GRUMMAN

1/72 SCALE F-14A TOMCAT

ACADEMY
HOBBY MODEL KITS

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 this 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 air 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. Regrettably 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 a pair of retractable "Glove Vanes" mounted on the leading edge of the glove housing the variable-sweep mechanism. These traingular winglets extend forward to added stability as needed when the center of lift moves aft 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.

ENGLISH	FRENCH
WHITE	BLANCO
YELLOW	JAUNE
RED	ROUGE
BLUE	BLEU
GRAY	GRIS
GUNMETAL	METALLIC
GREEN	VERT
SILVER	ARGENT
BLACK	NOIR

GERMAN	SPANISH
WEISS	BLANC
GELB	AMARILLO
ROT	ROJO
BLAU	AZUL
GRAU	GRIS
METALLIC	METALICO
GRUN	VERDE
SILBERN	PLATA
SCHWARTZ	NEGRO

ITALIAN
BIANCO
GIALLO
ROSSO
BLU
GRIGIO
METALLICO
VERDE
ARGENTO
NERO

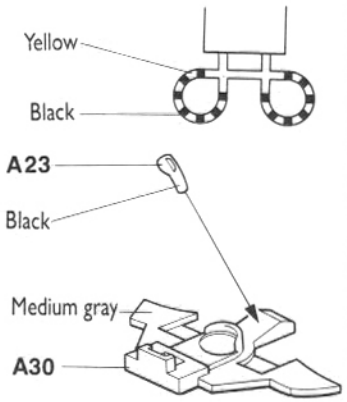
Cement Parts
Coller
Kleben
Pegar
Incollare
Colar
Kleven

DO NOT cement
Ne pas coller
Nicht kleben
No pegar
Non incollare
Nao colar
Niet kleven

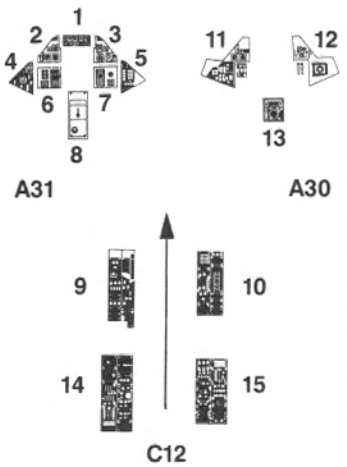
Cut away
Couper
Scheiden
Cortar
Tagliare
Cortar
Snijden

