

Messerschmitt Me 262



The **Messerschmitt Me 262 *Schwalbe / Sturmvogel*** (English: "[Swallow](#)"/ "[Storm Bird](#)") of [Nazi Germany](#) was the world's first operational [jet-powered fighter aircraft](#). Design work started before [World War II](#) began, but engine problems and top-level interference kept the aircraft from operational status with the [Luftwaffe](#) until mid-1944. Heavily armed, it was faster than any [Allied](#) fighter, including the British jet-powered [Gloster Meteor](#). One of the most advanced [aviation](#) designs in operational use during World War II, the Me 262 was used in a variety of roles, including [light bomber](#), [reconnaissance](#), and even [experimental night fighter](#) versions.

Me 262 pilots claimed a total of 542 Allied kills, although higher claims are sometimes made. The Allies countered its potential effectiveness in the air by attacking the aircraft on the ground and during takeoff and landing. Engine reliability problems, from the pioneering nature of its [Junkers Jumo 004](#) axial-flow [turbojet](#) engines—the first ever placed in mass production—and attacks by Allied forces on fuel supplies during the deteriorating late-war situation also reduced the effectiveness of the aircraft as a fighting force. In the end, the Me 262 had a negligible impact on the course of the war as a result of its late introduction and the consequently small numbers put in operational service.

While German use of the aircraft ended with the close of the Second World War, a small number were operated by the [Czechoslovak Air Force](#) until 1951. Captured Me 262s were studied and flight tested by the major powers, and ultimately influenced the designs of a number of post-war aircraft such as the [North American F-86 Sabre](#) and [Boeing B-47 Stratojet](#). A number of aircraft have survived on static display in museums, and there have also been several privately-built flying reproductions.

General characteristics

- **Crew:** 1
- **Length:** 10.60 m (34 ft 9 in)
- **Wingspan:** 12.60 m (41 ft 6 in)
- **Height:** 3.50 m (11 ft 6 in)
- **Wing area:** 21.7 m² (234 ft²)
- **Empty weight:** 3,795 kg (8,366 lb)
- **Loaded weight:** 6,473 kg (14,272 lb)
- **Max. takeoff weight:** 7,130 kg (15,720 lb)
- **Powerplant:** 2 × Junkers Jumo 004 B-1 turbojets, 8.8 kN (1,980 lbf) each
- **Aspect ratio:** 7.32

Performance

- **Maximum speed:** 900 km/h (559 mph)
- **Range:** 1,050 km (652 mi)
- **Service ceiling:** 11,450 m (37,565 ft)
- **Rate of climb:** 1,200 m/min (At max weight of 7,130 kg) (3,900 ft/min)
- **Thrust/weight:** 0.28

Armament

- **Guns:** 4 × 30 mm MK 108 cannon (A-2a: two cannon)
- **Rockets:** 24 × 55 mm (2.2 in) R4M rockets
- **Bombs:** 2 × 250 kg (550 lb) bombs or 2 × 500 kg (1,100 lb) bombs (A-2a variant)





Стандартный камуфляж



RLM81
Braunviolett



RLM82
Hellgrün



RLM78
Lichtblau



RLM22
Schwarz

Большинство Me 262 несли знак ПВО рейха (Reichsverteidigung) сразу перед хвостовым оперением. Цвета были различны по подразделениям

