

HORNET

1/32 Scale Series



HASEGAWA



The McDonnell Douglas F-18 is aptly named Hornet. This nimble single-seat, twin-engined fighter is fast, maneuverable and carries a lethal sting. Soon to join the U.S. Navy and Marine Corps, the F-18 is a development of the Northrop YF-17 competitor in the USAF's light weight fighter competition. Losing the Air Force competition to the General Dynamics F-16, the Northrop fighter nevertheless interested the Navy, who ordered a modified version as the F-18 for its next generation fleet fighter and attack bomber.

McDonnell Douglas and Northrop teamed up to revise the YF-17 for the dual roles of carrier-borne fighter and attack bomber. Initial development is directed toward the fighter role, with the A-18 to emerge at the end of the development program. Naturally, most of the parts will be common to both versions, a factor which will greatly simplify shipboard support.

Since the basic design of the Hornet permits two separate operational roles, it will be duplicating the missions of the F-4 Phantom II and the A-7 Corsair II. Therefore, it is intended that three Hornets will replace one Phantom and two Corsairs. Physically, the new fighter will require the same deck space as the F-4 and A-7, but the commonality of parts will substantially reduce the necessary support parts and maintenance gear.

Two General Electric turbofan engines give the F-18 a thrust-to-weight ratio of almost one-to-one and provide a maximum speed of Mach 1.8. Nine hardpoints beneath the wings and fuselage offer a stores capacity of almost seven tons. The cockpit is designed to simplify the pilot's chores. A heads-up display (HUD) provides all the pertinent flight data on a screen in front of the pilot, and all the basic flight controls are located on the throttle and control column, permitting the pilot to maneuver the Hornet with the least amount of effort.

The first delivery of the F-18 is scheduled for the early 1980's. Both the Navy and Marines will operate the Hornet as the backbone of their fighter/attack squadrons. By late 1983, McDonnell Douglas plans to produce Hornets at a rate of nine planes per month, with approximately ten percent of them being two-seat trainers.

CHARACTERISTICS

Dimensions:

Wingspan: (Over missiles) 40 feet, 8 inches. (Folded span = 25 feet)
Length: 56 feet

Powerplant: Two General Electric F404-GE-400 Low Bypass Turbofan engines of 16,000 lbs thrust with afterburners.

Performance: Maximum speed = 1,200 mph (Mach 1.8)
Combat ceiling = 50,000 feet

Armament: One nose-mounted M61 20mm cannon.
Two AIM 9 Sidewinder Missiles.
Two AIM 7 Sparrow Missiles.

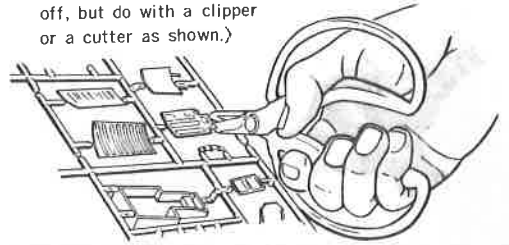
Assorted bombs and underwing ordnance to 17,000 lbs.

READ BEFORE ASSEMBLING

<BEFORE ASSEMBLING>

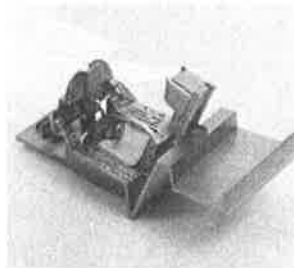
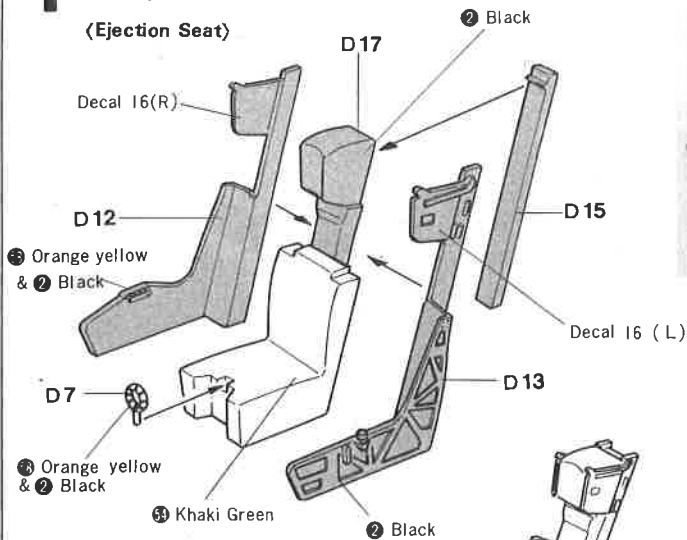
- Read these instructions carefully before assembling your model and follow them.
- Cut off the parts from the stem with a nipper or a cutter.
- When using adhesive, apply it to both parts to be cemented. Please take care not to apply too much adhesive.

<To cut off parts from the runner, do not tear them off, but do with a clipper or a cutter as shown.>