Optional parts
Choix
Auswahlmoglichkeit
Eleccion
Scelta
Opcao
Keuze

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

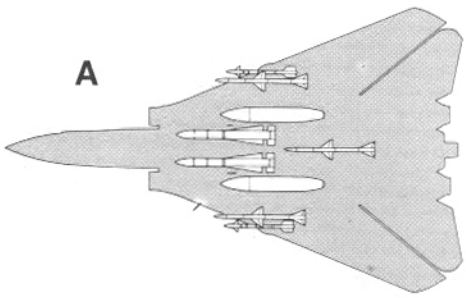


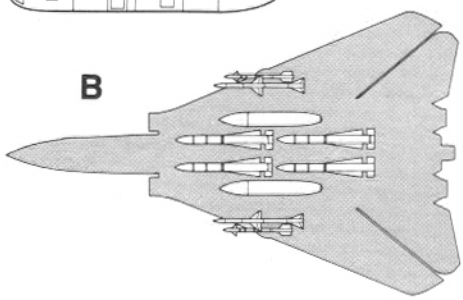
Instrument decal placement

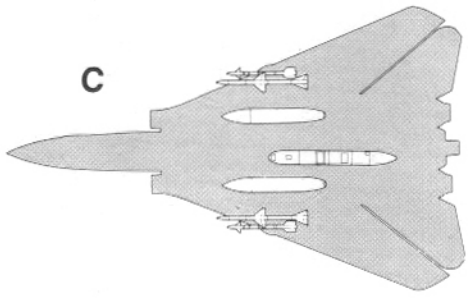


1 Weapons and stores

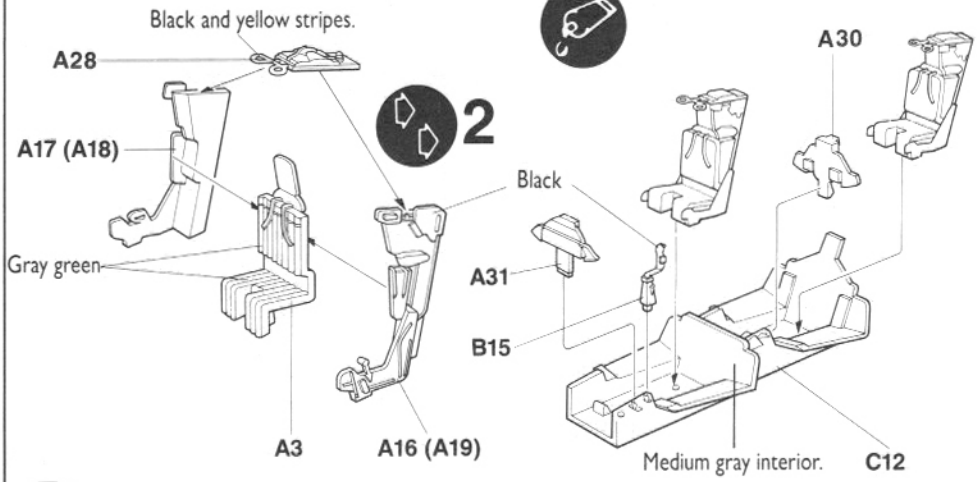
