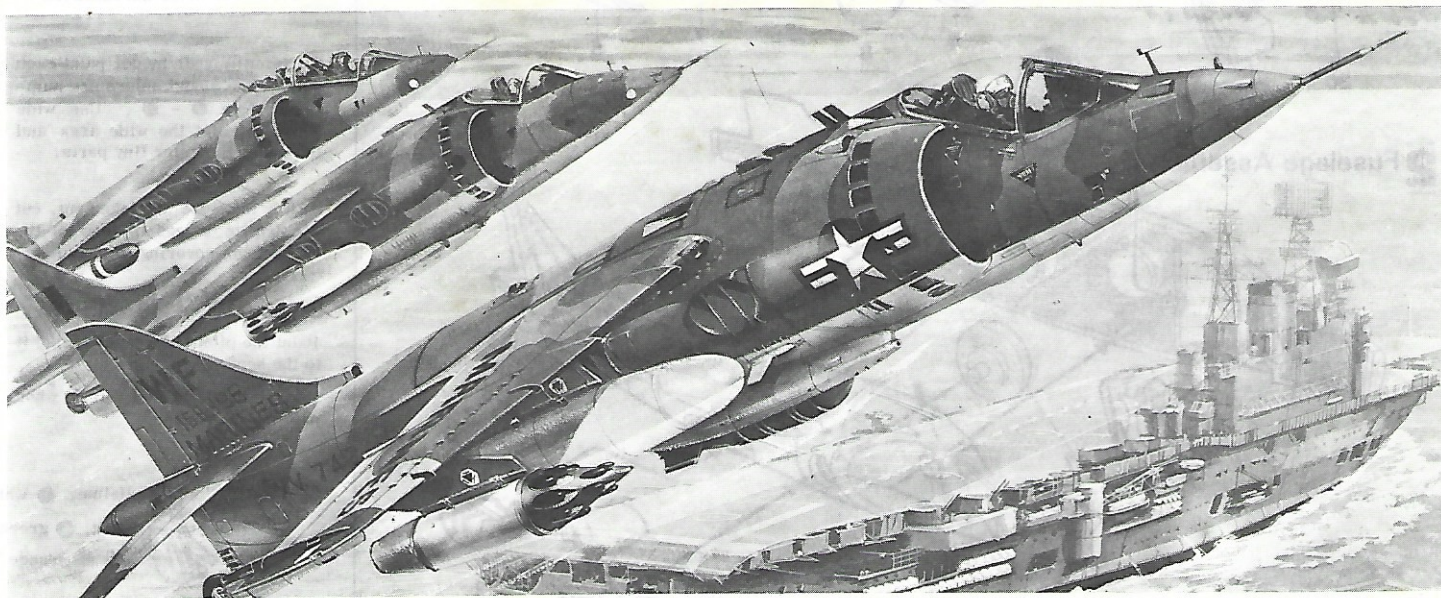


# HAWKER SIDDELEY HARRIER GR-1

1/72 Scale Series Kit No. JS-028



HASEGAWA



## HISTORY

Commented by: T. Nozawa

The V/STOL is a vertical short take-off and landing aircraft, and can stay in the air. Harrier, the world's first V/STOL fighter plane, could easily land and take-off in an area the size of a school playground, a tennis court, a secret base in the forest or on a ship. As its maximum speed is Mach 1.25, it is very useful in dogfights, ground attacks, bombing, reconnaissance and liaison services. The exhaust nozzles for the jet engines are on each side of the fuselage. The angle can be moved from horizontal to 94° downward, and by this, the vertical take-off and forward flight is activated. Beside this, in negotiating the position of the airframe, the air from the high pressure compressor is directed and jetted to the nose, tail and to the control valves on top of both wings. Harrier prototype, Hawker P.1127, flew for the first time in 1960. After 6 years of operating experience with the Kestrel series the first close support and tactical reconnaissance version - Harrier GR.1 was produced in 1967; the first two-seater Harrier T.2 trainer flew in 1969. The first Harrier operated with the British Air Force, then with the U.S. Marines (designated AV-8A) and the U.S. Navy with a remodeled version.