Нижние поверхности части поздних машин были цвета натурального металла

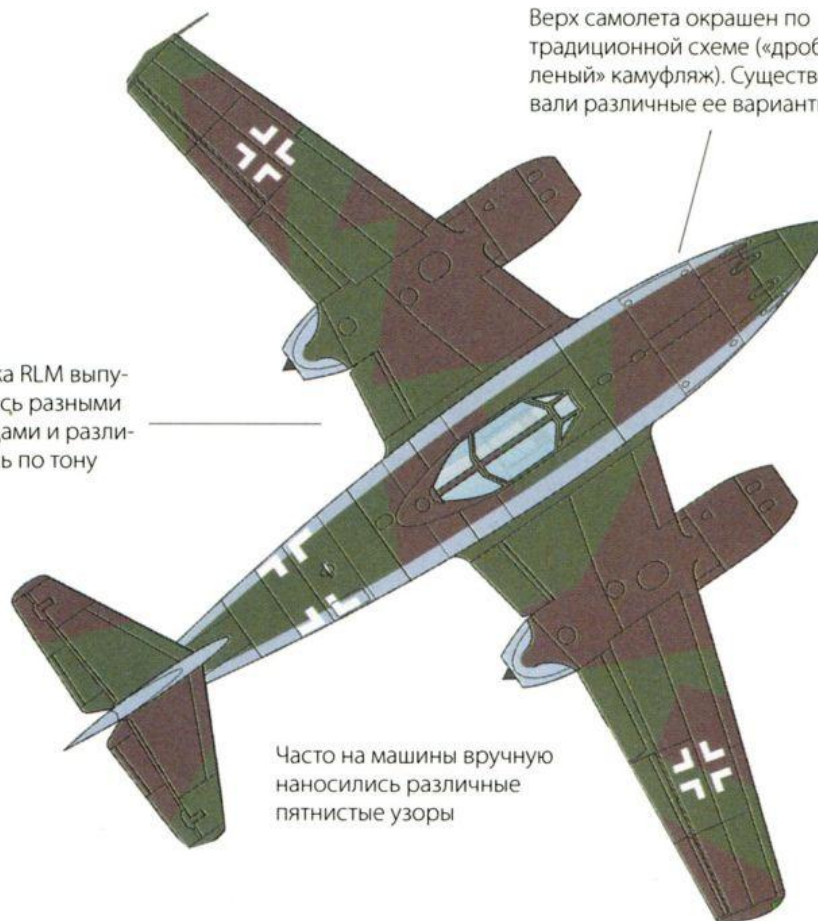
Для улучшения аэродинамики стыки листов обшивки на Me 262 часто шпаклевались и шлифовались, на Me 262 с металлической окраской они выглядят как серые полосы



Краска RLM выпускалась разными заводами и различалась по тону

Верх самолета окрашен по традиционной схеме («дробленый» камуфляж). Существовали различные ее варианты

