



The failure of the F-111B to meet the requirements set forth by the Navy for their new basic fighter resulted in a new competition for a suitable carrier-based plane. Variable-sweep wings weren't part of the new specifications, but Grumman proposed a still-new feature on their entry. Because of their involvement with the earlier XF10F-1 Jaguar and their experience with unsuccessful F-111B, Grumman had accumulated for experience with variable-sweep wings than any of the competing companies. Thus, on January 15, 1969, Grumman's Model 303 was chosen to become the new F-14A superiority fighter.

Six planes were to be built for the development program to be followed by another six preproduction F-14A's, which was soon dubbed "Tomcat" in keeping with Grumman's selection of feline names for their aircraft products.

The necessary ground tests were completed by December 21, 1970, and the first Tomcat was ready for its maiden flight fully a month ahead of schedule. Unfortunately this lead was lost with the crash and subsequent destruction of the prototype on the second flight when the hydraulic system failed and the crew was forced to eject. The crew safely abandoned the plane, however, attesting to efficiency of the ejection system in the new fighter.

A novel feature of the F-14 is the pair of retractable "Glove Vanes" mounted on the leading edge of the glove housing the variable-sweep mechanism. These triangular winglets extend forward to added stability as needed when the center of lift moves during certain maneuvers. They are usually operated automatically by the onboard computer, but can be moved manually by the pilot if required.

The Tomcat is also unusual in being the first production plane to the lightweight, but strong, composite boron-epoxy in its construction. The horizontal stabilizer structure is made of this material.

The F-14 reflects the change of thinking regarding aerial armament. The Tomcat's immediate predecessor was designed for missile armament only; a gross error as early combat reports indicated. The F-14 is equipped with an M61A-1 twenty-millimeter rotary cannon and 675 rounds of ammunition in the left nose. Missile armament is also provided, most important of these being the six huge Phoenix AIM-54A which can be launched simultaneously, each one tracking a different target at a range of nearly 100 miles. All the hardpoints are mounted to the rigid portion of the glove and fuselage, eliminating the need for swiveling pylons under the wings.

A pair of Pratt & Whitney TF30 turbofans can provide an afterburning thrust of 20,900 lbs each, giving the Tomcat a speed of Mach 2.34, or over 1,500 mph. For carrier stowage, the pivoting wings can be overswept to reduce the span to only 33 feet 3.5 inches. Extended span is 64 feet 1.5 inches.

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**ITALIAN**

BIANCO

GIALLO

ROSSO

BLU

GRIGIO

METALLICO

VERDE

ARGENTO

NERO

**ENGLISH**

WHITE

YELLOW

RED

BLUE

GRAY

GUNMETAL

GREEN

SILVER

BLACK

**FRENCH**

BLANCO

JAUNE

ROUGE

BLEU

GRIS

METALLIC

VERT

ARGENT

NOIR

**GERMAN**

WEISS

GELB

ROT

BLAU

GRAU

METALLIC

GRUN

SILBERN

SCHWARTZ

**SPANISH**

BLANC

AMARILLO

ROJO

AZUL

GRIS

METALICO

VERDE

PLATA

NEGRO

# F-14A TOMCAT



Cement Parts

Coller  
Kleben  
Pegar  
Incollare  
Colar  
Kleven

DO NOT cement

Ne pas coller  
Nicht kleben  
No pegar  
Non incollare  
Nao colar  
Niet kleven