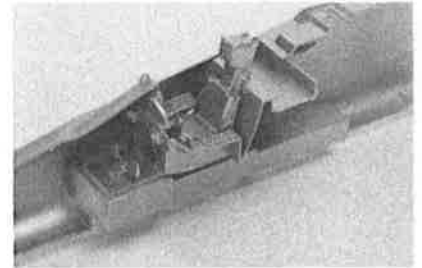


1 Cockpit Assembly

<Ejection Seat>

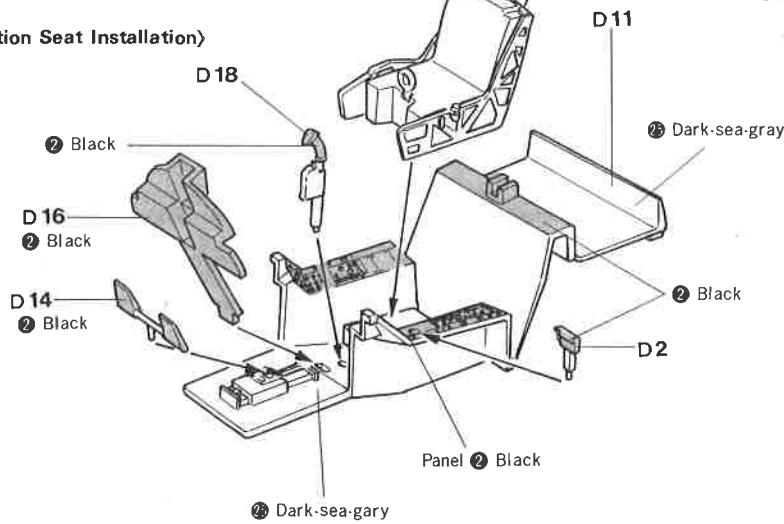


Assembled cockpit

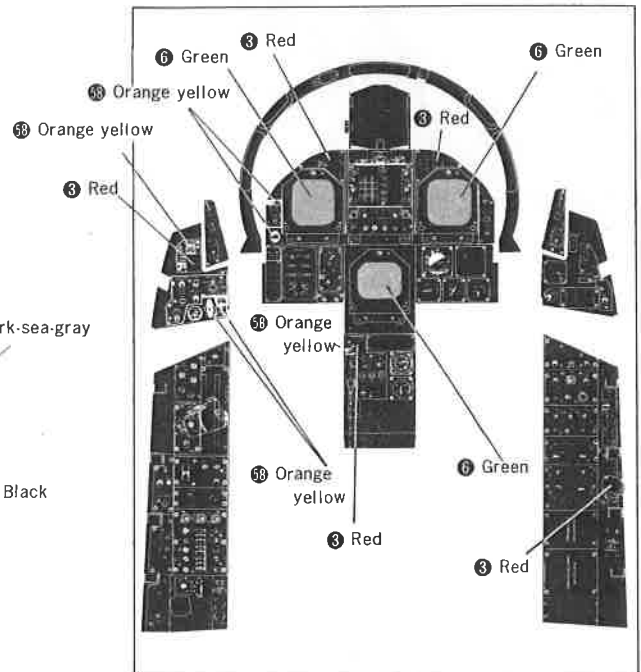


Installed cockpit

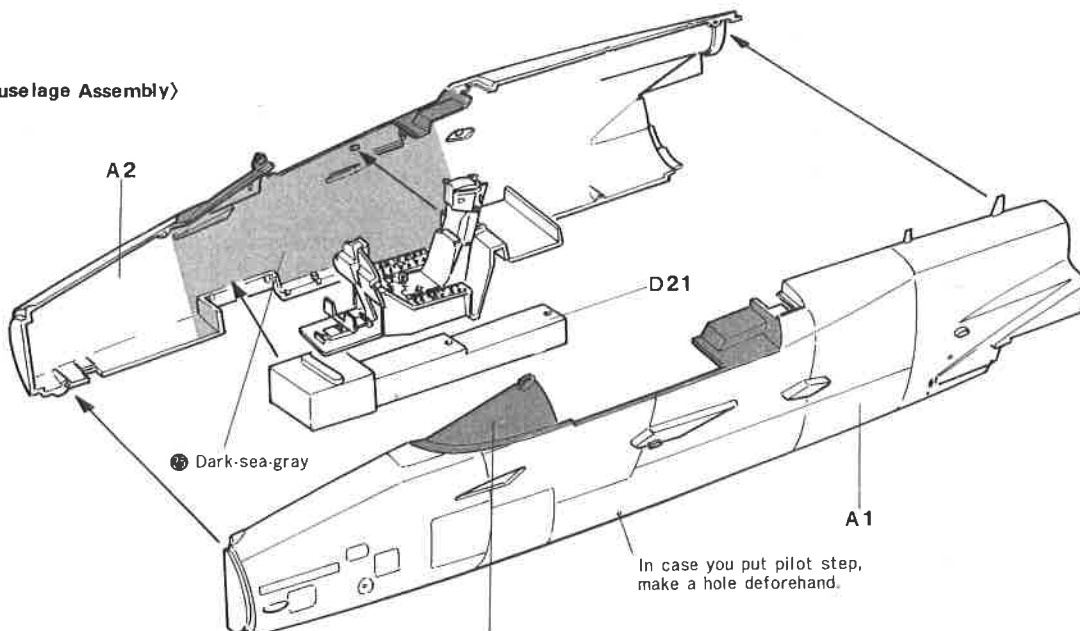
<Ejection Seat Installation>



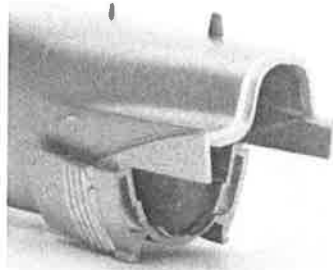
<Cockpit Painting>



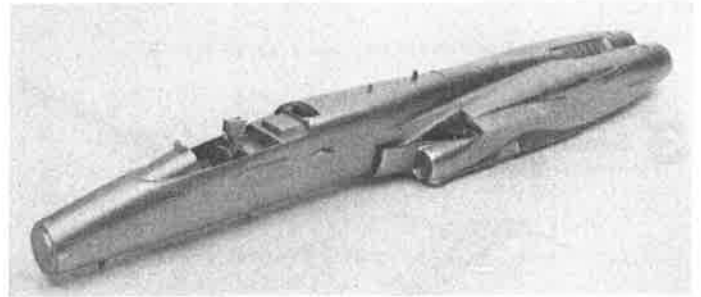
<Fuselage Assembly>



2 Fuselage Assembly

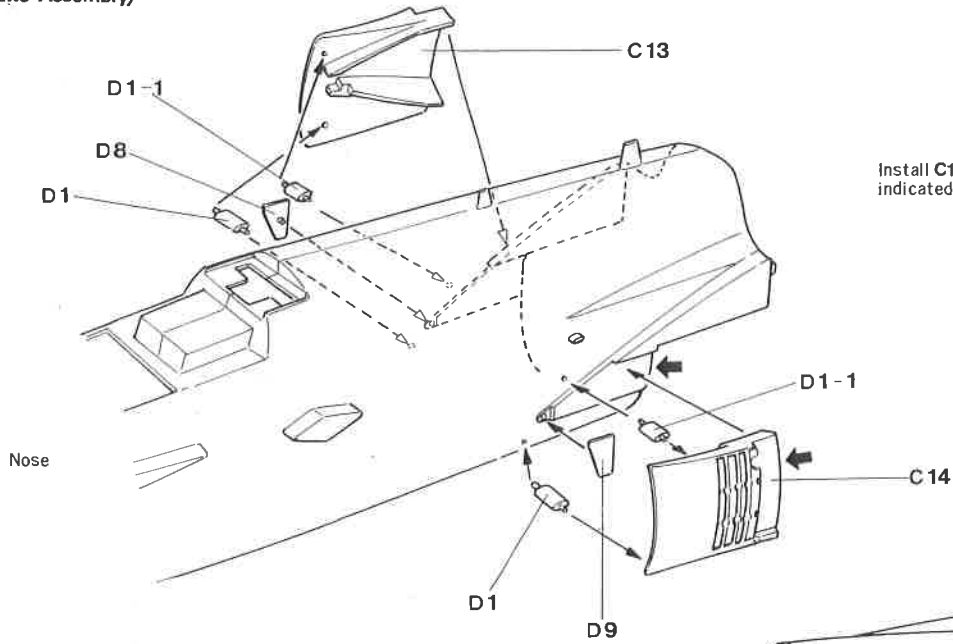


Air intake



Assembled fuselage

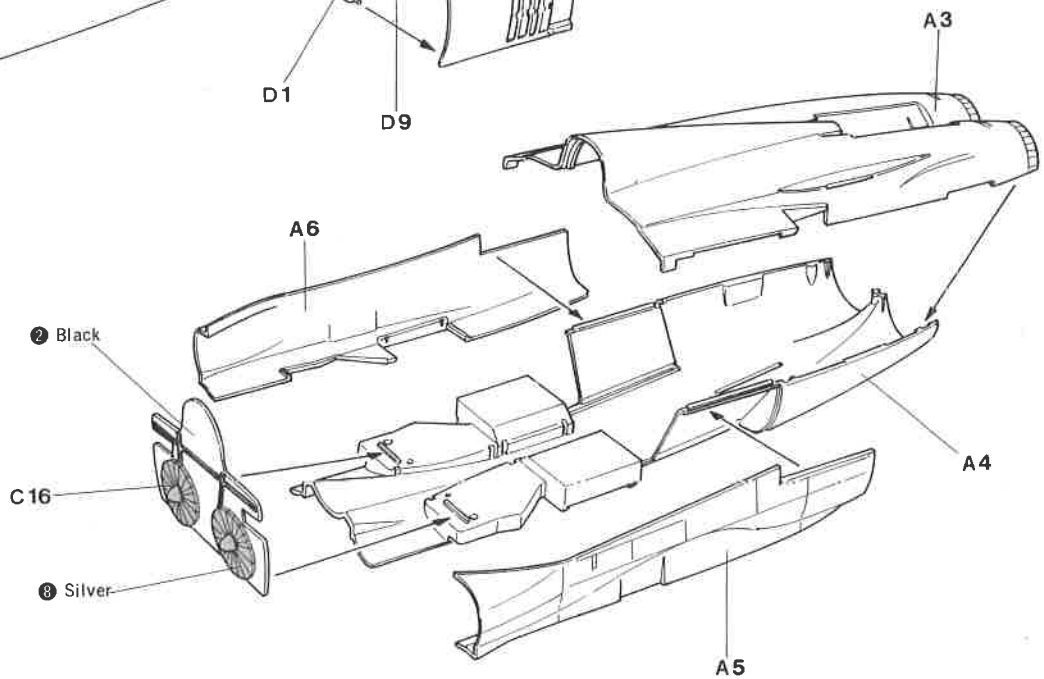
(Air Intake Assembly)



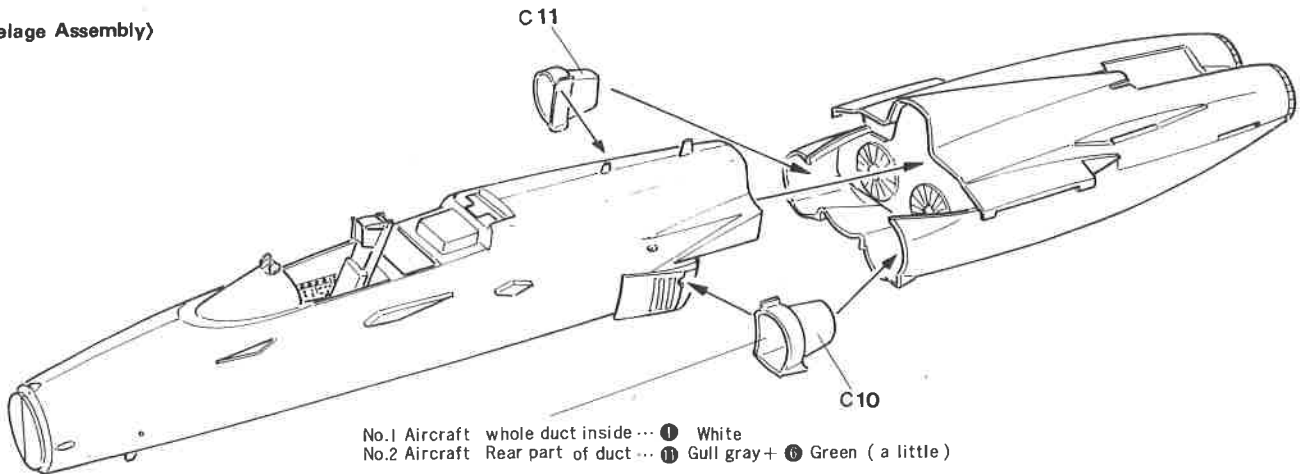
Install C13 and C14 on fuselage so as points indicated by arrows come together.

