACE



Paint entire interior of inlet light gray.

FRONT VIEW SHOWING VANE IN PLACE

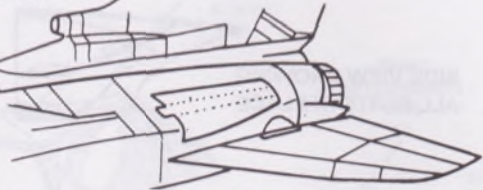
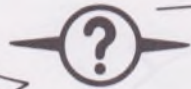


STEP 8, SPEED BRAKE ASSEMBLIES

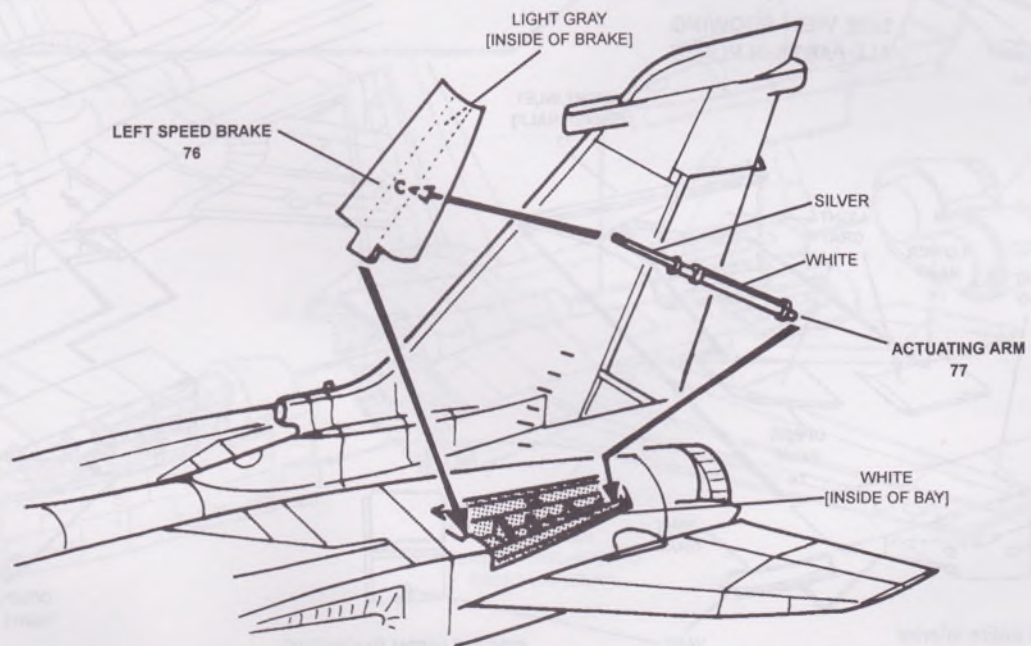
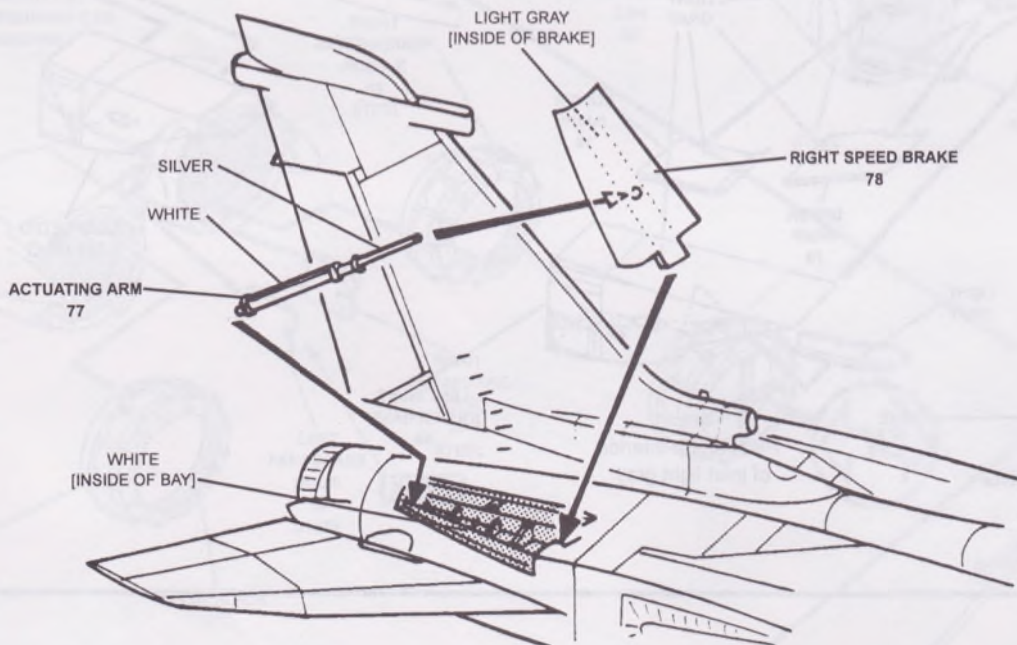
OPEN POSITION



CLOSED POSITION

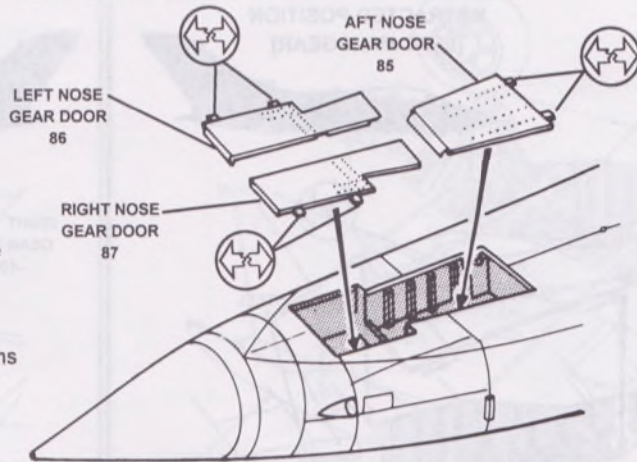
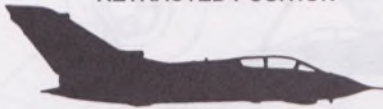


NOTE: The speed brakes may be assembled in the open or closed position. If you wish to build them in the closed position, simply glue the brakes (parts 76 and 78) in place as shown in the drawing at right. If you want to display the speed brakes in the open or extended position, follow the instructions in the two drawings below.



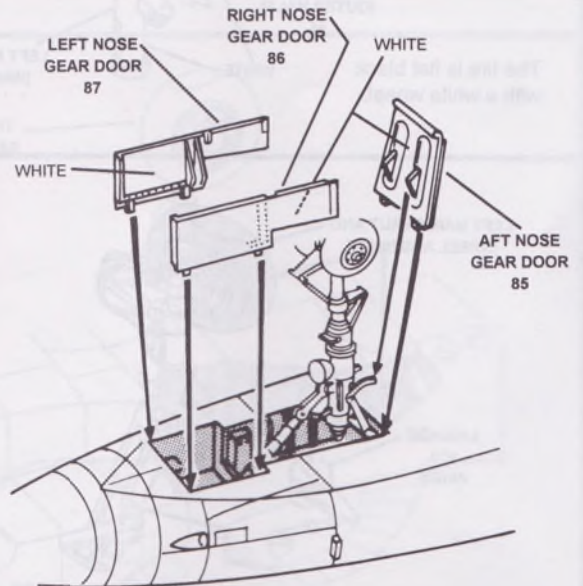
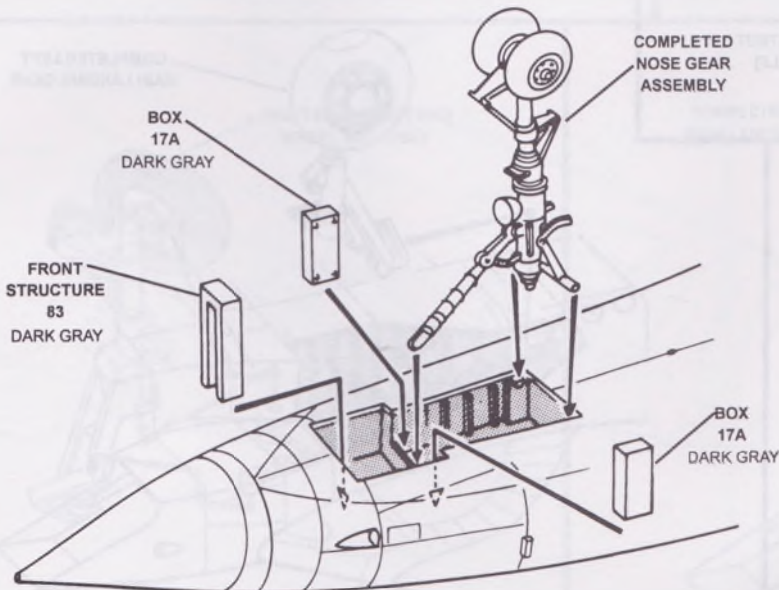
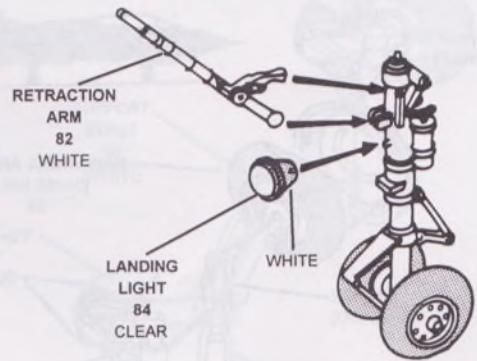
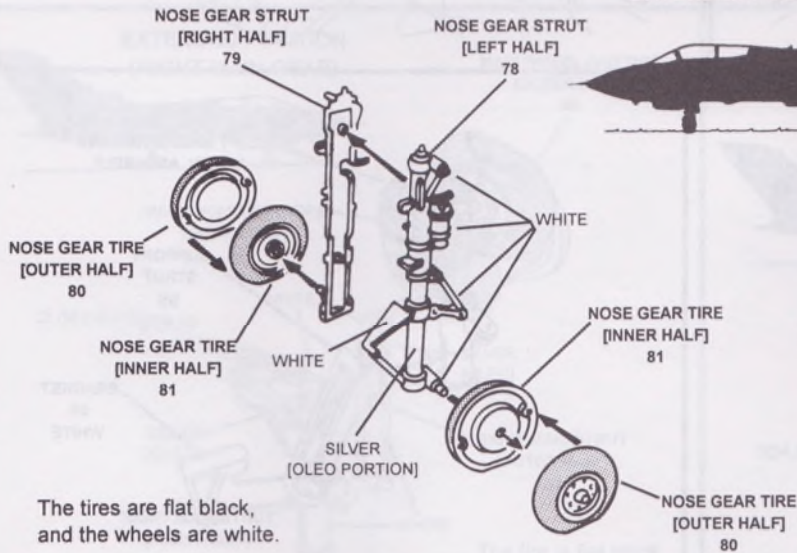
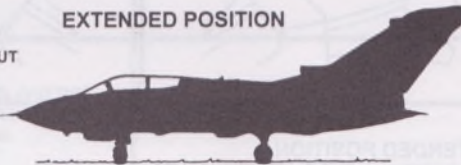
STEP 9, NOSE LANDING GEAR ASSEMBLY

RETRACTED POSITION



You may assemble the landing gear in the retracted or the extended position. If you choose the retracted position, assemble the nose landing gear doors as shown in the drawing at right. If you wish to build your model with the landing gear in the extended position, follow the instructions in the drawings below.