Cut away

Couper  
Scheiden  
Cortar  
Tagliare  
Cortar  
Snijden

Optional parts

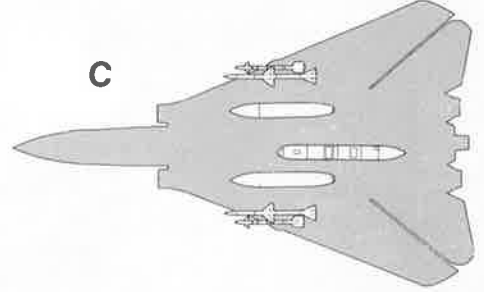
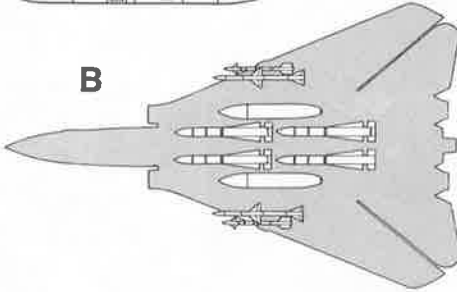
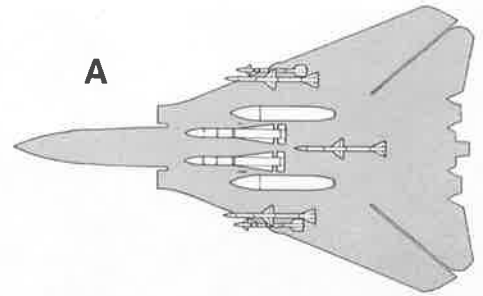
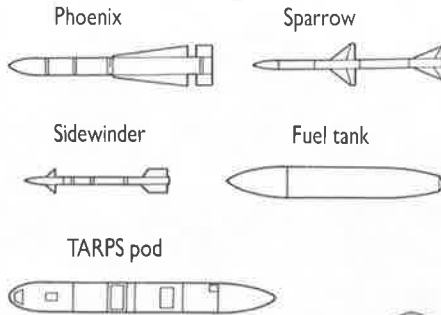
Choix  
Auswahlmöglichkeit  
Eleccion  
Scelta  
Opcao  
Keuze

Repeat operation

Répéter l'opération  
Vorgang wiederholen  
Repitir la operacion  
Ripetere  
Repitir a operação  
Herhalen

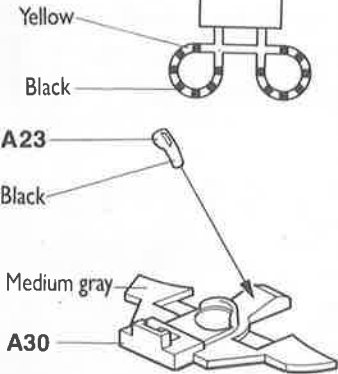
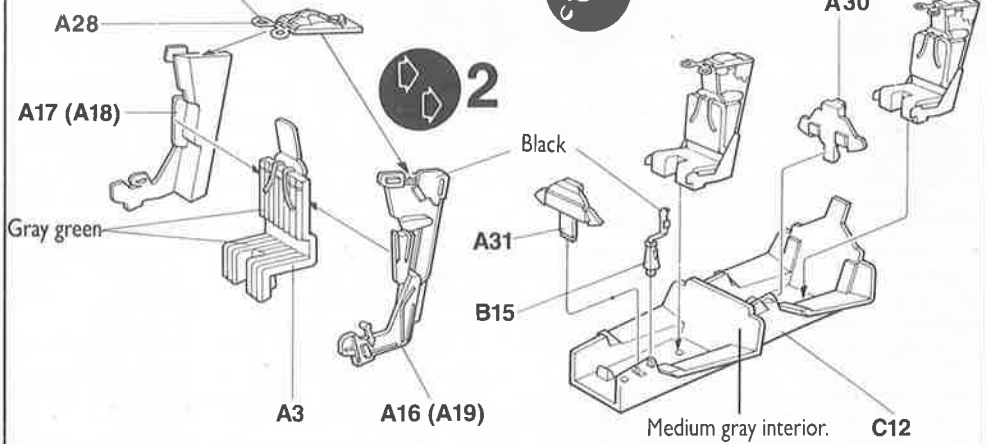
## 1 Weapons and stores

Identification and location.