(Rear Fuselage Assembly)

Sub-assemble parts before using adhesive.



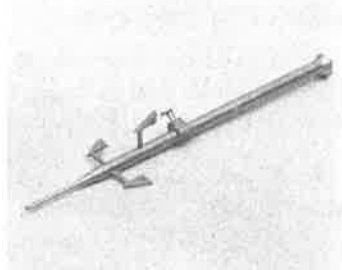
(Fuselage Assembly)



No.1 Aircraft whole duct inside ... ① White
 No.2 Aircraft Rear part of duct ... ① Gull gray + ① Green (a little)

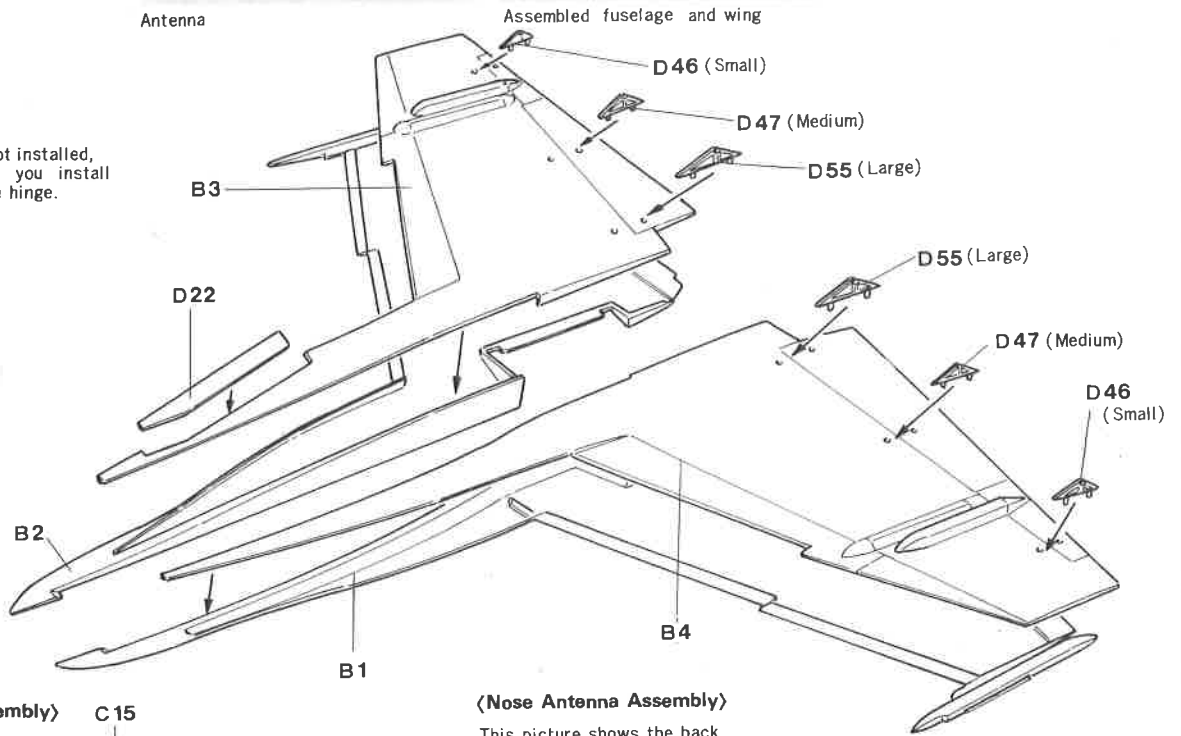
Fix the fuselage using cello-tape until adhesive dries up.

3 General Assembly

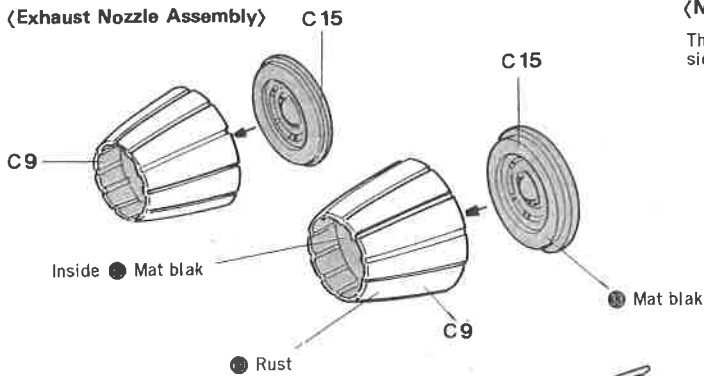


Main Wing Assembly

In case pilot ladder is not installed, cement **D22**. In case you install pilot ladder, cut off the hinge.

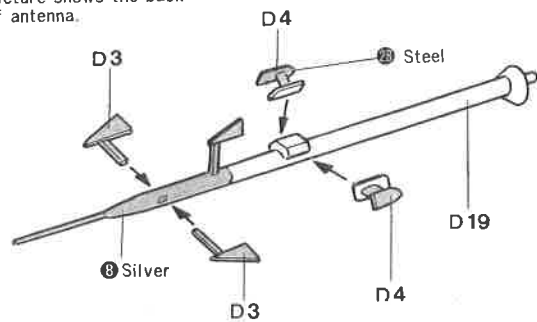


(Exhaust Nozzle Assembly)

