

History

In 1933, before the advent of Me109, Willy Messerschmitt, the technical designer for BFW Co. (Bayeriche-Flugzeuge-Werke) completed the design on one airplane. It was the 4 crew Bf108, which became the basis for the Mel09 series. In the summer of 1934 the Messerschmitt designer team, employing the special features of Bf109, commenced the production of Me109 new fighter plane. Me109V-1, the first trial plane, made her maden flight in September of 1935, and with the exception of her faulty landing gear her performance was very superior; for this trial plane was outfitted with the British Rolls Royce (Kestrel) V engine (695 Hp.). Subsequent models was changed to Junkers Jumo 210A engine (610 Hp.). On Model V-4, besides the two 7.9 mm machine guns, she was also armed with 20mm automatic cannon in the propeller shaft. The first mass produced planes was the Me109B which was assigned to the Spanish Civil War in 1937. In August of 1938 Me109C arrived in Spain and was tested under actual war condition. Me109D was born through the many combinations of Me109B and Me109V series and various types of engine. With the advent of E series the new Daimler-Benz DB601A engine was developed. This new engine is equipped with direct fuel injection system and supercharger, enabling to produce 1,150 Hp.. The E series was thus perfected with the combination of 3 blade constant speed propeller. The original model Me109V-14 conducted it maden flight in the summer of 1938 and the first mass production of Me109E1 was outfitted with 7.9mm machine gun, replacing the 20mm automatic cannon. Subsequent to 1939 this Me109E-3 became the front line fighter, outfitted with 3 automatic cannon (whose barrel was passed through the propeller shaft) and 2 machine guns. In August 13, 1940 the Battle of Britian began and the E-3, the improved model of E-4, showed active service. The pilot seat protective armor plate was reinforced in E-4 and the range of visibility was improved. The automatic cannon on the nose was removed and 2 machine guns were armed onto the nose top and the wing armed with 2 automatic cannon. E-4N, the improved model of E-4, is outfitted with 1, 200 Hp. DB601N engine and a great majority was assigned to the North Africa campaign. With special and filter on the intake, it was also outfitted with bomb mounting for ground support mission. The famous Germany ace pilots on the E model were Werner Mölders, Helmut Wick and Adolf Galland. On the short range observation planes... E-5, E-6... the armament was limited to 2 machine guns on the nose. To increase the cruising range on E-7, one 250 litre auxiliary fuel tank was mounted under the fuselage. With the various improvements and remodeling, E-8 was outfitted with DB601E engine (1,200 Hp.). E-9... fighter observation plane ... was armed with 2 machine guns and outfitted with camera equipments.

In 1940 the Me109F series made her appearance with improved DB601N engine with complete remodeling. In the latter part of 1942, with the aim to further improve its performance and armament, Me109G was produced with DB605A engine (1,475 Hp.) and heavily armed with 20mm automatic cannon in the both wings, two 13mm machine guns on the nose and one 20mm automatic cannon in the

propeller shaft. The G series production amounted to 70% of the

total production of Me109's ... about 2,300 planes. Me109H was developed for stratosheric purpose but only a few showed action. Me109J was the model licensed to Hispano of Spain for production. The last model produced was Model K, with many improvements, but hardly showed any action by the time the war ended. Until the end of World War II 30,000 planes in the Me109 series was produced, amounting to more than 60% of Germany's single engine fighter planes and it was credited as the front line fighter. BFW was the name of the firm when the 109 was first perfected, and in 1938 it was renamed to Messerschmitt; therefore this model can be called in either Me109.

Characteristics

Overall Length : 8.47m Overall Width : 9.71m

Engine: Daimler Benz DB601A (1,100 Hp.)

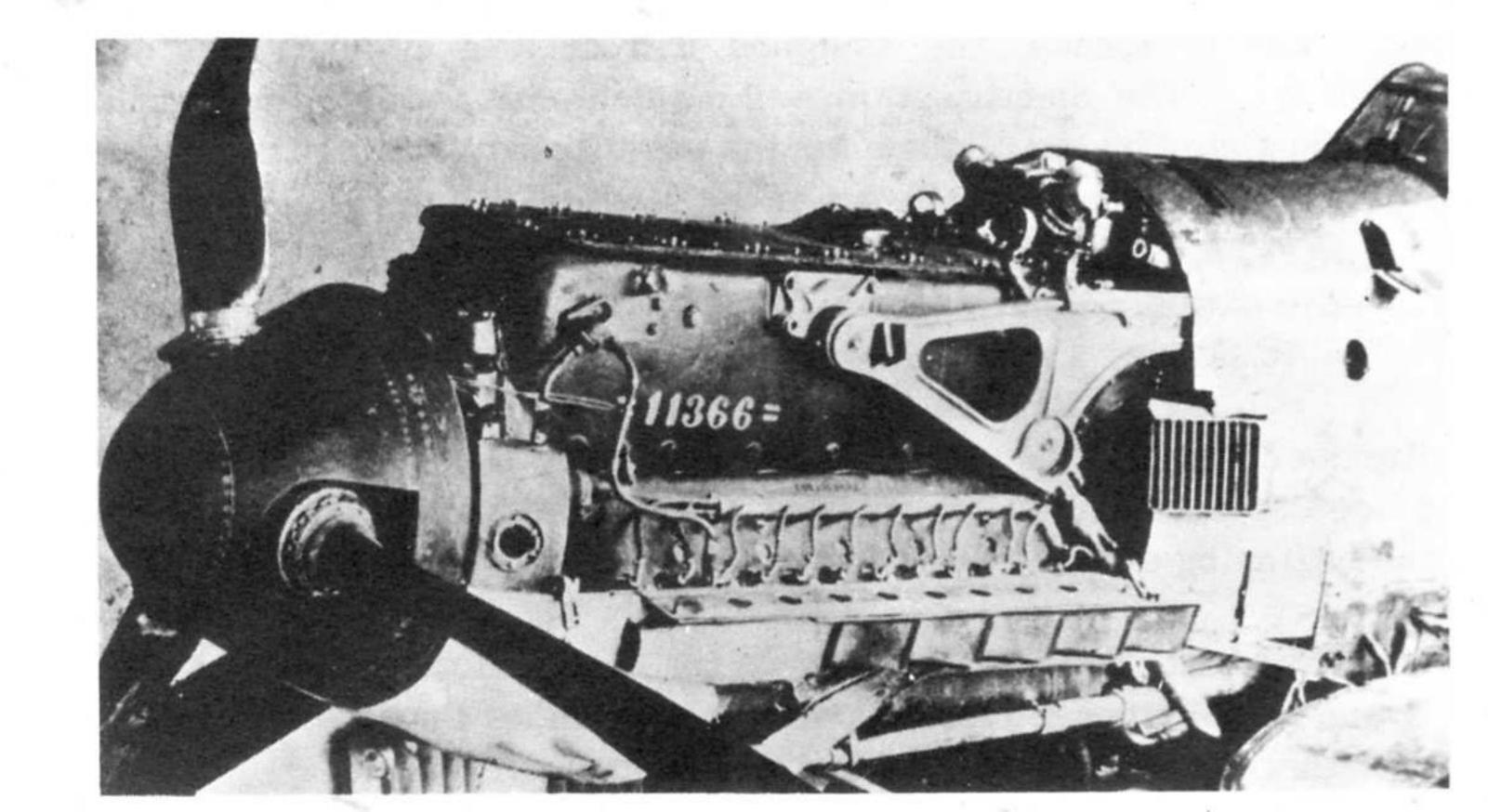
Armament: 7.9mm Machine Gun x 2

¹20mm Automatic Cannon x 3

Maximum Speed: 570 km/hr. (at 3,690m ceiling)

Ceiling Range : 11, 250m
Cruising Range : 663km
Dead Weight : 2, 003kg.
Weight, Fully Armed : 2, 520kg.



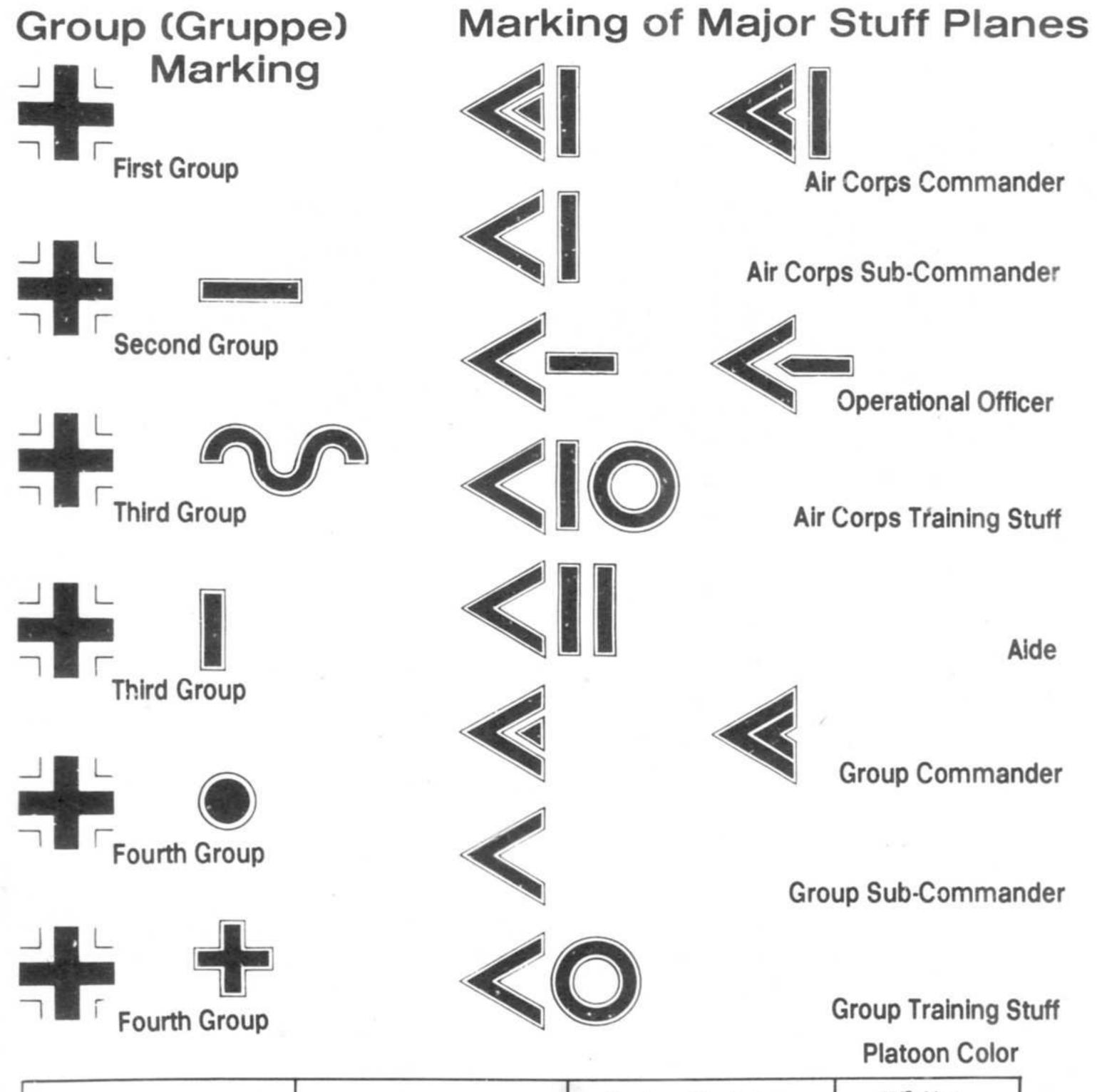


Markings on German Fighter Planes

In March 1935, Germany officially announced her nationality marking. The nationality marking was the Iron Cross (Balken-Krouz) and the Swastica (Haken-Krouz), the Nazi symbol. This marking was principally used until the end of World War II.

Plane Emblem: The formation of German airforce unit is based on the Geschwader (aircorps), Gruppe (group) and Staffel (platoon). Above this is the Geschwader that is grouped to form the Flieger-Corps (army corps), Luft-Flotten (air force) and below this there is the Kette (3 plane formation) and Schwarm (2 plane formation in Rotte 2 group).