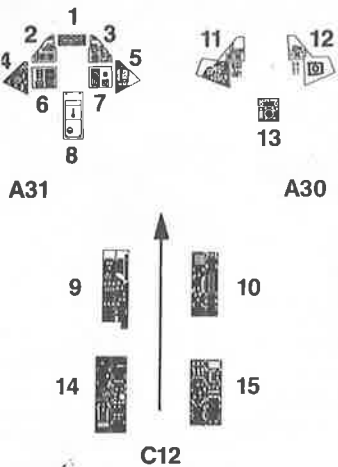


## 2 Cockpit assembly

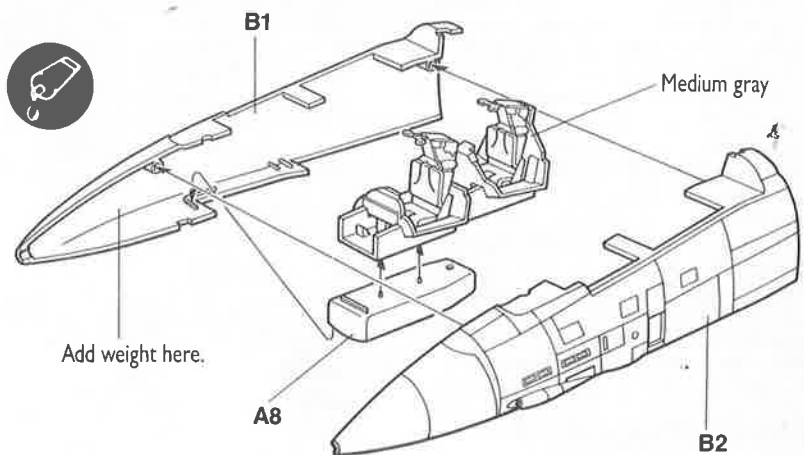
Black and yellow stripes.



## Instrument decal placement

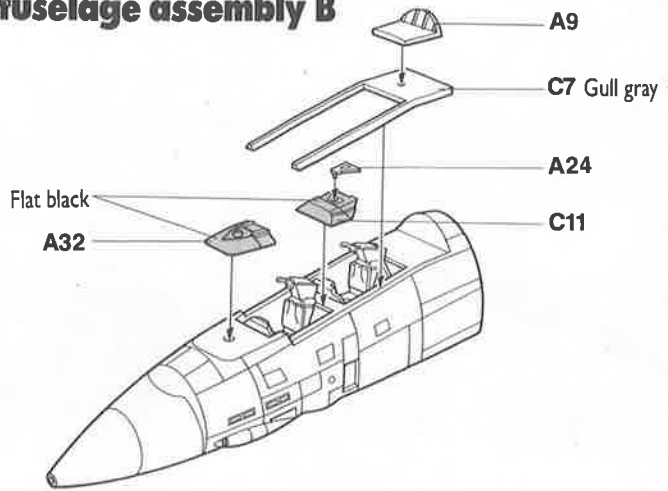


## 3 Forward fuselage assembly A



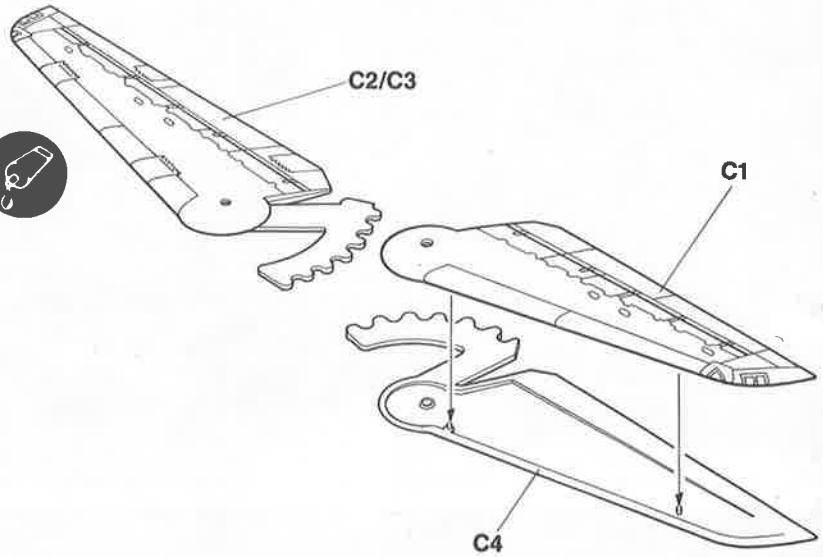
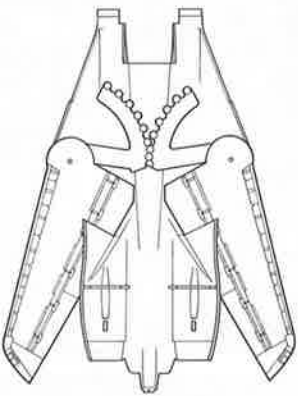
Add weight here.

