MIKOYAN

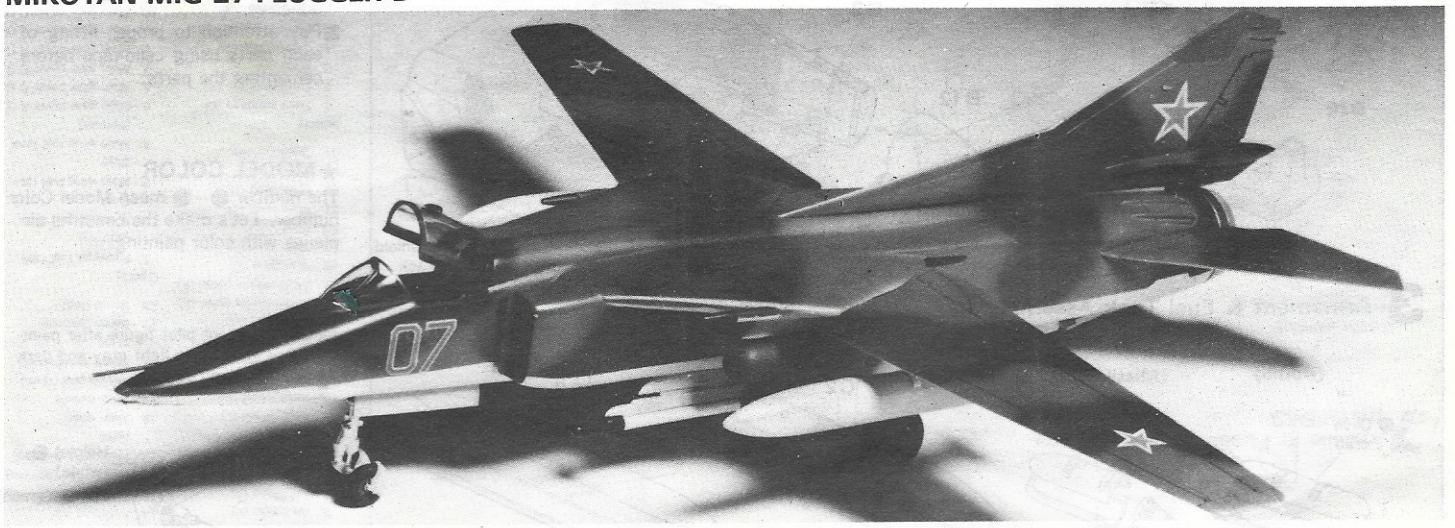
MIG-27 FLOGGER D

HALES

Hasegawa

1/72 Scale Series

MIKOYAN MIG-27 FLOGGER D



The MIG-27 Flogger D is an improved ground-attack fighter bomber version of the MIG-23S Flogger B fighter plane. As compared with the MIG-23S, it is almost the same in structure but remolded in the following points due to its different operational mission.

1) In order to gain a wider foward and downward visibility, the nose section fore of the cockpit is down-tapered, resulting in a somewhat flat cross-section, and the pittot tube is put aside a little to the right from the center.
2) The engine inlets are converted from variable type to fixed one with the current adjuster extended forwards within the inlets cut short.
3) The afterburner aft of the engine is simplified and its tail section has become shorter.
4) The twin-barrelled 23 mm cannon mounted beneath the fuselage of the Flogger B is replaced by a six-barrelled 30 mm gatling gun and a total of seven hard points can be provided, if necessary, at the center and the both sides of the fuselage bottom, beneath the wing glove, and also beneath the outer wings.
5) Other than the above, it is possible to equip various types of air-to-air missiles, air-to-surface missiles, bombs, extra tanks and other external armament.
6) An active ECM antenna is provided protruding from the leading edge of the glove.
7) The Flogger F, export model, is powered by the AL-21-3 engine which turns out a lower output than that of the Flogger D, and armed by a twin-barrelled 23 mm cannon.