Часто на машины вручную наносились различные пятнистые узоры



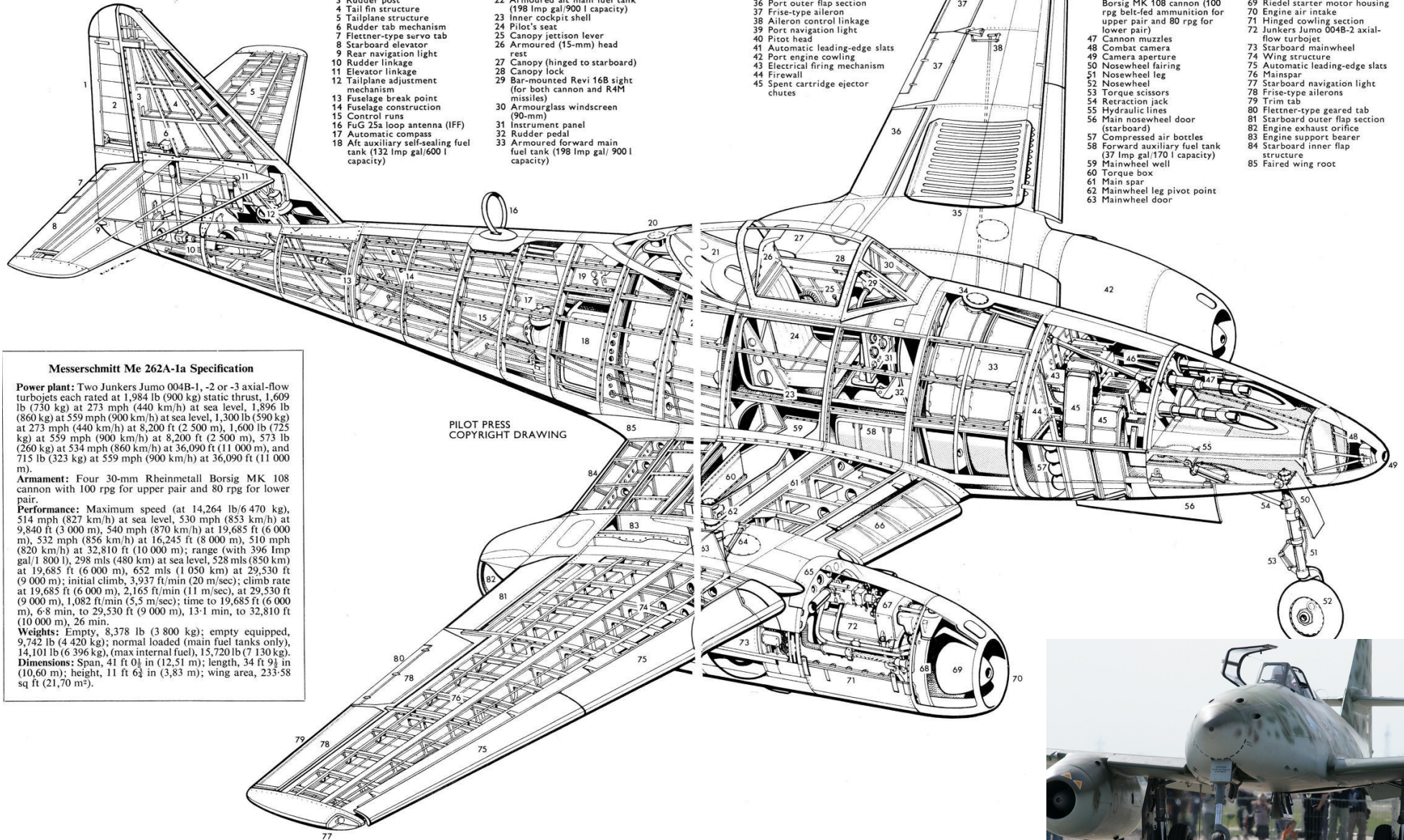
Messerschmitt Me 262A-1a cutaway key

- | | |
|--|--|
| 1 Flettner-type geared trim tab | 19 FuG 16zy R/T |
| 2 Mass-balanced rudder | 20 Fuel filler cap |
| 3 Rudder post | 21 Aft cockpit glazing |
| 4 Tail fin structure | 22 Armoured aft main fuel tank (198 Imp gal/900 l capacity) |
| 5 Tailplane structure | 23 Inner cockpit shell |
| 6 Rudder tab mechanism | 24 Pilot's seat |
| 7 Flettner-type servo tab | 25 Canopy jettison lever |
| 8 Starboard elevator | 26 Armoured (15-mm) head rest |
| 9 Rear navigation light | 27 Canopy (hinged to starboard) |
| 10 Rudder linkage | 28 Canopy lock |
| 11 Elevator linkage | 29 Bar-mounted Revi 16B sight (for both cannon and R4M missiles) |
| 12 Tailplane adjustment mechanism | 30 Armourglass windshield (90-mm) |
| 13 Fuselage break point | 31 Instrument panel |
| 14 Fuselage construction | 32 Rudder pedal |
| 15 Control runs | 33 Armoured forward main fuel tank (198 Imp gal/ 900 l capacity) |
| 16 FuG 25a loop antenna (IFF) | |
| 17 Automatic compass | |
| 18 Aft auxiliary self-sealing fuel tank (132 Imp gal/600 l capacity) | |

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| 34 Fuel filler cap |
| 35 Underwing wooden rack for 12 R4M 55-mm rockets |
| 36 Port outer flap section |
| 37 Frise-type aileron |
| 38 Aileron control linkage |
| 39 Port navigation light |
| 40 Pitot head |
| 41 Automatic leading-edge slats |
| 42 Port engine cowling |
| 43 Electrical firing mechanism |
| 44 Firewall |
| 45 Spent cartridge ejector chutes |