## 4 Forward fuselage assembly B

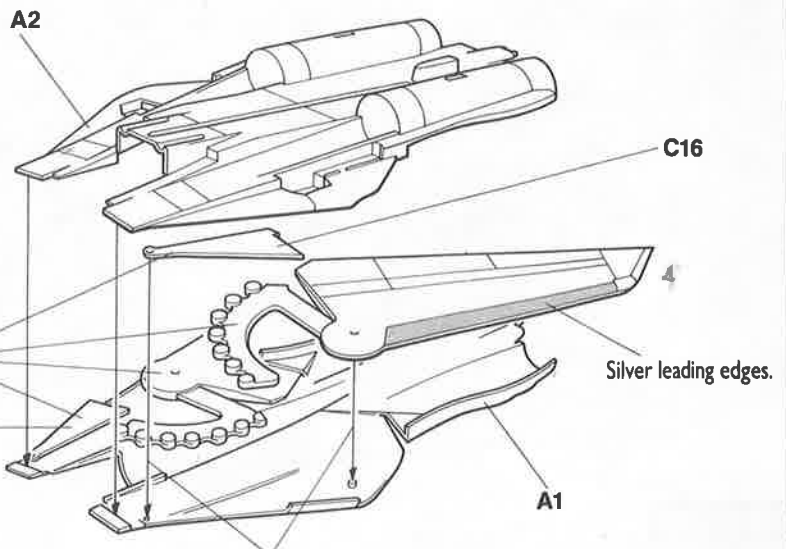


## 5 Wing assembly

assembly of moveable wings

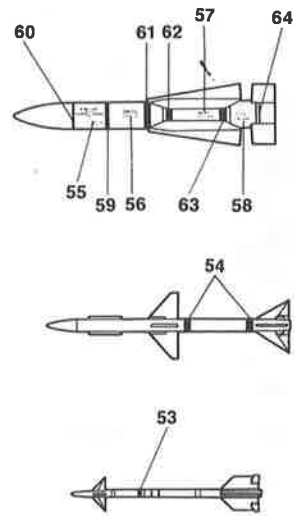


## 6 Fuselage/wing assembly



Do not allow cement to contact wings or glove vanes.