As mentioned above, the MIG-27 may be called a variant from of the MIG-23 series. This is much similar to the case that the F-111, U.S. Air Force, was improved to the FB-111 for the operational mission. However, the MIG-27 is much smaller than the FB-111 and it is estimated that its external armament weighs about 1900 kg. The main wing sweep angle of the MIG-23/27 is variable in three steps; 16 degrees suited for low-speed flight just as in taking-off and landing, 45 degrees for cruising, dog-fight and ground-attack and 72 degrees for high-speed flight. The dog-tooth fitted in the inside of the outer wing leading edge is of use for adjusting the current at high-speed flight. The gunder flaps on the outer wing leading edge improves maneuverability and the slotted flaps on the trailing edge increase lift and drug to make low-speed flight as in taking-off or landing, safe and stable. The ventral fin beneath the rear fuselage folds starboard so that it will not touch the ground in taking-off and landing.

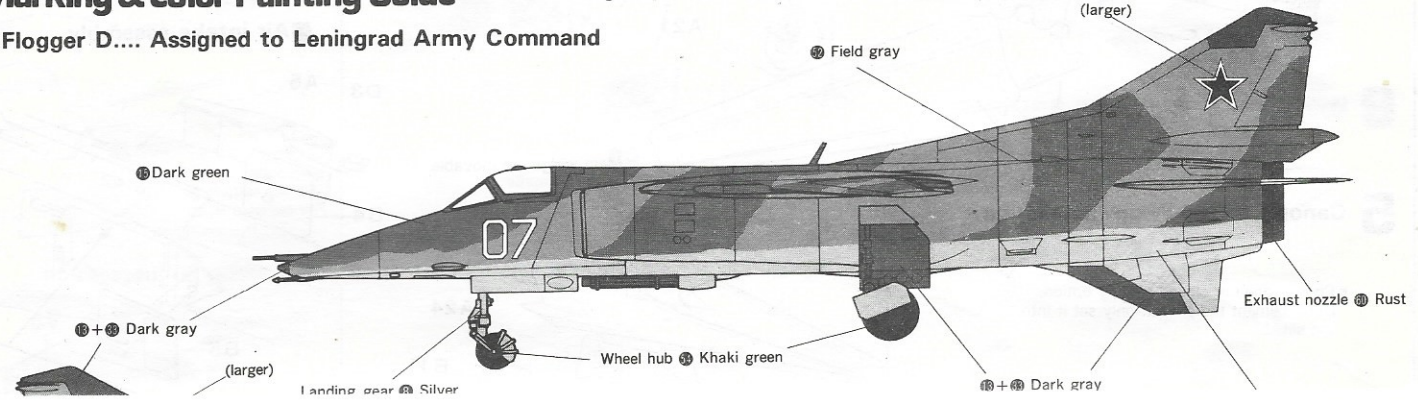
Data of Flogger D

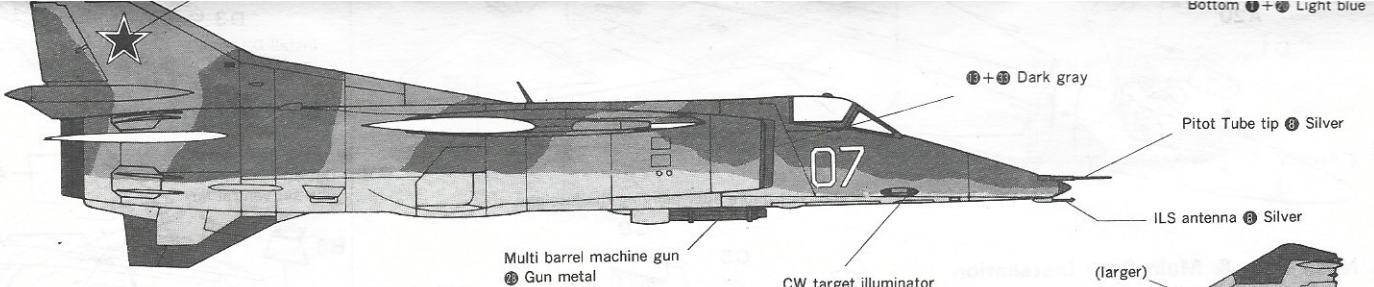
Crew	: 1
Powerplant	: LYULKA AL-21-8 Turbo Jet Engine Thrust 11,000 kg
Dimension	: Wing span 14.25 m(max.) 8.12 m(min.) Fuselage length 16.80 m Wing area 27.26 m²
Weight	: 17,750 kg (Fully loaded)
Performance	: Max. speed Mach 1.7 (at 12,000 m altitude) Max. cruising range 2,500 km Take-off ground run (at 45,700 kg weight) 800 m Max. weight of external armament 1,900 kg