Under the fuselage and the wings are 30 mm Aden gunpods, rocket bombs or air-to-air missiles or camera pods for reconnaissance. For long range flight, an auxiliary fuel tank can be installed. These combinations can be altered according to the mission. The rigging indicated in the assembly drawing are the typical examples.

## DATA

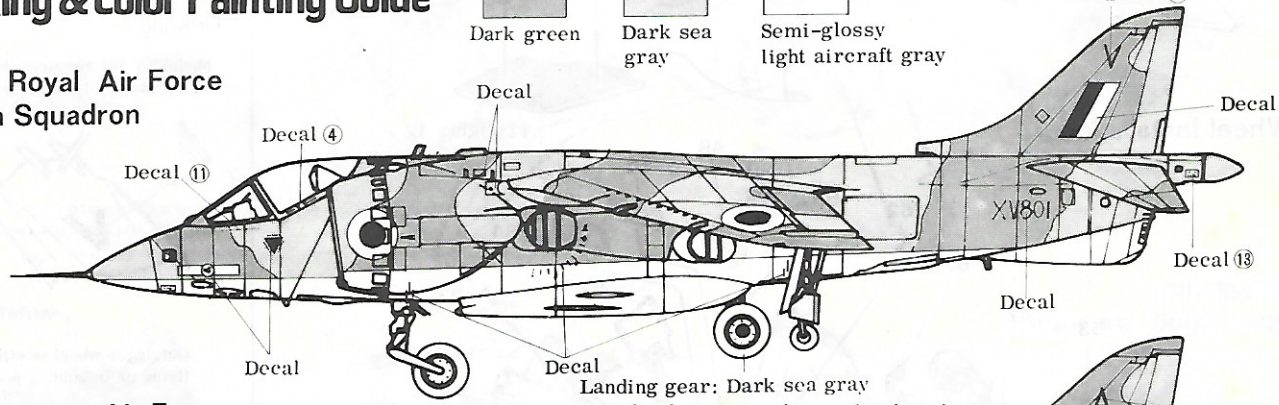
Crew: 1 / Engine: Rolls-Royce Bristol Pegasus 101, Turbofan, Thrust: 8,620 kg x 1 / Wing span: 7.70 m / Overall length: 13.91 m / Overall height: 3.43 m / Wing area: 18.68 m<sup>2</sup> / Basic weight: VTOL 7,260 kg, STOL 11,340 kg / Max. speed: Mach 1.25 (approx. 1,400 km/h), 1,200 km/h (low altitude) / Absolute service ceiling, without armaments: 14,040 m / Max. range without armaments: 3,700 km / Max. armaments: 3,630 kg

The airframe on the T.2 is larger than the GR.1; the wing span is 9.08 m, the overall length, 17.10 m and the basic weight, 6,000 kg.