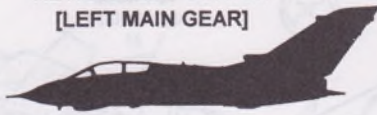
EXTENDED POSITION



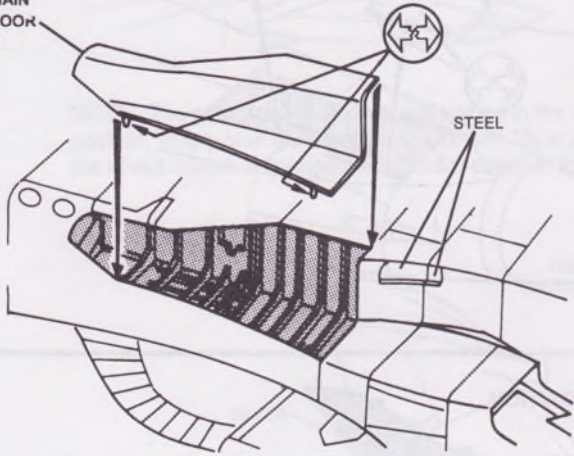
STEP 10, MAIN LANDING GEAR ASSEMBLIES



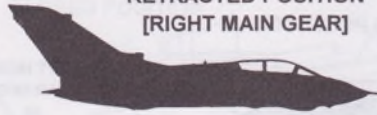
RETRACTED POSITION
[LEFT MAIN GEAR]



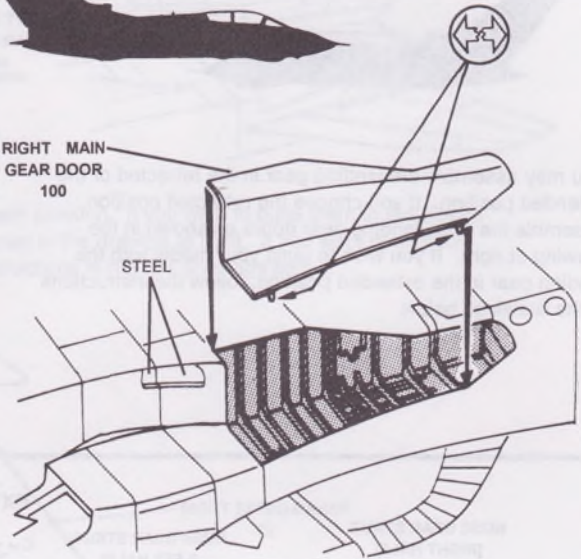
LEFT MAIN
GEAR DOOR
101



RETRACTED POSITION
[RIGHT MAIN GEAR]



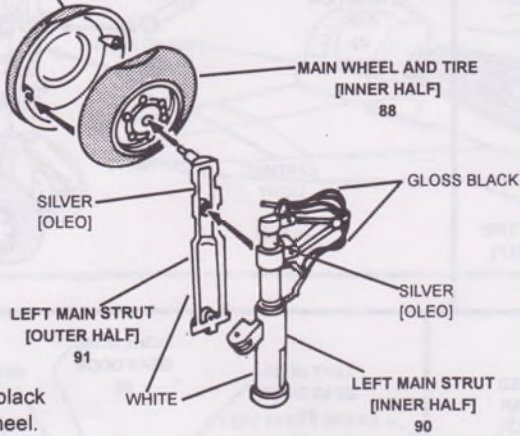
RIGHT MAIN
GEAR DOOR
100



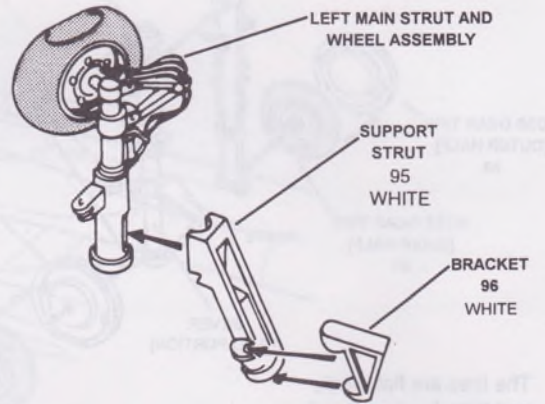
EXTENDED POSITION
[LEFT MAIN GEAR]



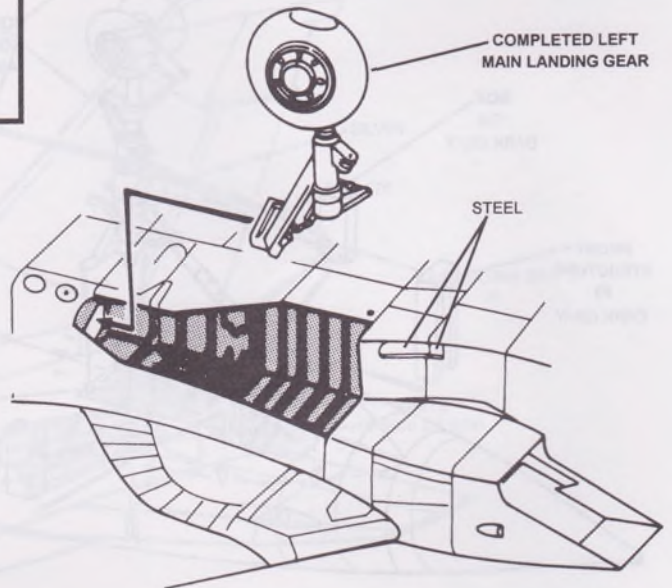
MAIN WHEEL AND TIRE
[OUTER HALF]
89



The tire is flat black with a white wheel.

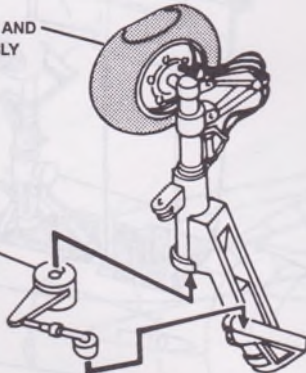


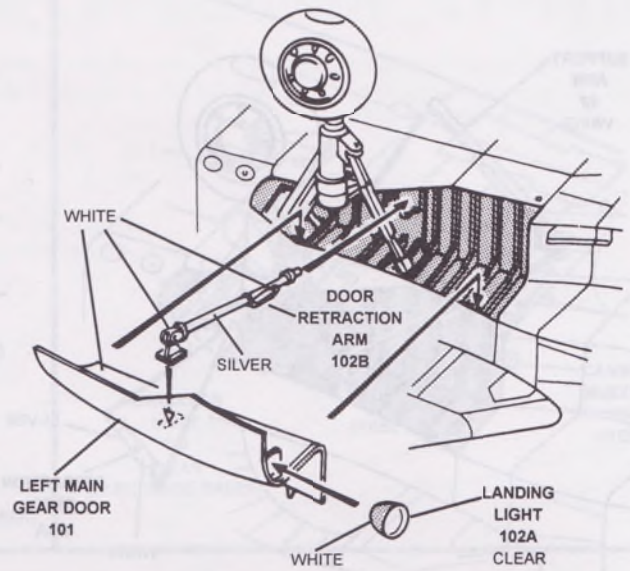
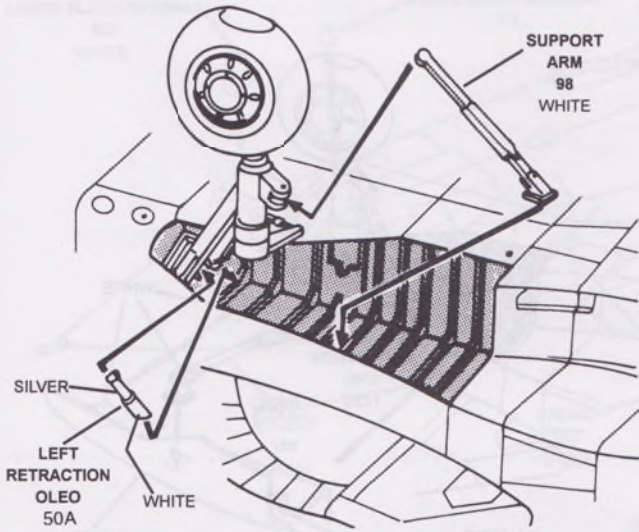
COMPLETED LEFT
MAIN LANDING GEAR