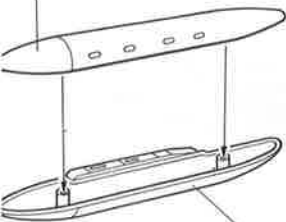
## Decal placement



## Missile and Stores assembly

Fuel tank

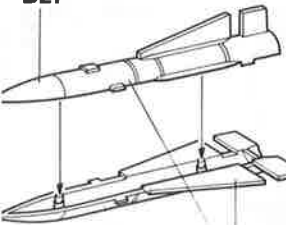
**B17 (B19)**



**B16 (B18)**

Phoenix missile

**B27**



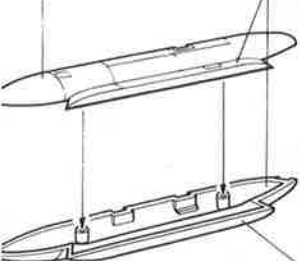
**B28**

White

ARPS pod

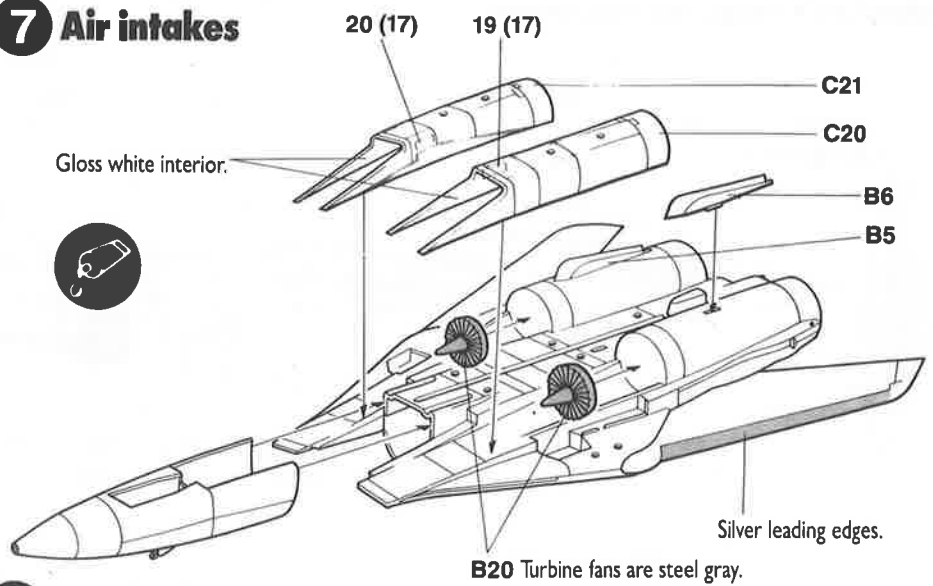
**B11**

White

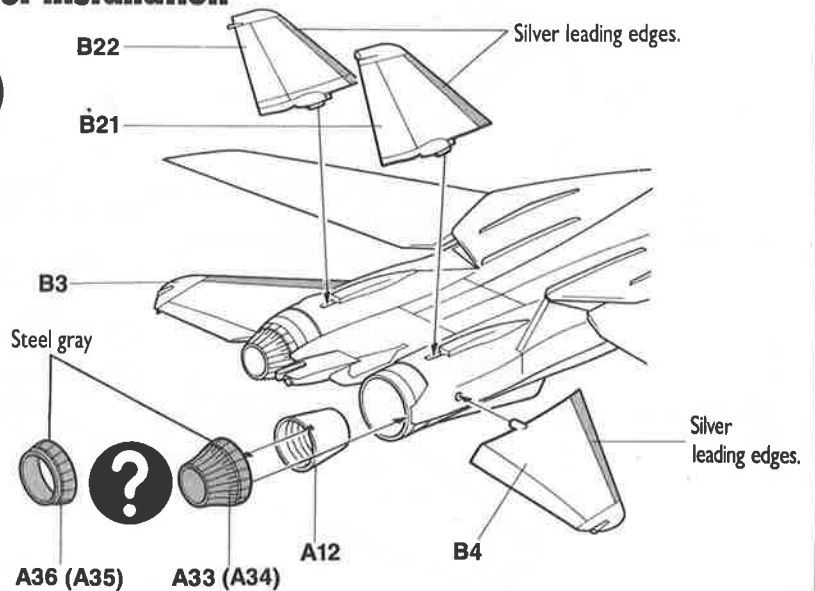


**B12**

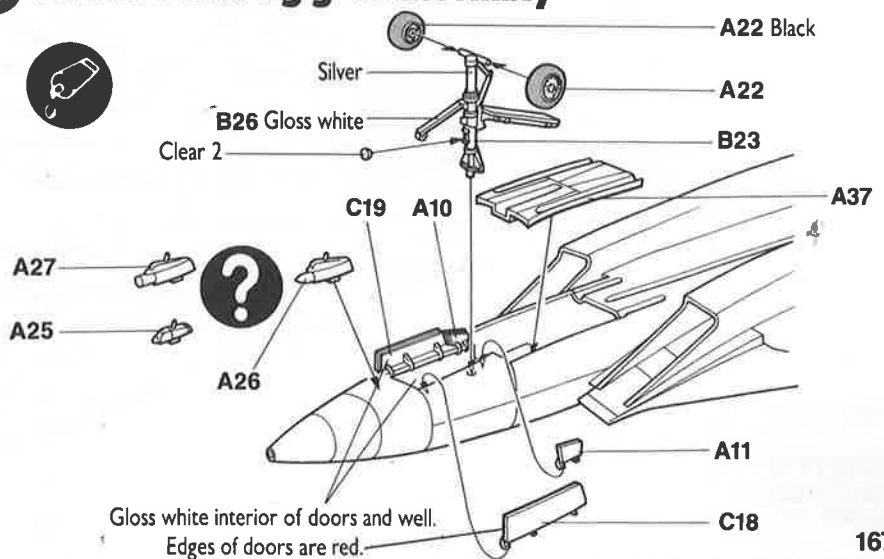
## 7 Air intakes



## 8 Rudder installation

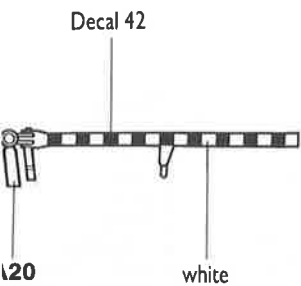


## 9 Forward landing gear assembly

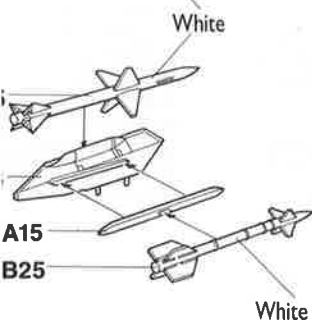
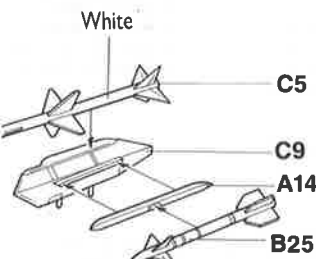