Identification and location.



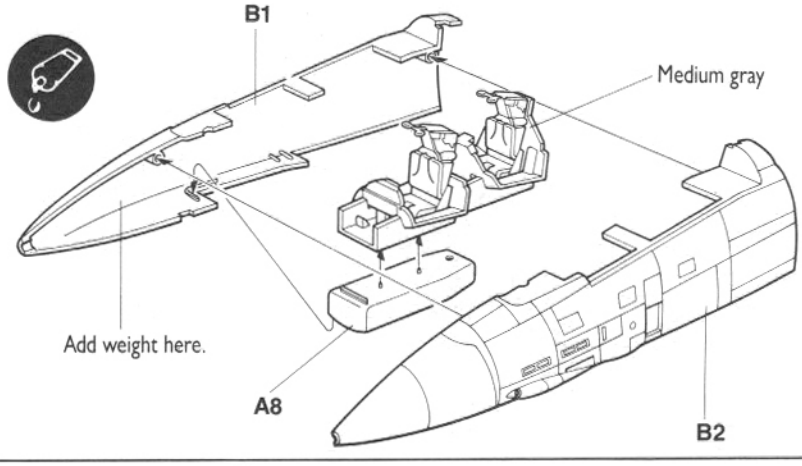




2 Cockpit assembly



3 Forward fuselage assembly A



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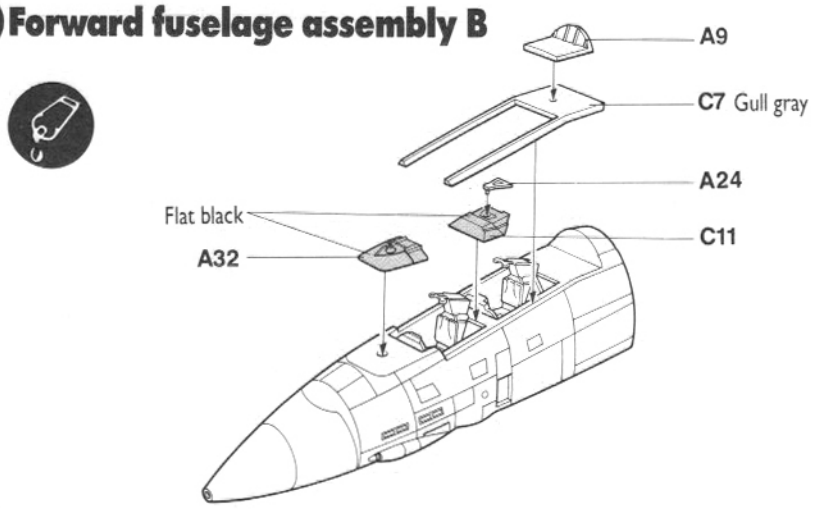
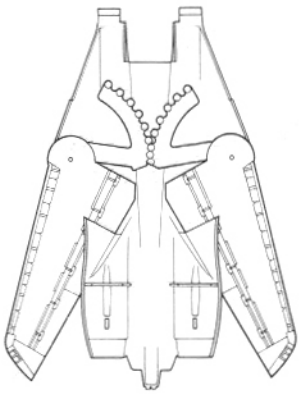
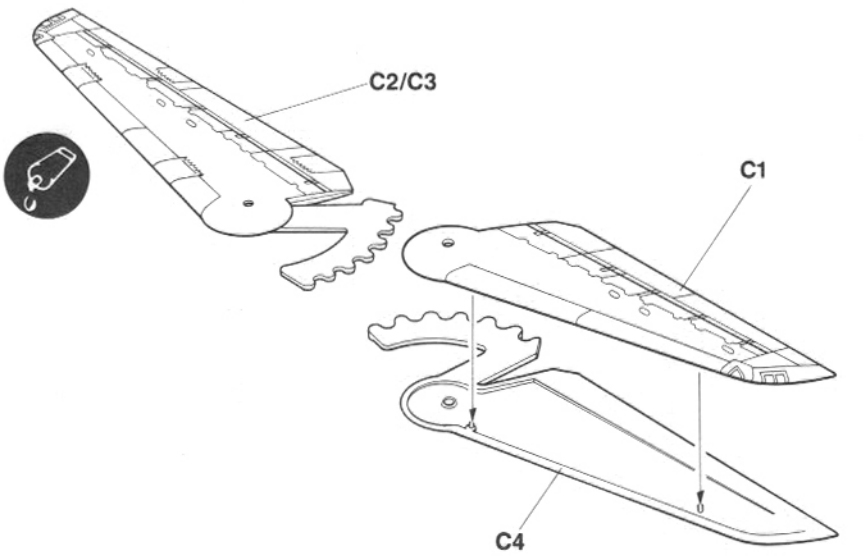
4 Forward fuselage assembly B