Marking & Color Painting Guide

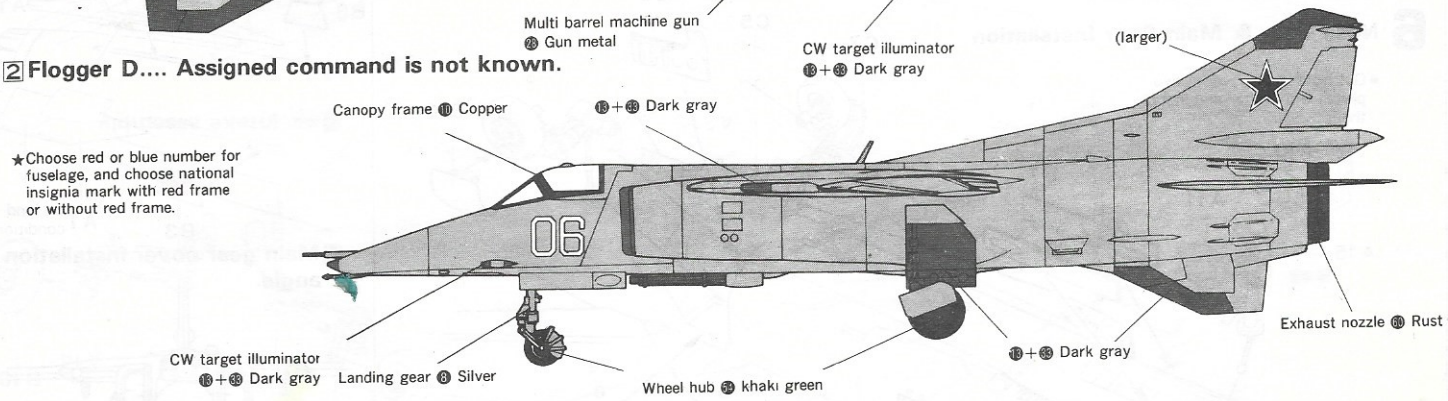
★Camouflaged pattern is, in a part, a pressumption.