Geschwader: JG, Gruppe: I, II, III (Roman Numeral) Staffel: 1 - 12 (Arabic Numeral)



Air Corps (Geschwader)	First Group (1 Gruppe)	1 st. Platoon 2nd. Platoon 3rd. Platoon	White Red Yellow
	Second Group (II Gruppe)	4th. Platoon 5th. Platoon 6th. Platoon	White Red Yellow
	Third Group (III Gruppe)	7th. Platoon 8th. Platoon 9th. Platoon	White Red Yellow
	Fourth Group (IV Gruppe) Fall: 1940	10th. Platoon 11th. Platoon 12th. Platoon	White Red Yellow

Within the platoon, each plane is identified with Arabic number (platoon color) in front of the Iron Cross. At first the platoon was formed with 12 planes, but since the middle of the war it was formed with 16 planes.

Other Markings

Propeller Spinner: During the early stage it was painted with the platoon color, but during the end of the war it was painted in black and white spiral.

Color Stripes: The German fighter which showed action in the Battle of Britian used various colors on the cowling and the wing tips. This was to identify the assigned unit on long distance high sea attackers. The identification was painted with water color, and it was repainted by the platoon for the specific day. Since the middle of the war the color stripes was painted on the tail to identify the war area.

White Stripe: North Africa, Mediterranean, Southern Russia Yellow Stripe: Central Russia, Northern Russia, Scandinavia,

English Channel, Home Defense Unit

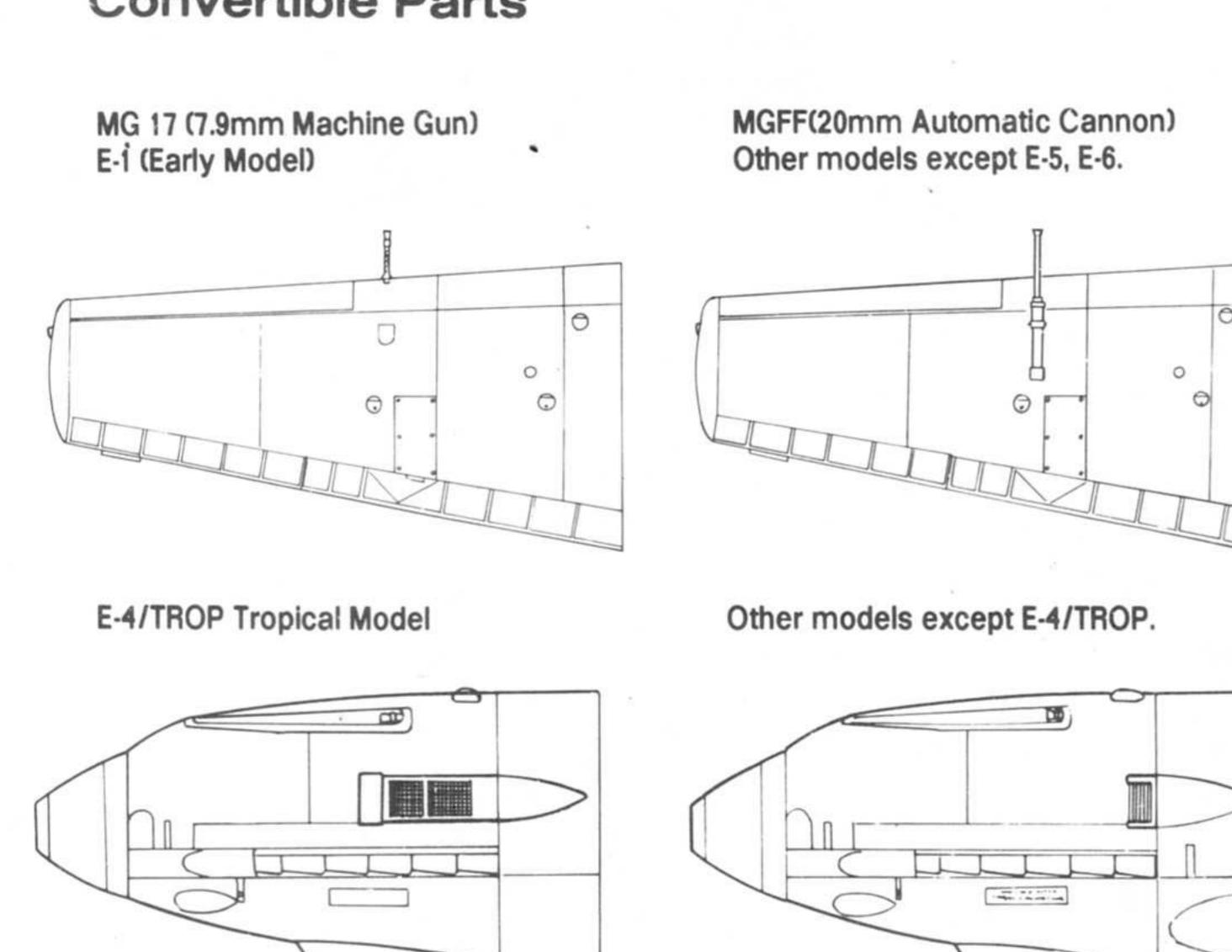
However, in 1944 the yellow stripe for Home Defense Unit was replaced with red color or with red edge on the yellow stripe, and in the beginning of 1945 it was further changed to white stripe with blue edge.

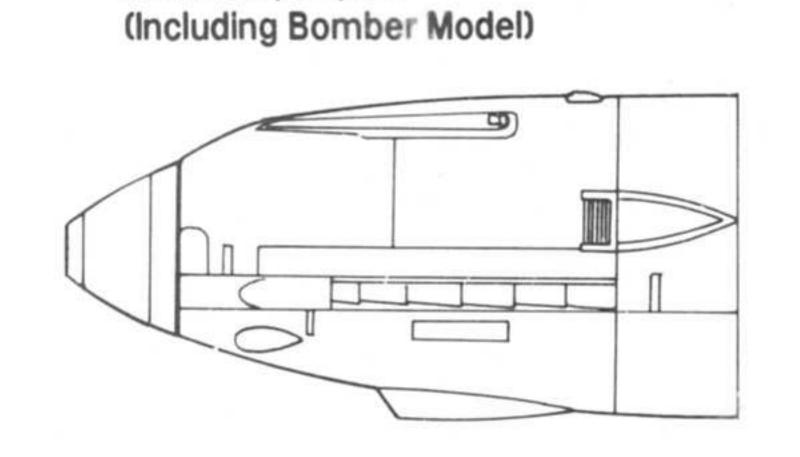
Unit Marking: The unit marking on the nose indicated the Air Corp, Group and Platoon. This was unofficial. Other than the unit marking, there are markings to identify the specific pilots.

Messerschmitt Me109 E Armament

	Nose	Propeller Shaft	Main Wing	Engine
E - 1	MG - 17. 7.9mm x 2		MG - FF 20mm x 2	DB601A 1,150Hp.
E - 3	MG - 17 7.9mm x 2	MG - FF 20mm x 1	MG - FF 20mm x 2	DB601A 1,150Hp.
E - 4	MG - 17 7.9mm x 2		MG - FF 20mm x 2	DB601A 1,150Hp.
E - 5 Observation Model	MG - 17 7.9mm x 2			DB601A 1,150Hp.
E - 6 Observation Model	MG - 17 7.9mm x 2			DB601N 1,200Hp.
E - 7 Long Distance Model	MG - 17 7.9mm x 2		MG - FF 20mm x 2	DB601N 1,200Hp.
E - 8	MG - 17 7.9mm x 2		MG - FF 20mm x 2	DB601E 1,200Hp.