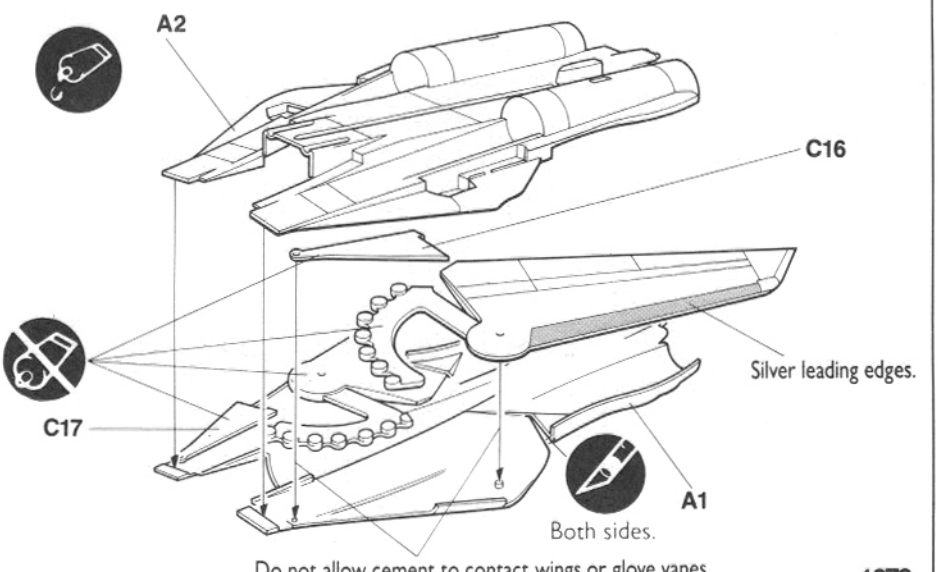
5 Wing assembly

Assembly of moveable wings





6 Fuselage/wing assembly



Do not allow cement to contact wings or glove vanes.

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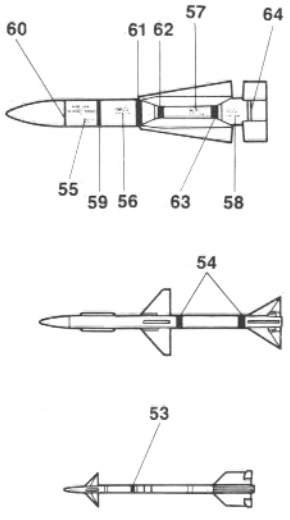
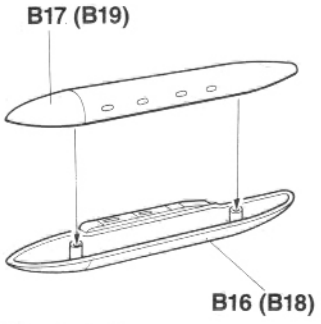
ACADEMY
HOBBY MODEL KITS