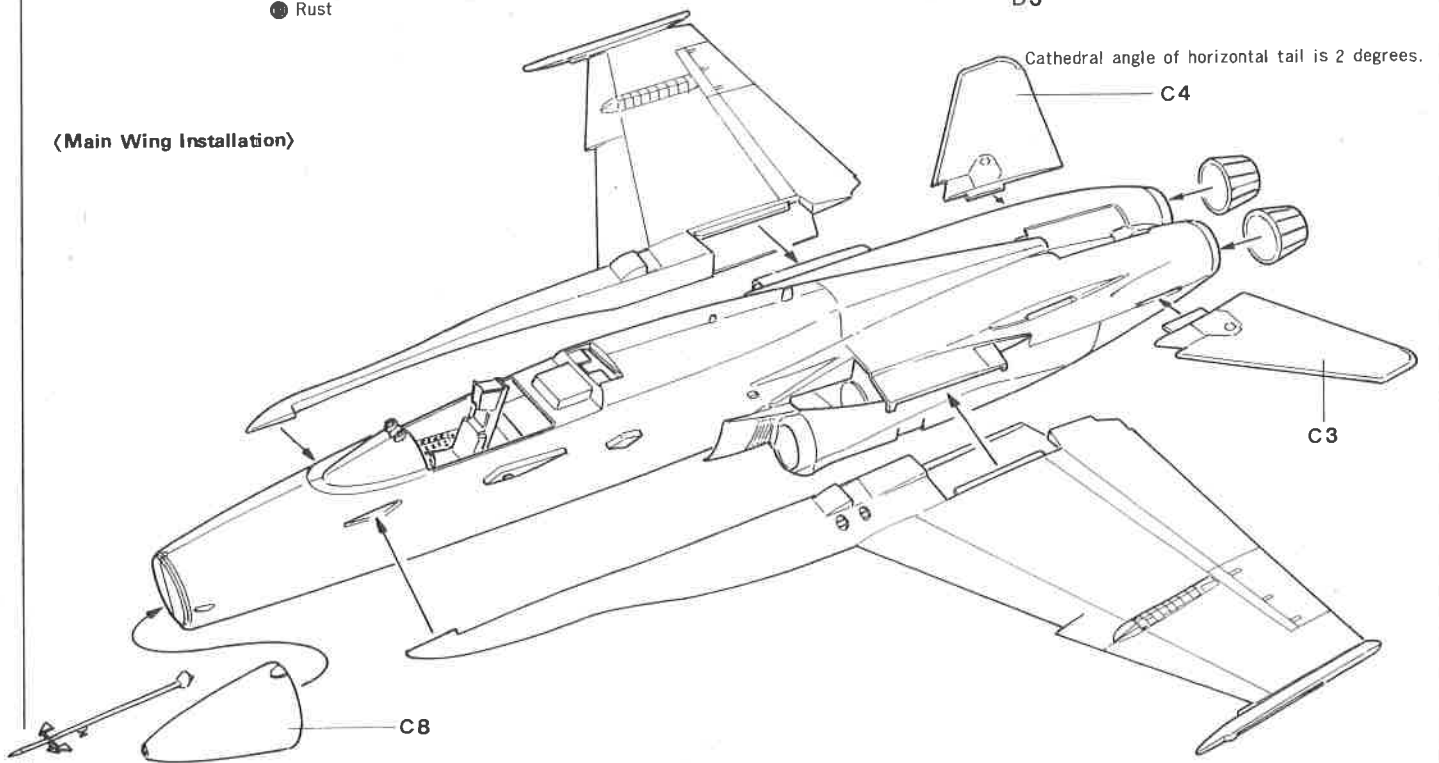


(Nose Antenna Assembly)

This picture shows the back side of antenna.



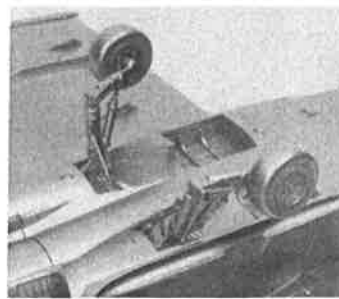
(Main Wing Installation)



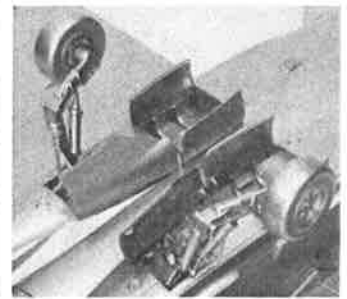
4 Landing Gear Assembly



Nose gear

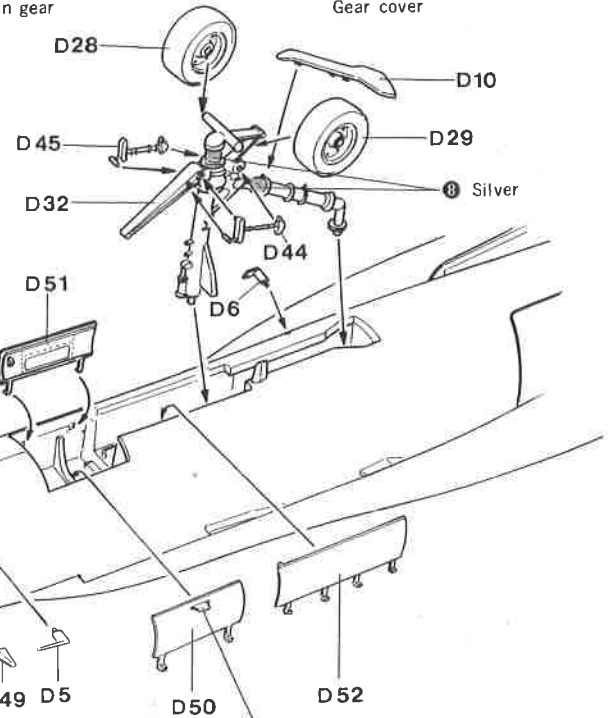
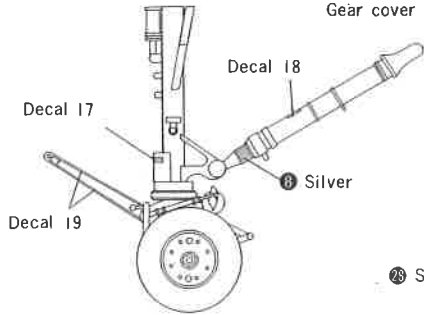


Main gear

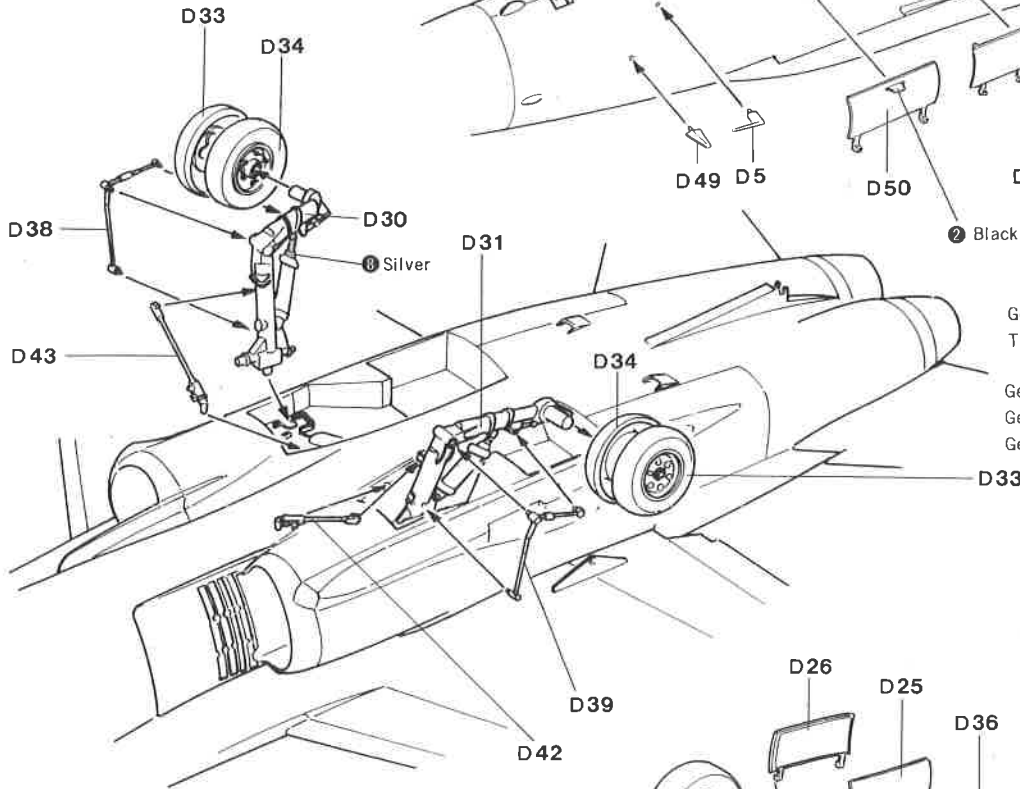


Gear cover

Gear strut, Wheel ① White
 Tire ② Mat black + ③ Neutral gray (a little)
 Gear Well ① White
 Gear cover inside ① White
 Gear cover edge ③ Red

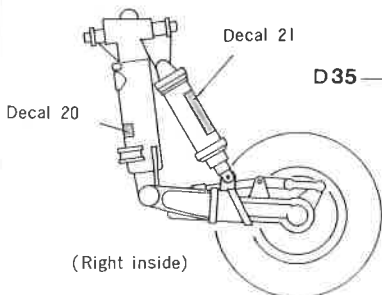


<Main Gear Assembly>

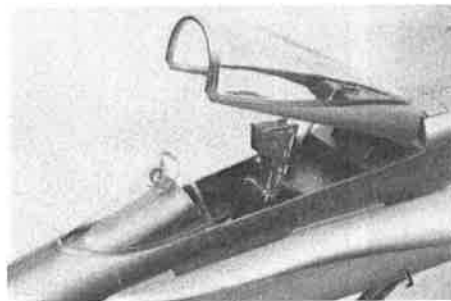


Gear strut, Wheel ① White
 Tire ② Mat black + ③ Neutral gray (a little)
 Gear Well ① White
 Gear cover inside ① White
 Gear cover edge ③ Red