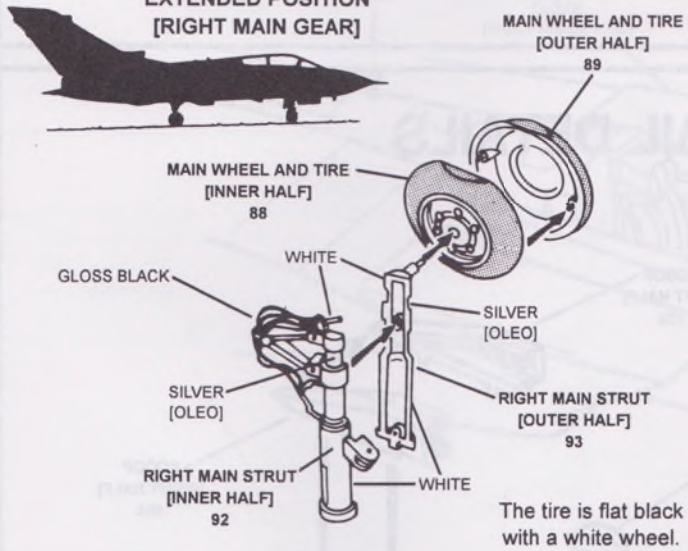
LEFT MAIN STRUT AND
WHEEL ASSEMBLY

LINKAGE
92A
WHITE

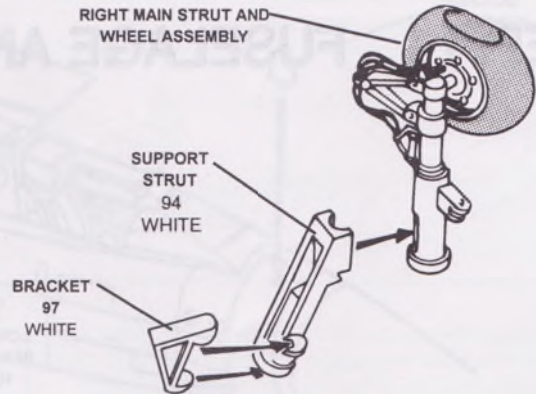




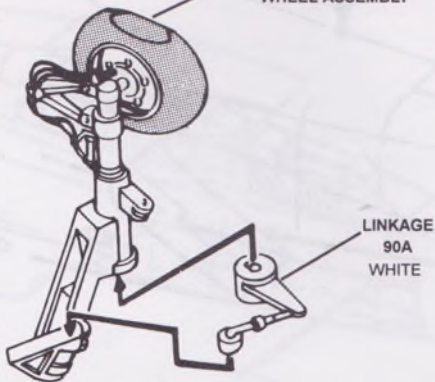
**EXTENDED POSITION
[RIGHT MAIN GEAR]**



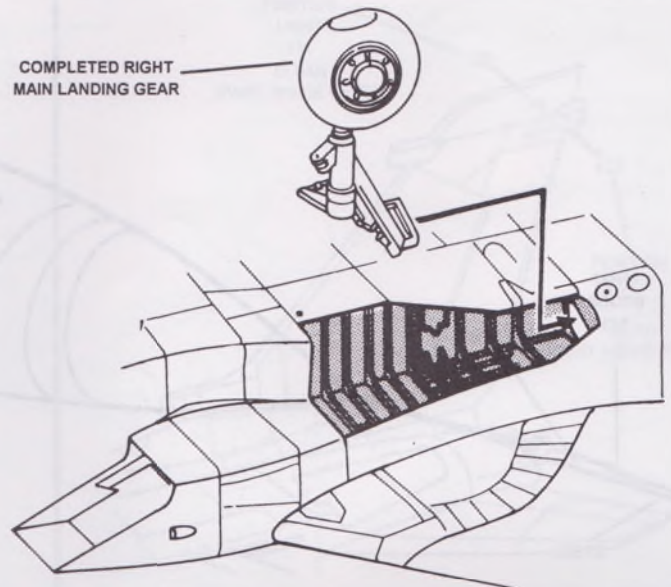
**RIGHT MAIN STRUT AND
WHEEL ASSEMBLY**



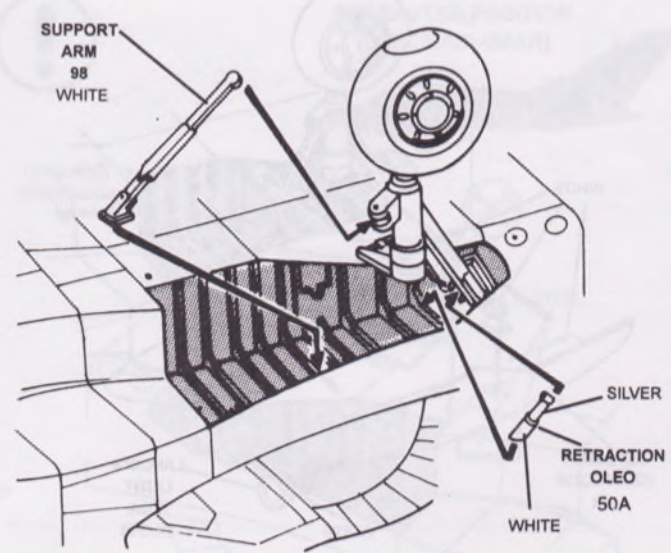
**RIGHT MAIN STRUT AND
WHEEL ASSEMBLY**



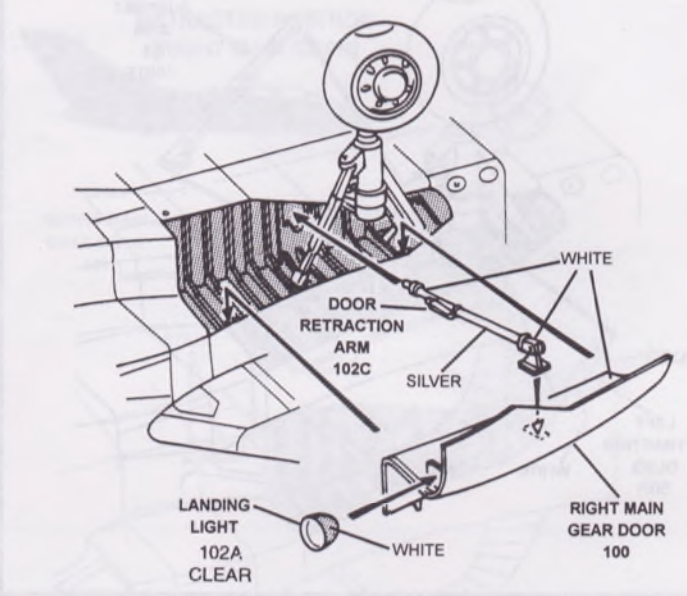
**COMPLETED RIGHT
MAIN LANDING GEAR**



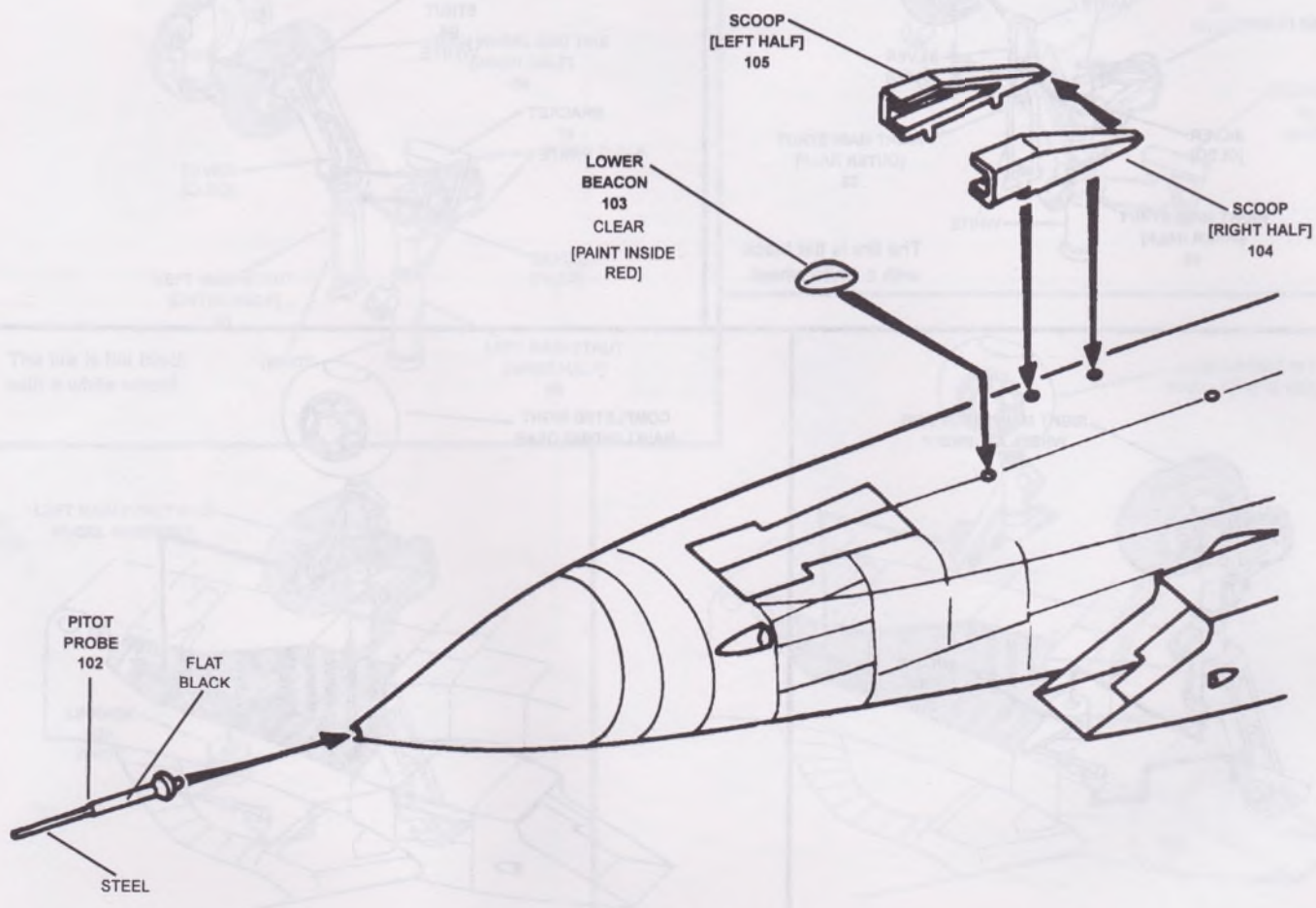
STEP 10, MAIN LANDING GEAR ASSEMBLY

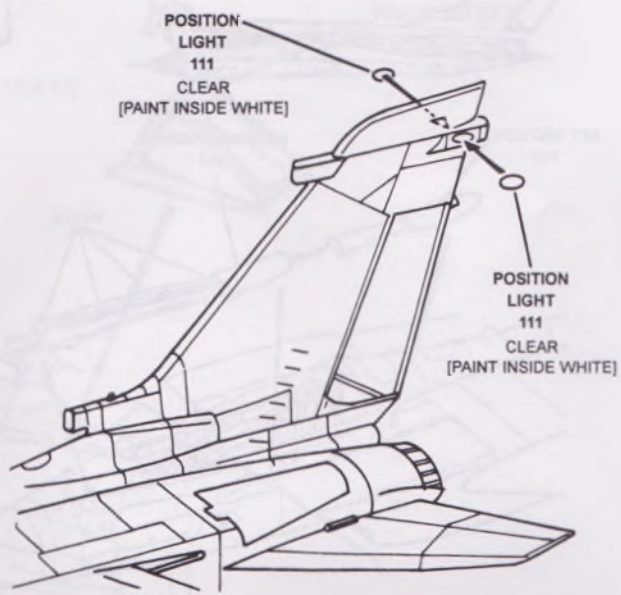
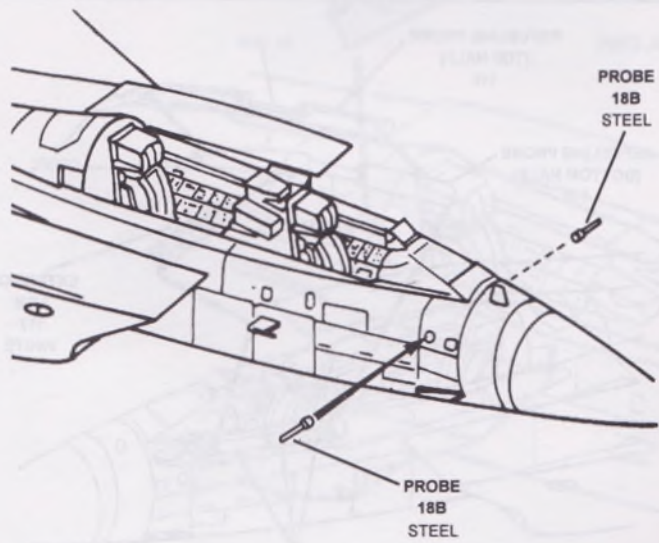
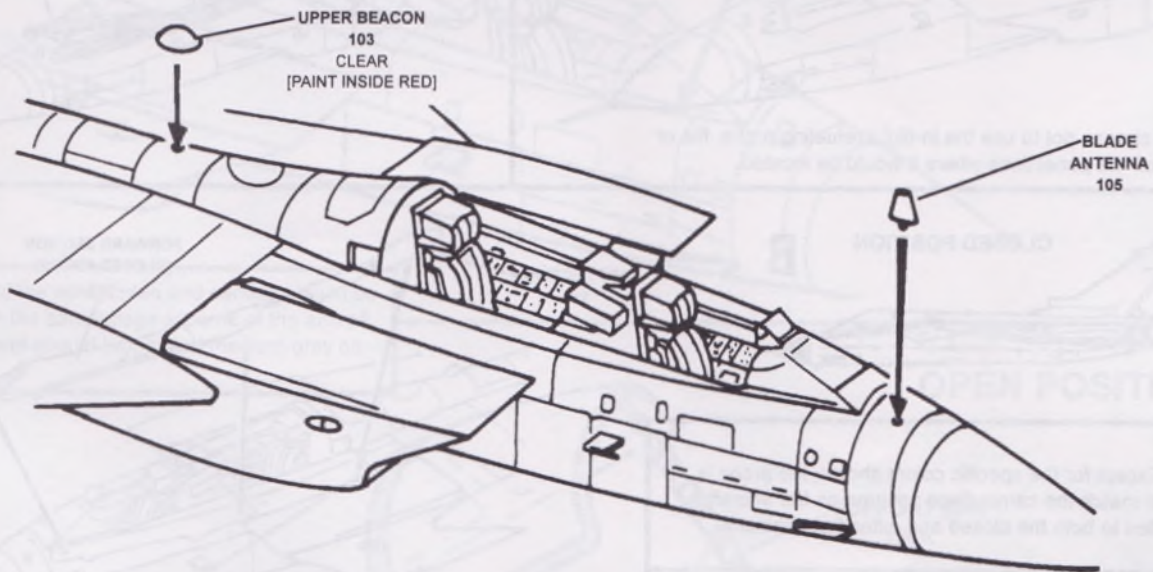
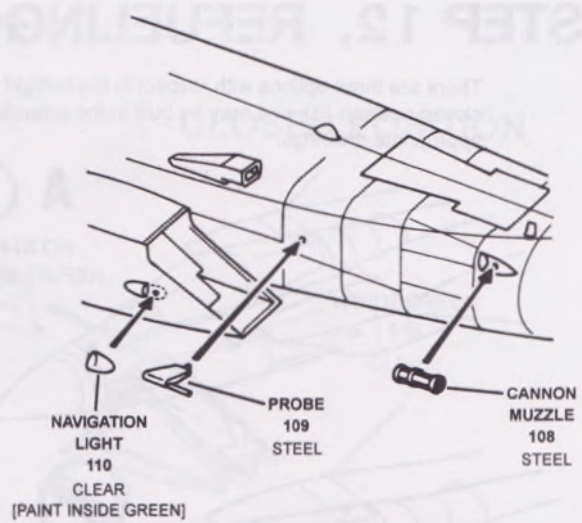
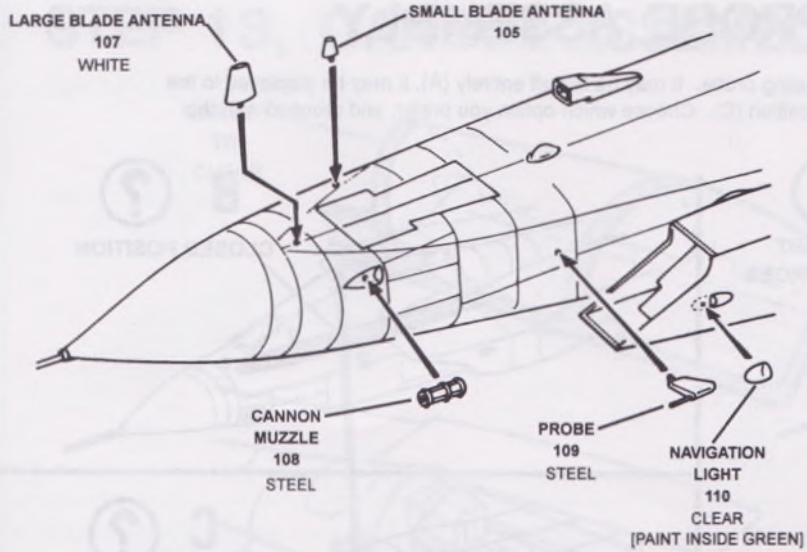