Decal placement

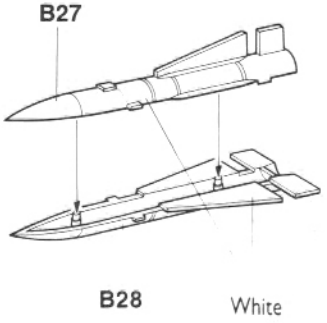


Missile and Stores assembly

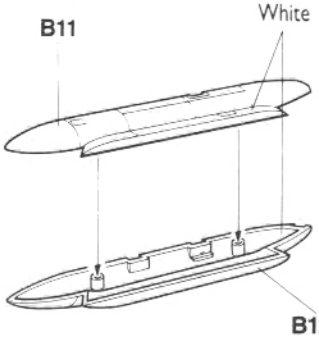
Fuel tank



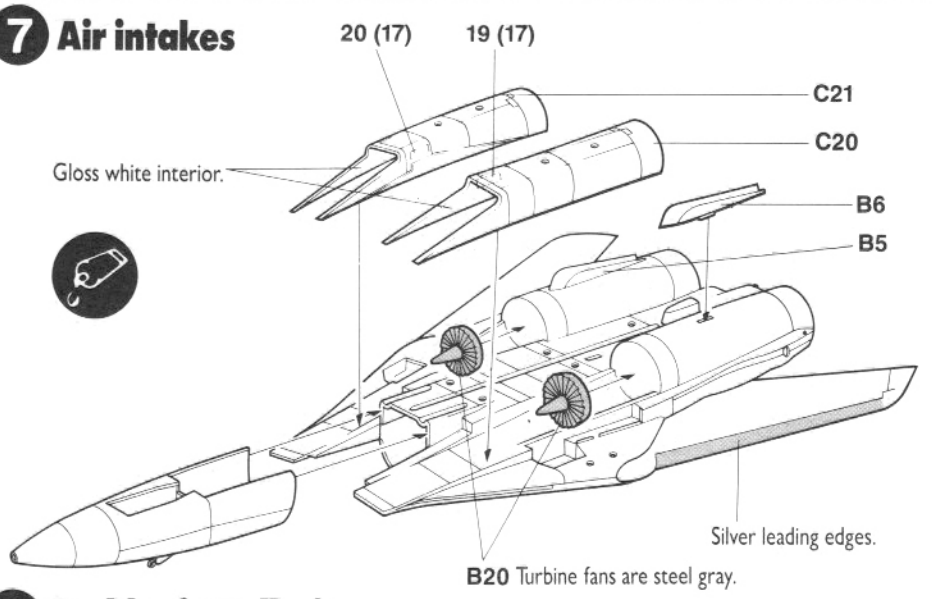
Phoenix missile



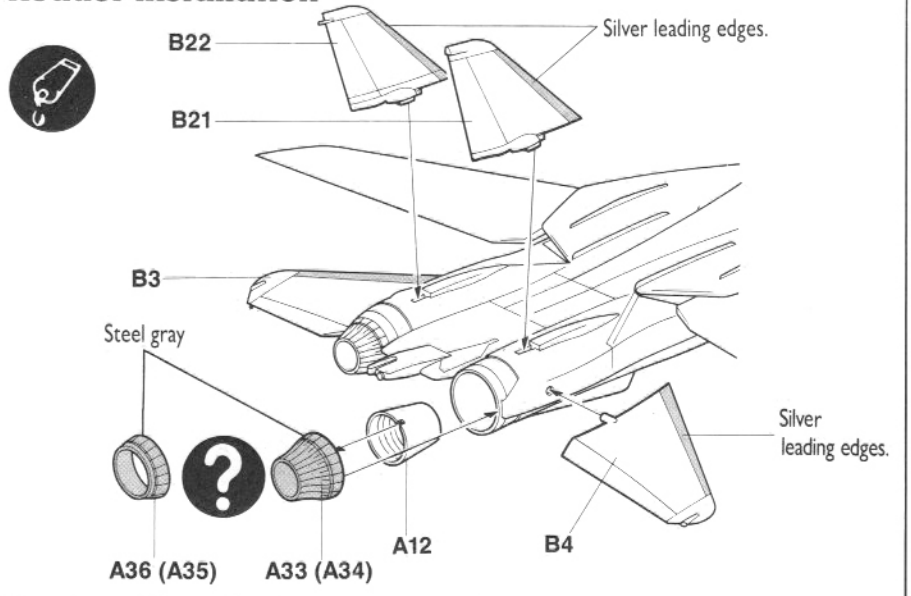
TARPS pod



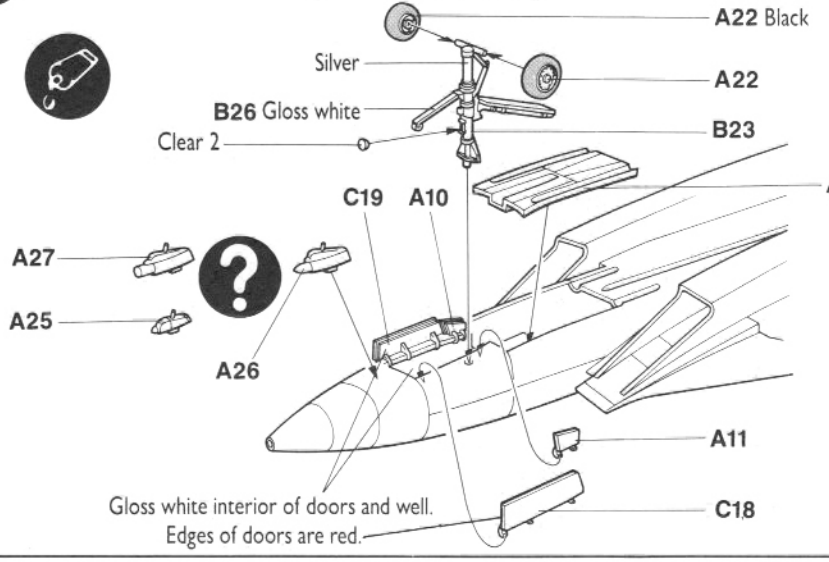
7 Air intakes



8 Rudder installation



9 Forward landing gear assembly



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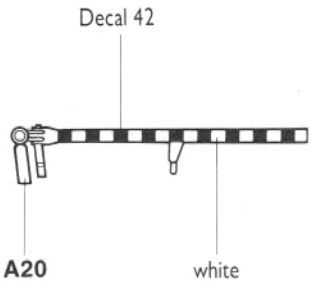
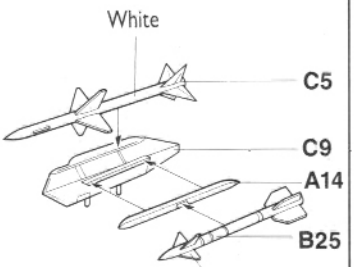
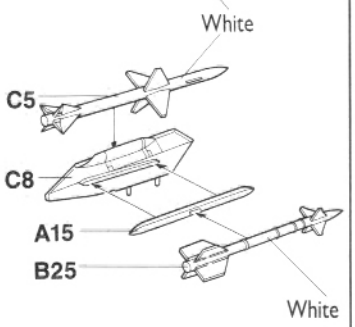
Arresting hook