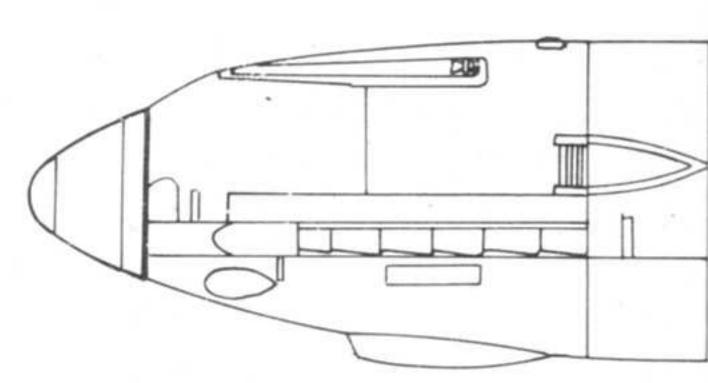
Convertible Parts





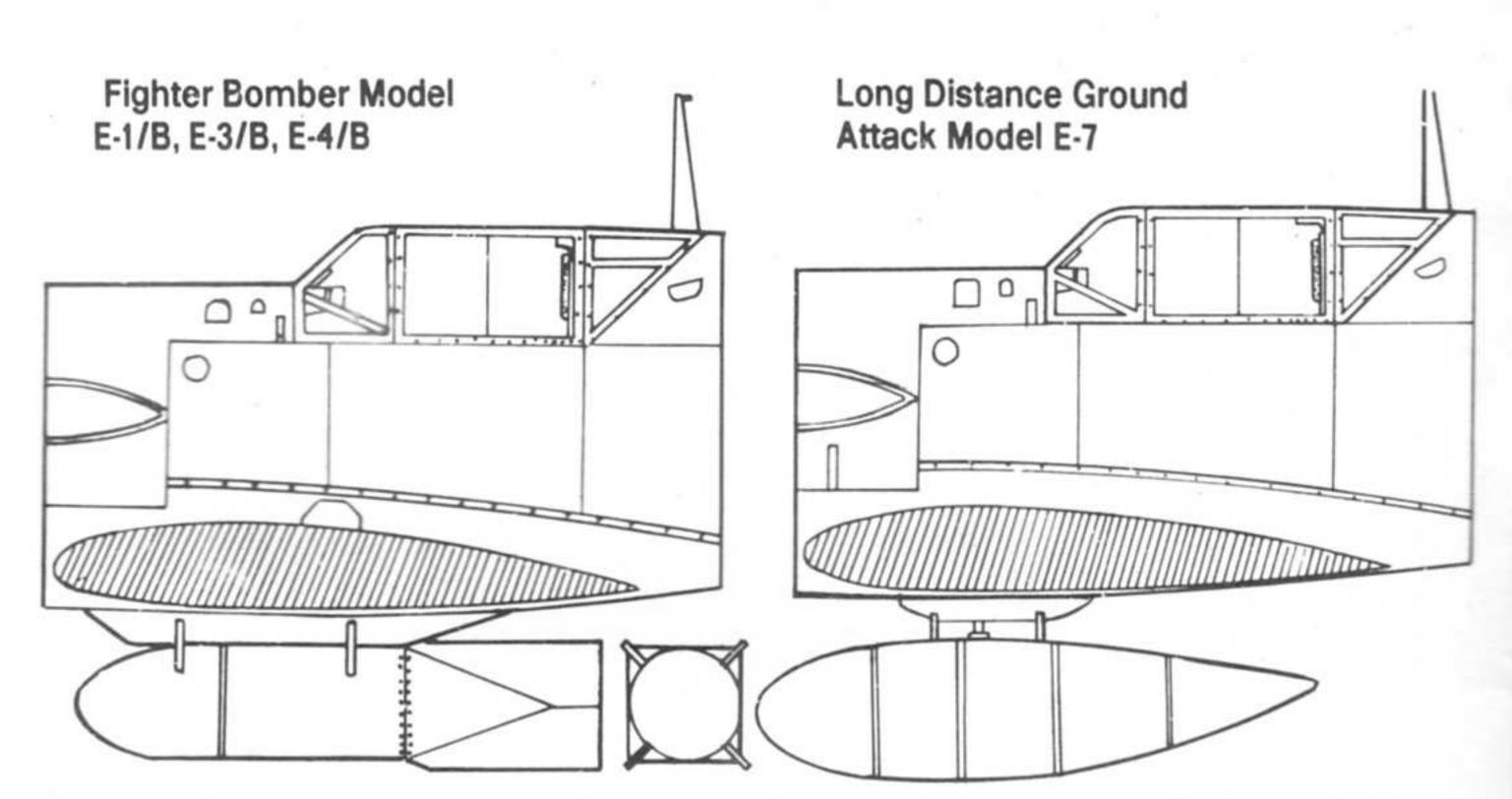
Spinner on Fighter Plane

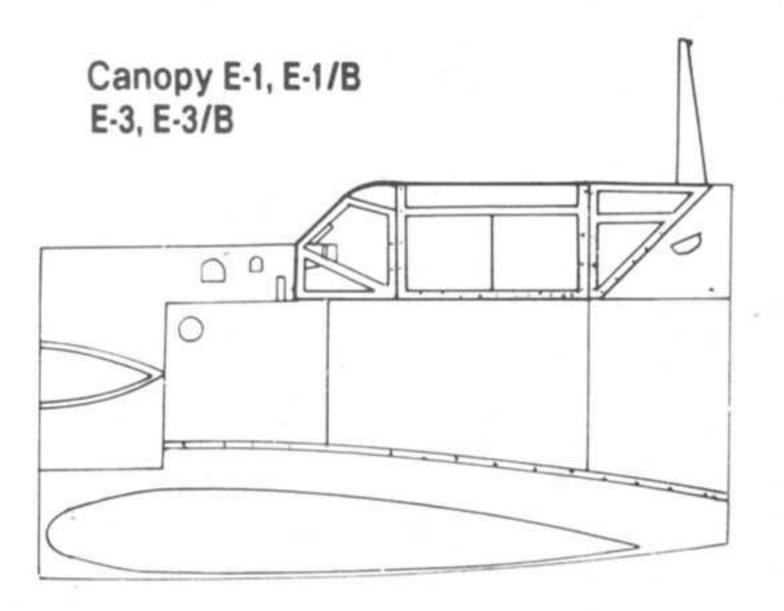
Model E-1, E-3, E-4

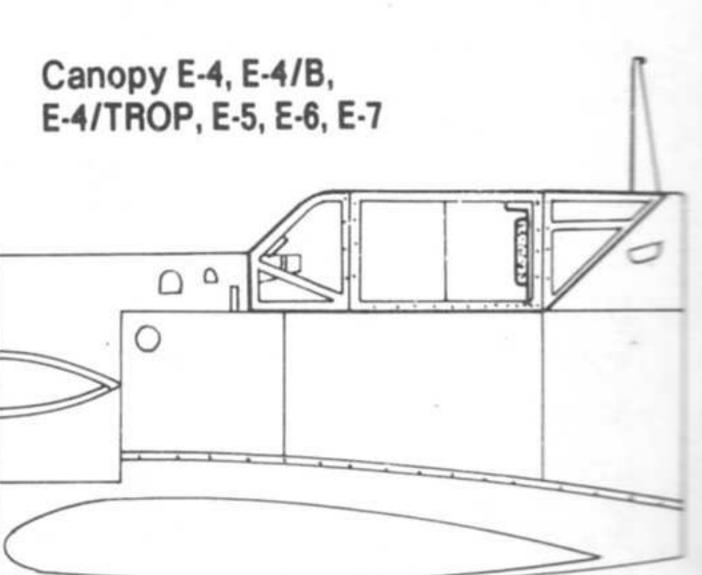


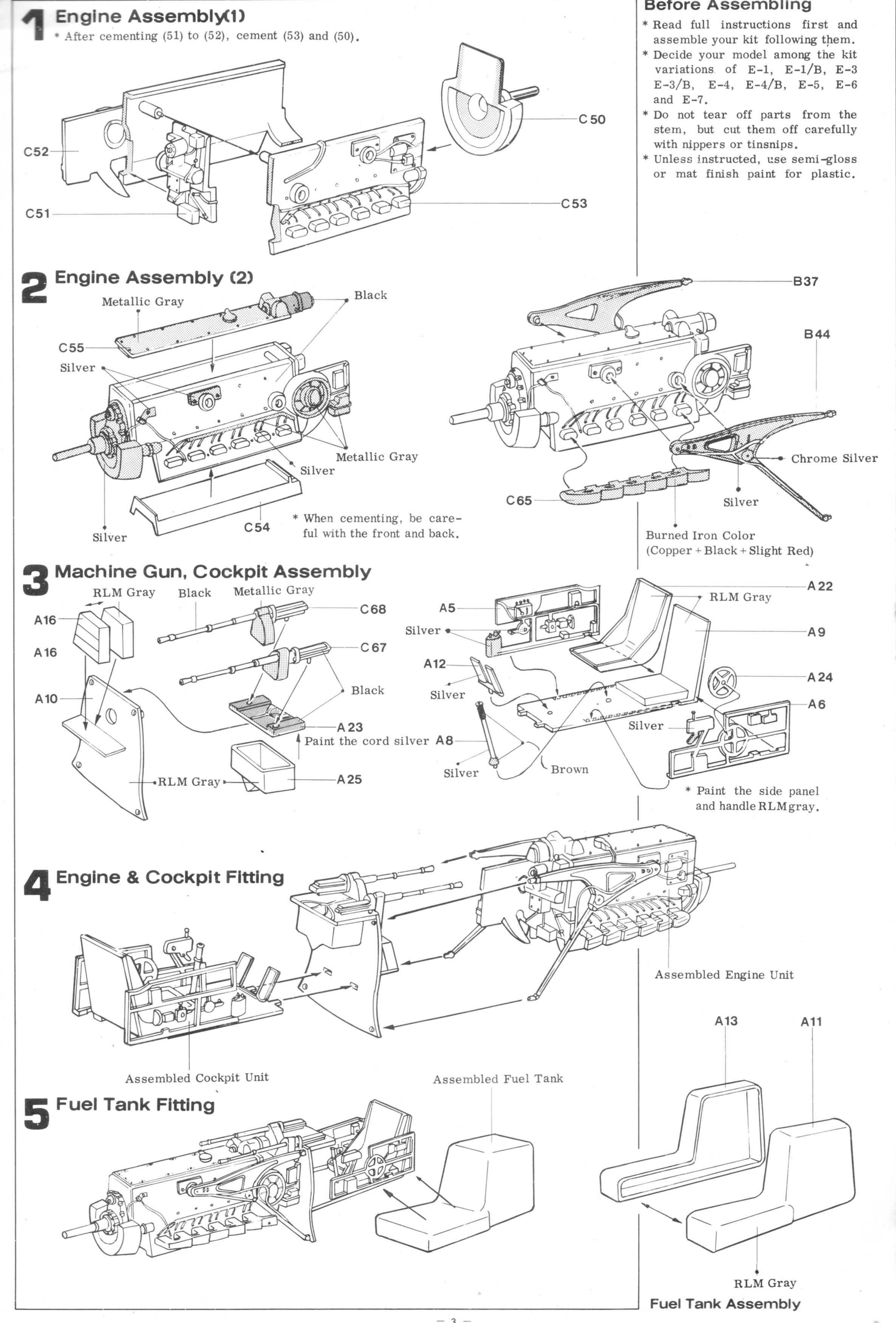
Spinner on Observation

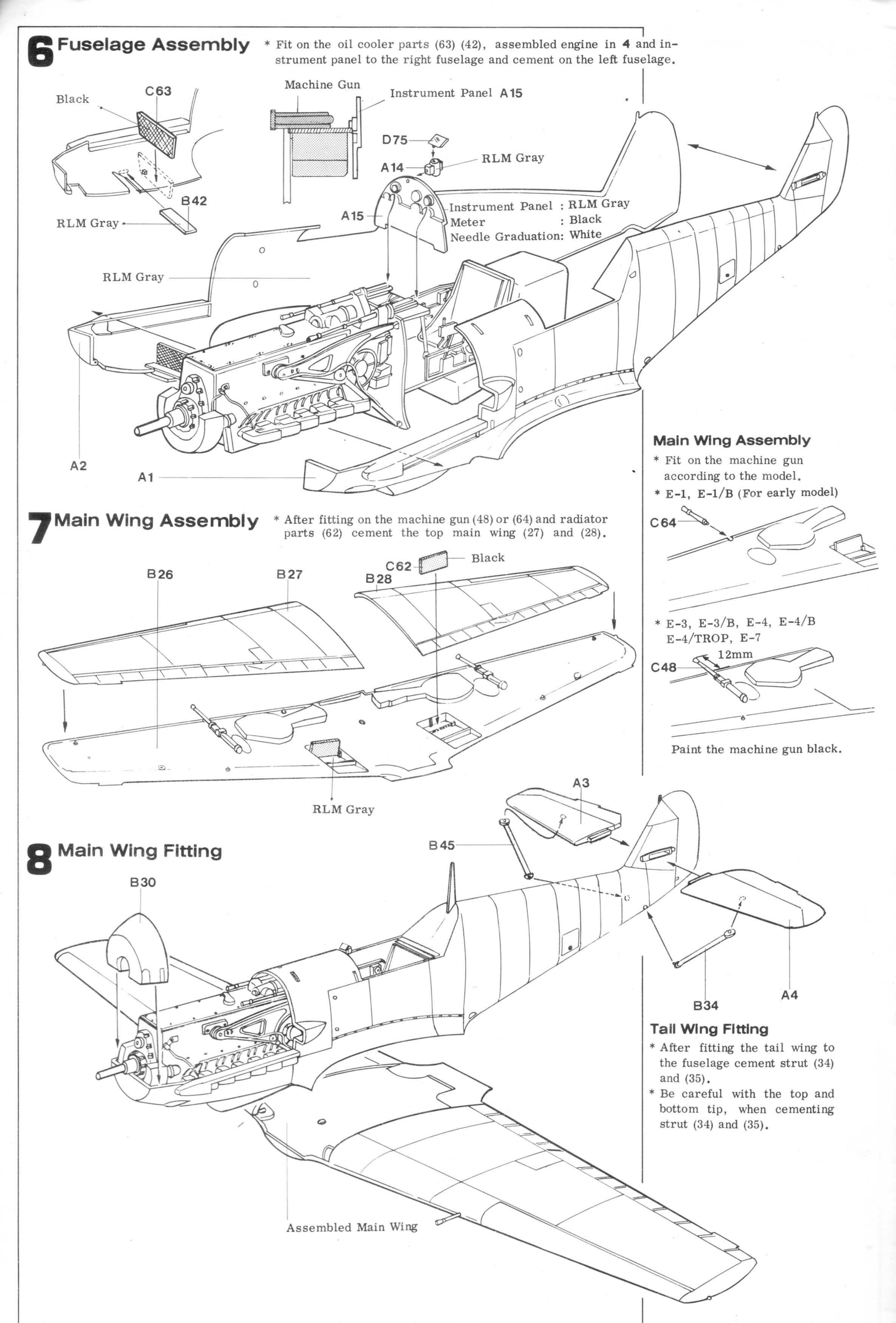
Plane Model E-5, E-6, E-7