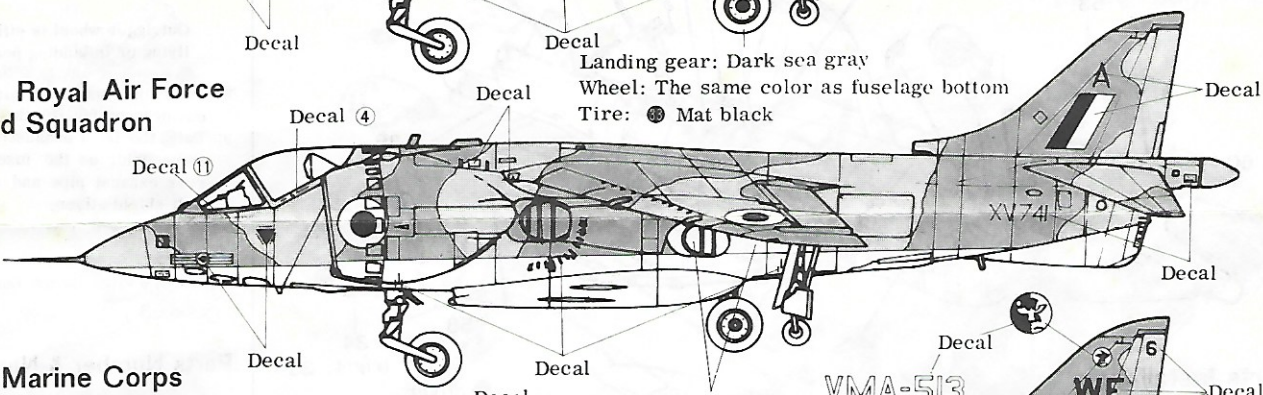
# Marking & Color Painting Guide

-   
 Dark green
-   
 Dark sea gray
-   
 Semi-glossy light aircraft gray

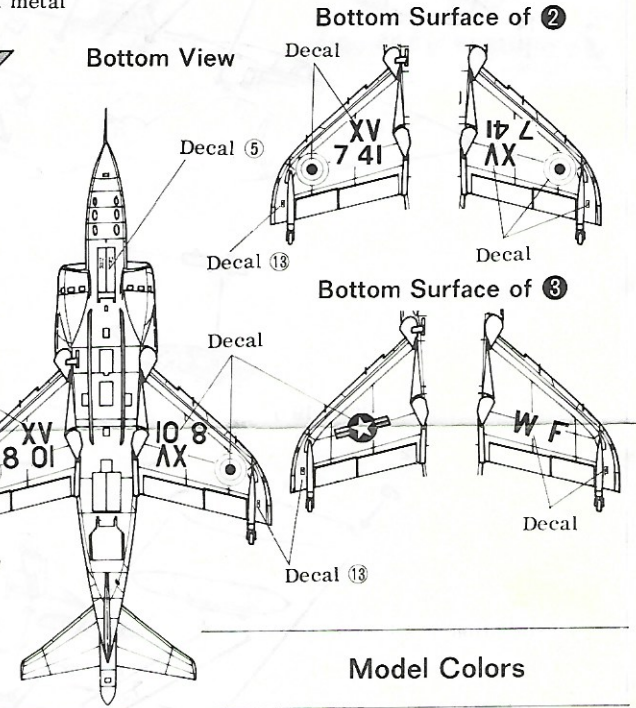
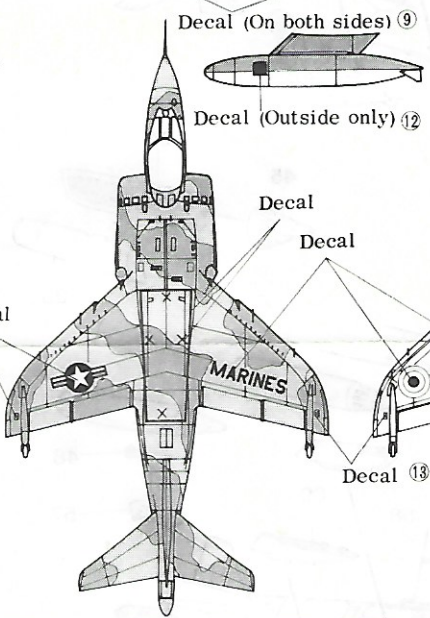
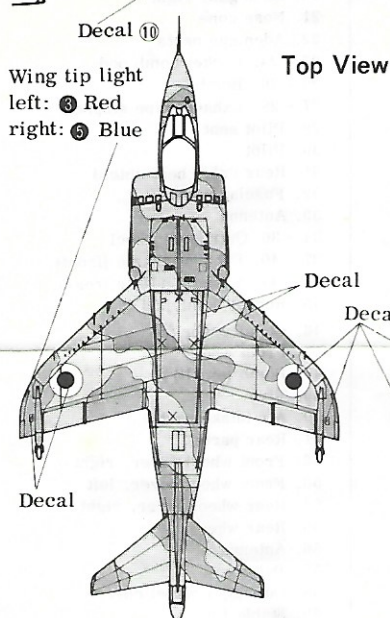
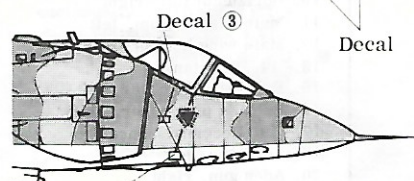
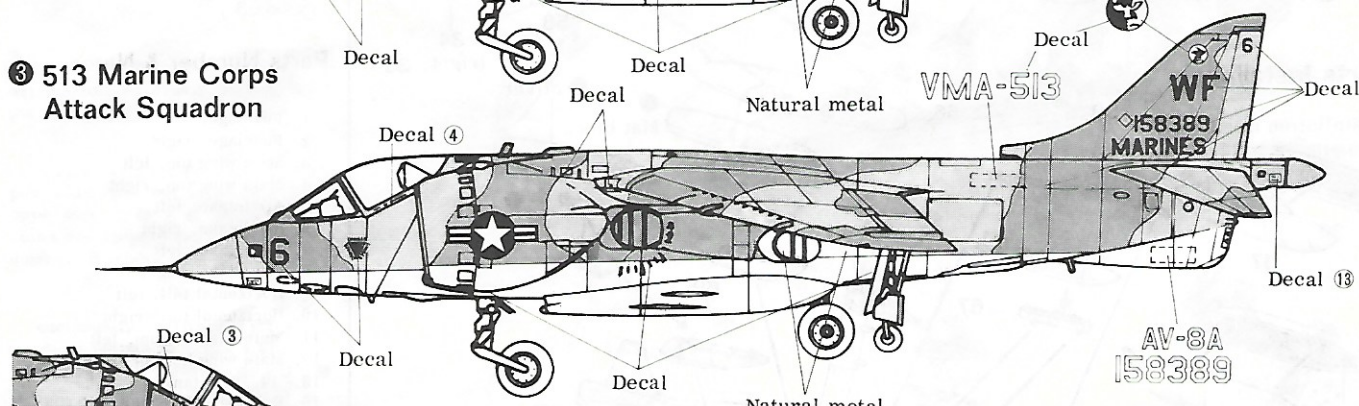
## ① The Royal Air Force 20th Squadron



