MESSERSCHMITT Me 262 Described Part I

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KENNETH A. MERRICK



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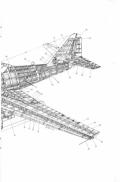




MESSERSCHMITT Me 262A—1e/U3









262V10. Galland in the meantime had formed a special flight from experienced fighter pilots to test the Me 262 in action.

The initial deliveries of Me 262s had been made to two test units, one at Lechfeld and the other at Rechlin Experimental Station (E-Stelle Rechlin) north of Berlin. Each detachment had approximately fifteen aircraft on its charge but as far as is known the one at Rechlin did not undertake any operational sorties, being engaged purely in technical testing. However, the Lechfeld detachment, designated Erprobungskommando 262, under Hauptmann Thierfelder was used primarily against the high flying Mosquito daylight reconnaissance aircraft which had hitherto proved to be almost invulnerable due to their speed. Before long the first kills were achieved by the Me 262 flight, and Thierfelder progressed to attacking bomber formations single handed. After some initial success he was eventually shot down. The tactical and technical trials continued to progress most satisfactorily during this period. and the collaboration between the military and industrial departments developed quickly and favourably.

However the presence of German jet and rocket propelled aircraft had naturally not gone unnoticed by the Allies, and in February, 1944, their bomber forces were directed against the entire German aircraft industry. This caused serious damage to the Me 262 production programme, Messerschmitt's plants being so badly damaged that the initial order of 100 aircraft could not be Increasing difficulties with material delivered. and personnel further retarded the final production phase until the end of March, 1944. When the initial batch was finally ready to leave the assembly works at Leipheim four weeks later, they were caught by an American daylight raid of April 24th, and in the event only eighteen reached the Luftwaffe. A further seven aircraft were taken on charge in May.

During the same month Galland attended an armament conference at which he emphasised the fact that the Luftwaffe's increasing losses could only be stemmed by the rapid service introduction of the technically superior jet and rocket propelled aircraft. He finished off his resumé with the statement that he would sooner have one Me 262 than five Bf 109s. The armament depart-

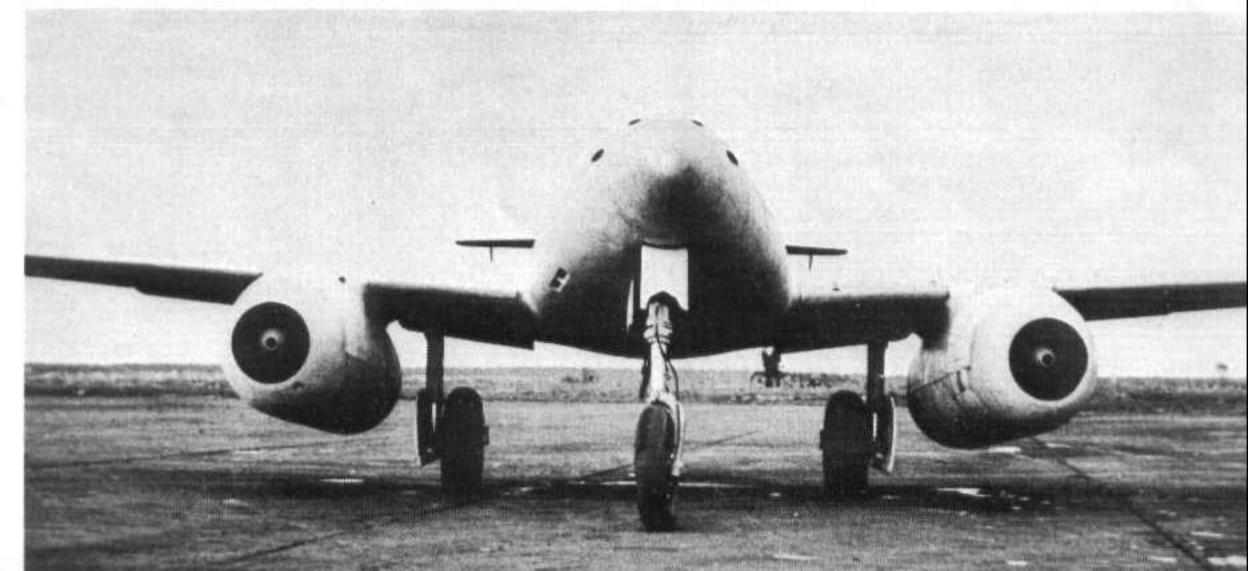
ment accepted his views and steps were taken to increase the Me 262 production tempo. It was decided that within three months of the inauguration of the proposed speed up programme production would exceed 1,000 aircraft per month. But once more Hitler intervened and rejected the programme. He still could not rationalise the necessity for increasing the air defences of Germany.