STEP 10, MAIN LANDING GEAR ASSEMBLY



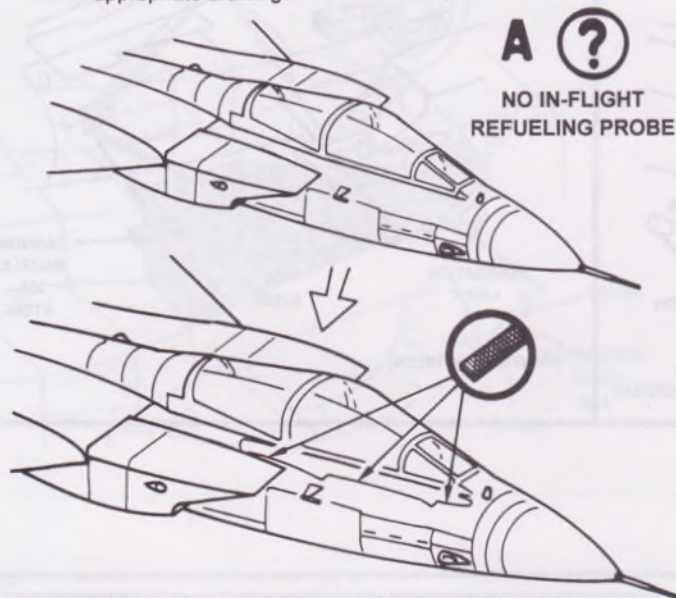
STEP 11, FUSELAGE AND TAIL DETAILS



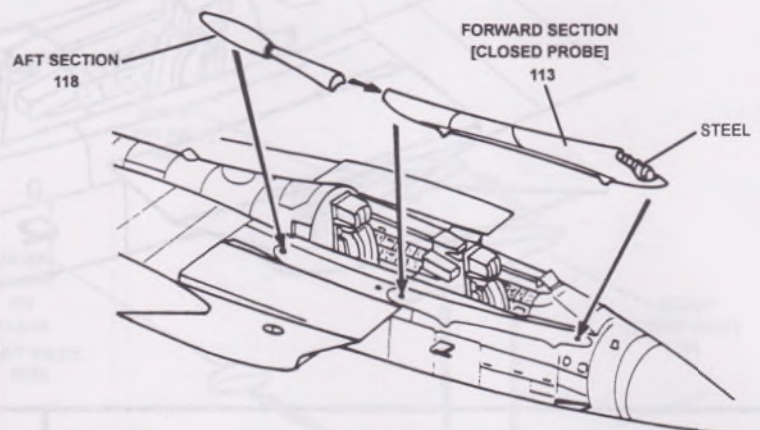
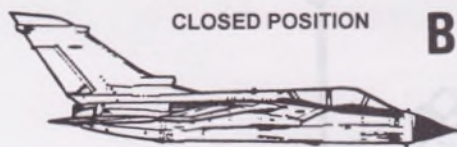
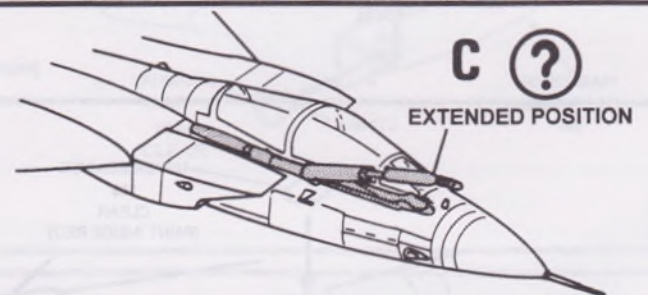
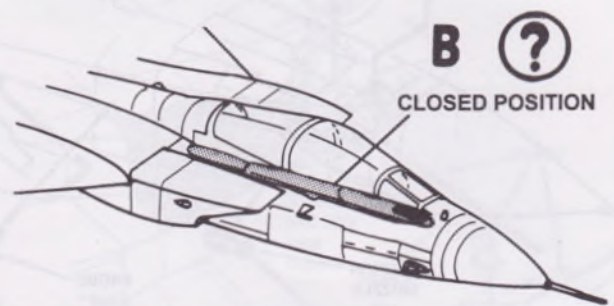


STEP 12, REFUELING PROBE ASSEMBLY

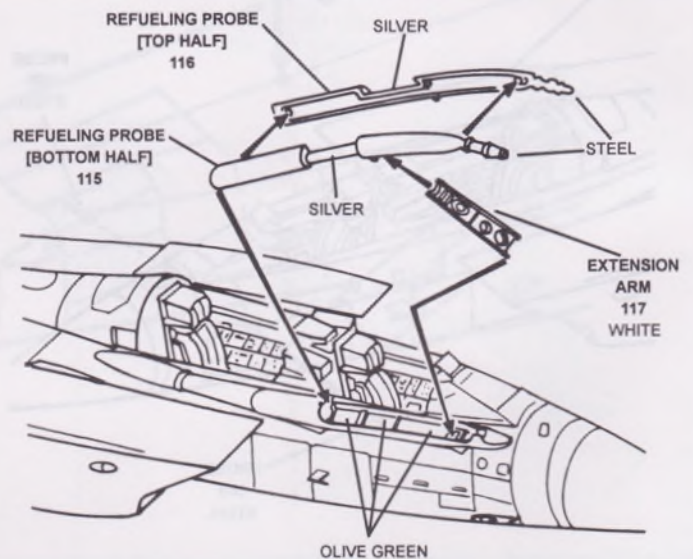
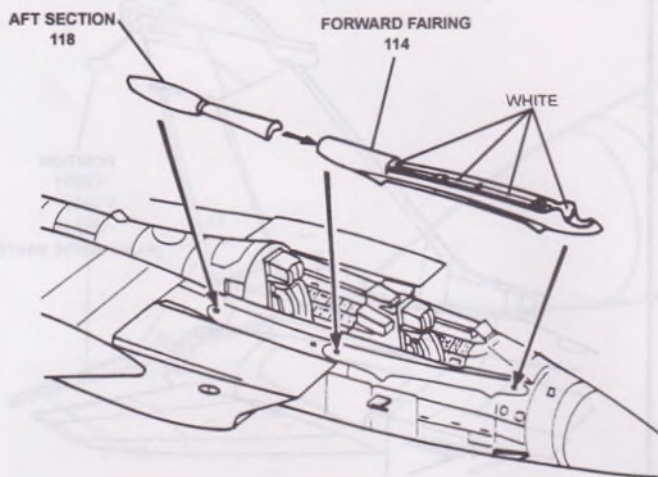
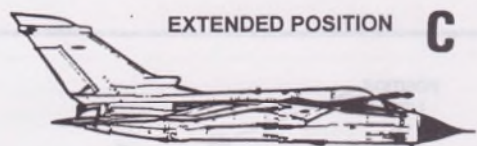
There are three options with respect to the in-flight refueling probe. It may be left off entirely (A), it may be displayed in the closed position (B), or it may be built in the extended position (C). Choose which option you prefer, and proceed with the appropriate drawings.



If you choose not to use the in-flight refueling probe, file or sand off the panel lines where it would be located.



NOTE: Except for the specific colors shown, the probe is painted to match the camouflage scheme on the aircraft. This applies to both the closed and extended positions.

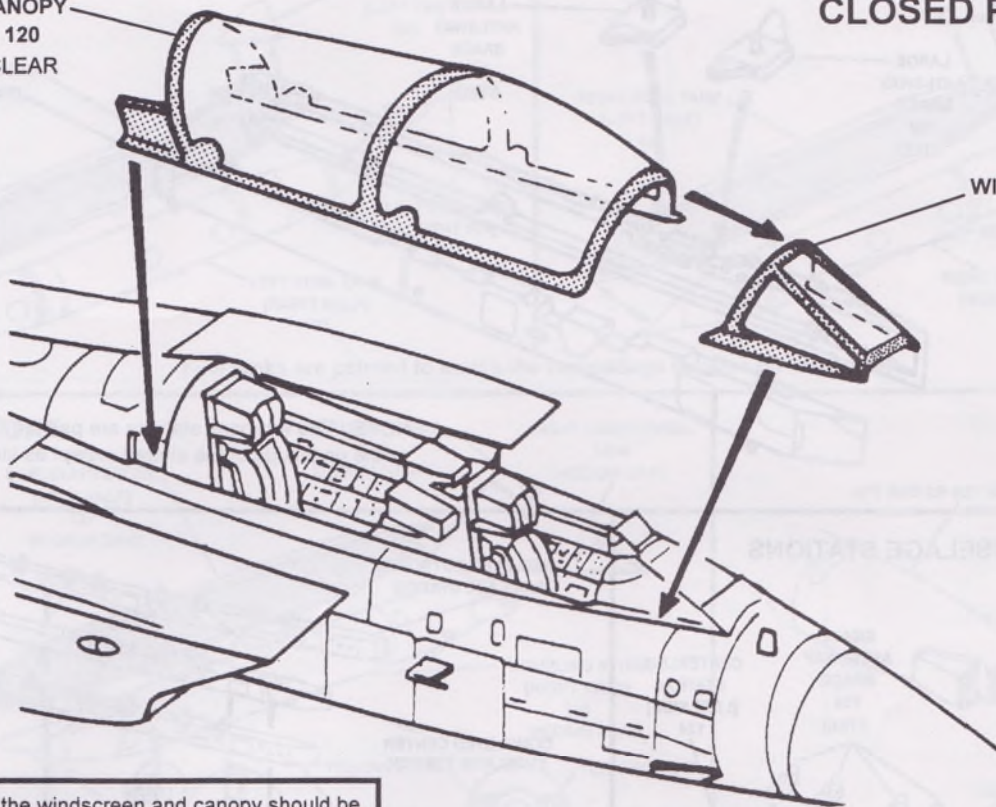


STEP 13, CANOPY ASSEMBLY

CANOPY
120
CLEAR

CLOSED POSITION

WINDSCREEN
119
CLEAR



The framework of the windscreen and canopy should be painted to match the camouflage scheme of the aircraft on the outside, and should be painted medium gray on the inside.