<Gear Cover Assembly>



5 Nose & Rear Part Assembly

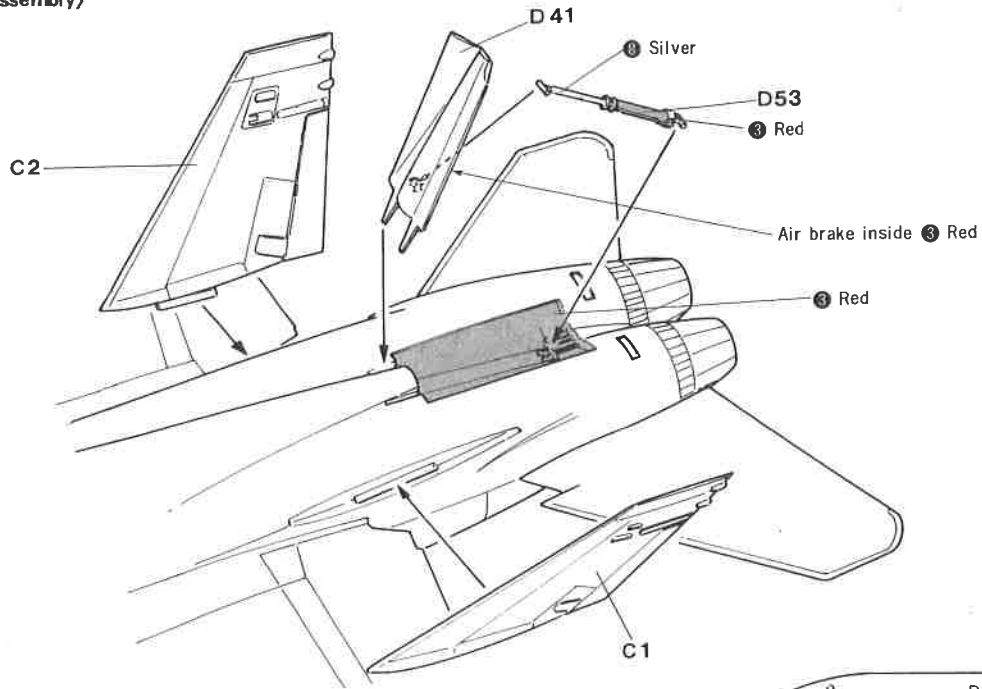


Canopy opened

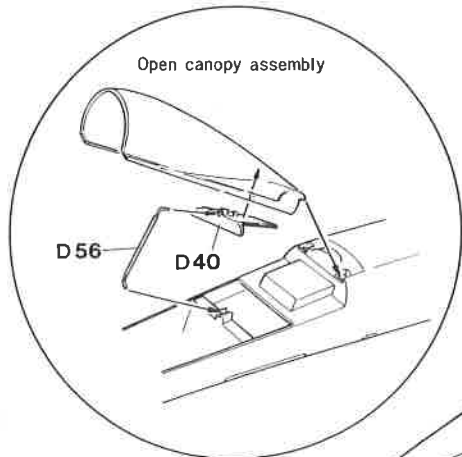


Canopy closed & ladder

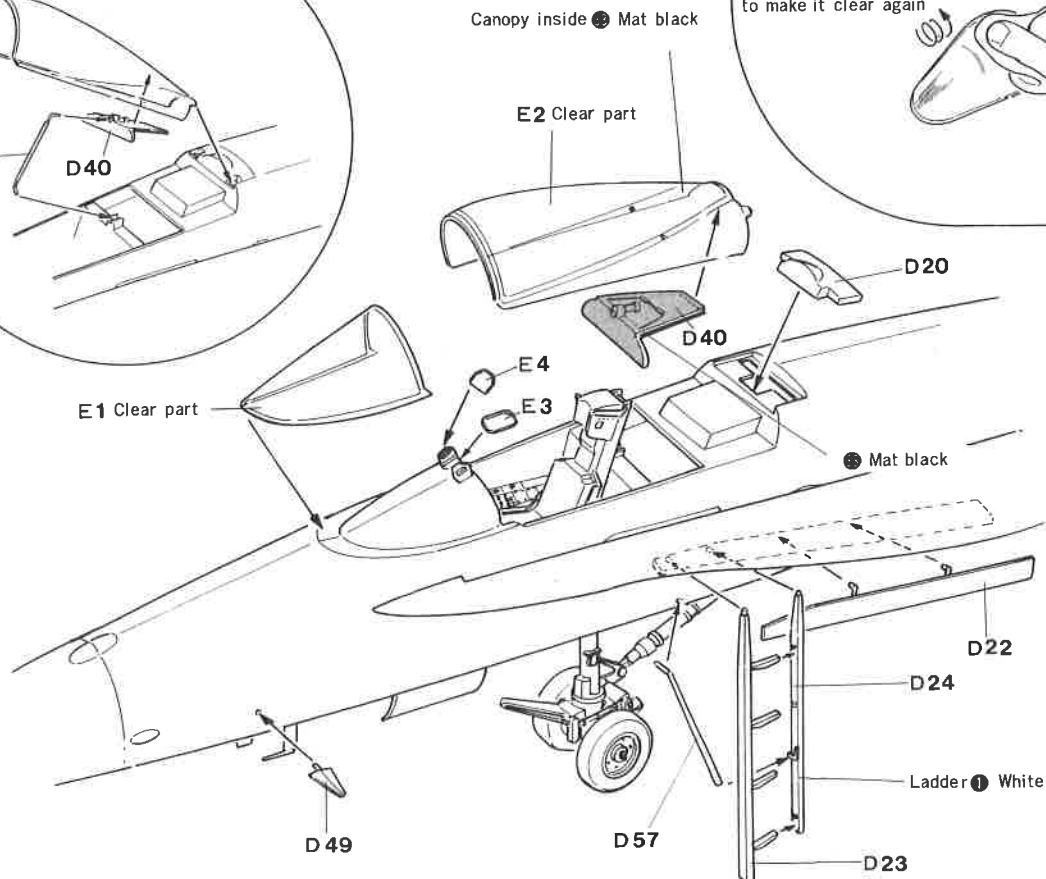
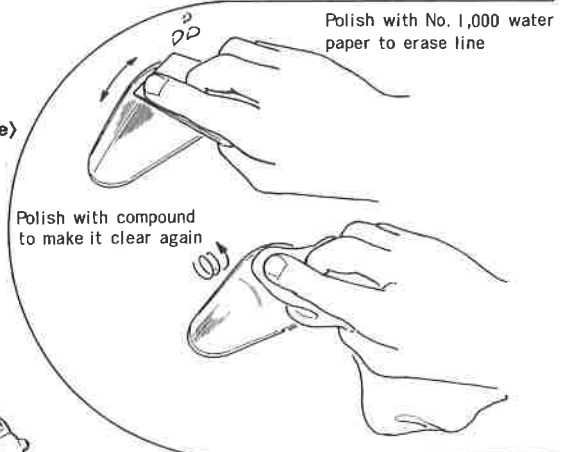
<Vertical Tail Assembly>



<Canopy Installation>

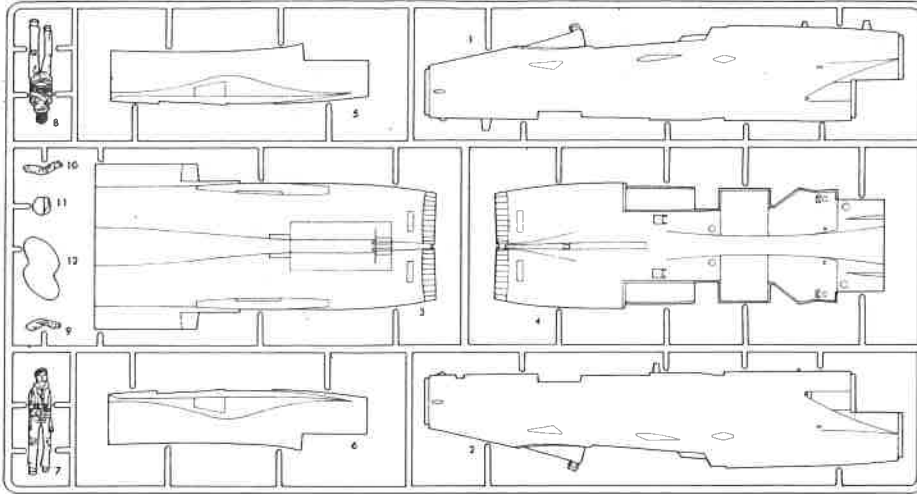


<How to erase canopy parting line>



(Parts No. & Name)