The initial production version was the Me 262A-1a Schwalbe which carried a fixed armament of four 30 m.m. MK 108 cannon in the nose. The two upper cannon were each provided with 100 rounds per gun, while the lower two had 80 rounds per gun. Radio equipment included FuG 16ZY with ZVG and FuG 25a. Several sub-variants stemmed from this basic design. The Me 262A-1a/U1 varied only in the type of armament fitted, six cannon being installed, two 20 m.m. MG 151 with 146 rounds per gun, two 30 m.m. MK 108 with 66 rounds per gun and two 30 m.m. MK 108 with 72 rounds per gun.

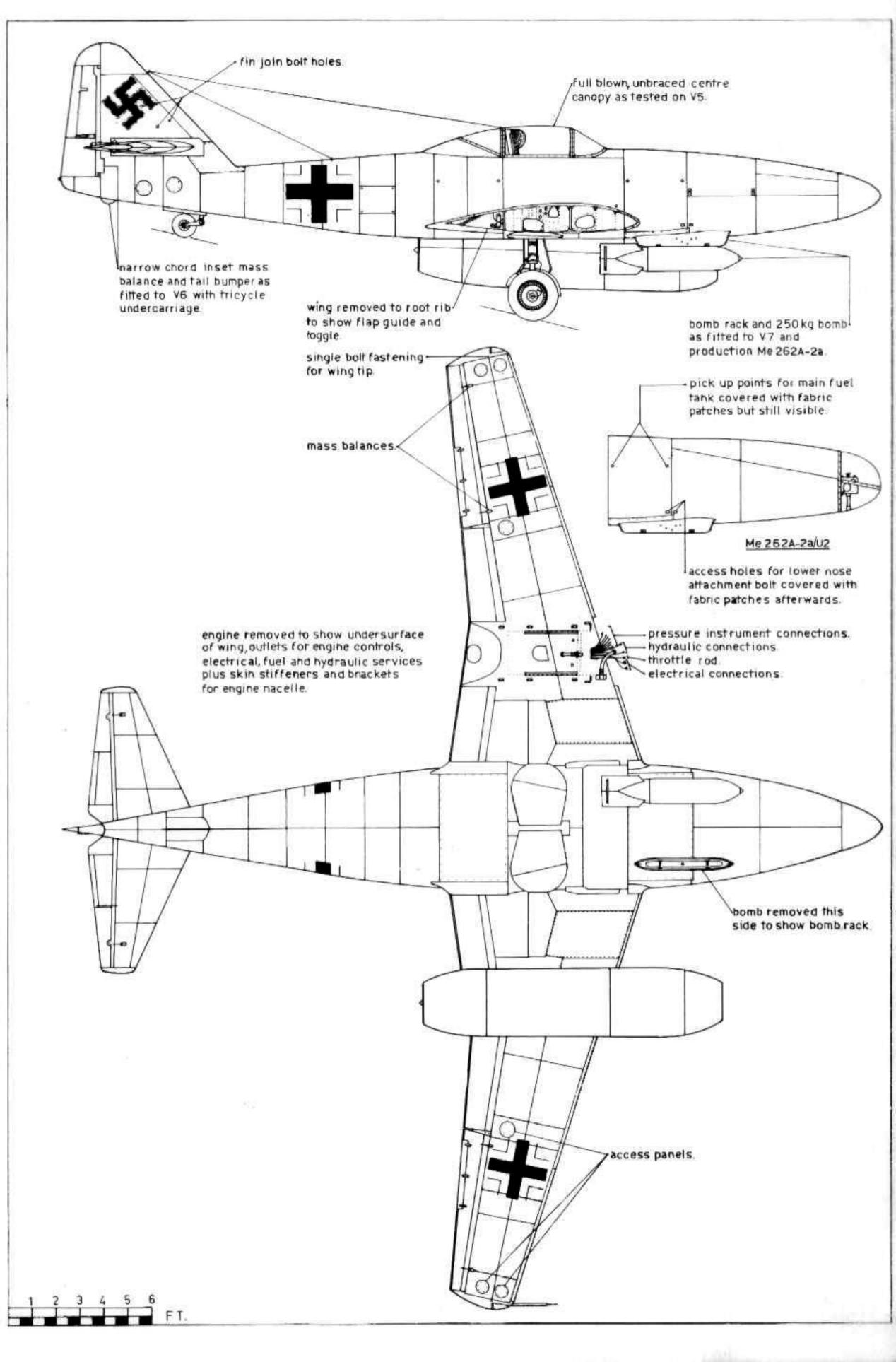
To meet the pressing need for a bad weather interceptor a specialized version with additional radio navigational aids was built under the designation Me 262A-1a/U2. A photographic reconnaissance version materialized under the designation Me 262A-1a/U3. This mark was unarmed, carrying two RB 50/30 cameras installed in the position normally occupied by the four cannon, the size and angular positioning of these units requiring the addition of a bulged fairing on each side of the fuselage. Despite this specialization the standard nose panelling was still retained, the cannon ports being covered with doped fabric patches.