1 Flogger D.... Assigned to Leningrad Army Command



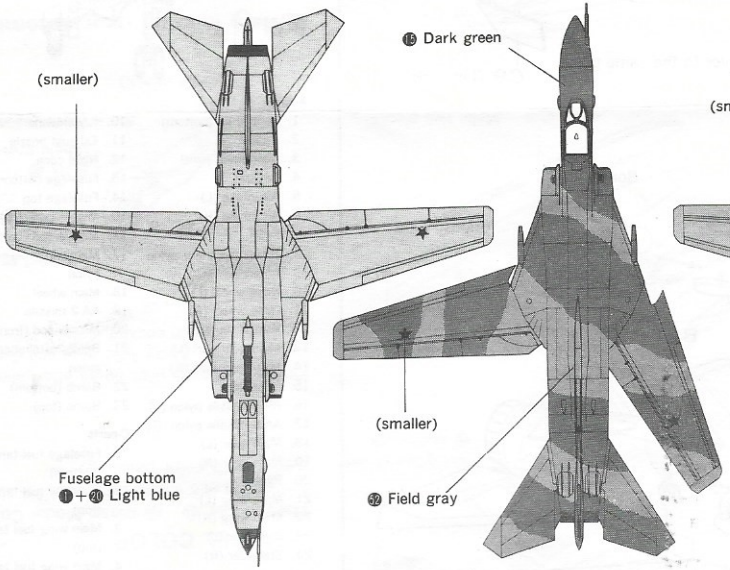


2 Flogger D.... Assigned command is not known.

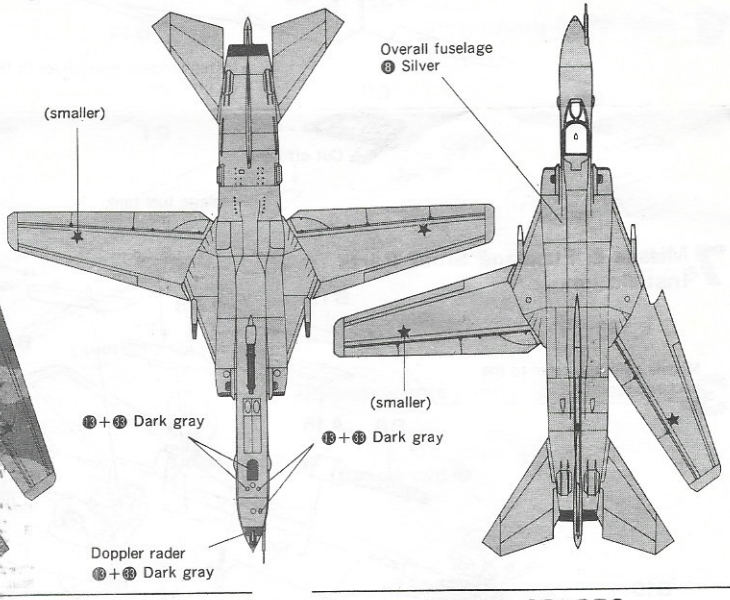


★Detail color painting is same both on 1 and 2.

Top and bottom view of 1



Top and bottom view of 2



COLOR PAINTING OF MIG 27

Color painting of Mig 27 flogger D is similar to other Russian aircrafts. There are two types of color painting; that is, one color painting of silver for overall fuselage and two colors camouflaged painting of dark green and field gray (very similar to German Army uniform) for upper surface of fuselage.
Detail painting is supposed to be as follows;
Wheel hub... Khaki green, Landing gear cover inside... Dark gray, Canopy frame.... Copper for silver painted version, Dark green for camouflaged version.

HOW TO APPLY DECALS

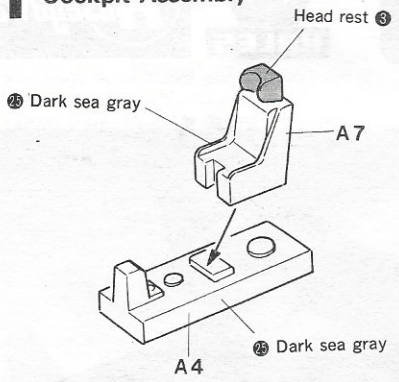
1. Cut out the decal and remove the film covering. Place it in water for 20 seconds.
2. Slide slightly the decal on the paste-board.
3. Press the decal with a soft cloth and remove the moisture and surplus adhesive.

MODEL COLORS

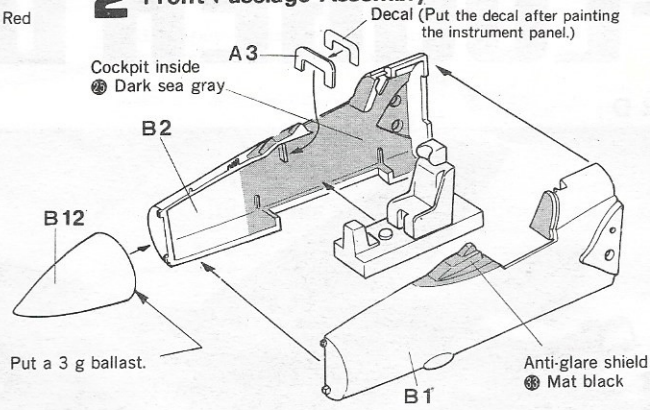
Model Colors are numbered
After assembling, be sure to paint the model in order to enhance your workmanship. As to paint tiny parts, use a profile brush, and paint wide area, use a flat brush.

Manufactured in Japan & Packed in England by A. A. Hales Ltd., Hinckley, Leics.