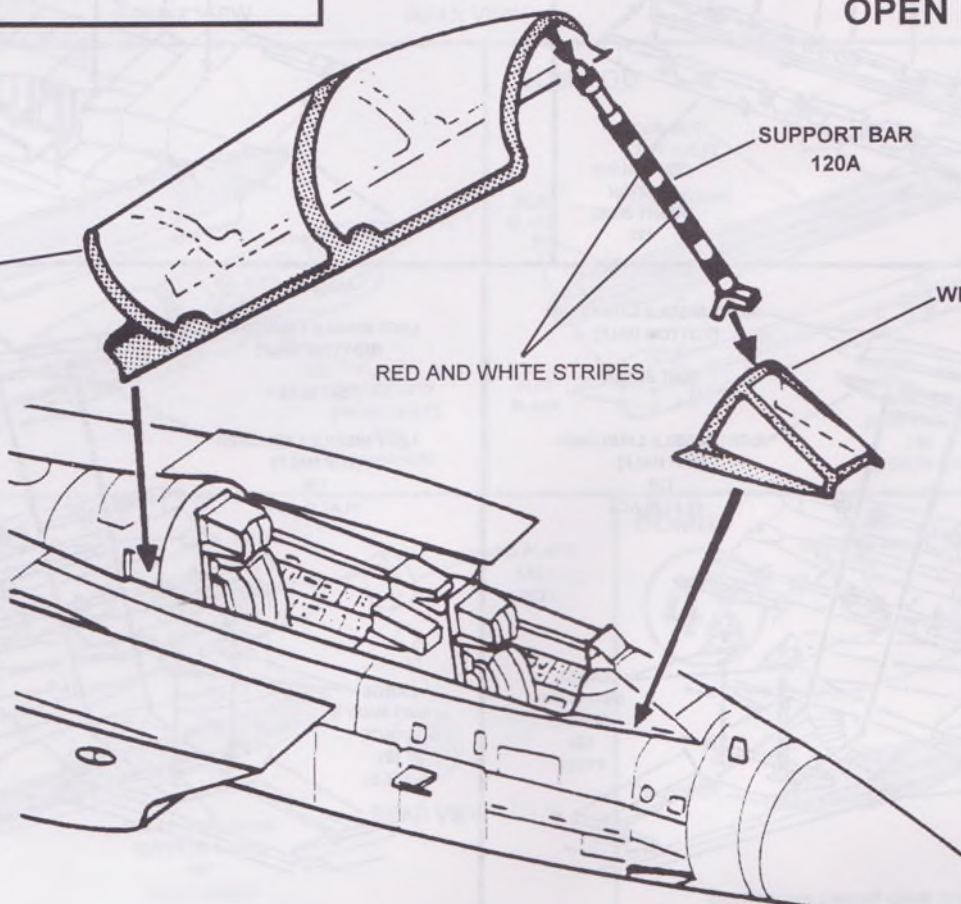
OPEN POSITION

CANOPY
120
CLEAR

SUPPORT BAR
120A

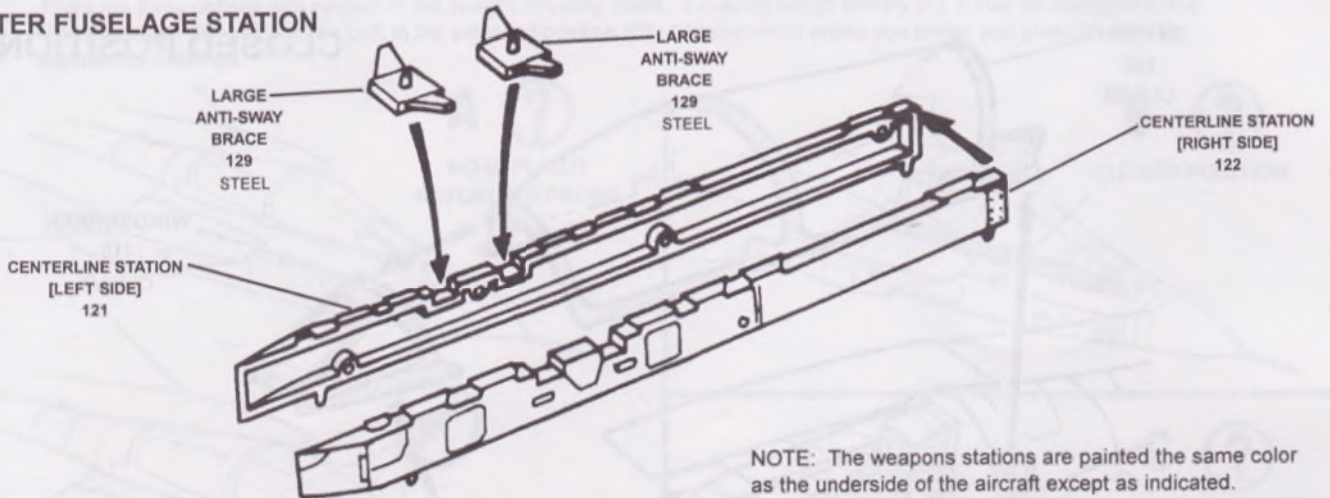
WINDSCREEN
119
CLEAR

RED AND WHITE STRIPES



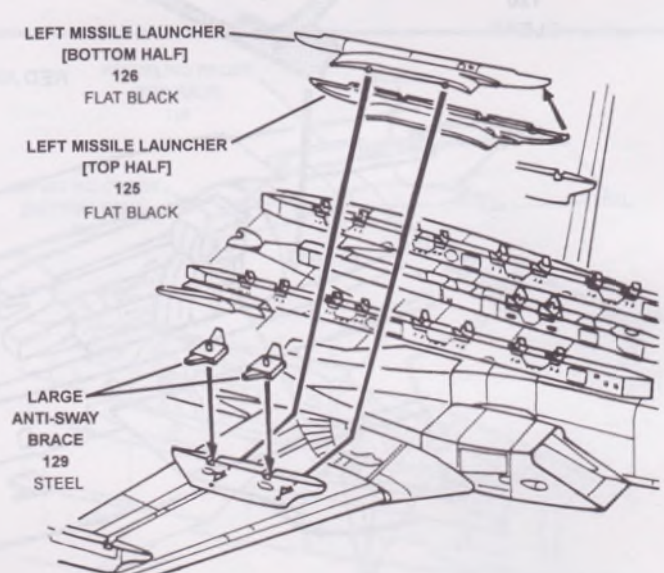
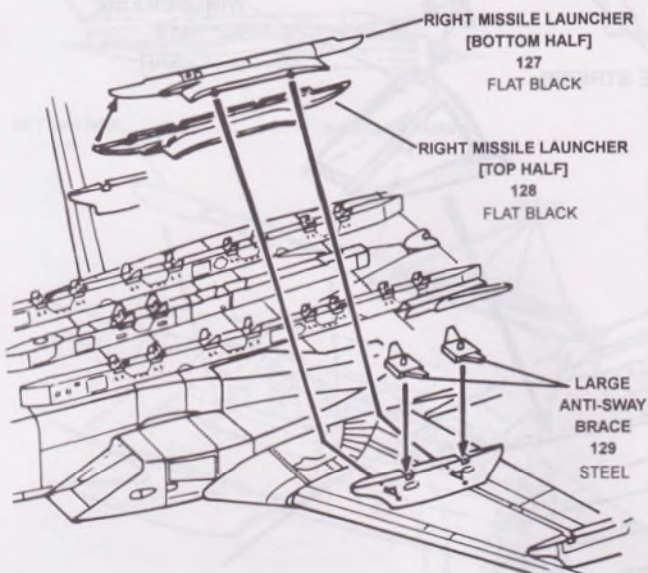
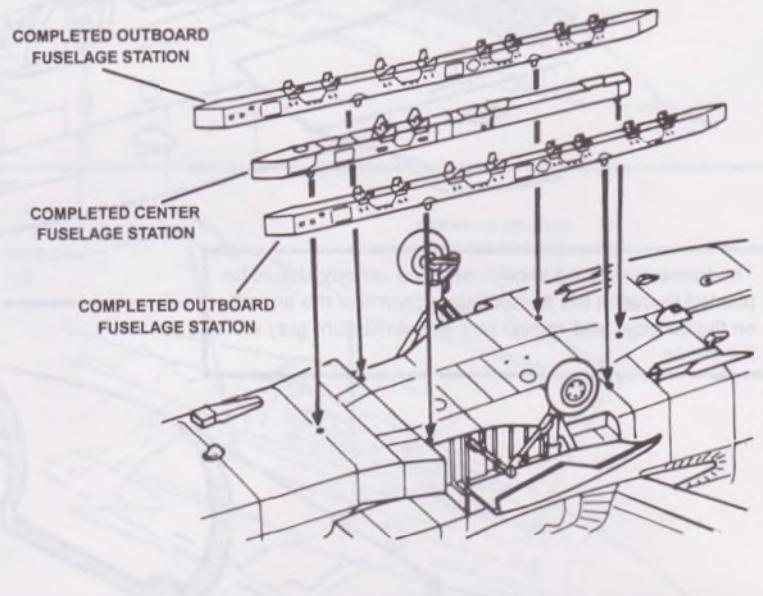
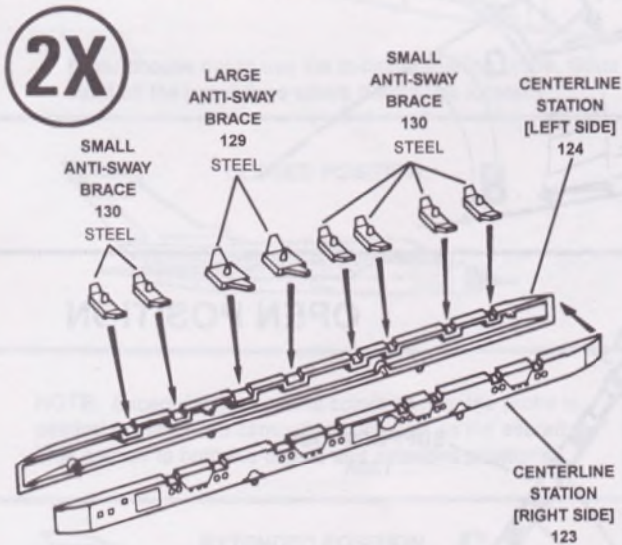
STEP 14, WEAPONS STATION ASSEMBLIES

CENTER FUSELAGE STATION



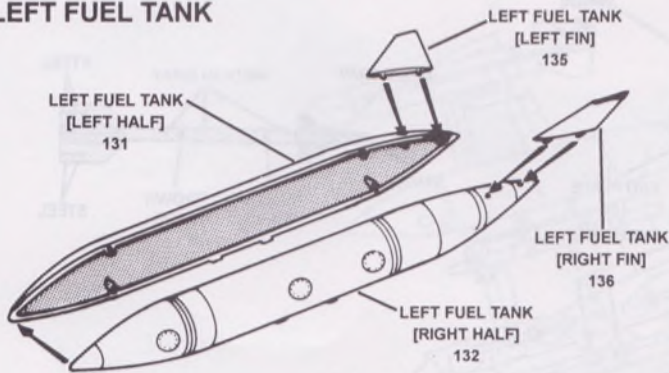
NOTE: The weapons stations are painted the same color as the underside of the aircraft except as indicated.

OUTBOARD FUSELAGE STATIONS

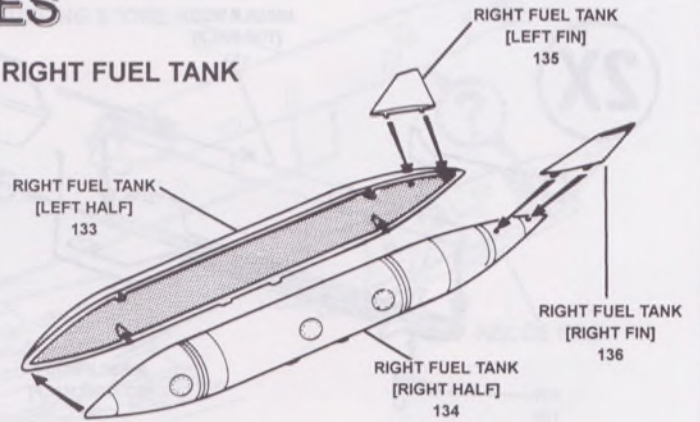


STEP 15, EXTERNAL STORES

LEFT FUEL TANK

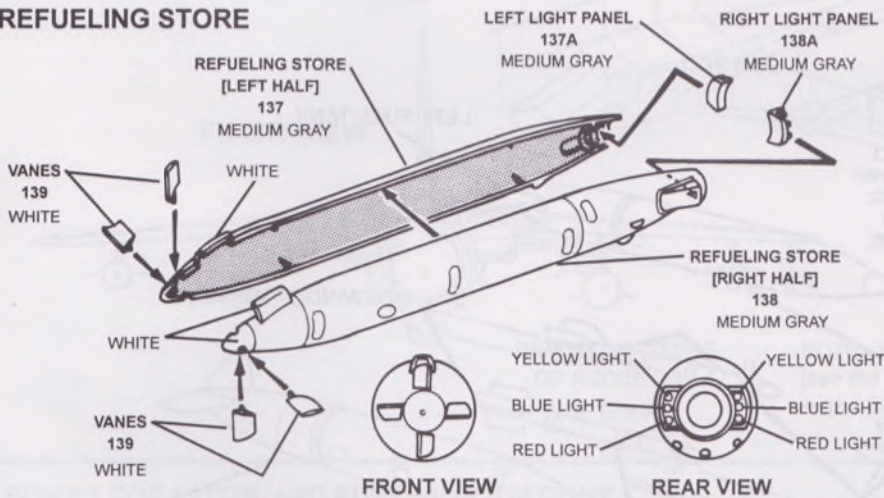


RIGHT FUEL TANK

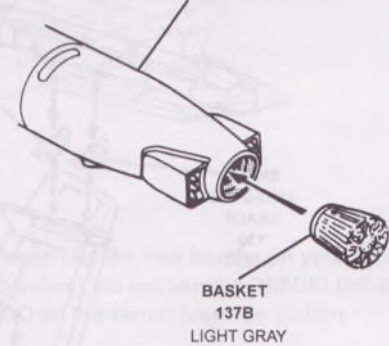


Fuel tanks are painted to match the camouflage scheme on the aircraft.