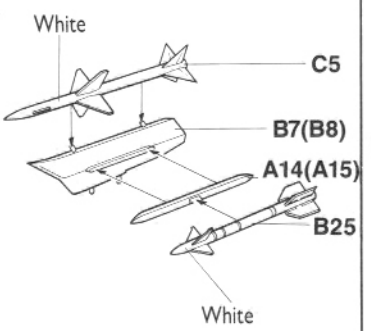


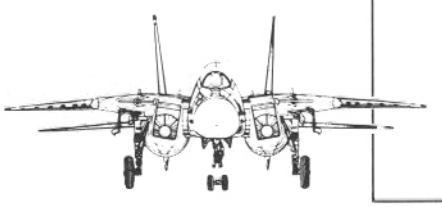
Missile mounting A



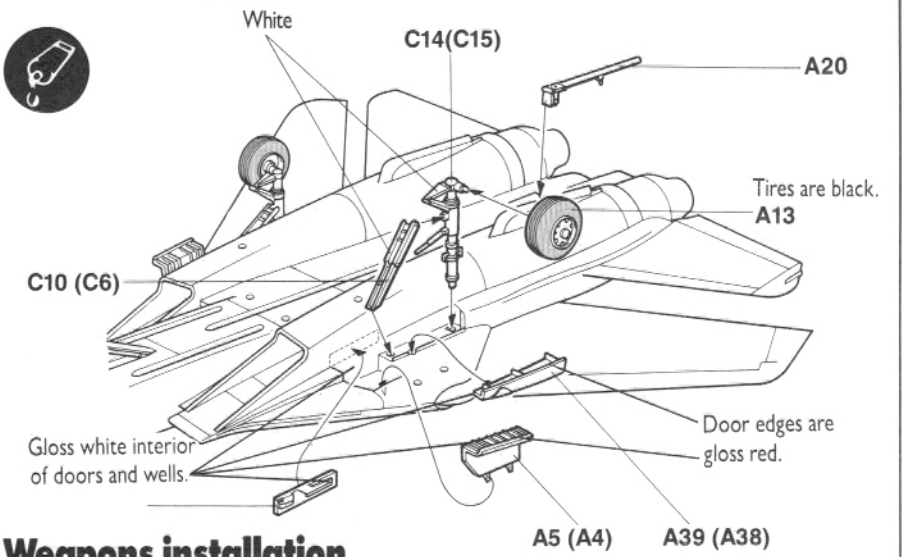


Alternative missile mounting B

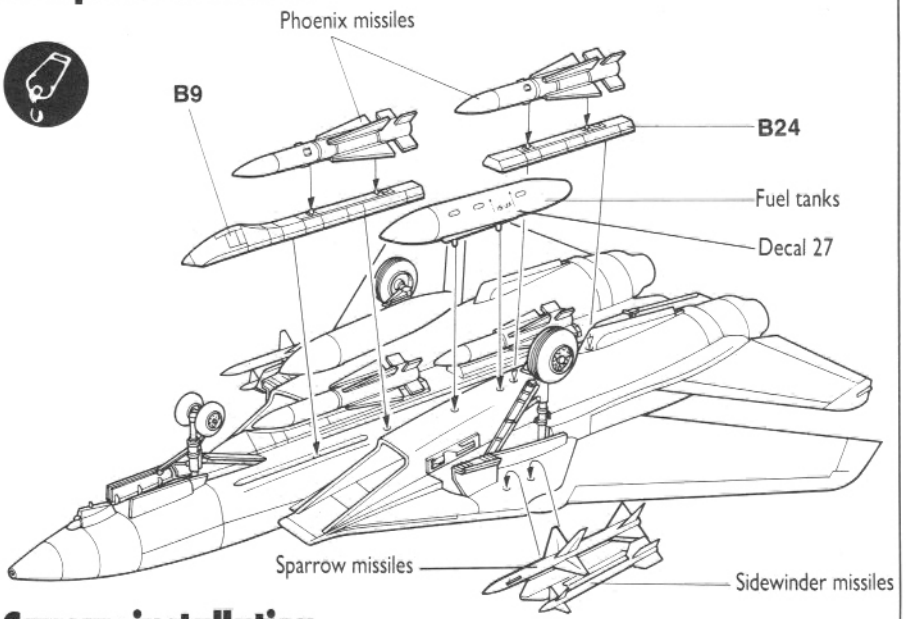




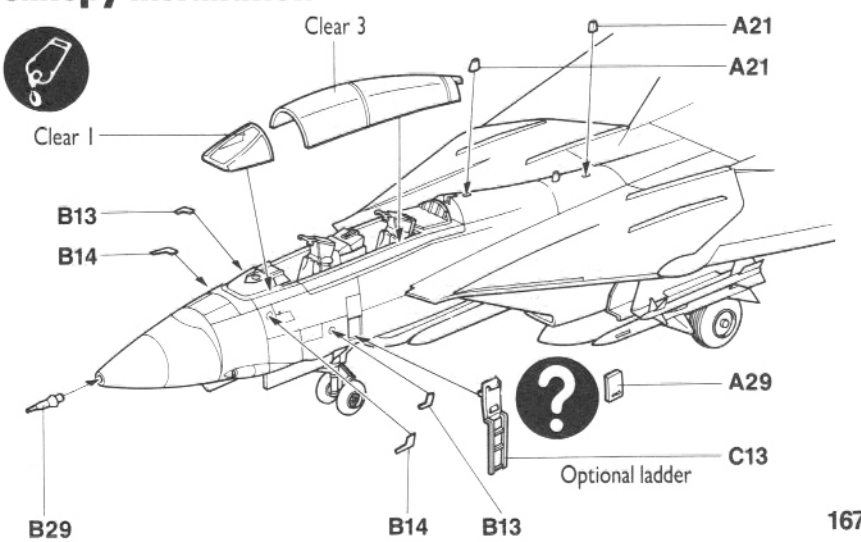
10 Main landing gear installation



11 Weapons installation



12 Canopy installation



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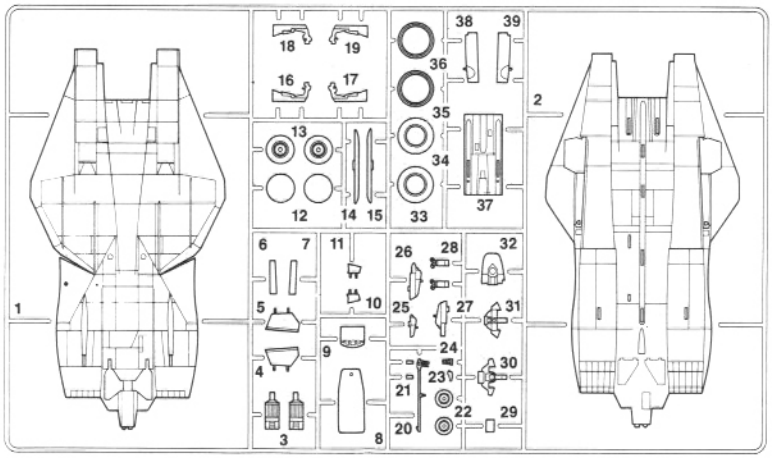
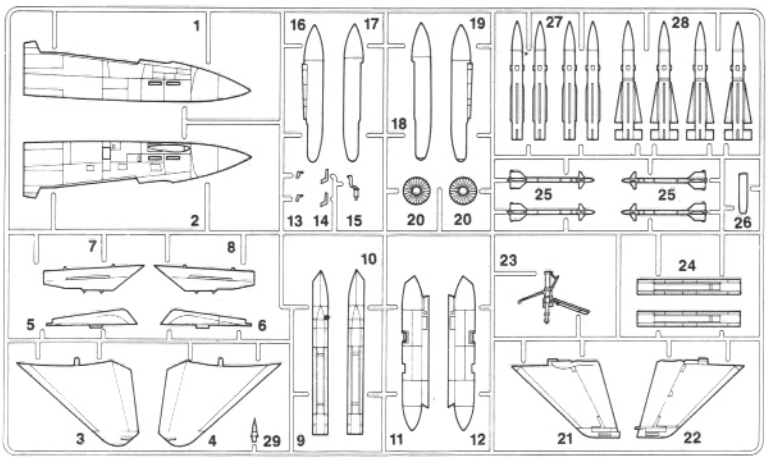
PARTS LOCATING DIAGRAM 1679