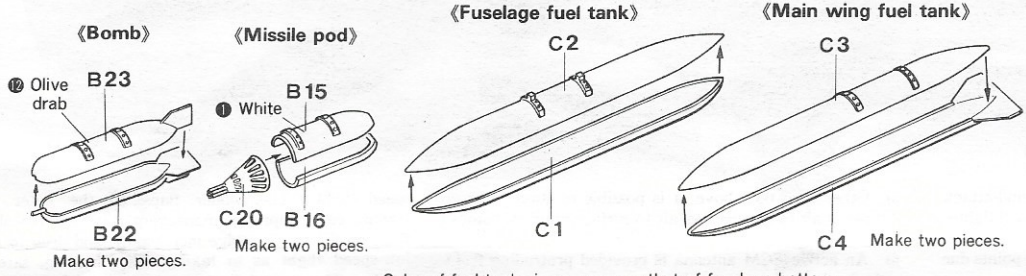
1 Cockpit Assembly



2 Front Fuselage Assembly



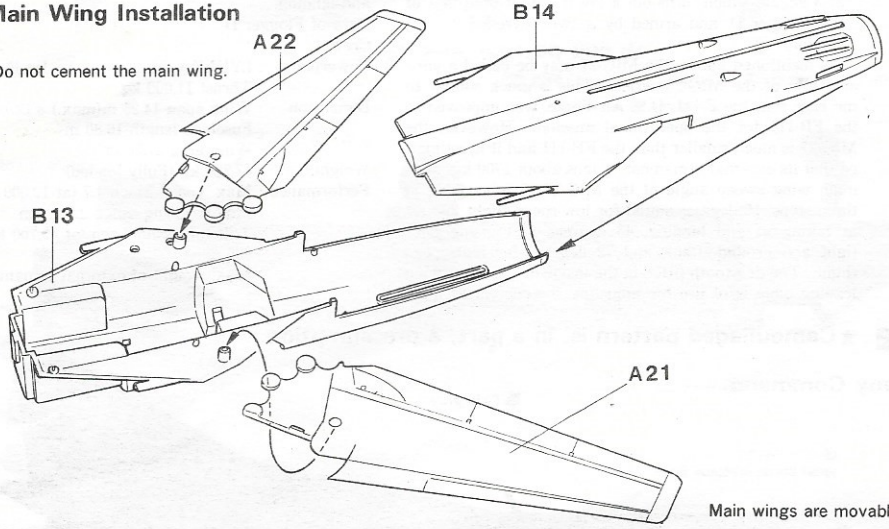
3 Armament & Fuel Tank Assembly



■ Color of fuel tanks is as same as that of fuselage bottom.

4 Main Wing Installation

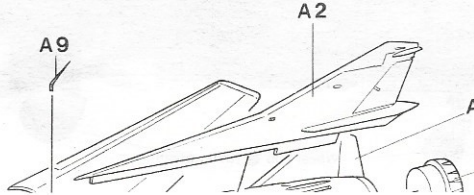
■ Do not cement the main wing.



Main wings are movable.

5 Canopy & Tail Wing Installation

■ Choose open or closed canopy option. Don't cement the pin but only set it into the slit.



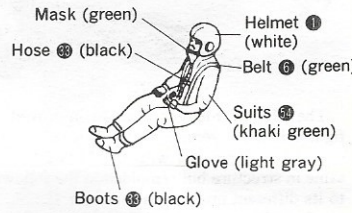
★Before assembling

- Follow the instructions carefully.
- Cut off the parts from the stem with a nipper or cutter.
- When using adhesive, apply it to both parts to be cemented. Please take care not to apply too much adhesive.
- Pay attention to proper fitting of each parts using cello-tape before cementing the parts.

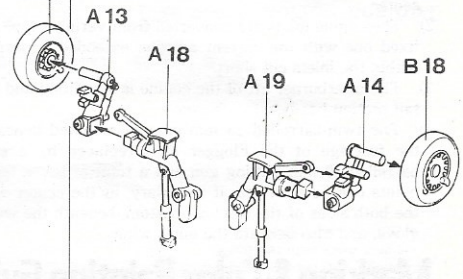
★MODEL COLOR

The number ❶~㉜ mean Model Color number. Let's make the beautiful airplanes with color painting!