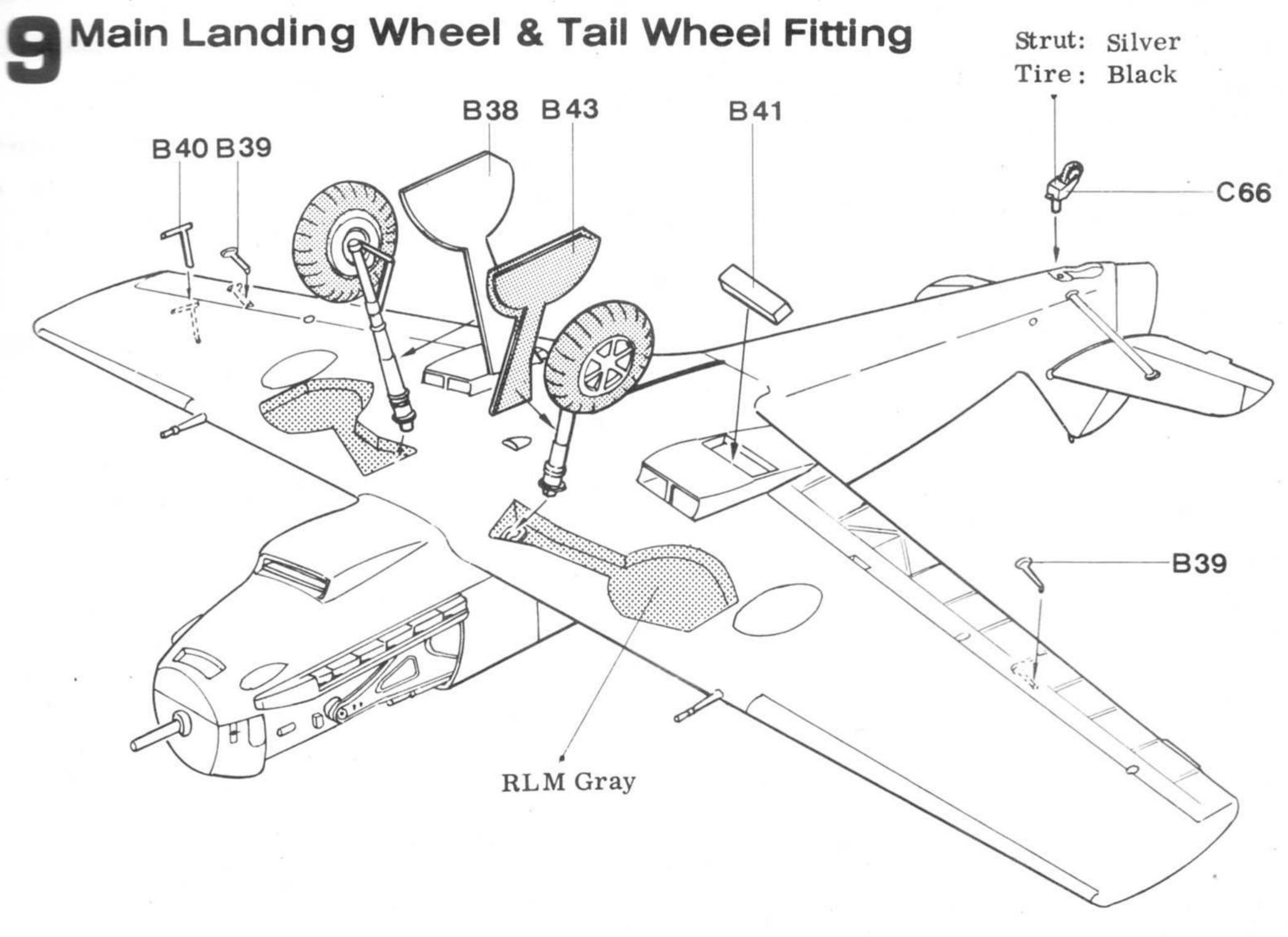




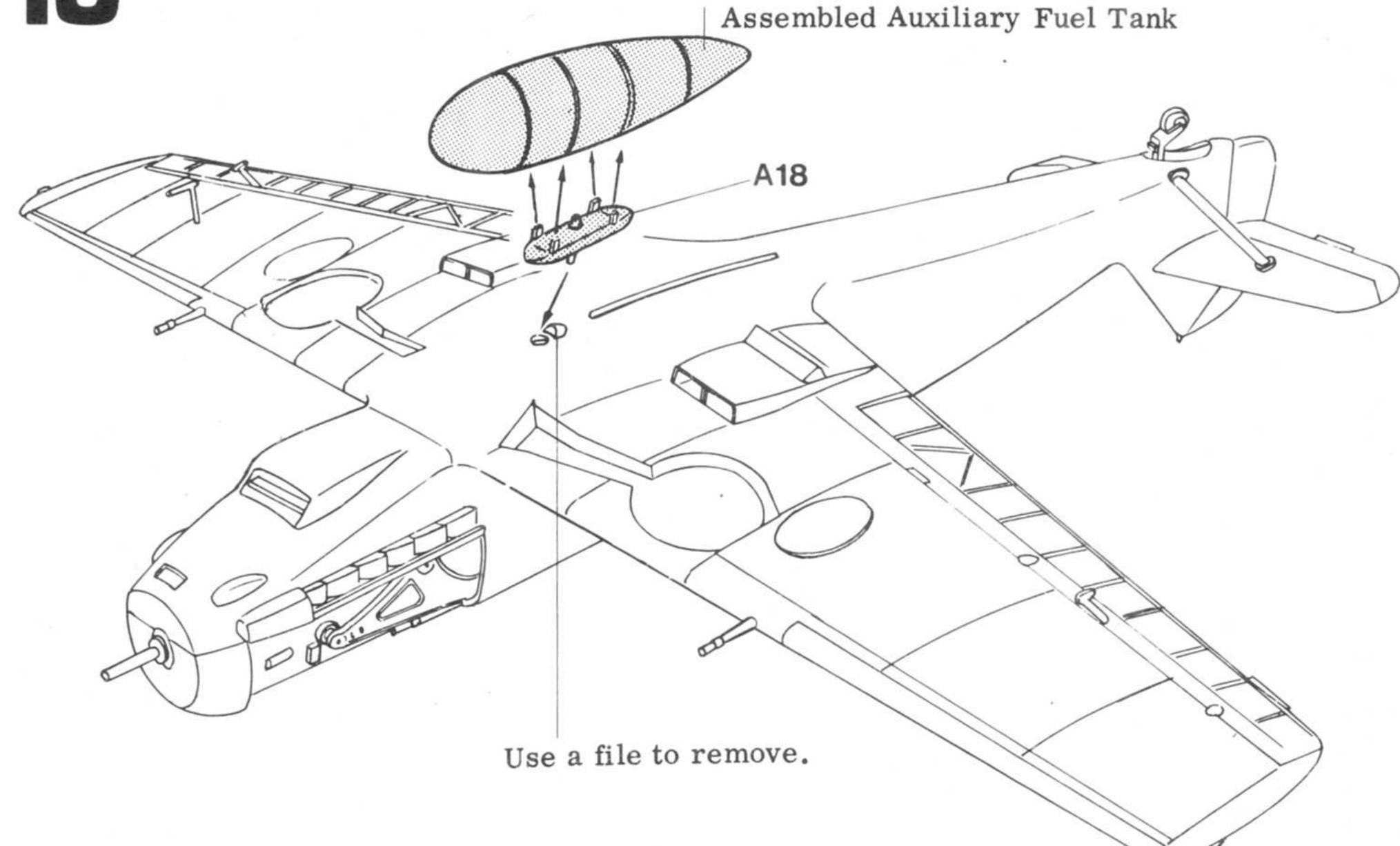




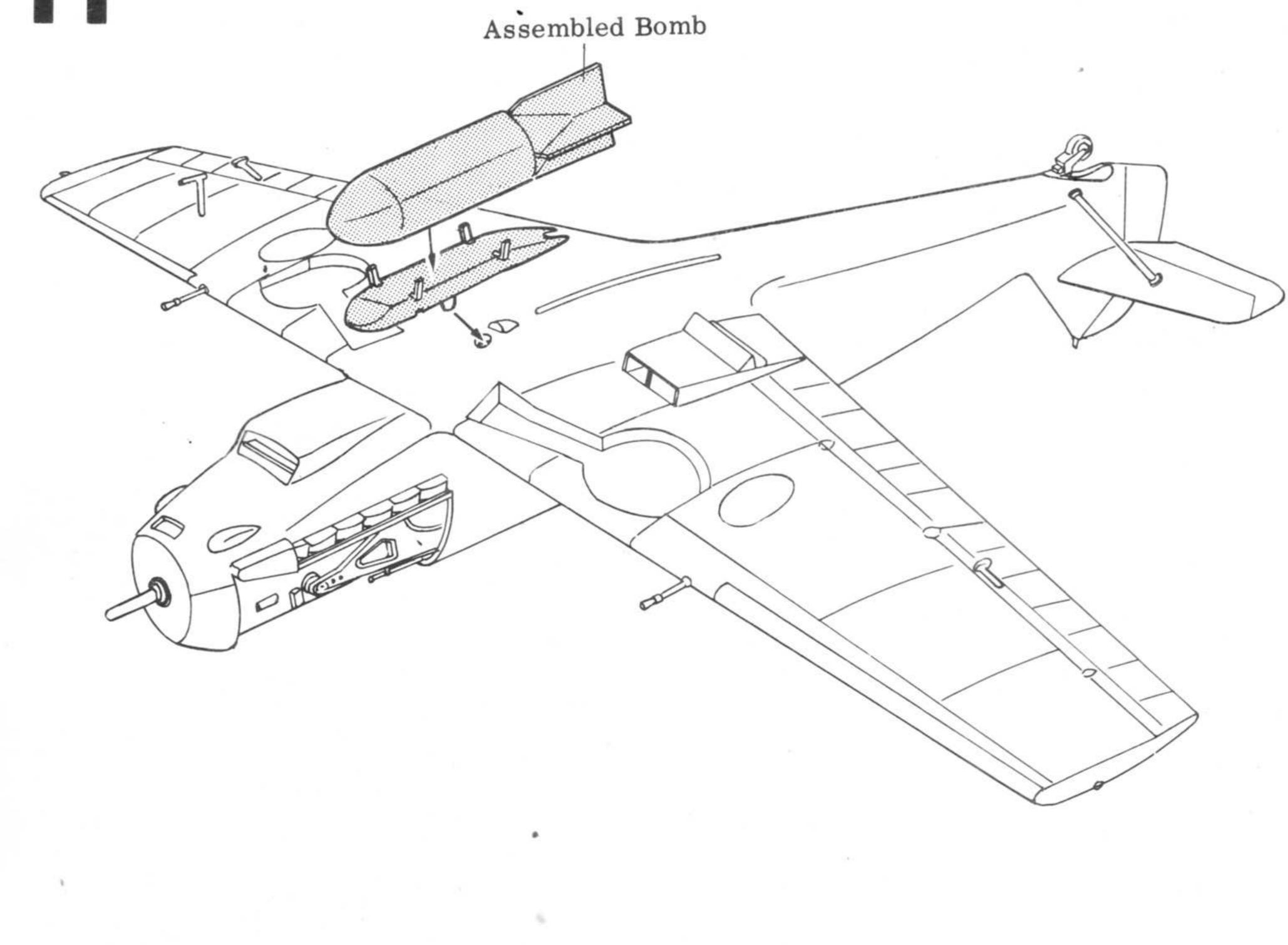




E-7 Outfitting Auxiliary Fuel Tank Fitting

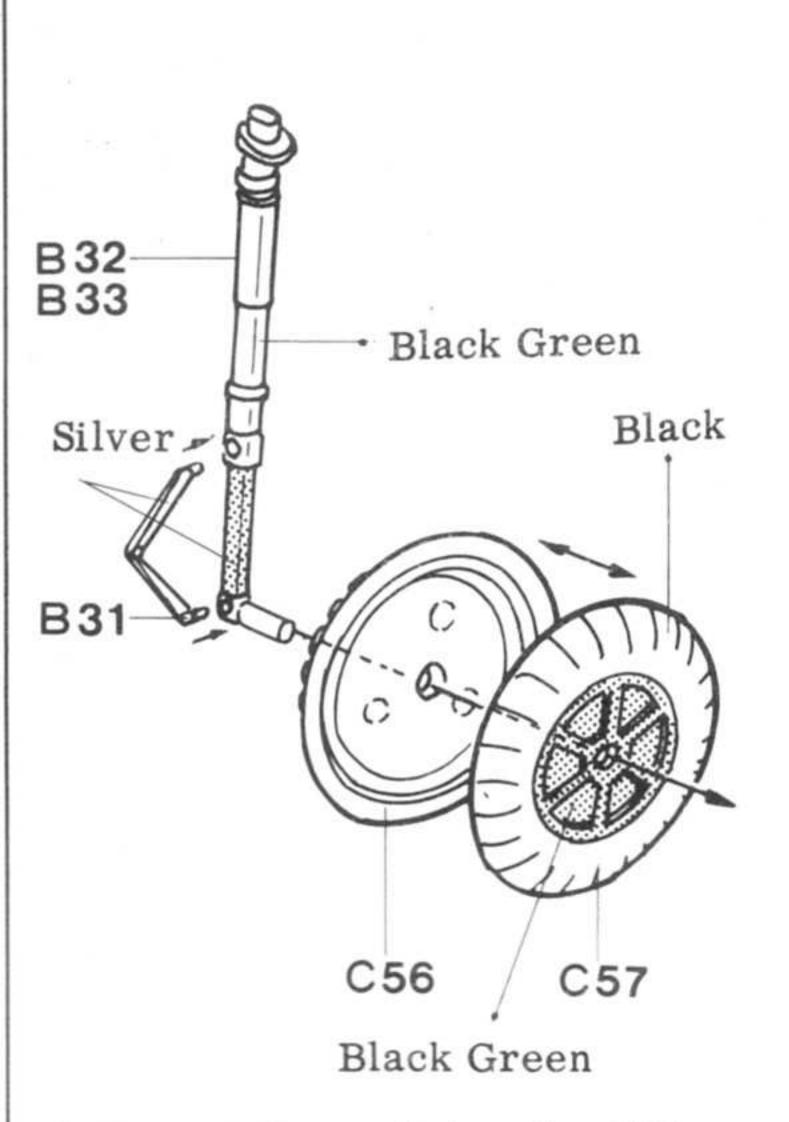


Bomb Fitting for E-1/B, E-3/B, E-4/B

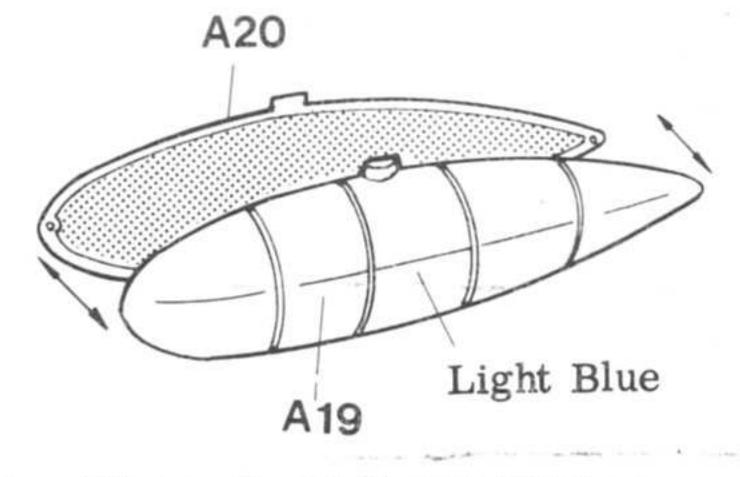


Main Landing Wheel

* Assemble 2 sets of main landing wheel.