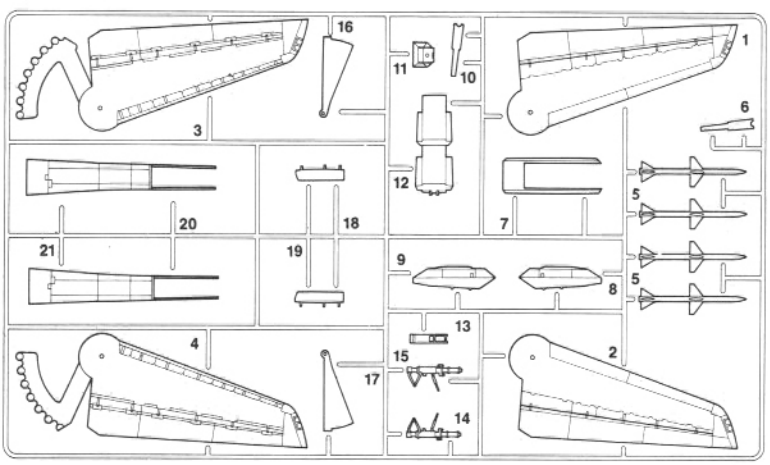
A PARTS

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



B PARTS

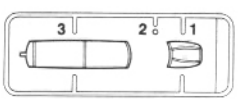
1. Forward Fuselage (R)
2. Forward Fuselage (L)
3. Elevator (L)
4. Elevator (R)
5. Ventrail Fin (L)
6. Ventrail Fin (R)
7. Missile Mount (R)
8. Missile Mount (L)
9. Pallet
10. Pallet
11. TARPS Pod (R)
12. TARPS Pod (L)
13. Pitot
14. Pitot
15. Control Stick (F)
16. Fuel Tank (R)
17. Fuel Tank (L)
18.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