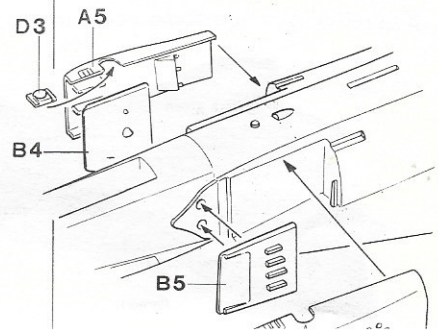
Picture-1 Cement pilot figure after painting. Apply light gray and dark gray on cockpit.

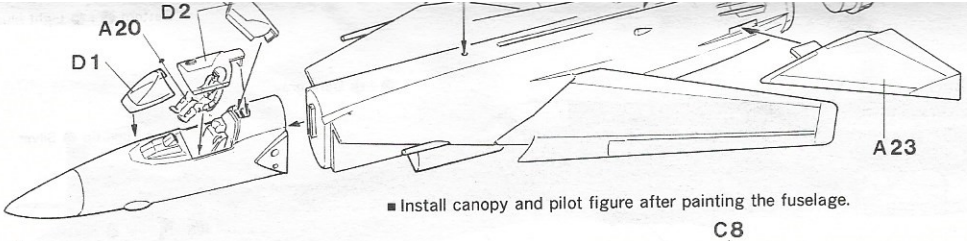


■Main landing gear assembly



■Air intake assembly

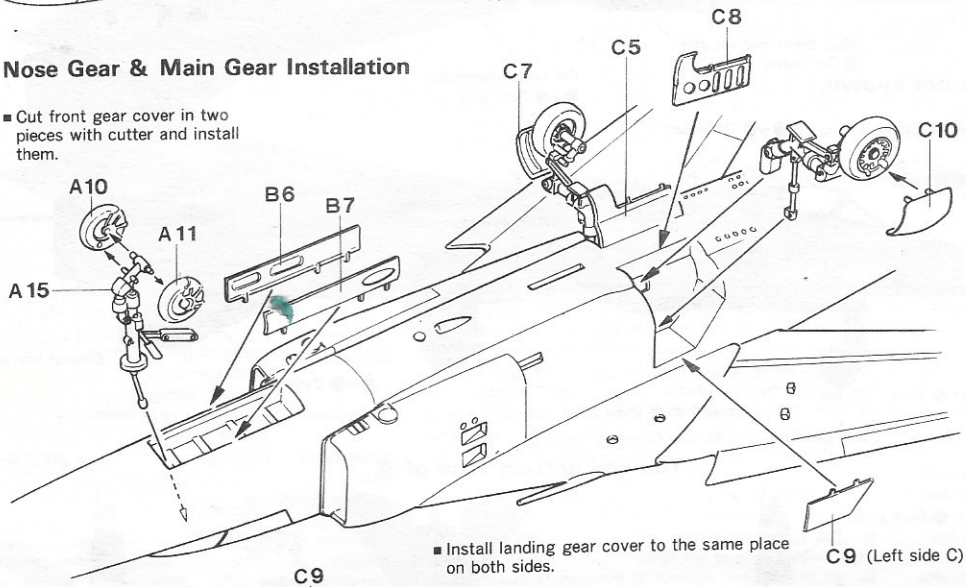




■ Install canopy and pilot figure after painting the fuselage.