* Cement the radiator flap (41) in either open or closed.



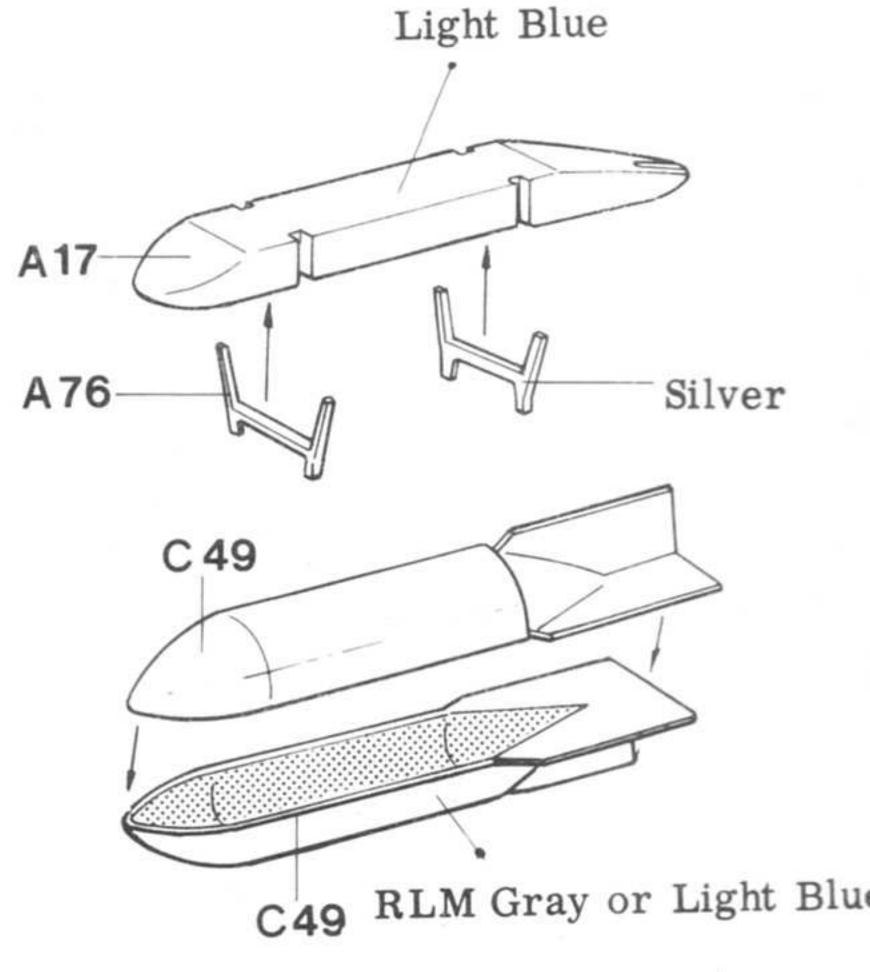
Auxiliary Fuel Tank Fitting

- * When fitting the auxiliary fuel tank, use a file to remove the notch under the main wing.
- * The auxiliary fuel tank is for only E-7 model.



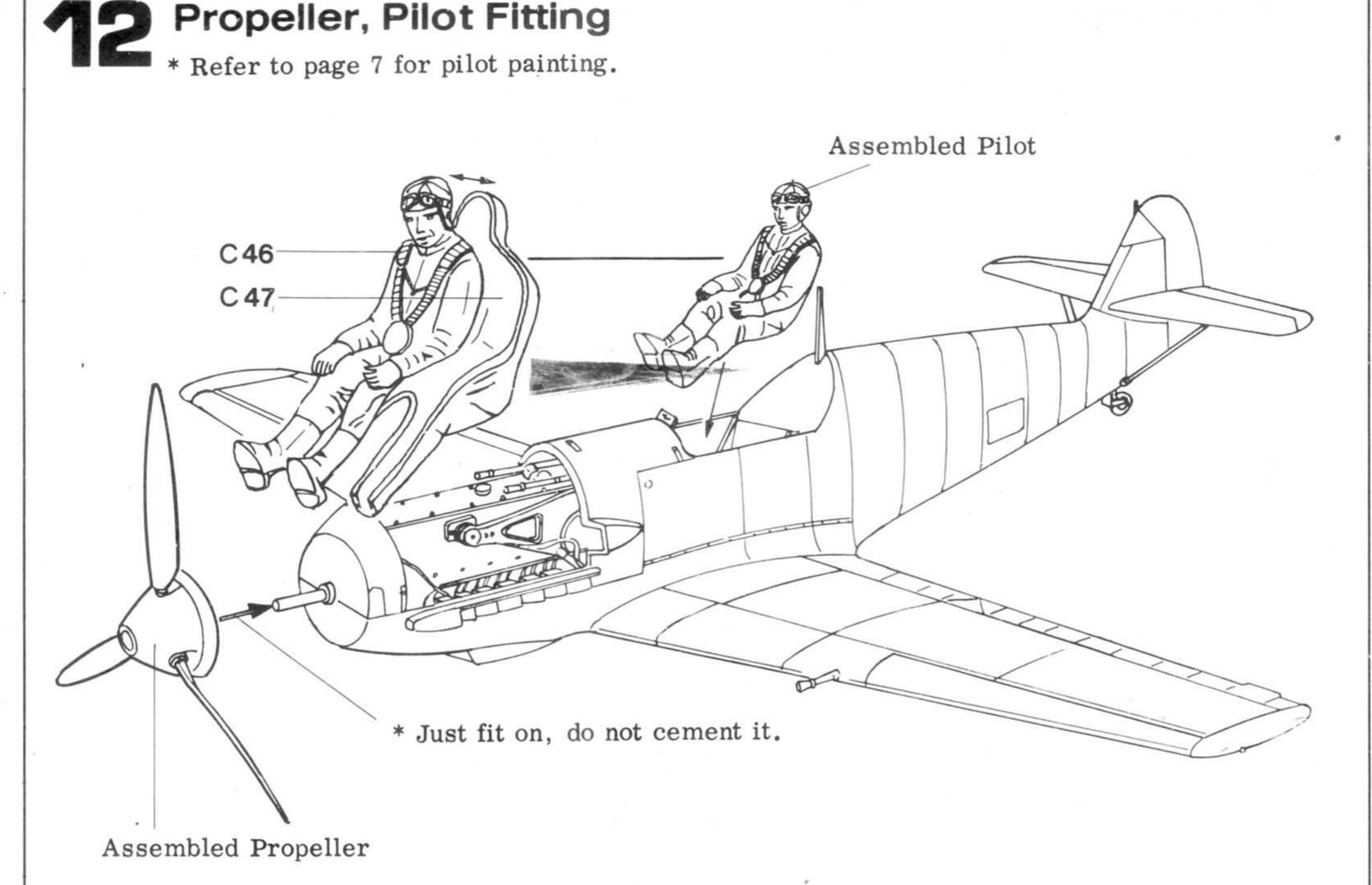
Bomb Fitting

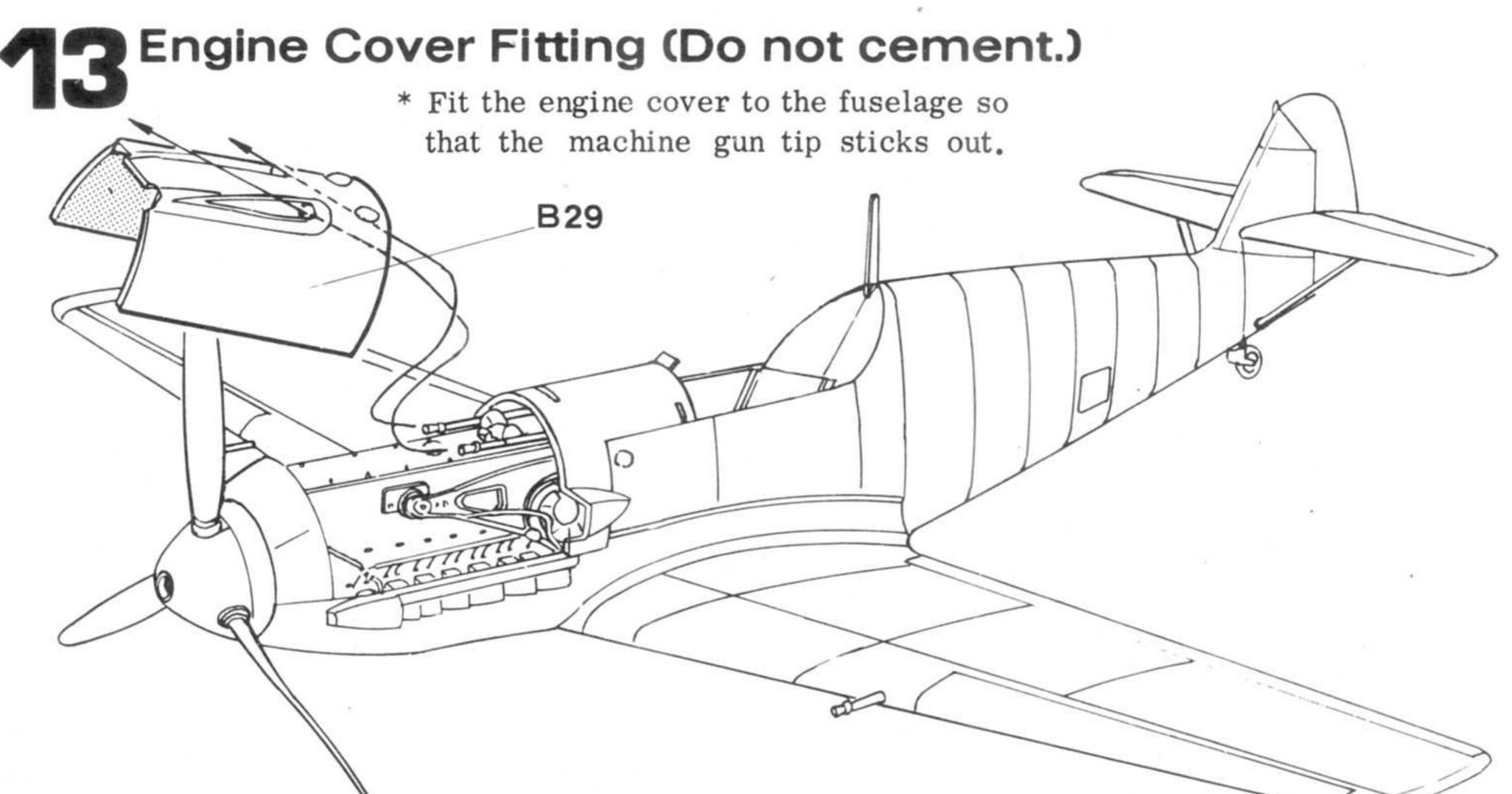
* The bomb is for only E-1/B, E-3/B and E-4/B models.