1679

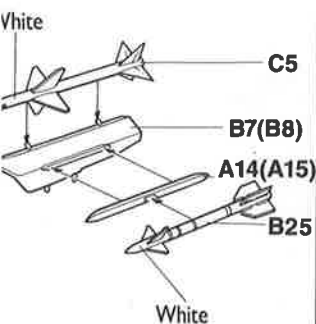
### Arresting hook



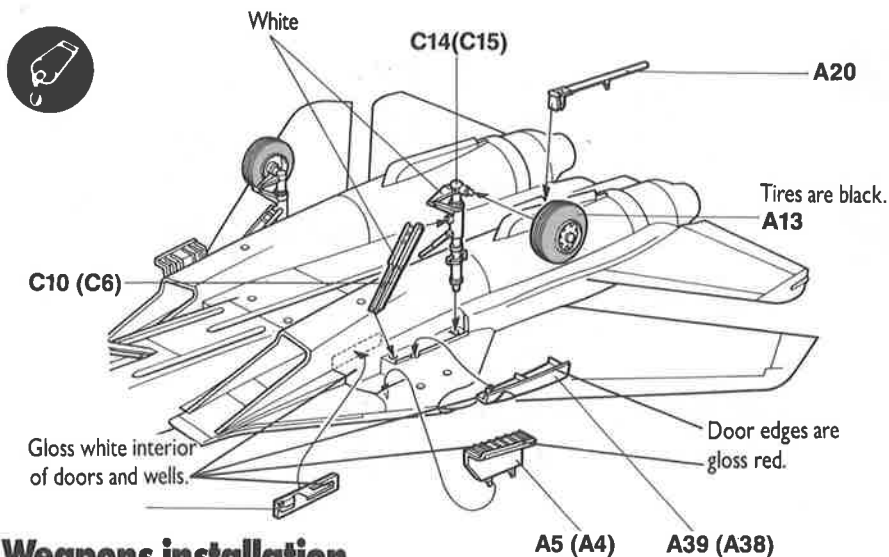
### Missile mounting A



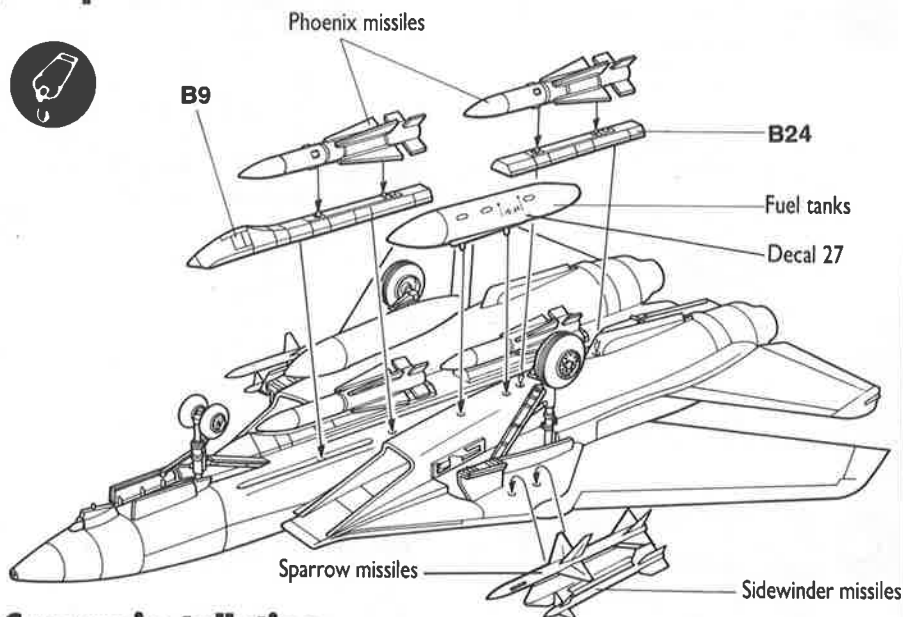
### Alternative missile mounting B



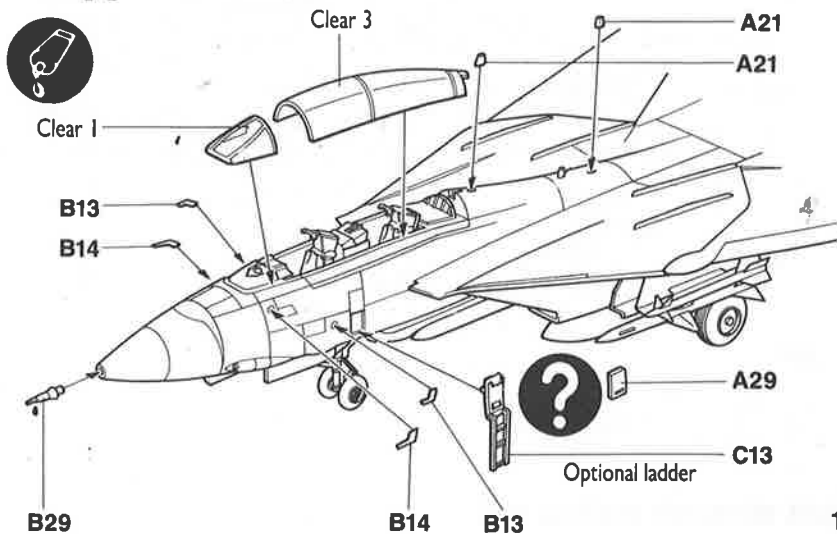
## 10 Main landing gear installation



## 11 Weapons installation

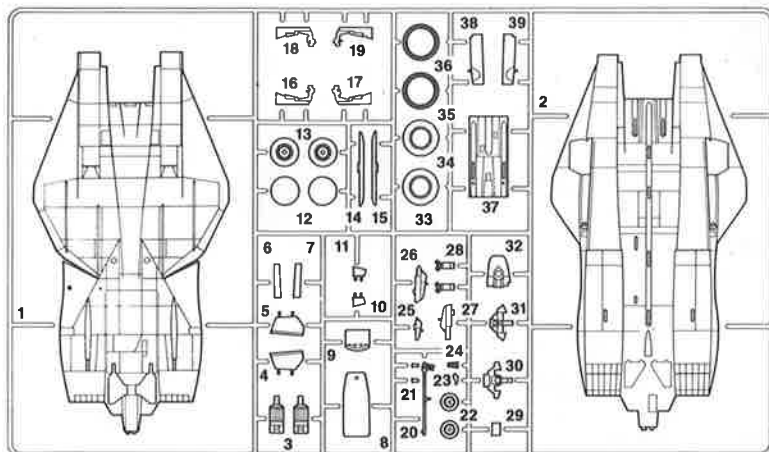


## 12 Canopy installation



# PARTS LOCATING DIAGRAM 1679

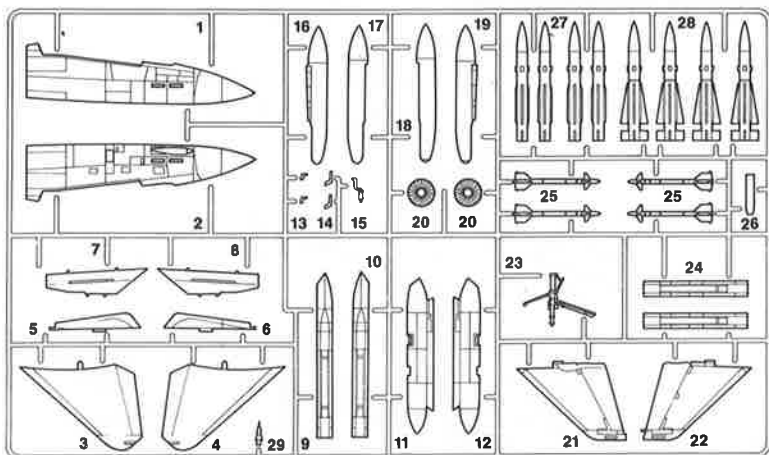
**A**



**A PARTS**

- |                          |                          |
|--------------------------|--------------------------|
| 1. Fuselage Top          | 21. Antennas             |
| 2. Fuselage Bottom       | 22. Nose Wheels          |
| 3. Seats                 | 23. Control Stick (R)    |
| 4. Main Gear Door (L)    | 24. Sight                |
| 5. Main Gear Door (R)    | 25. Sensor               |
| 6. Main Gear Door (R)    | 26. Sensor               |
| 7. Main Gear Door (R)    | 27. Sensor               |
| 8. Nose Wheel Well       | 28. Seat Tops            |
| 9. Cockpit Ledge         | 29. Ladder Hatch         |
| 10. Nose Gear Door (L)   | 30. Instrument Panel (R) |
| 11. Nose Gear Door (R)   | 31. Instrument Panel (F) |