## ② The Royal Air Force Third Squadron



## ③ 513 Marine Corps Attack Squadron



**Painting**

After 1971, the previous glossy painting was changed to a mat finish. Also the fin flush and roundel were renovated and became like the type B of the World War II, to give the camouflage its maximum effectiveness. The cockpit inside is glossy light gray; the landing gear cover and airbrake inside are the same color. The fan air nozzle in the front jet nozzle is dark green, and the back turbine exhaust nozzle and the deflector plate are natural metal. In mixing the camouflage colors, start a little of paint and add more. The border of camouflage is unclear.

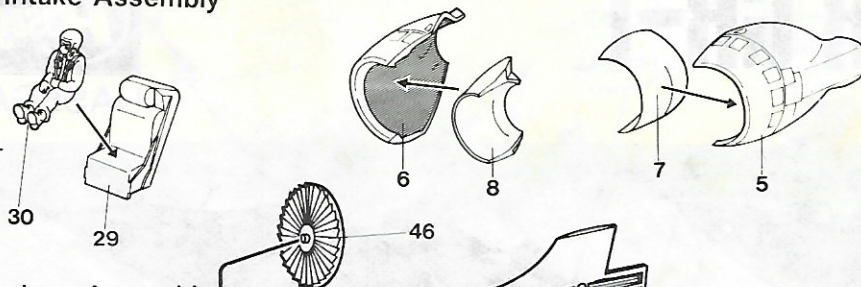
- Decals**
1. Cut out the decal and remove the film covering.
  2. Place in water for 20 seconds.
  3. Slide off the decal from the paper and position it at the proper place.
  4. Press the transferred decal with a soft cloth and remove the moisture.

- Model Colors**
- \*Dark green (BS 381 C No. 641): (23) + a little of (54)
  - \*Dark sea gray (BS 381 C No. 638): (25)
  - \*Semi-glossy light aircraft gray (BS 381 C No. 627): (62) + a little of (25)