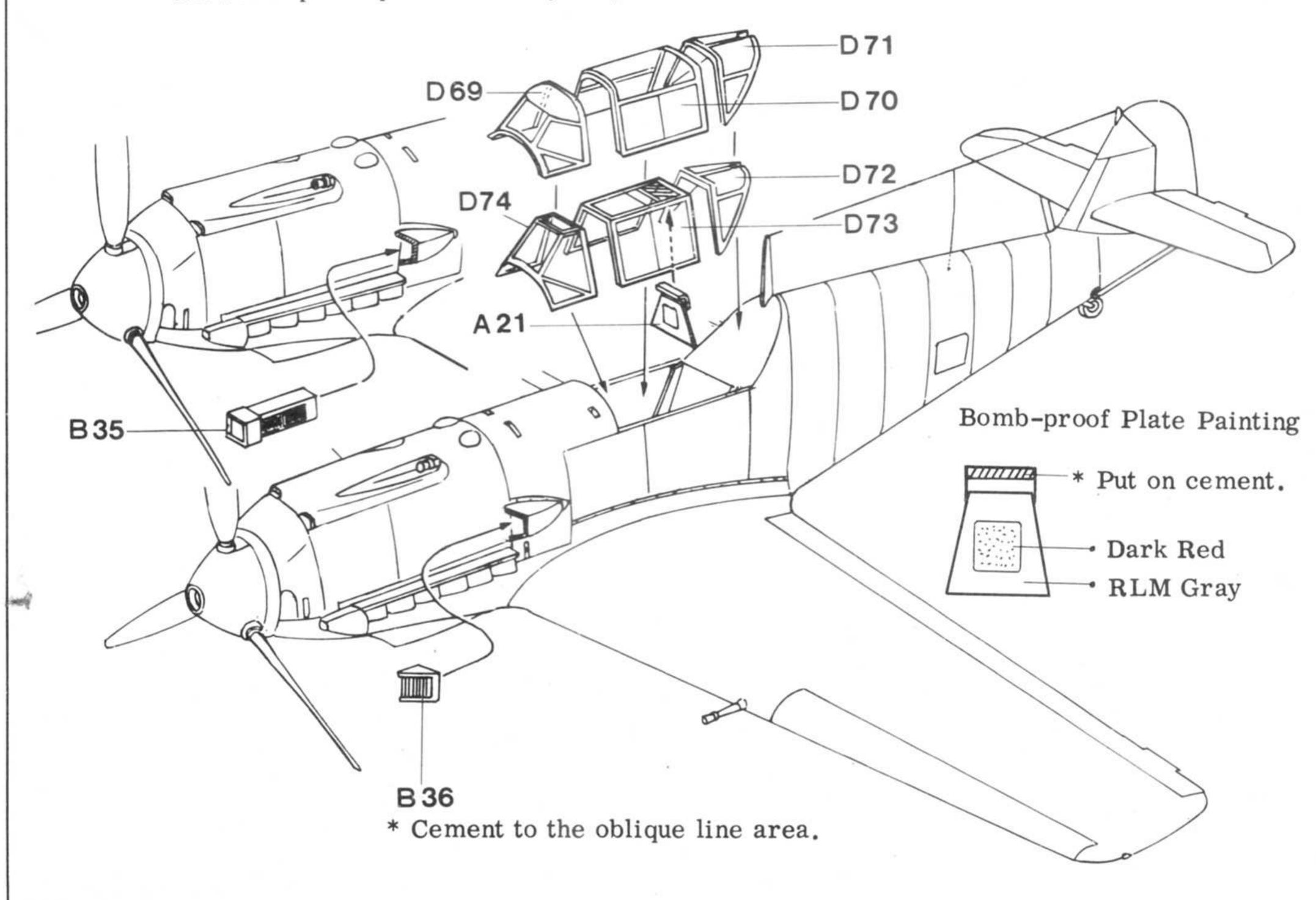
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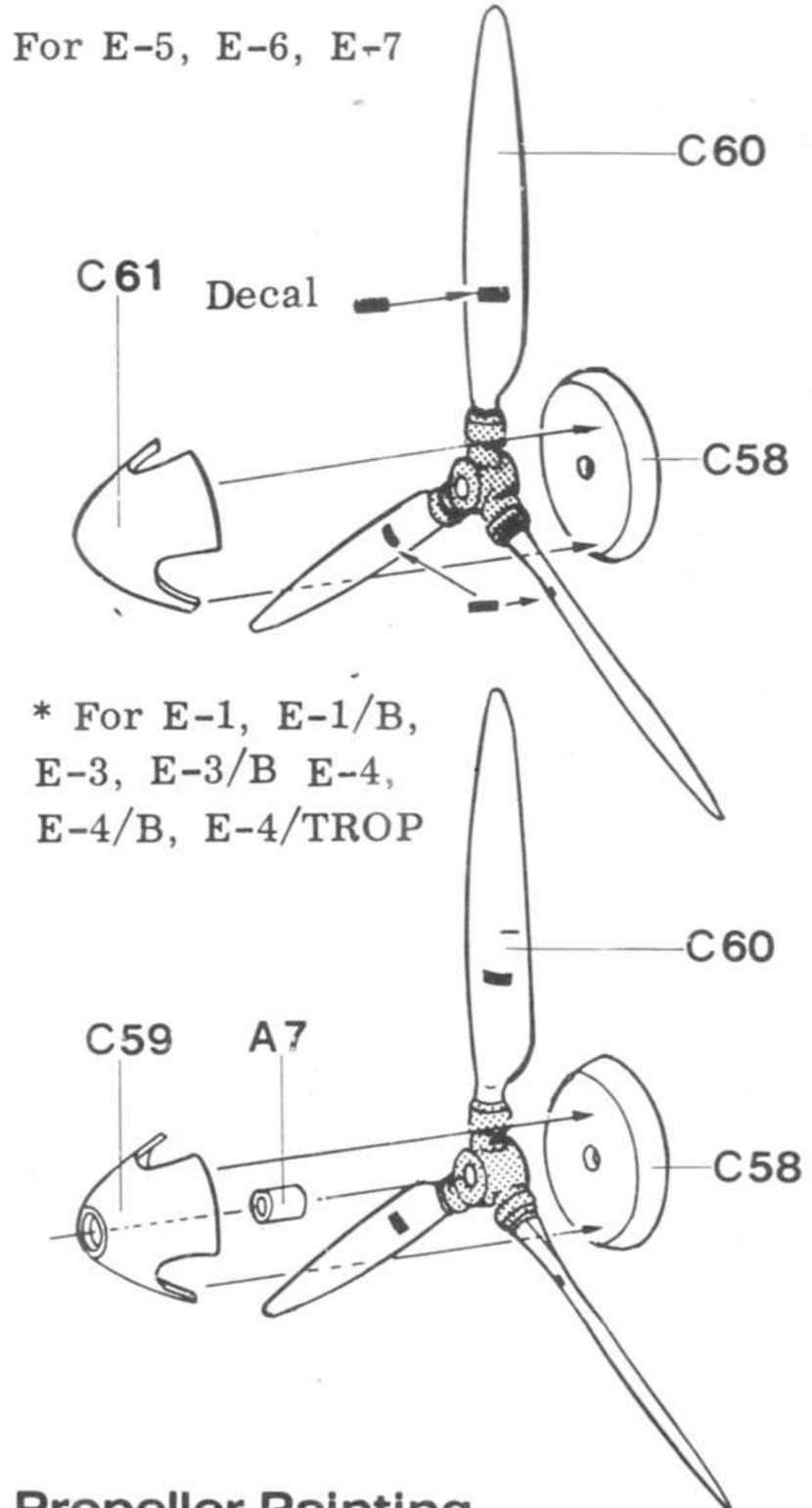


Canopy, Supercharger Air Intake Fitting

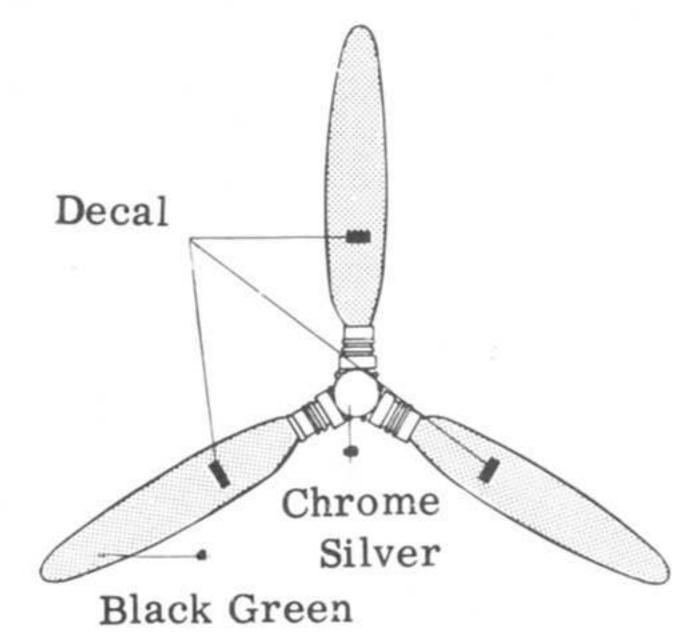
* Fit on the parts specified for the model. Fit the bomb-proof plate A21 only to part D73.



Propeller Assembly







- * Refer to the Color Guide when painting the spinner (61, 59, 58).
- * Trim off the transparent section around the decal before transferring it.

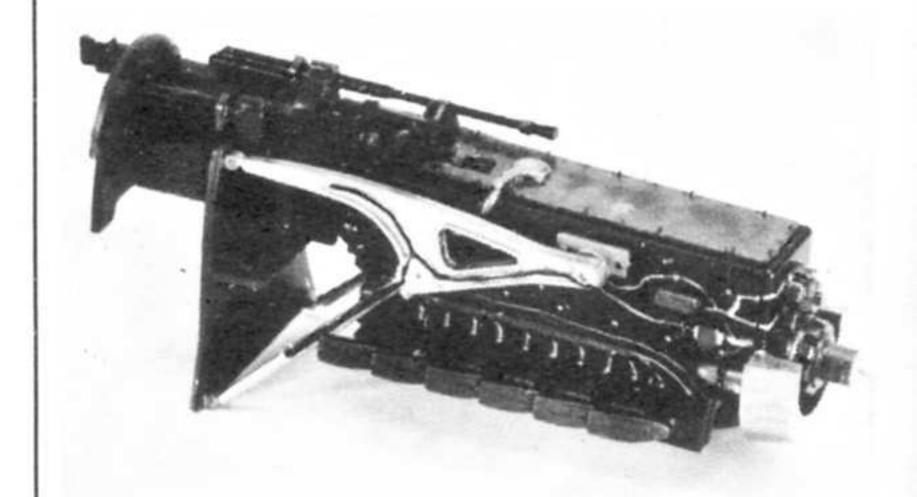
Canopy Fitting

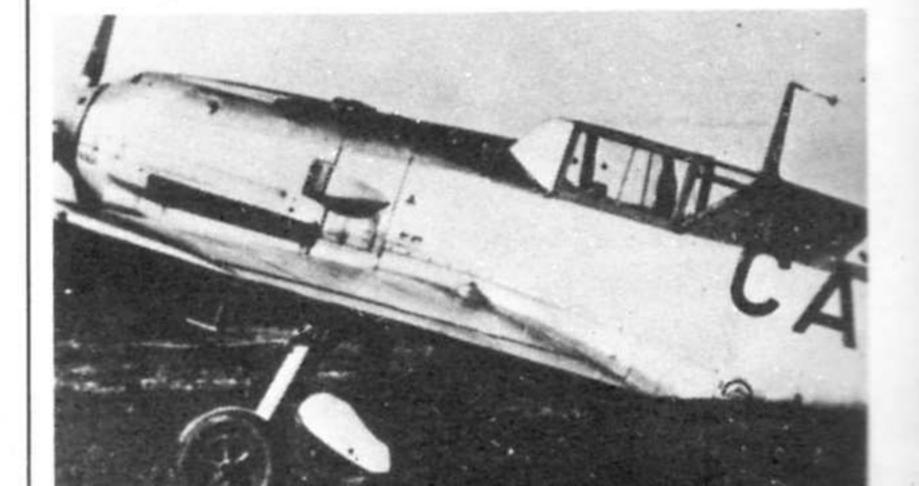
Parts 69, 70, 71: E-1, E-1/B, E-3/B Parts 72, 73, 74: E-4, E-4/B, E-4/TROP E-5, E-6, E-7