A-Parts



A-Parts

- | | |
|---------------------------|-------------------|
| 1. Front fuselage (L) | 7. Pilot (Front) |
| 2. Front fuselage (R) | 8. Pilot (Back) |
| 3. Rear fuselage (Top) | 9. Pilot arm (L) |
| 4. Rear fuselage (Bottom) | 10. Pilot arm (R) |
| 5. Sparrow launcher (L) | 11. Helmet |
| 6. Sparrow launcher (R) | 12. Pilot base |

B-Parts

- | | |
|----------------------|-------------------------|
| 1. Main wing top (R) | 3. Main wing bottom (L) |
| 2. Main wing top (L) | 4. Main wing bottom (R) |

C-Parts

- | | |
|------------------------|------------------------|
| 1. Vertical tail (L) | 9. Exhaust nozzle |
| 2. Vertical tail (R) | 10. Air intake (L) |
| 3. Horizontal tail (L) | 11. Air intake (R) |
| 4. Horizontal tail (R) | 12. Sidewinder fin |
| 5. Sidewinder | 13. Splitter plate (R) |
| 6. Sparrow | 14. Splitter plate (L) |
| 7. Sparrow | 15. Flame dumper |
| 8. Nose cone | 16. Fuselage rear part |

D-Parts

- | | |
|-----------------------------|-----------------------------|
| 1. Air intake part I | 30. Main gear (L) |
| 1-I Air intake part II | 31. Main gear (R) |
| 2. Throttle lever | 32. Nose gear |
| 3. Antenna part I | 33. Main wheel II |
| 4. Antenna part II | 34. Main wheel II |
| 5. Pitot tube II | 35. Main gear cover III (R) |
| 6. Indicator | 36. Main gear cover I (R) |
| 7. Ejection ring | 37. Main gear cover II (R) |
| 8. Air intake part III (R) | 38. Main gear part I (L) |
| 9. Air intake part III (L) | 39. Main gear part I (R) |
| 10. Nose gear cover I | 40. Canopy part |
| 11. Cockpit | 41. Air brake |
| 12. Seat part I (R) | 42. Main gear part II (L) |
| 13. Seat part I (L) | 43. Main gear part II (R) |
| 14. Foot pedal | 44. Nose gear part (R) |
| 15. Seat part II | 45. Nose gear part (L) |
| 16. Instrument panel | 46. Flap hinge I |
| 17. Seat | 47. Flap hinge II |
| 18. Control stick | 48. Front fuselage part |
| 19. Antenna I | 49. Fin |
| 20. Fuselage part | 50. Nose gear cover II |
| 21. Nose gear well | 51. Nose gear cover III |
| 22. Ladder cover | 52. Nose gear cover IV |
| 23. Ladder I | 53. Air brake actuator |
| 24. Ladder II | 54. Arrestor hook |
| 25. Main gear cover I (L) | 55. Flap hinge |
| 26. Main gear cover II (L) | 56. Canopy actuator |
| 27. Main gear cover III (L) | 57. Ladder strut |
| 28. Nose wheel | |
| 29. Nose wheel | |

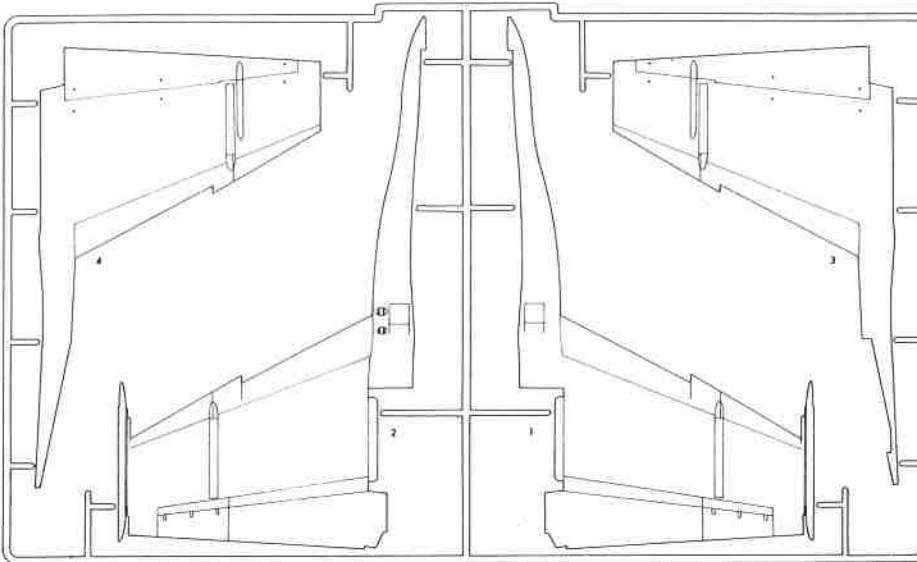
E-Parts

- | | |
|------------------|-----------------------|
| 1. Window shield | 3. Head-up display I |
| 2. Canopy | 4. Head-up display II |

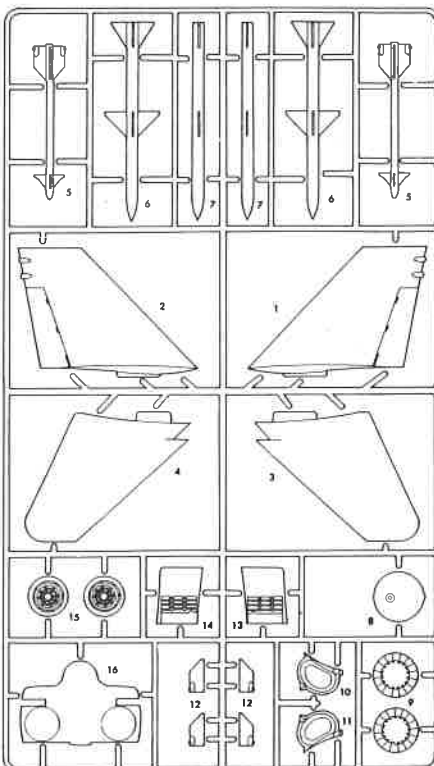
Other Parts

- Decal 2
 Instruction Sheet I
 Marking & Color Painting Guide I
 Color Guide I

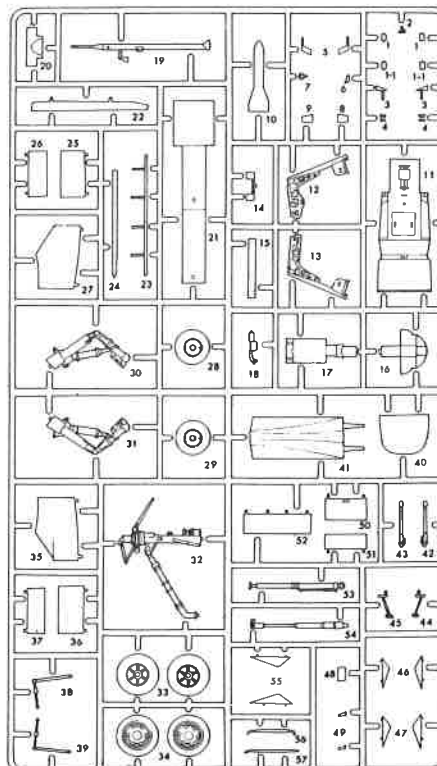
B-Parts



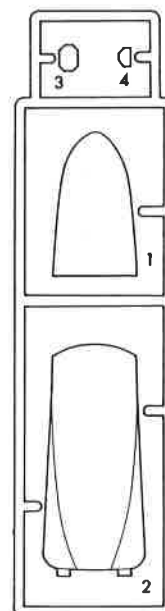
C-Parts



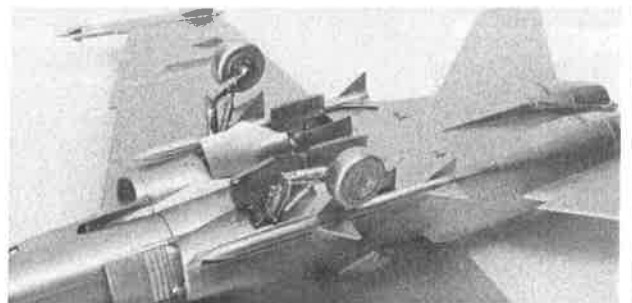
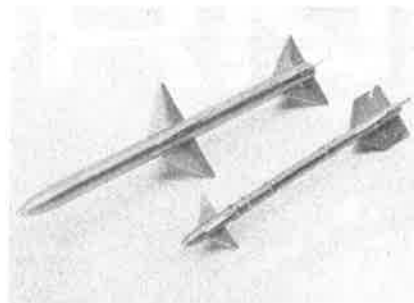
D-Parts



E-Parts

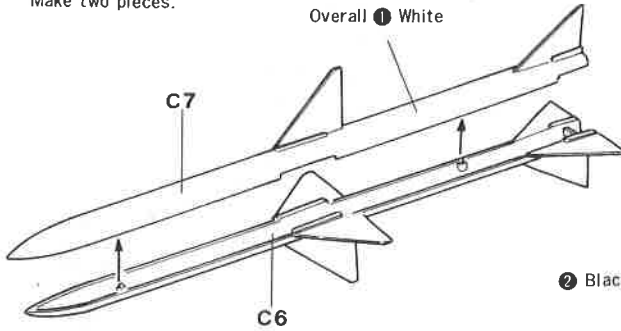


6 Armament Assembly



<Sparrow Assembly>

Make two pieces.