| 12. Engines              | 32. Coaming (F)          |
| 13. Main Wheels          | 33. Tailpipe (Closed)    |
| 14. Sidewinder Mount (R) | 34. Tailpipe (Closed)    |
| 15. Sidewinder Mount (L) | 35. Tailpipe (Open)      |
| 16. Seat Side (L)        | 36. Tailpipe (Open)      |
| 17. Seat Side (R)        | 37. Fuselage Panel       |
| 18. Seat Side (R)        | 38. Main Gear Door (R)   |
| 19. Seat Side (L)        | 39. Main Gear Door (L)   |
| 20. Arresting Hook       |                          |

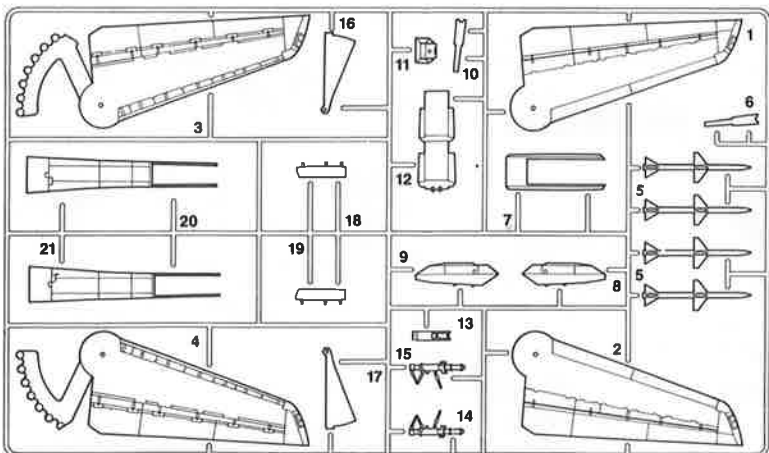
**B**



**B PARTS**

- |                         |                            |
|-------------------------|----------------------------|
| 1. Forward Fuselage (R) | 16. Fuel Tank (R)          |
| 2. Forward Fuselage (L) | 17. Fuel Tank (L)          |
| 3. Elevator (L)         | 18. Fuel Tank (R)          |
| 4. Elevator (R)         | 19. Fuel Tank (L)          |
| 5. Ventrail Fin (L)     | 20. Turbine Fans           |
| 6. Ventrail Fin (R)     | 21. Rudder (R)             |
| 7. Missile Mount (R)    | 22. Rudder (L)             |
| 8. Missile Mount (L)    | 23. Nose Gear              |
| 9. Pallet               | 24. Pallet Mount           |