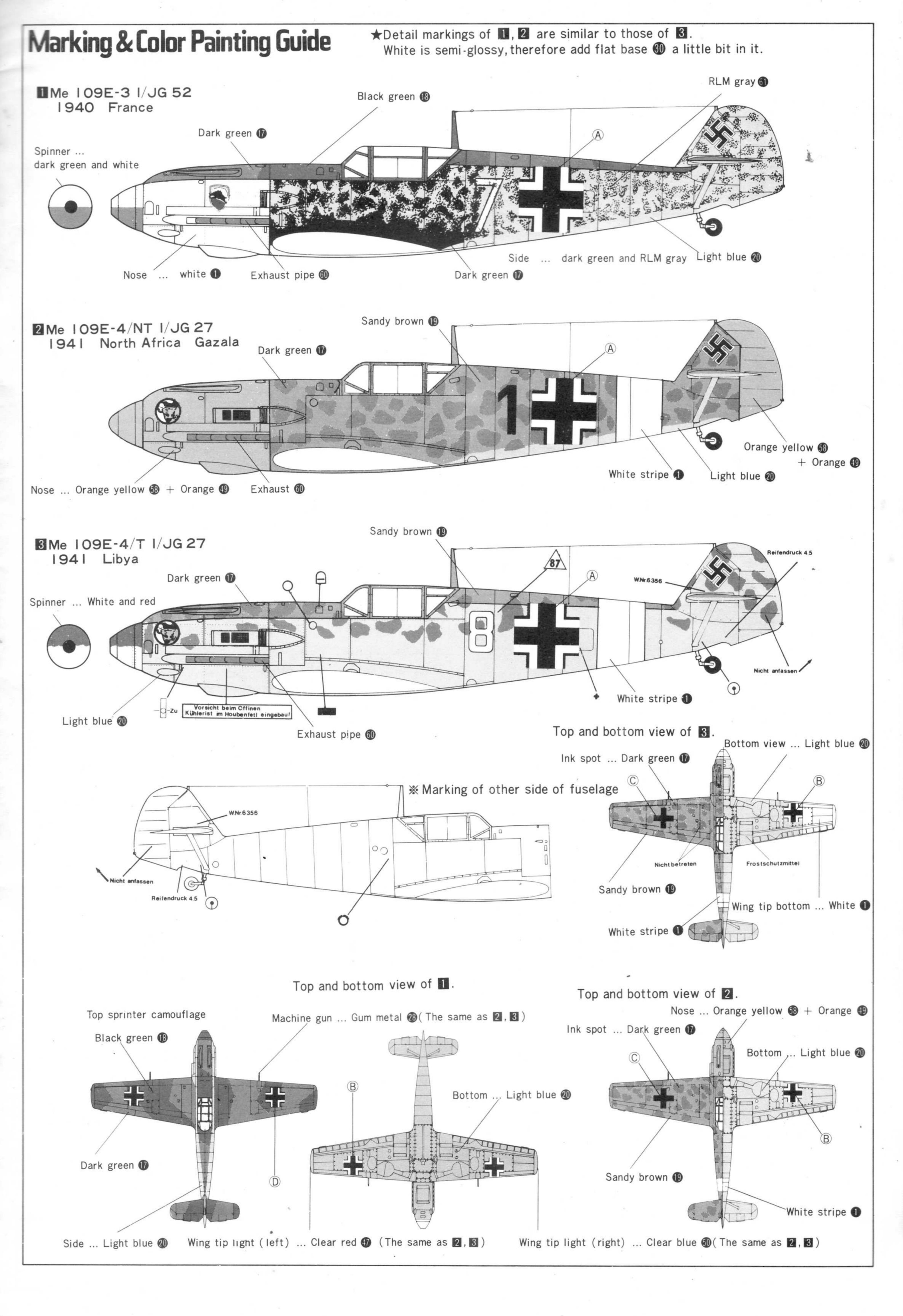
Super Charger Air Intake Fitting

Parts 35: E-4/TROP (Tropical Model)

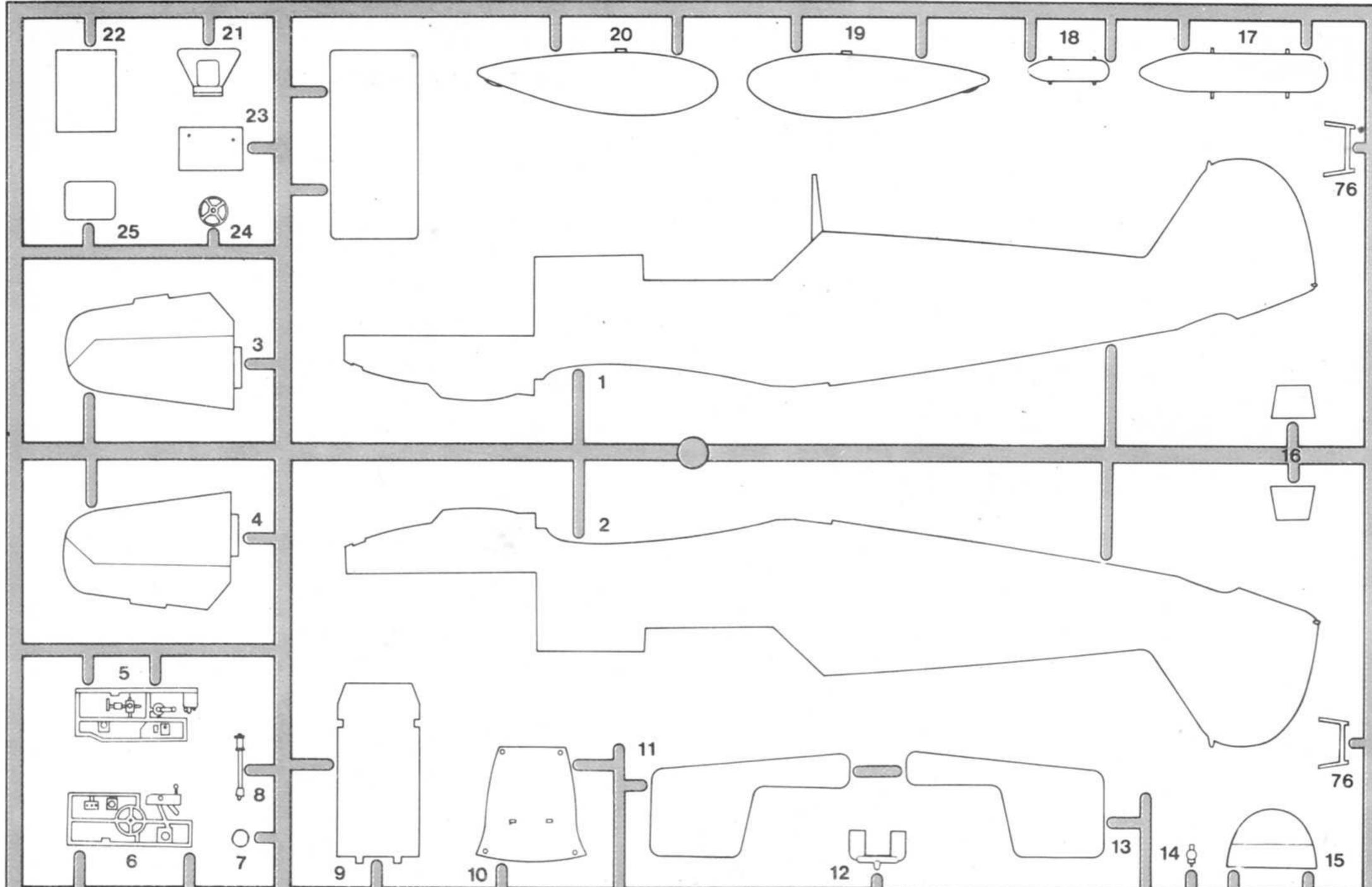
Parts 36: All models other than E-4/TROP.