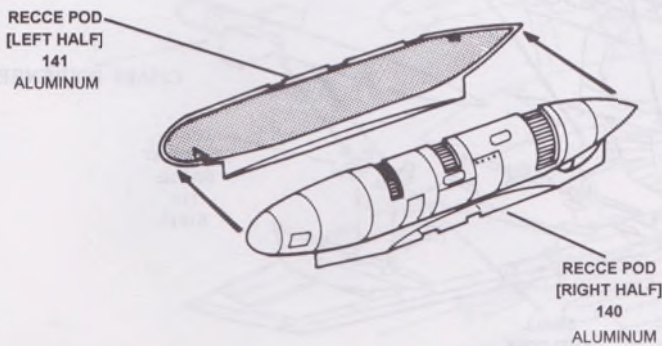
REFUELING STORE



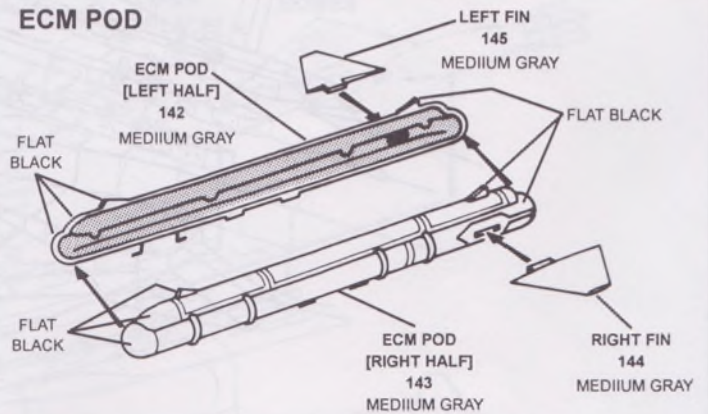
AFT END OF REFUELING STORE



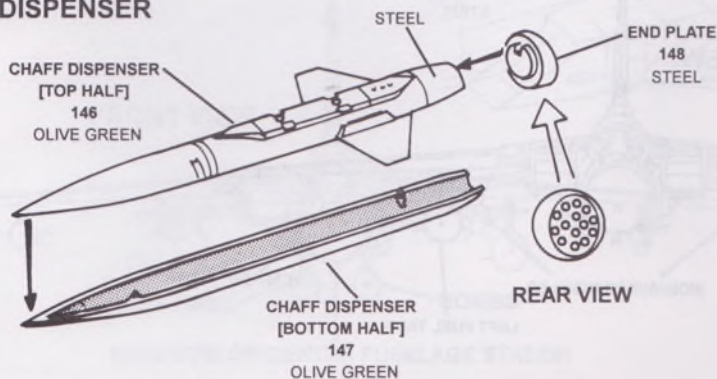
RECCE POD



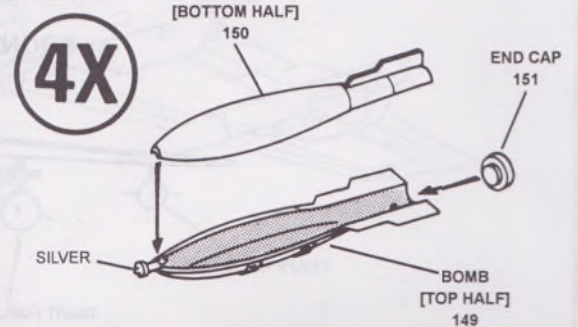
ECM POD



CHAFF DISPENSER



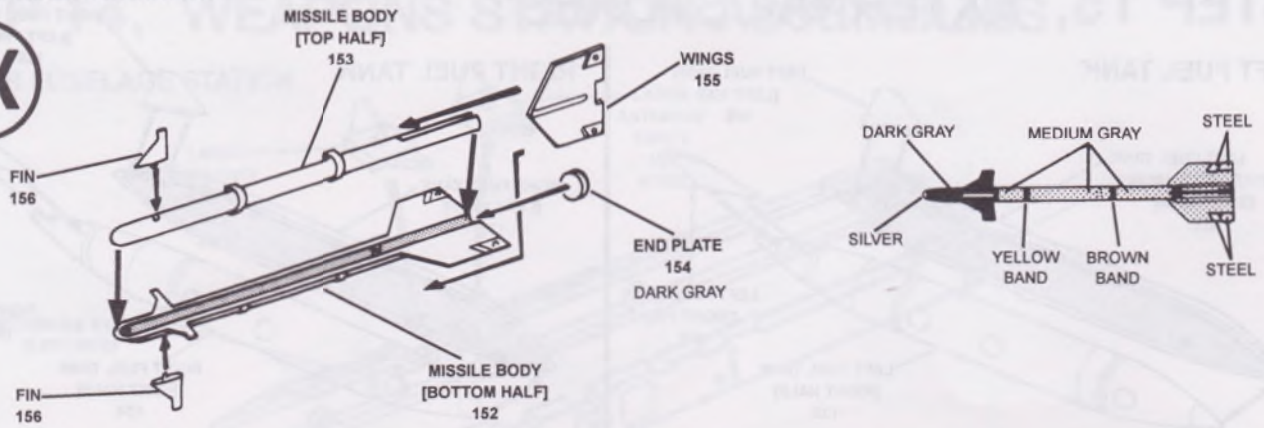
BOMBS



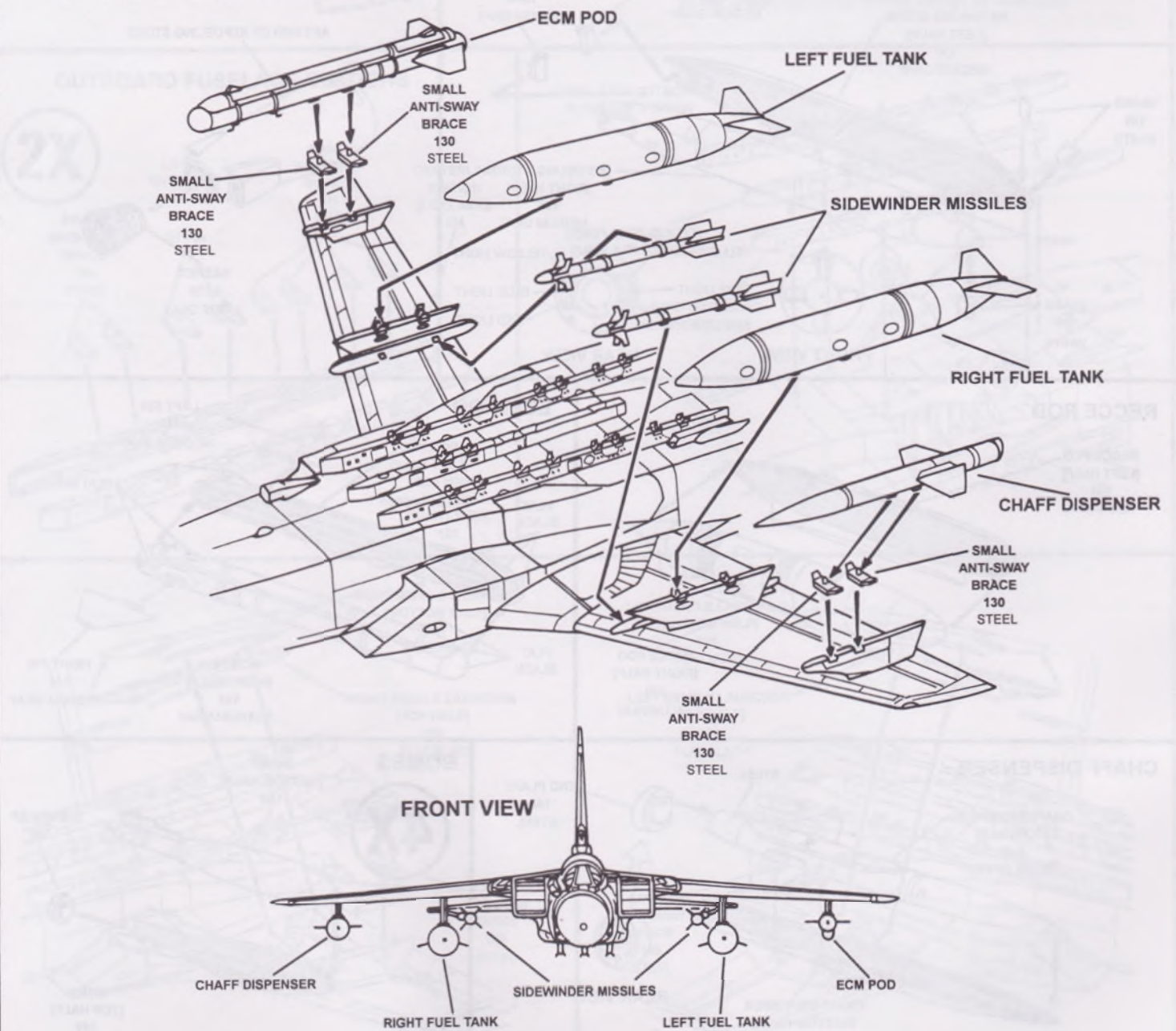
Bombs are overall olive drab with silver fuses.