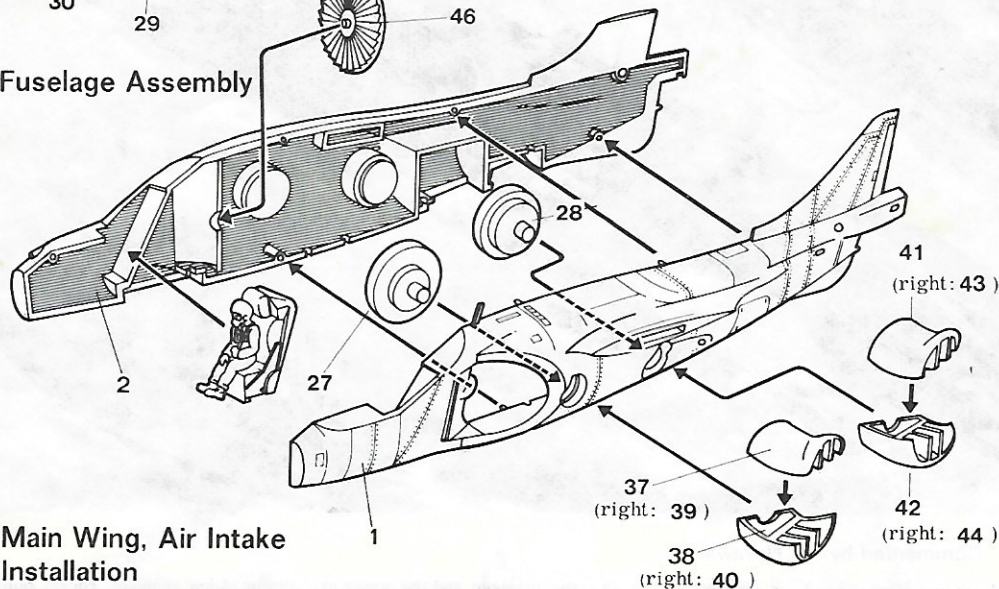
MANUFACTURED IN JAPAN  
& PACKED IN ENGLAND  
By A. A. HALES LTD.  
HINCKLEY, LEICS.



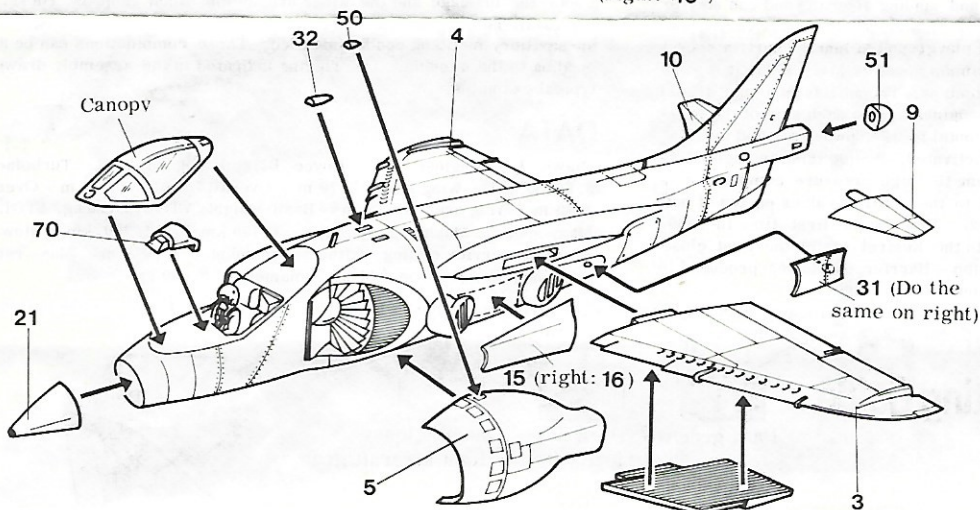
## 1 Air Intake Assembly



## 2 Fuselage Assembly



## 3 Main Wing, Air Intake Installation



## ★ Before Assembling

- First read all the instructions and follow them when working on the model.
- Cut off the parts from the stem with a nipper or cutter. First read all the introductions

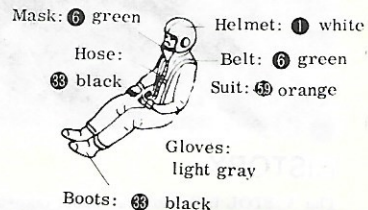
To beautify your model paint each parts. The model colors are numbered from ① - ⑩. Use wide brush to paint the wide area and the pointed one for tiny parts.

\*After the parts are taken out, cut the bag in pieces to prevent the infant from covering it's head.

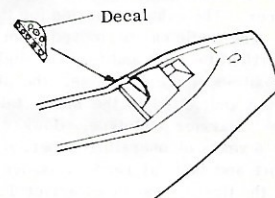
### Drawing-1

Paint the pilot before cementing it to the seat.