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|---|
| 46 Four 30-mm Rheinmetall Borsig MK 108 cannon (100 rpg belt-fed ammunition for upper pair and 80 rpg for lower pair) |
| 47 Cannon muzzles |
| 48 Combat camera |
| 49 Camera aperture |
| 50 Nosewheel fairing |
| 51 Nosewheel leg |
| 52 Nosewheel |
| 53 Torque scissors |
| 54 Retraction jack |
| 55 Hydraulic lines |
| 56 Main nosewheel door (starboard) |
| 57 Compressed air bottles |
| 58 Forward auxiliary fuel tank (37 Imp gal/170 l capacity) |
| 59 Mainwheel well |
| 60 Torque box |
| 61 Main spar |
| 62 Mainwheel leg pivot point |
| 63 Mainwheel door |

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| 64 Mainwheel retraction rod |
| 65 Engine support arch |
| 66 Leading-edge slat structure |
| 67 Auxiliaries gearbox |
| 68 Annular oil tank |
| 69 Riedel starter motor housing |
| 70 Engine air intake |
| 71 Hinged cowling section |
| 72 Junkers Jumo 004B-2 axial-flow turbojet |
| 73 Starboard mainwheel |
| 74 Wing structure |
| 75 Automatic leading-edge slats |
| 76 Mainspar |
| 77 Starboard navigation light |
| 78 Frise-type ailerons |
| 79 Trim tab |
| 80 Flettner-type geared tab |
| 81 Starboard outer flap section |
| 82 Engine exhaust orifice |
| 83 Engine support bearer |
| 84 Starboard inner flap structure |
| 85 Faired wing root |



Messerschmitt Me 262A-1a Specification

Power plant: Two Junkers Jumo 004B-1, -2 or -3 axial-flow turbojets each rated at 1,984 lb (900 kg) static thrust, 1,609 lb (730 kg) at 273 mph (440 km/h) at sea level, 1,896 lb (860 kg) at 559 mph (900 km/h) at sea level, 1,300 lb (590 kg) at 273 mph (440 km/h) at 8,200 ft (2 500 m), 1,600 lb (725 kg) at 559 mph (900 km/h) at 8,200 ft (2 500 m), 573 lb (260 kg) at 534 mph (860 km/h) at 36,090 ft (11 000 m), and 715 lb (323 kg) at 559 mph (900 km/h) at 36,090 ft (11 000 m).

Armament: Four 30-mm Rheinmetall Borsig MK 108 cannon with 100 rpg for upper pair and 80 rpg for lower pair.