SIDEWINDER MISSILES

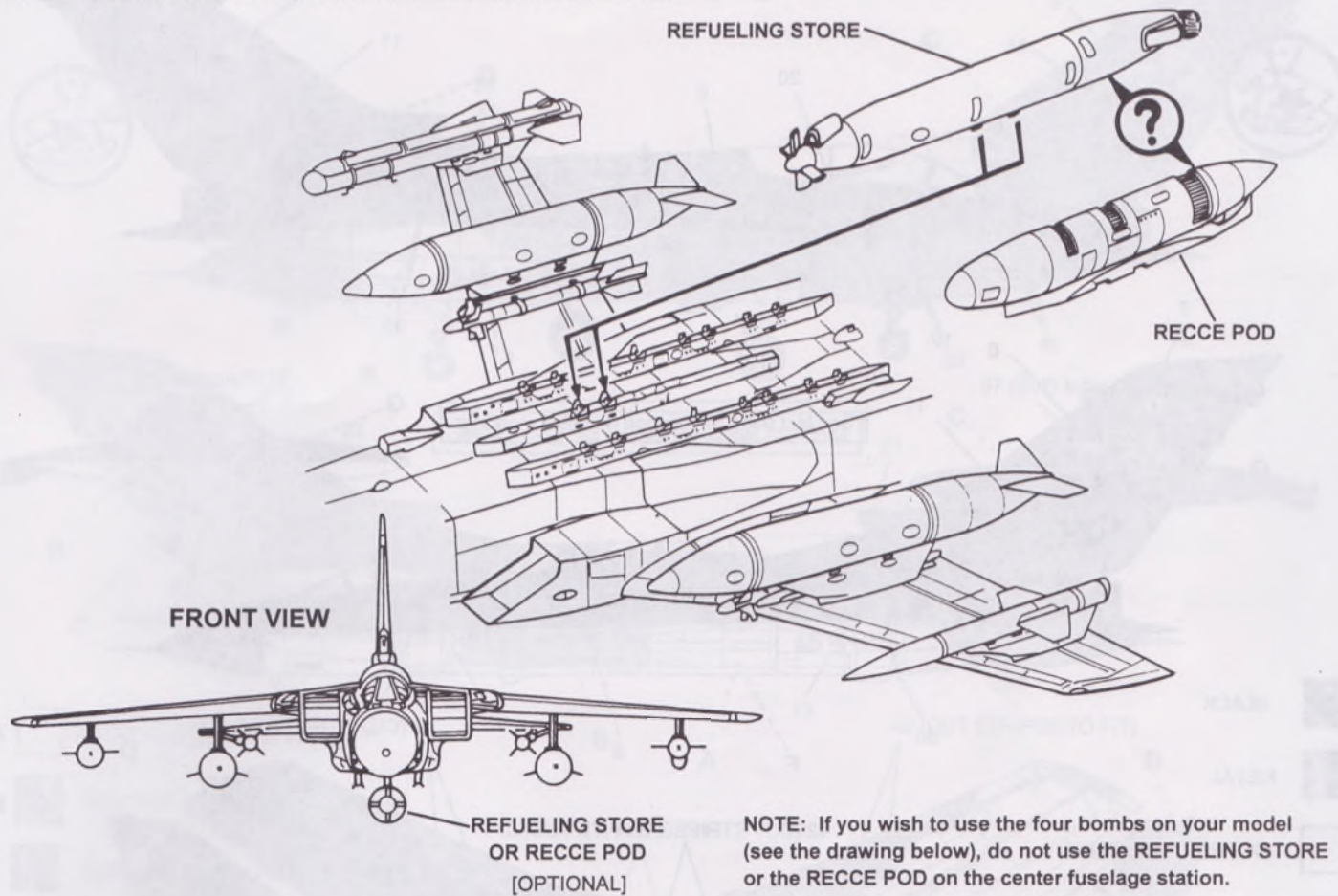
2X



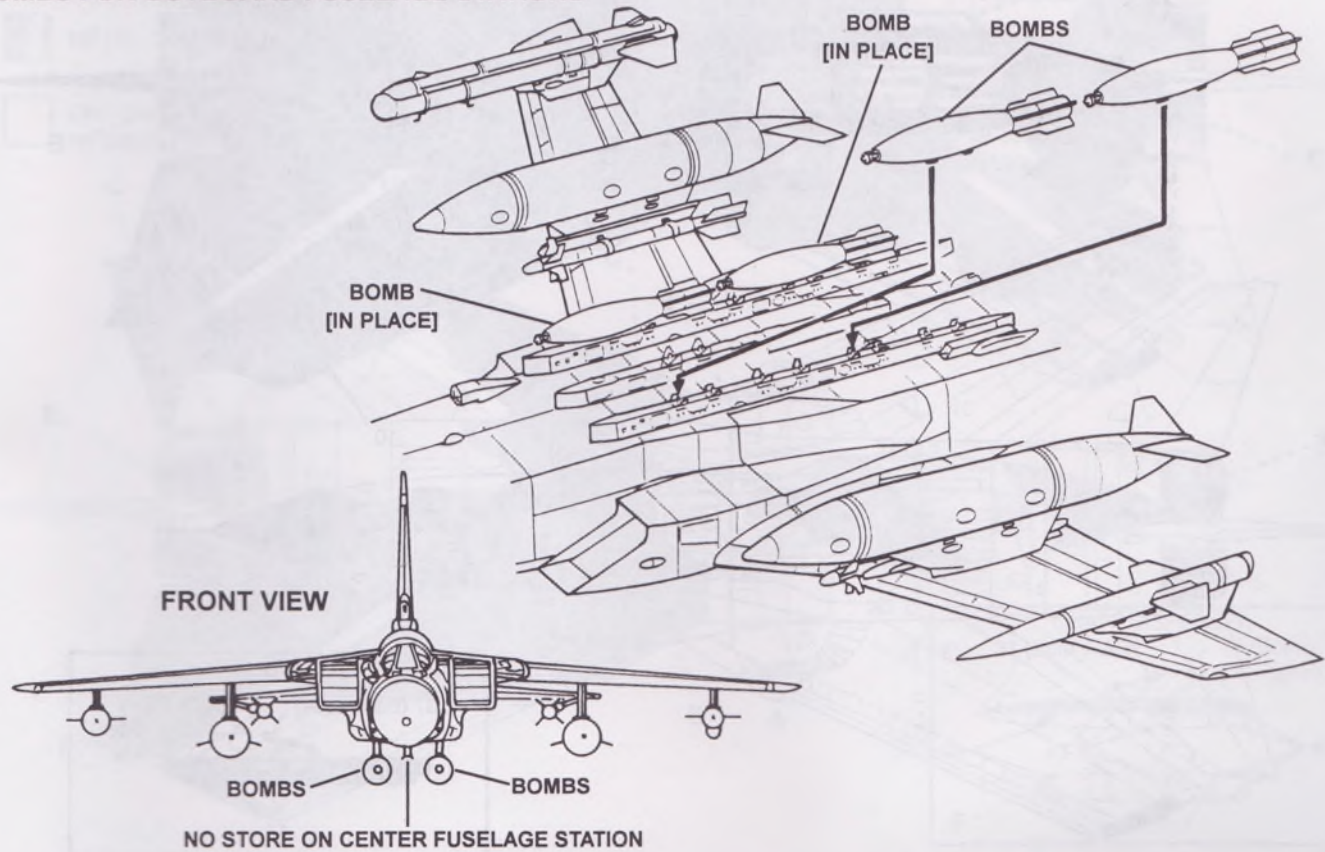
STORES FOR UNDER-WING STATIONS



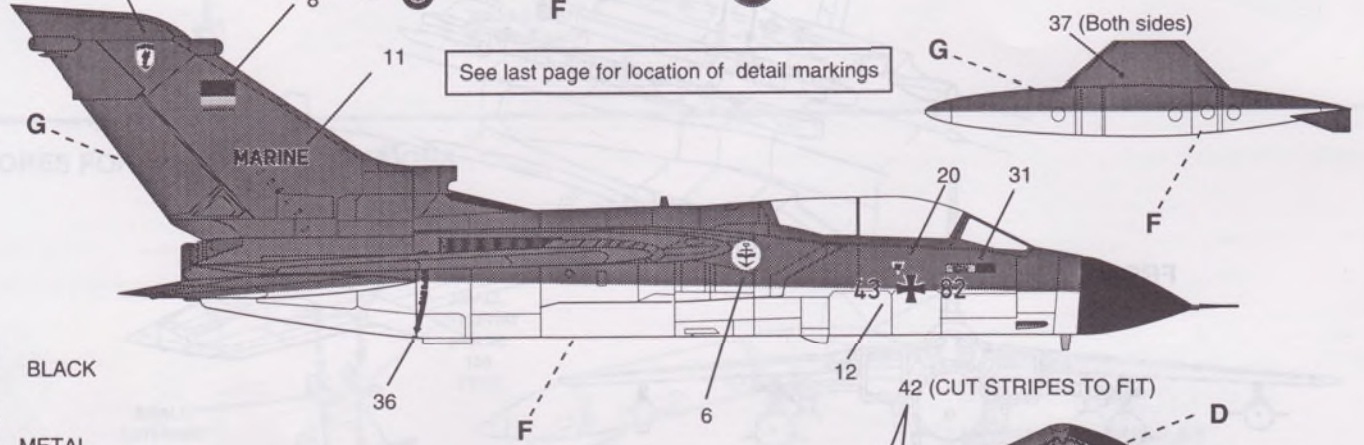
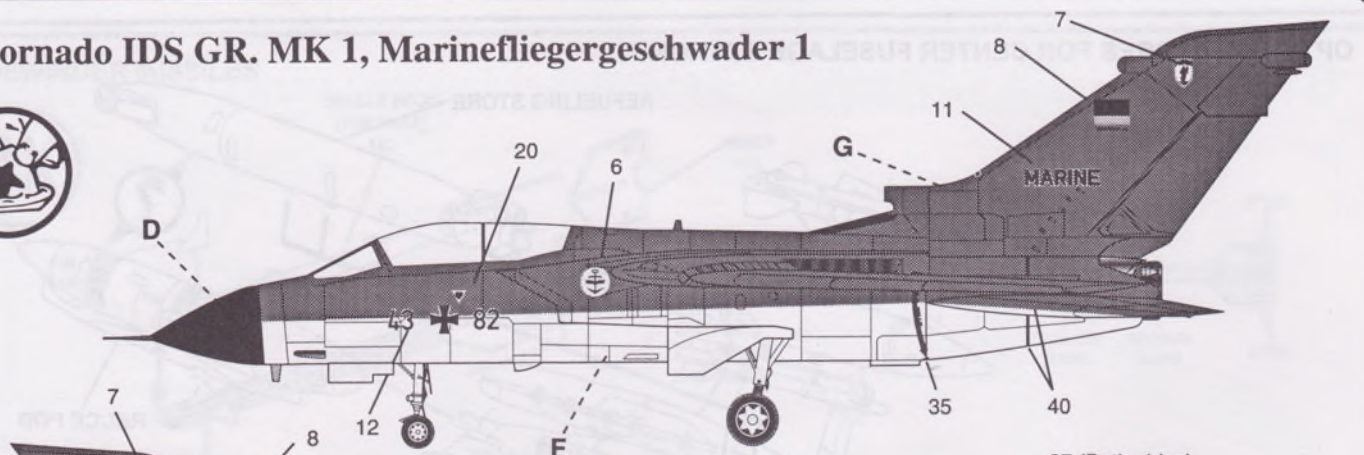
OPTIONAL STORES FOR CENTER FUSELAGE STATION