Use the light and dark gray when painting the cockpit.



\*Cut out and transfer the decals with a cardboard.

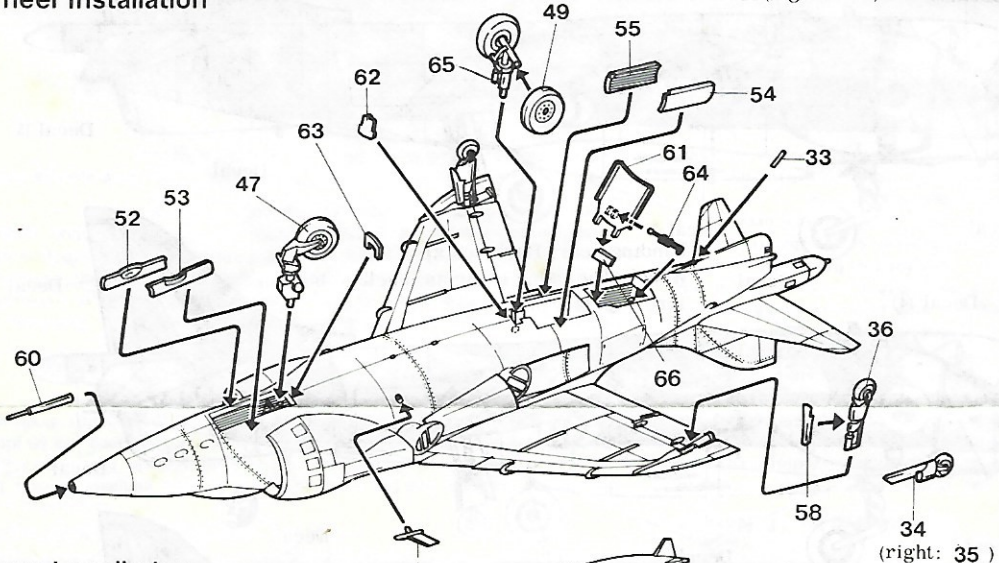


\*Paint the cockpit interior in dark and light gray.

### Drawing-4

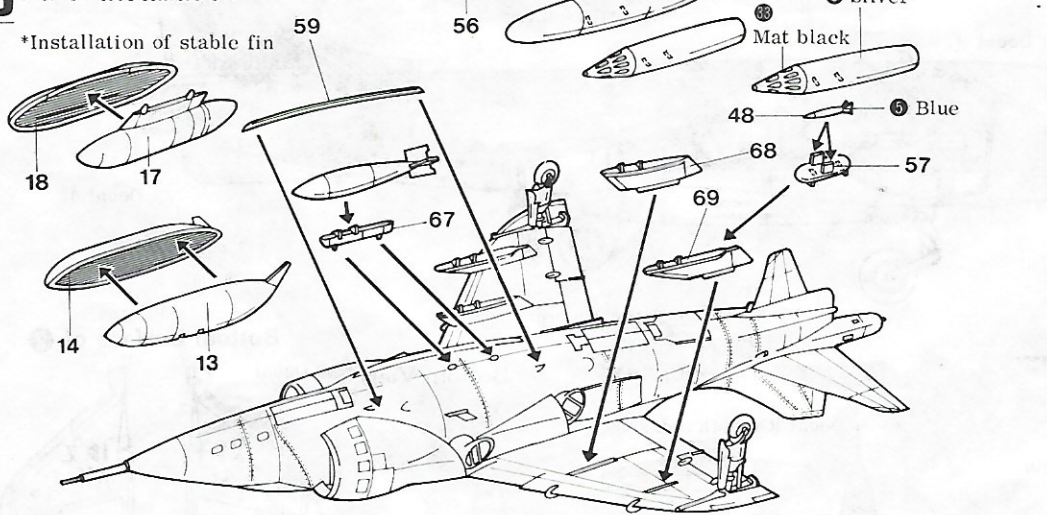
Model XV 801 requires decal on the inside of the airbrake.