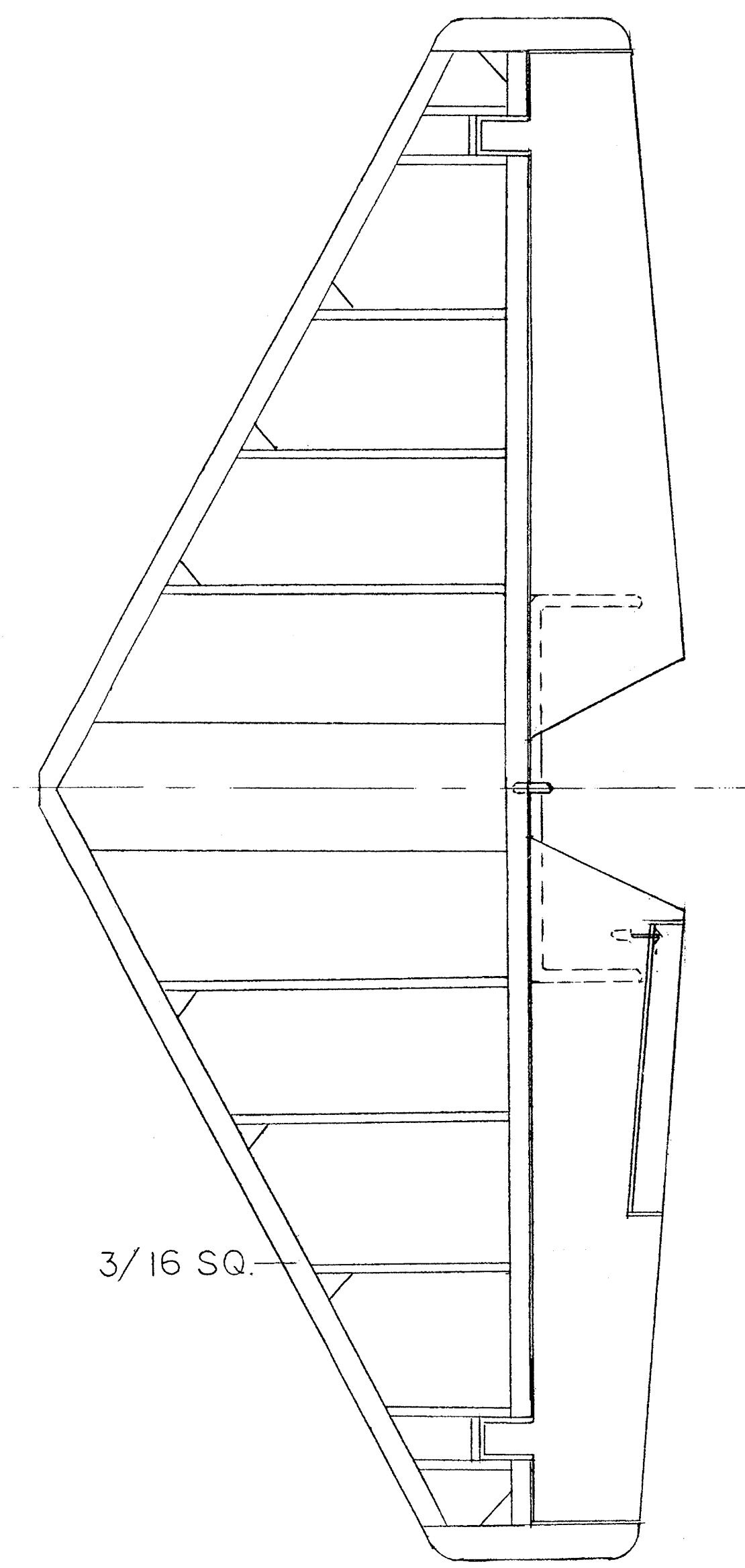
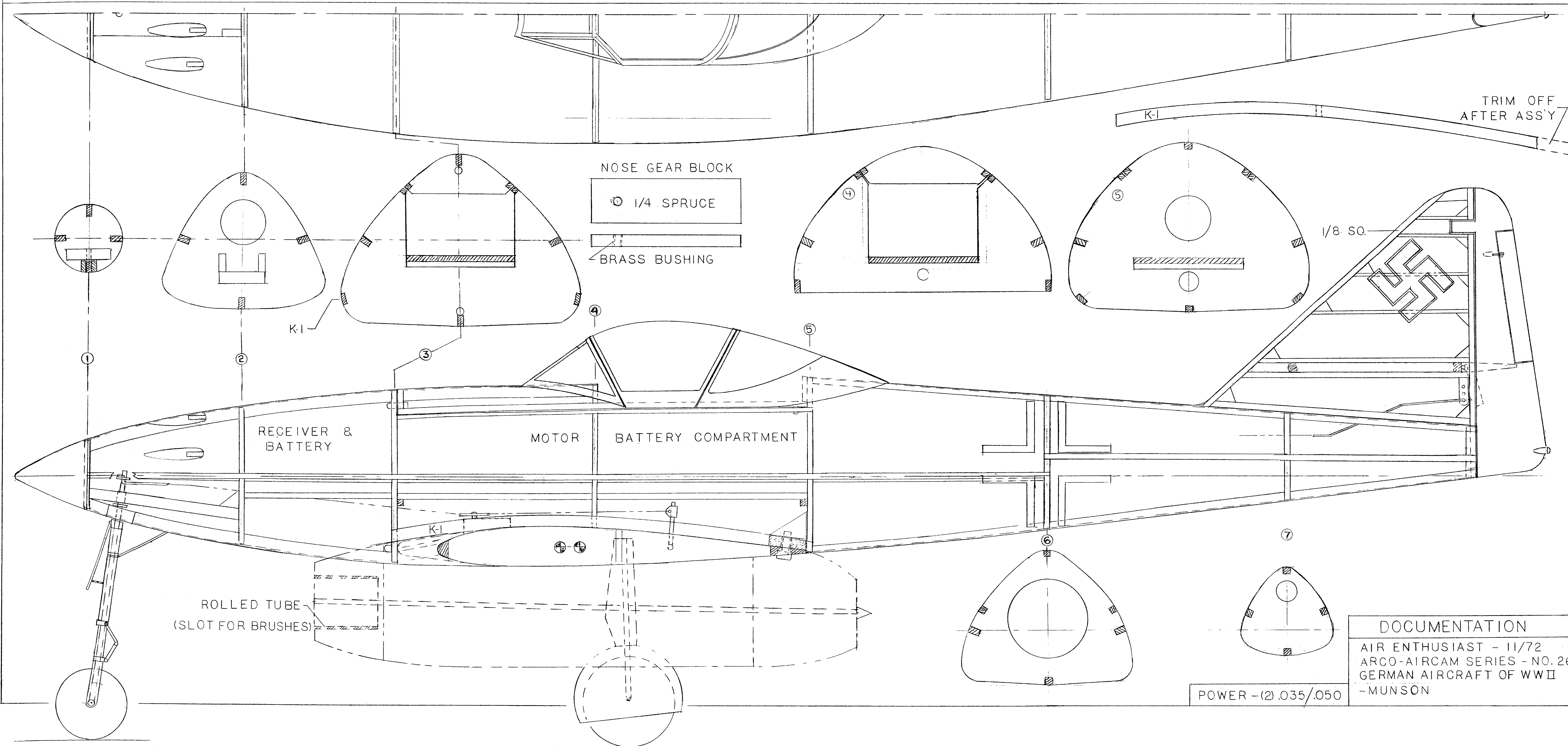
Performance: Maximum speed (at 14,264 lb/6 470 kg), 514 mph (827 km/h) at sea level, 530 mph (853 km/h) at 9,840 ft (3 000 m), 540 mph (870 km/h) at 19,685 ft (6 000 m), 532 mph (856 km/h) at 16,245 ft (8 000 m), 510 mph (820 km/h) at 32,810 ft (10 000 m); range (with 396 Imp gal/1 800 l), 298 mls (480 km) at sea level, 528 mls (850 km) at 19,685 ft (6 000 m), 652 mls (1 050 km) at 29,530 ft (9 000 m); initial climb, 3,937 ft/min (20 m/sec); climb rate at 19,685 ft (6 000 m), 2,165 ft/min (11 m/sec), at 29,530 ft (9 000 m), 1,082 ft/min (5.5 m/sec); time to 19,685 ft (6 000 m), 6-8 min, to 29,530 ft (9 000 m), 13-1 min, to 32,810 ft (10 000 m), 26 min.