| 10. Pallet              | 25. Sidewinders            |
| 11. TARPS Pod (R)       | 26. Nose Gear Door         |
| 12. TARPS Pod (L)       | 27. Phoenix Missile (Half) |
| 13. Pitot               | 28. Phoenix Missile (Half) |
| 14. Pitot               | 29. Pit Pipe               |
| 15. Control Stick (F)   |                            |

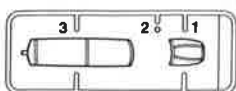
**C**



**C PARTS**

- |                        |
|------------------------|
| 1. Wing (Top Left)     |
| 2. Wing (Top Right)    |
| 3. Wing (Bottom Right) |
| 4. Wing (Bottom Left)  |
| 5. Sparrow Missiles    |
| 6. Main Ger Strut      |
| 7. Canopy Frame        |
| 8. Missile Mount (R)   |
| 9. Missile Mount (L)   |
| 10. Main Gear Strut    |
| 11. Coaming (R)        |
| 12. Cockpit            |
| 13. Ladder             |
| 14. Main Gear (R)      |
| 15. Main Gear (L)      |
| 16. Glove Vane (R)     |
| 17. Glove Vane (L)     |
| 18. Nose Gear Door (R) |
| 19. Nose Gear Door (L) |
| 20. Air Intake (R)     |
| 21. Air Intake (L)     |

Clear



**CLEAR PARTS**

- |                    |
|--------------------|
| 1. Windshield      |
| 2. Nose Gear Light |
| 3. Canopy          |



# PAIN AND DECAL INSTRUCTIONS