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

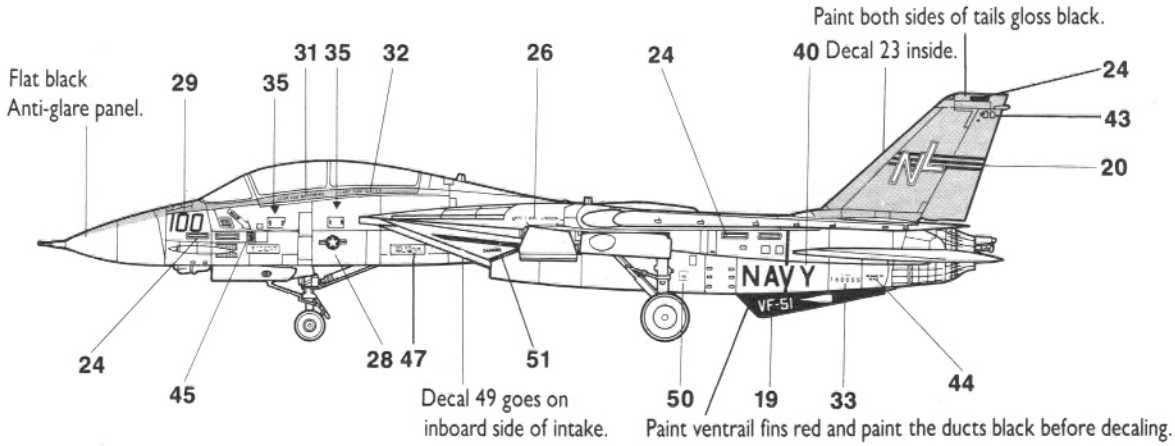


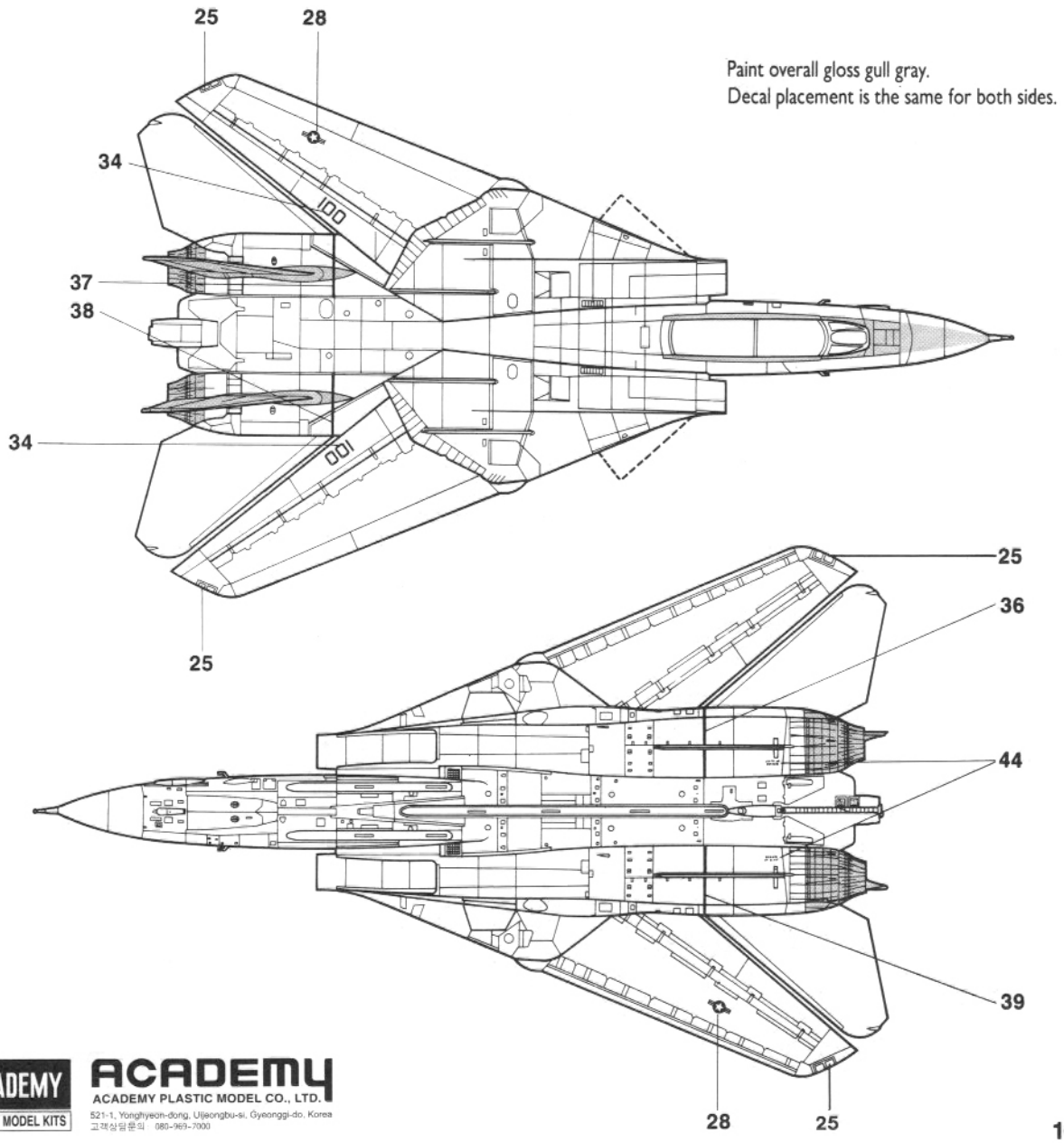
CLEAR PARTS

1. Windshield
2. Nose Gear Light
3. Canopy

ACADEMY
HOBBY MODEL KITS

PAINT AND DECAL INSTRUCTIONS





ACADEMY
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