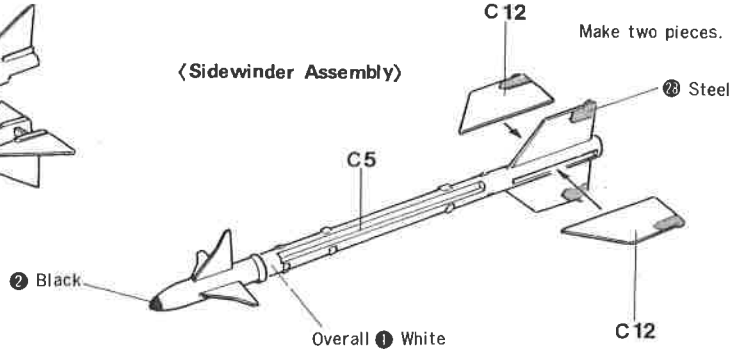


Missiles

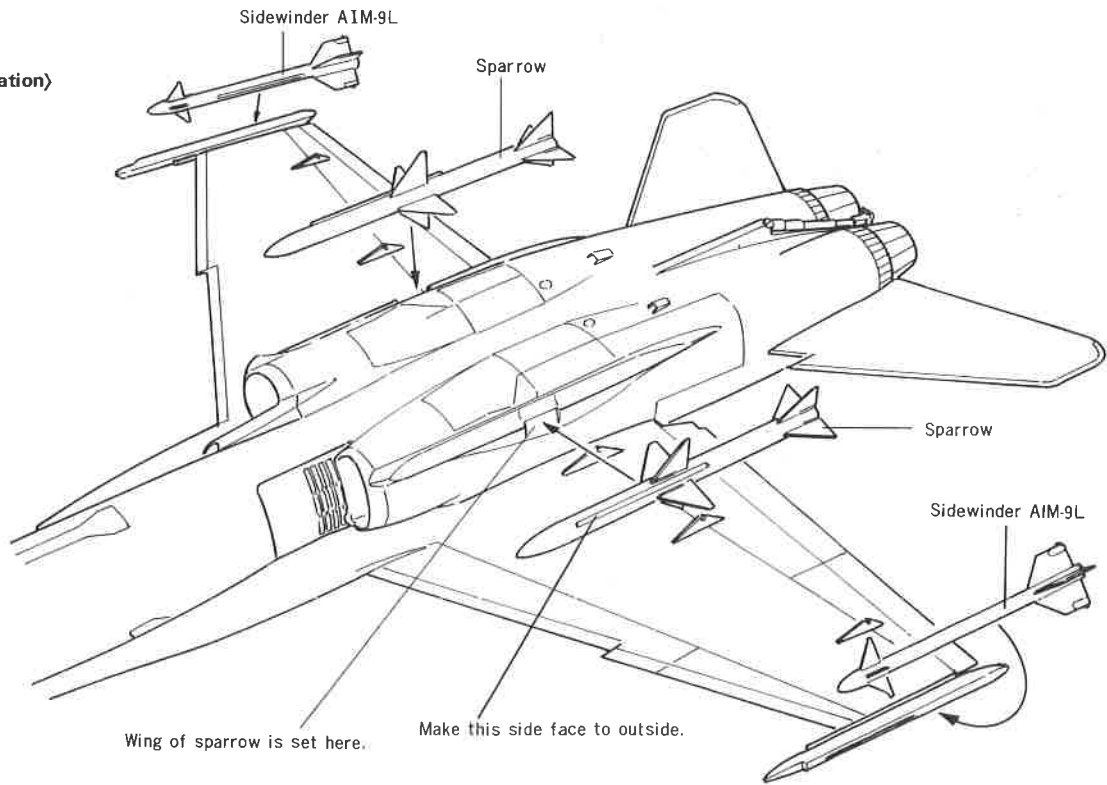
Installed missiles

<Sidewinder Assembly>

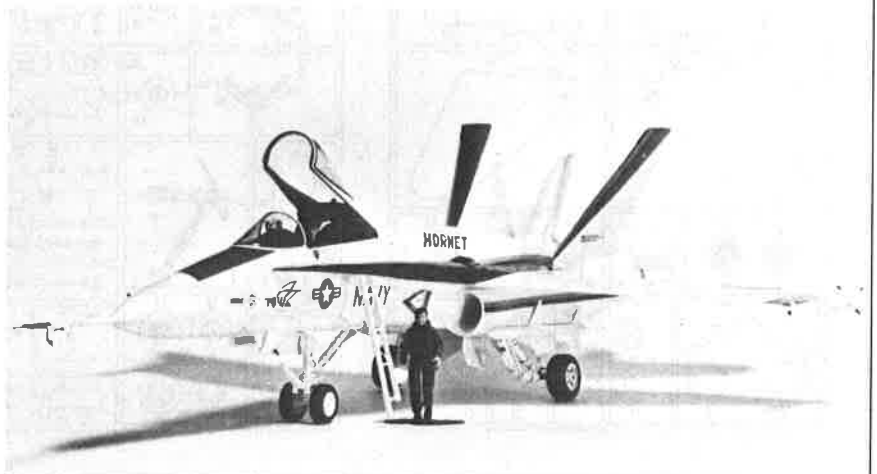
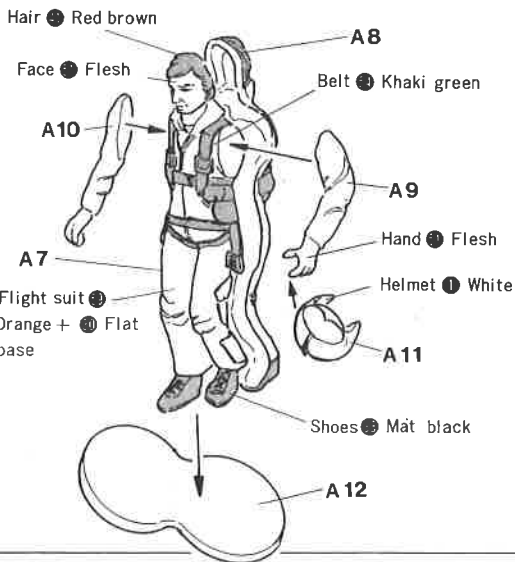
Make two pieces.



<Missiles Installation>



<Pilot Assembly>



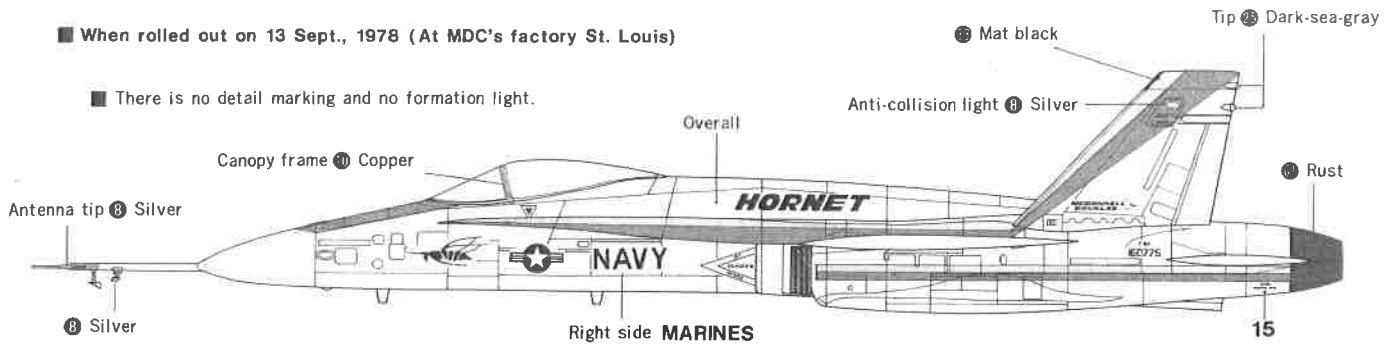
Marking & Color Painting Guide

■ Model color & Gunze color are suitable for painting F-18A.