#### 4 Wheel Installation

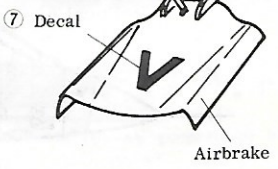
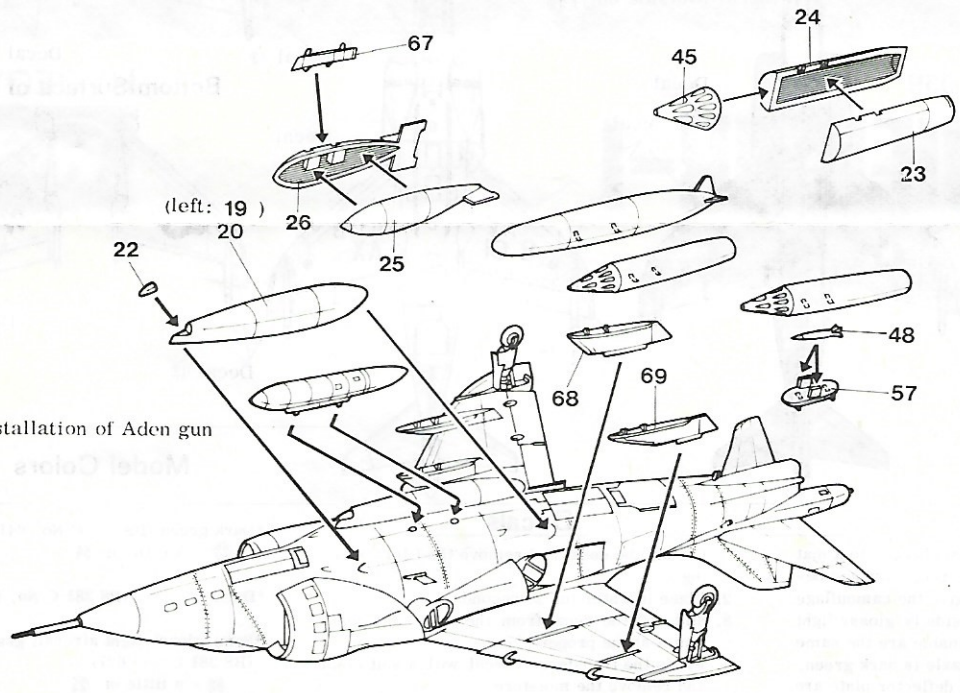


#### 5 Parts Installation

\*Installation of stable fin



\*Installation of Aden gun



Outrigger wheel is either in flying or in landing position.

★ Paint the inside of air intake, compressor fan (46) dark gray. Paint the front exhaust pipe in the same color as the fuselage, and rear exhaust pipe and rear valve heat shield silver.

#### Parts Number & Name

1. Fuselage, left
2. Fuselage, right
3. Main wing top, left
4. Main wing top, right
5. Air intake, left
6. Air intake, right
7. Air intake, left
8. Air intake, right
9. Horizontal tail, left
10. Horizontal tail, right
11. Main wing bottom, left
12. Main wing bottom, right
- 13-14. Fuel tank
15. Exhaust pipe cover, left
16. Exhaust pipe cover, right
- 17-18. Reconnaissance pod
19. Aden gun, left
20. Aden gun, right
21. Nose cone
22. Aden gun parts
- 23-24. Rocket bomb pod
- 25-26. Bombs
- 27-28. Exhaust pipe stopper
29. Pilot seat
30. Pilot
31. Rear valve heat shield
32. Fuselage parts
33. Antenna
- 34-36. Outrigger wheel
- 37-40. Exhaust nozzle (front)
- 41-44. Exhaust nozzle (rear)
45. Rocket bomb pod
46. Compressor fan
47. Front wheel
48. Bomb (small)
49. Tire
50. Air intake parts
51. Rear parts
52. Front wheel cover, right
53. Front wheel cover, left
54. Rear wheel cover, right
55. Rear wheel cover, left
56. Antenna
57. Pylon
58. Outrigger wheel cover
59. Stable fin
60. Pitot tube
61. Airbrake
62. Main wheel cover
63. Front wheel cover
64. Brake parts
65. Main wheel
66. Brake parts
- 67-69. Pylon
70. Instrument panel