Weights: Empty, 8,378 lb (3 800 kg); empty equipped, 9,742 lb (4 420 kg); normal loaded (main fuel tanks only), 14,101 lb (6 396 kg); (max internal fuel), 15,720 lb (7 130 kg).

Dimensions: Span, 41 ft 0½ in (12,51 m); length, 34 ft 9½ in (10,60 m); height, 11 ft 6½ in (3,83 m); wing area, 233-58 sq ft (21,70 m²).

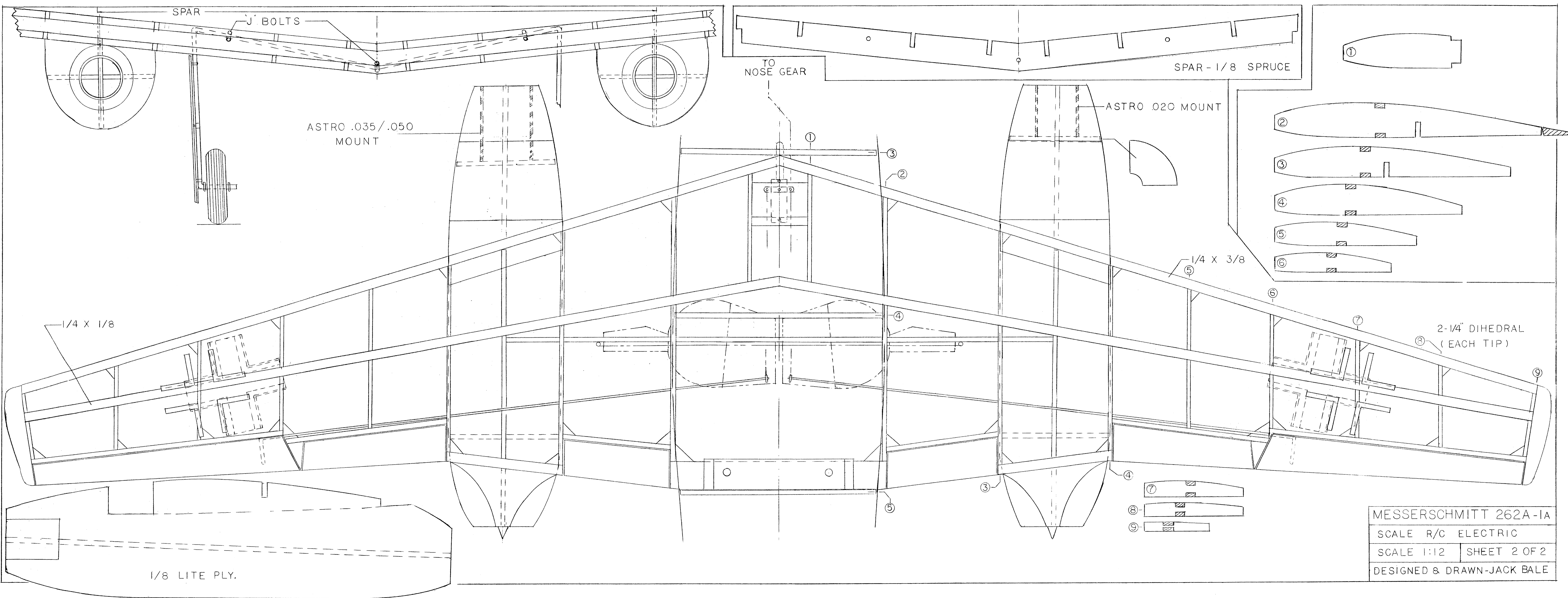
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 AIR ENTHUSIAST - 11/72
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 GERMAN AIRCRAFT OF WWII
 - MUNSON
 POWER - (2) .035/.050

MESSERSCHMITT 262 A-1A
 SCALE R/C ELECTRIC
 SCALE 1:12 SHEET 1 OF 2
 3/93 DESIGNED & DRAWN - JACK BALE



SPAR

J BOLTS

TO NOSE GEAR

SPAR - 1/8 SPRUCE

ASTRO .035/.050 MOUNT

ASTRO .020 MOUNT

1/4 x 3/8

1/4 x 1/8

2-1/4" DIHEDRAL (EACH TIP)

1/8 LITE PLY.

MESSERSCHMITT 262A-1A
 SCALE R/C ELECTRIC
 SCALE 1:12 SHEET 2 OF 2
 DESIGNED & DRAWN-JACK BALE