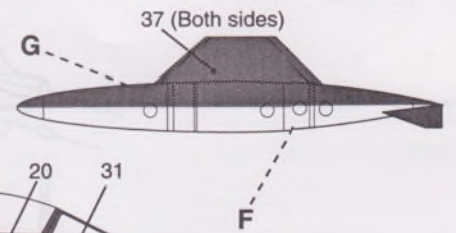
BOMBS FOR OUTBOARD FUSELAGE STATIONS



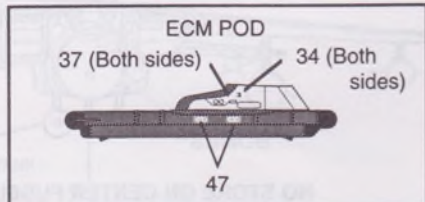
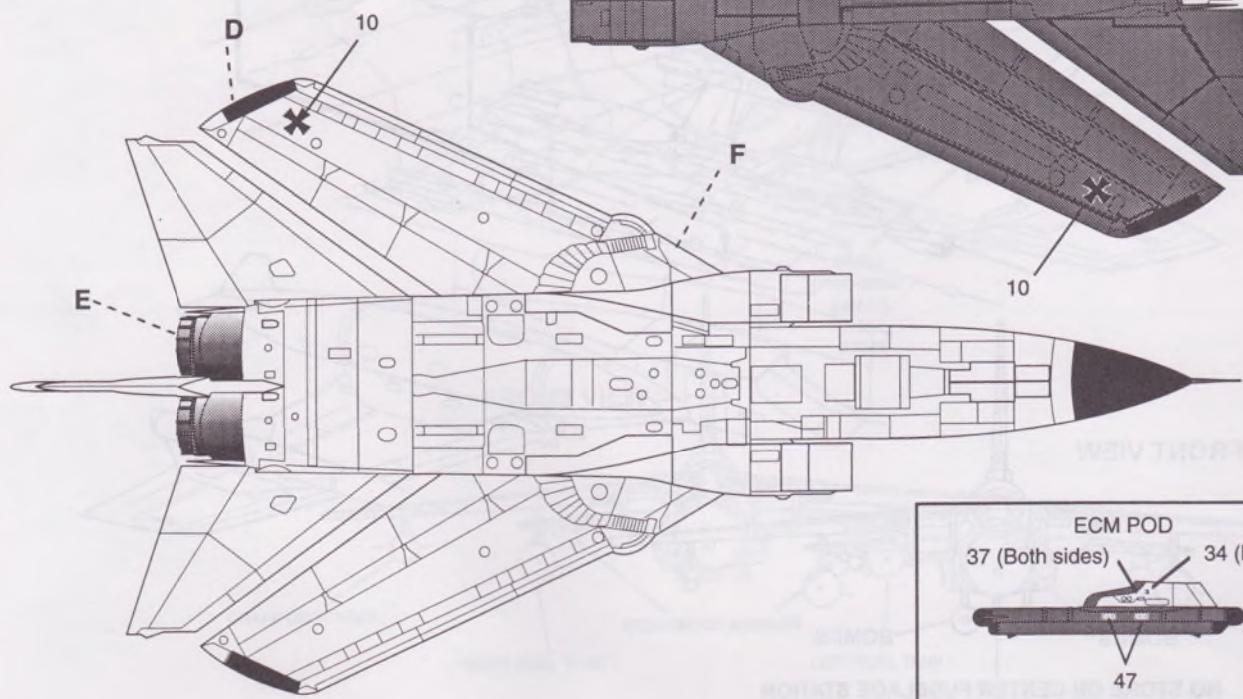
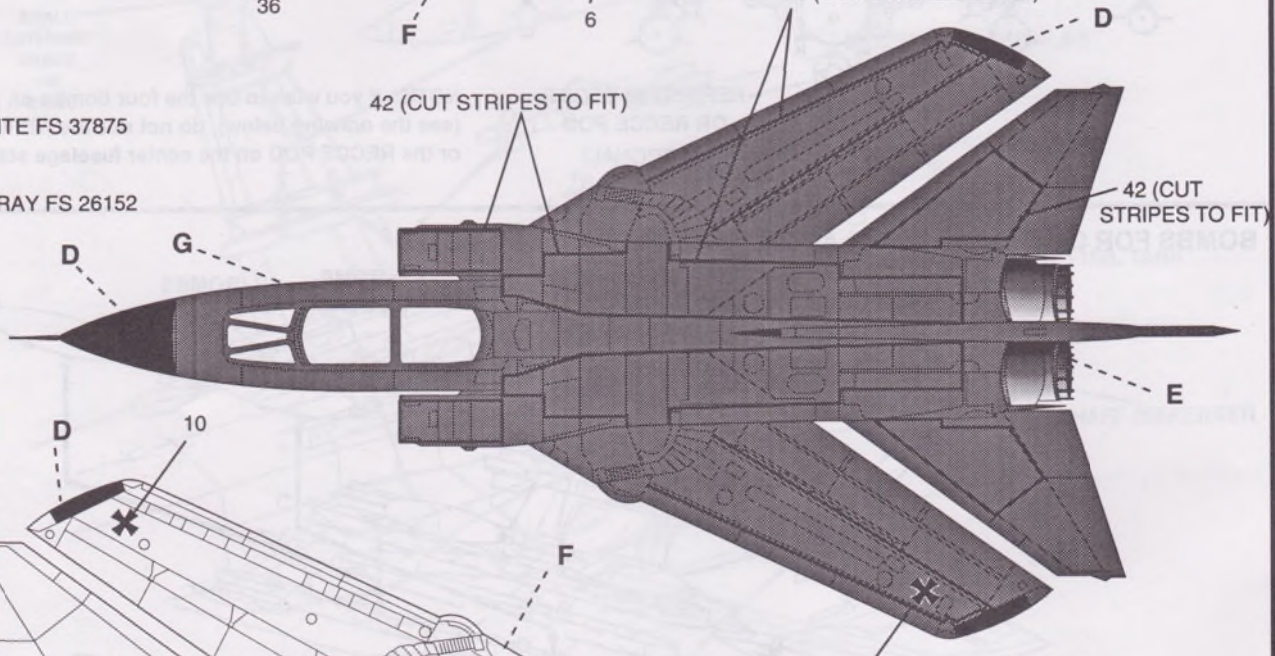
Tornado IDS GR. MK 1, Marinefliegergeschwader 1



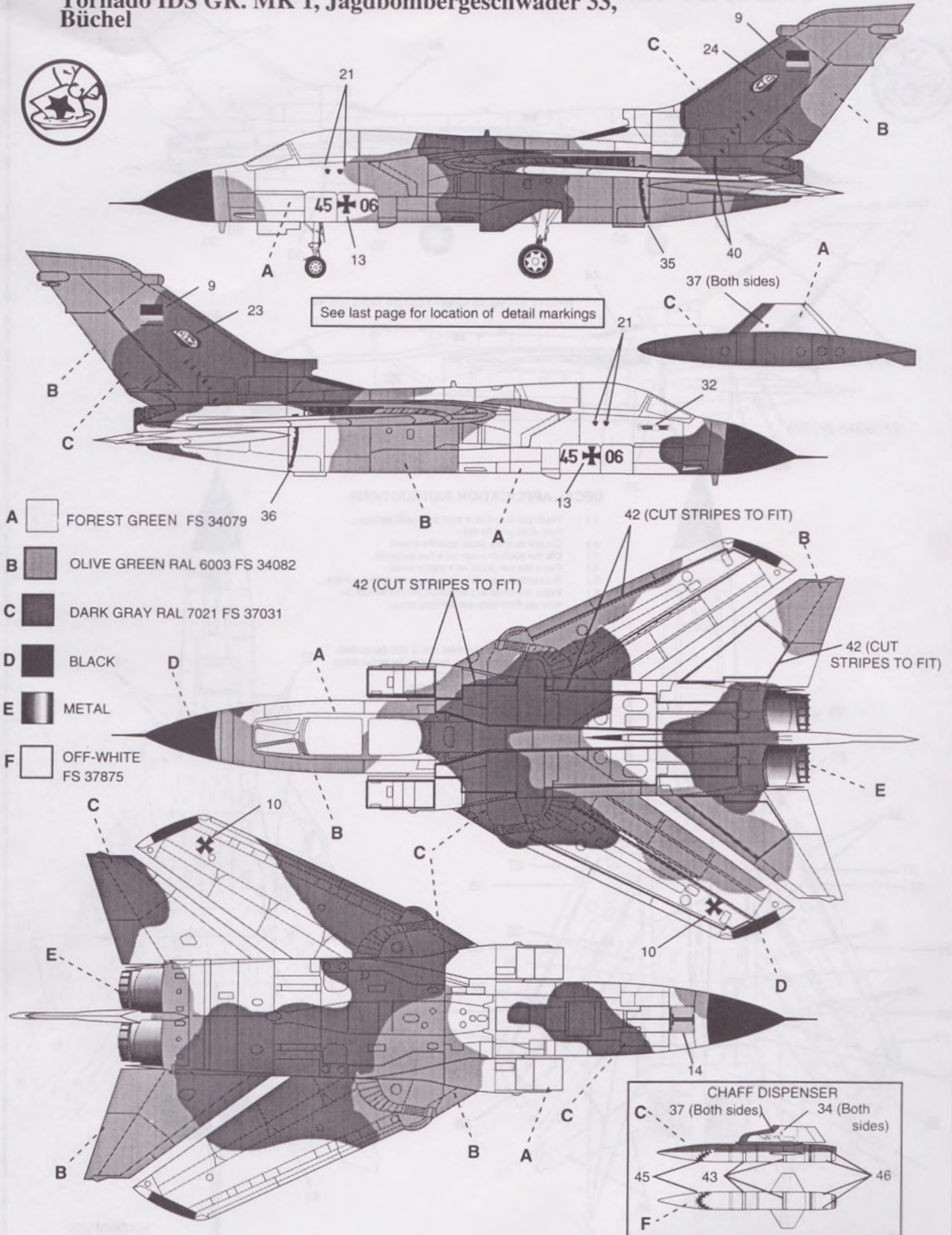
See last page for location of detail markings



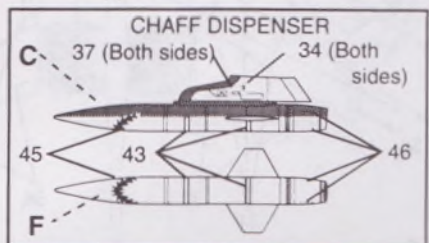
- D** BLACK
- E** METAL
- F** OFF-WHITE FS 37875
- G** DARK GRAY FS 26152



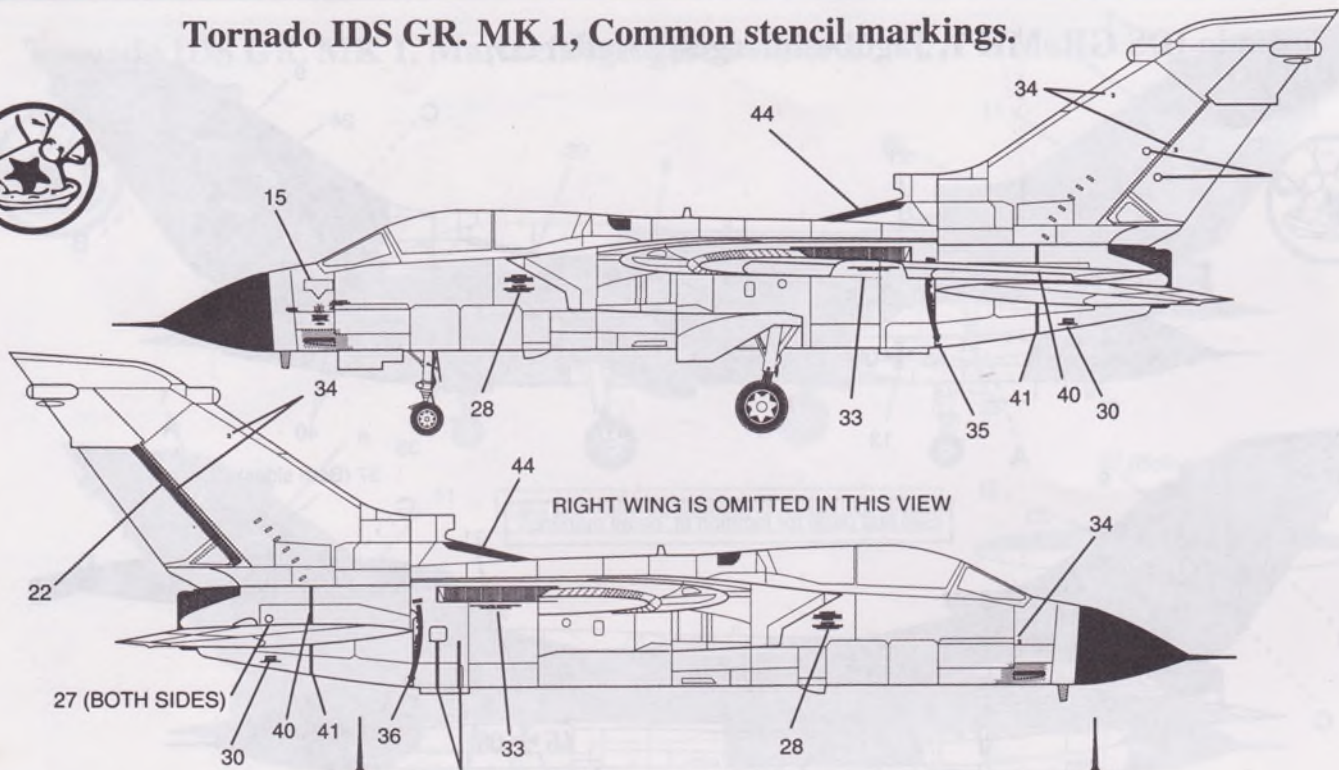
Tornado IDS GR. MK 1, Jagdbombergeschwader 33, Büchel



- A** FOREST GREEN FS 34079
- B** OLIVE GREEN RAL 6003 FS 34082
- C** DARK GRAY RAL 7021 FS 37031
- D** BLACK
- E** METAL
- F** OFF-WHITE FS 37875



Tornado IDS GR. MK 1, Common stencil markings.



DECAL APPLICATION INSTRUCTIONS

- 1.) Wash plastic parts in mild detergent solution, then rinse and let dry.
- 2.) Cut the desired decal from the sheet.
- 3.) Dip the decal in water for a few seconds.
- 4.) Place the wet decal on a paper towel.
- 5.) Wait until the decal is movable on its backing paper.
- 6.) Place the decal in position on the model with its face up, then slide the backing away.
- 7.) Press out any air bubbles with a soft damp cloth.
- 8.) The milkiness that may appear is for better decal adhesion, but will dry clear.
- 9.) Wipe away any excess adhesive.
- 10.) Do not touch the decal until it is dry.