6 Nose Gear & Main Gear Installation

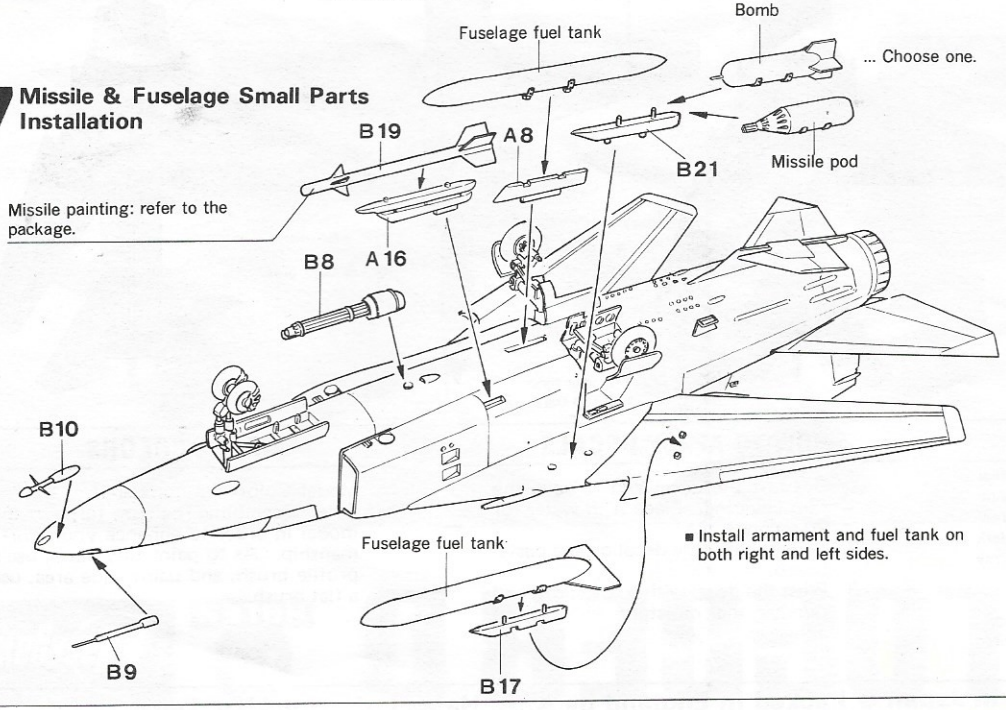
■ Cut front gear cover in two pieces with cutter and install them.



■ Install landing gear cover to the same place on both sides.

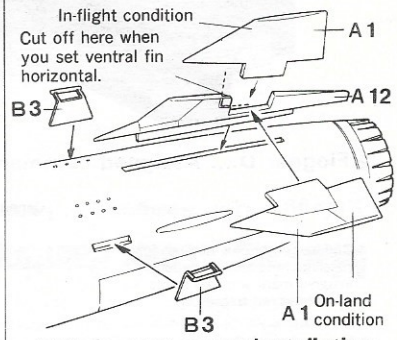
C9 (Left side C)

7 Missile & Fuselage Small Parts Installation

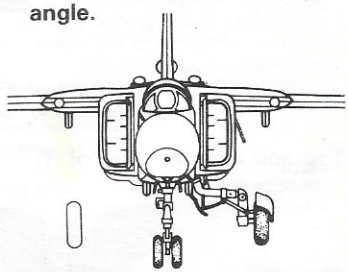


■ Install armament and fuel tank on both right and left sides.

■Ventral fin installation



■Main gear cover installation angle.



A-parts

1. Ventral fin (bottom)
2. Rudder
3. Instrument panel
4. Cockpit
5. Air intake (L)
6. Air intake (R)
7. Seat
8. Fuselage central pylon
9. Antenna
10. Nose wheel (L)
11. Nose wheel (R)
12. Ventral fin (top)
13. Main gear part (L)
14. Main gear part (R)
15. Nose gear
16. AA-8 missile pylon (L)
17. AA-8 missile pylon (R)
18. Main gear (L)
19. Main gear (R)
20. Pilot
21. Main wing (L)
22. Main wing (R)
23. Stabilizer (L)
24. Stabilizer (R)

B-parts

1. Front fuselage (L)
2. Front fuselage (R)
3. Step
4. Current adjuster (L)
5. Current adjuster (R)
6. Nose gear cover (L)
7. Nose gear cover (R)
8. Multi barrel muchine gun
9. Pitot tube
10. ILS antenna
11. Exhaust nozzle
12. Nose cone
13. Fuselage bottom
14. Fuselage top
15. Missile pod (top)
16. Missile pod (bottom)
17. Main wing fuel tank pylon
18. Main wheel
19. AA-2 missile
20. Missile pod (front)
21. Bomb installation pylon
22. Bomb (bottom)
23. Bomb (top)

C-parts

1. Fuselage fuel tank (bottom)
2. Fuselage fuel tank (top)
3. Main wing fuel tank (top)
4. Main wing fuel tank (bottom)
5. Main gear cover A (L)
6. Main gear cover B (L)
7. Main gear cover C (L)
8. Main gear cover A (R)
9. Main gear cover B (R)
10. Main gear cover C (R)

D-parts

1. Canopy (front)
2. Canopy (rear)
3. Landing light

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