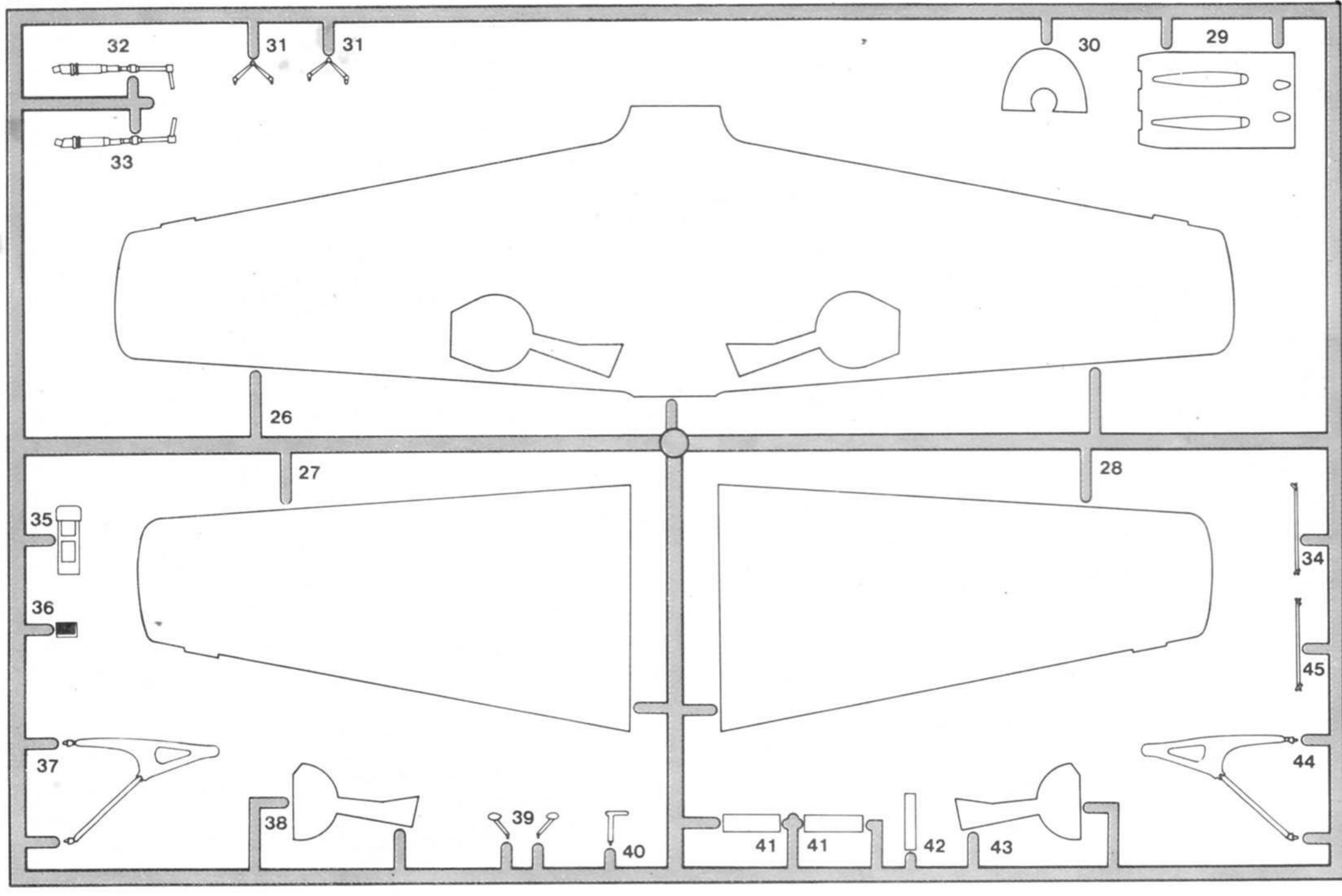




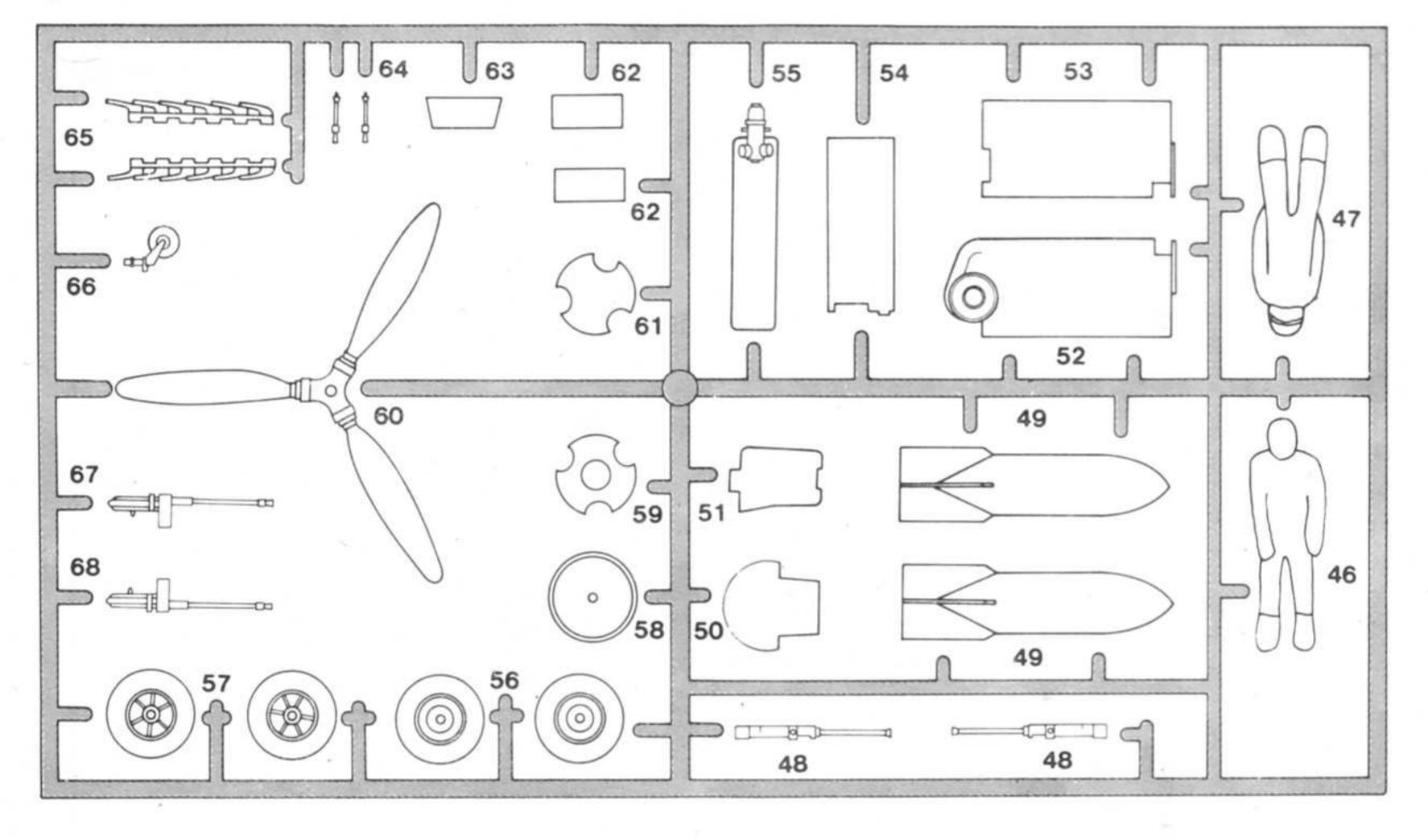
A Parts



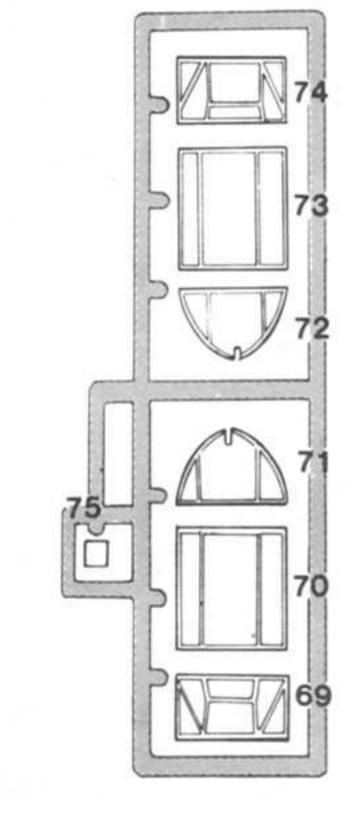
B Parts



C Parts



D Parts



Parts

- 1. Fuselage (left)
- 2. Fuselage (right)
- 3. Horizontal Tail (right)
- 4. Horizontal Tail (left)
- 5. Side Panel (right)
- 6. Side Panel (left)
- 7. 20mm Machine Gun Muzzle
- 8. Control Stick
- 9. Cockpit Floor
- 10. Bulkhead
- 11. Fuel Tank (right)
- 12. Fuel Tank (left)
- 13. Foot Pedal
- 14. Bomb Sight
- 15. Instrument Panel
- 16. Magazine
- 17. Bomb Rack
- 18. Auxiliary Fuel Tank Rack
- 19. 250 Litre Auxiliary Fuel Tank (right)
- 20. 250 Litre Auxiliary Fuel Tank (left)
- 21. Bomb-proof Plate
- 22. Seat
- 23. 7.9mm Machine Gun Carriage
- 24. Trim Tab Adjust Handle
- 25. Oil Tank
- 26. Main Wing Bottom
- 27. Main Wing Top (left)
- 28. Maing Wing Top (right)
- 29. Engine Cover
- 30. Cowling Parts
- 31. Torque Link
- 32. Main Strut
- 33. Main Strut
- 34. Horizontal Tail Strut (left)
- 35. Sand Filter (tropical)
- 36. Supercharger Air Intake
- 37. Engine Mount (right)
- 38. Main Wheel Door (left)
- 39. Mass Balance
- 40. Pitot Tube
- 41. Radiator Flap
- 42. Oil Cooler Parts
- 43. Main Wheel Door (right)
- 44. Engine Mount (left)
- 45. Horizontal Tail Strut (right)
- 46. Pilot
- 47. Pilot
- 48. 20mm Machine Gun
- 49. 250kg. Bomb
- 50. Engine Parts (front)
- 51. Engine Parts (back)
- 52. Engine Parts (left)
- 53. Engine Parts (right)
 54. Engine Parts (bottom)
- 55. Engine Parts (top)
- 56. Main Wheel (outer)
- 57. Main Wheel (inner)
- 58. Spinner Parts
- 59. Spinner (for fighter)
- 60. Propeller
- 61. Spinner (for scout plane)
- 62. Radiator Parts
- 63. Oil Cooler Parts
- 64. 7.9mm Machine Gun
- 65. Exhaust Pipe
- 66. Tail Wheel
- 67. 7.9mm Machine Gun (left)
- 68. 7.9mm Machine Gun (right)
- 69. Front Canopy (E-1, E-3)
- 70. Center Canopy (E-1, E-3)
- 71. Back Canopy (E-1, E-3)
- 72. Back Canopy (E-4 E-7)
- 73. Center Canopy (E-4 E-7)
- 74. Front Canopy (E-4 E-7)
- 75. Bomb Sight Parts

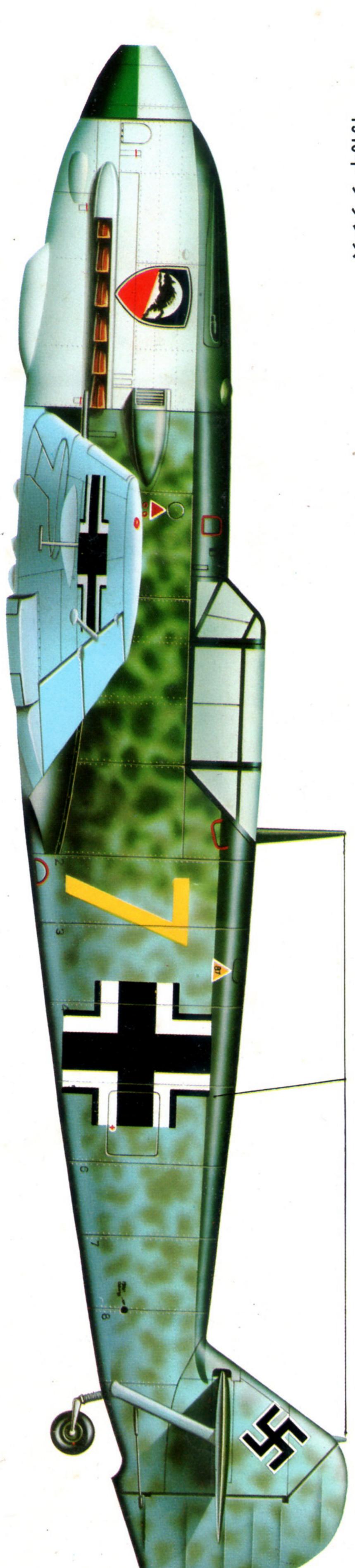
No. 1193-2, Yagusu, Yaizu, Shizuoka, (425) Japan

Messerschmitt Me109E

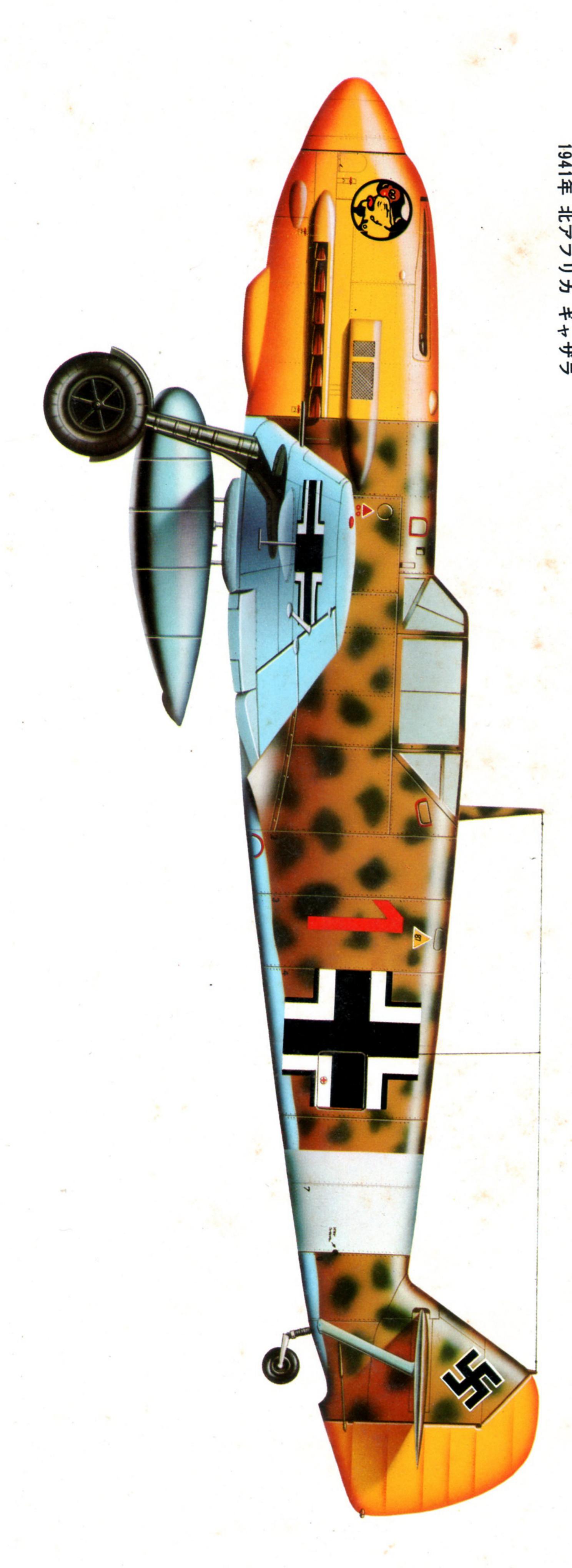
1/32 スケール メッサーシュミット Me109E

《ハセガワ カラーガイド》





Me109E-3 / JG52 1940年 フランス



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