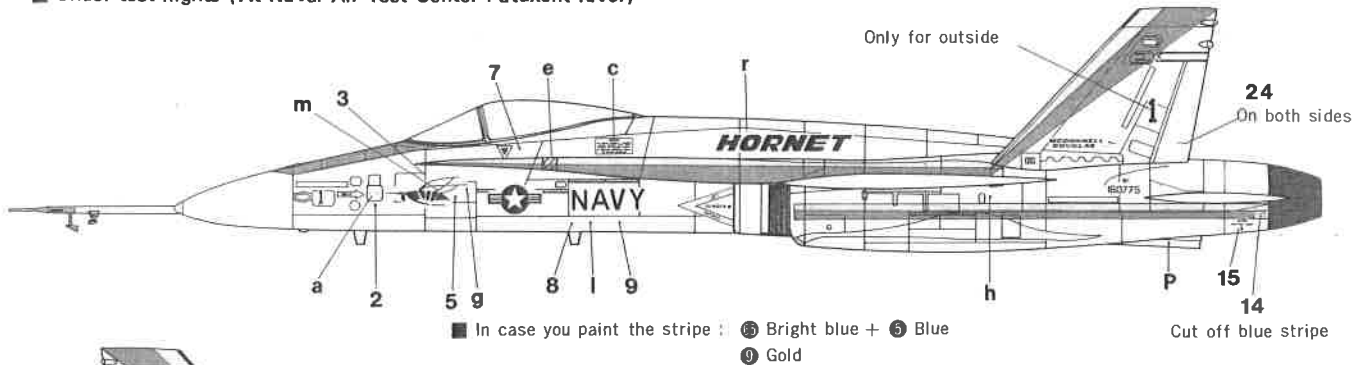
■ F-18A HORNET No.1 Aircraft (Serial No. 160775)

■ When rolled out on 13 Sept., 1978 (At MDC's factory St. Louis)

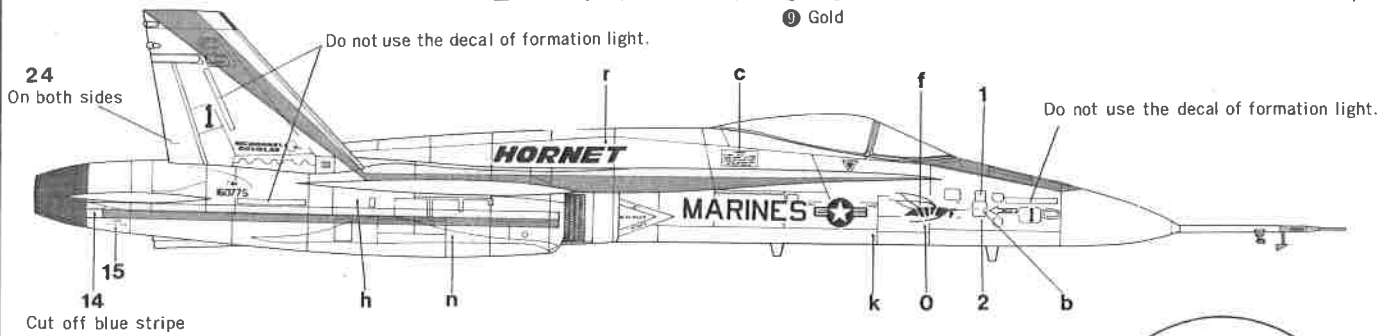
■ There is no detail marking and no formation light.



■ Under test flights (At Naval Air Test Center Patuxent River)



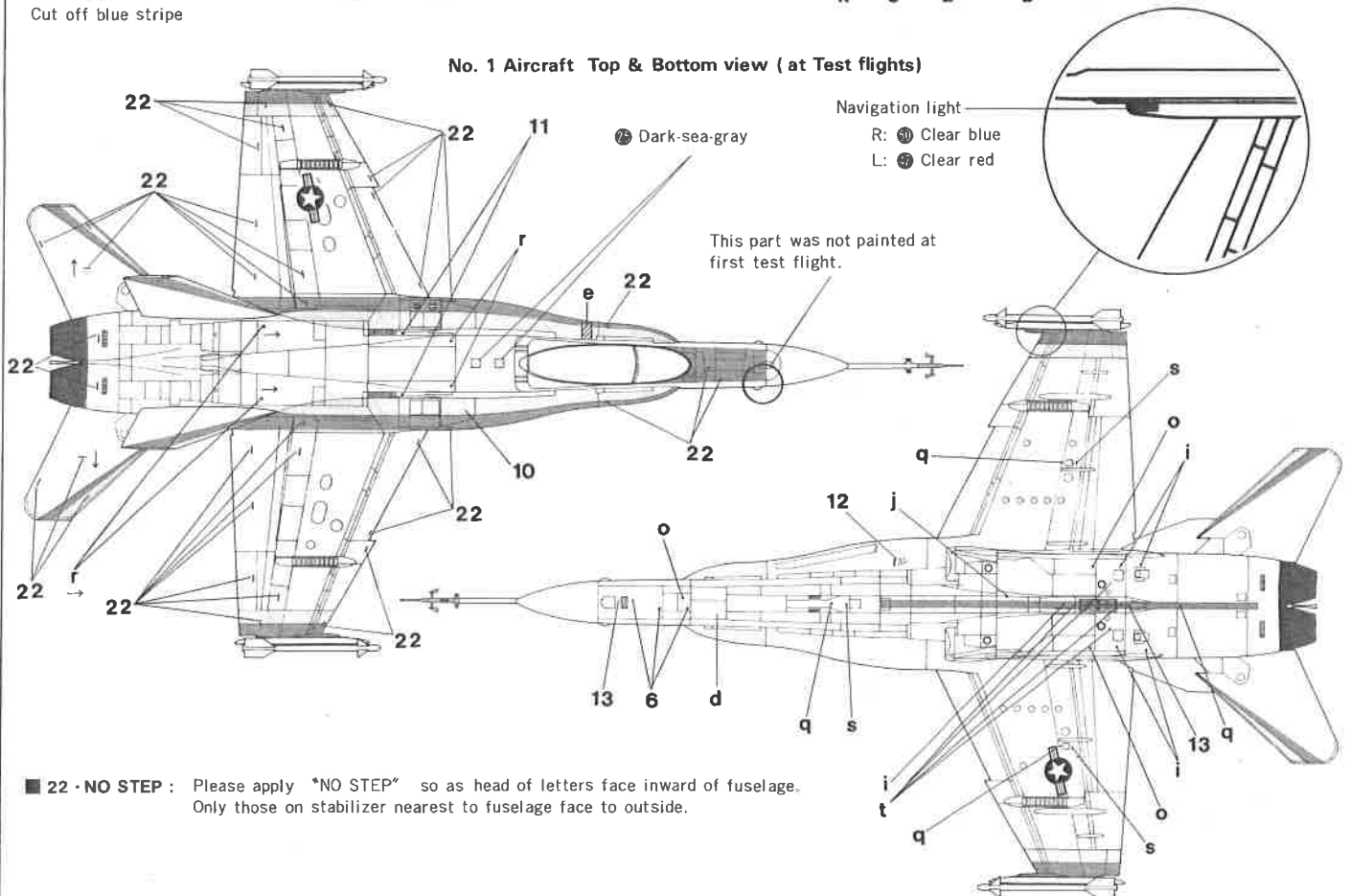
■ In case you paint the stripe : ⑤ Bright blue + ⑥ Blue
⑨ Gold



Do not use the decal of formation light.

Do not use the decal of formation light.

No. 1 Aircraft Top & Bottom view (at Test flights)



Navigation light
R: ⑩ Clear blue
L: ⑪ Clear red

This part was not painted at first test flight.

■ 22 · NO STEP : Please apply "NO STEP" so as head of letters face inward of fuselage. Only those on stabilizer nearest to fuselage face to outside.