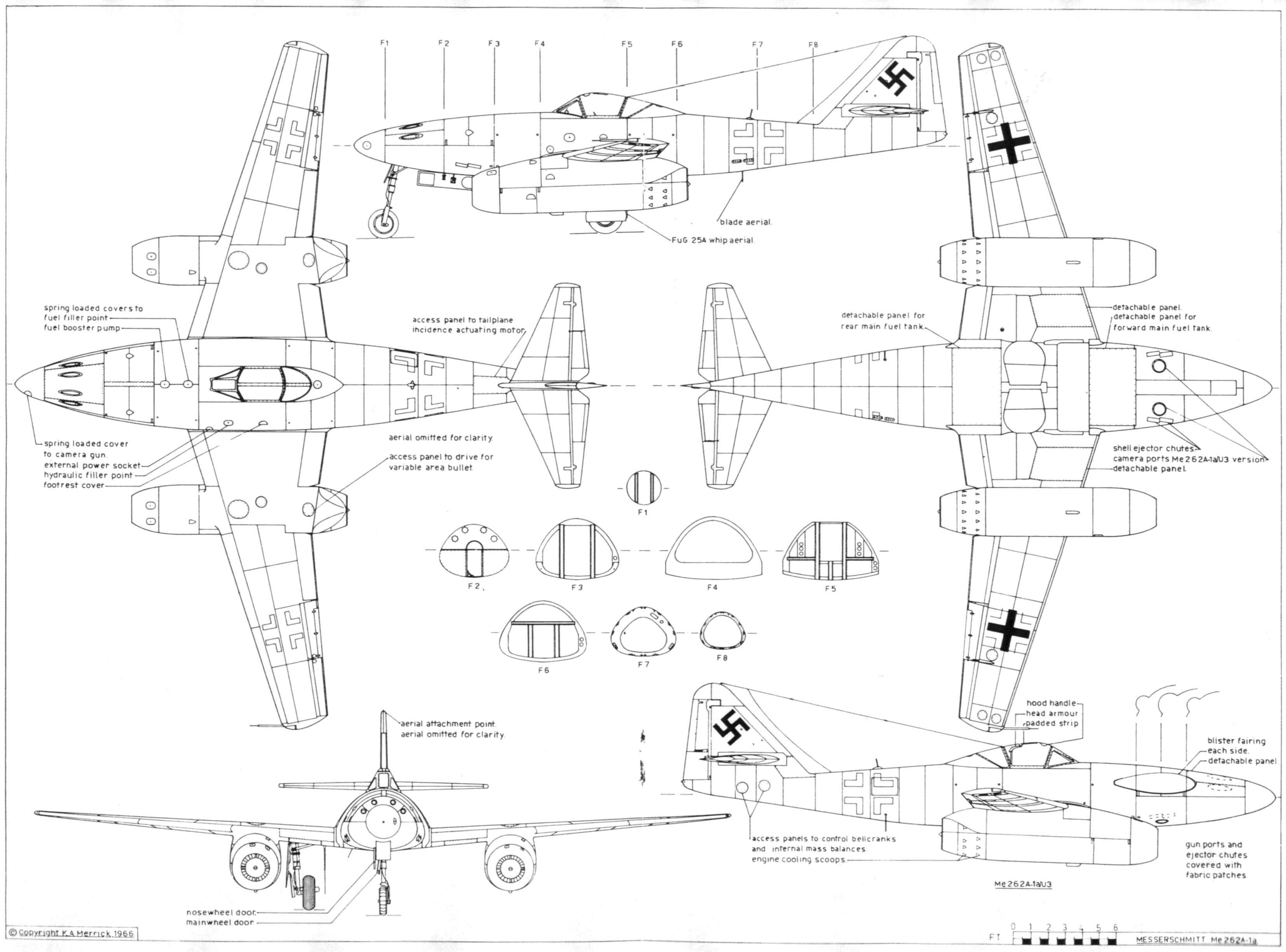
The final blow came at a discussion of an emergency programme when Hitler suddenly asked how many of the finished Me 262s had been converted to carry bombs. Milch, who had not been present at Insterburg and thus had not heard Hitler's bomber order, replied that none had been converted as the aircraft was being produced exclusively as a fighter. Hitler flew into a rage, the severity of which had not been witnessed before. A few hours later orders were issued detailing the refitting of the entire Me 262 production output as bomber aircraft. As a final touch, the aircraft was in future only to be referred to as a bomber. Both Galland and

This nose on view of the Me 262V6 shows the shell ejector chutes in their original form. The lines projecting downwards from the underside of the tailplane are the hoop frames of the elevator mass balances.











An Me 262A-2a Werk.Nr.III7II in natural metal finish. Despite the lack of bomb racks this WAS a bomber variant and details of its capture will be found in Part II of this work.

Messerschmitt tried desperately to get the order revoked but it was useless. The entire programme of testing, training of personnel and preparation for action was transferred from Galland to Pelz, General of the bombers. This conversion, which resulted in further delays resulted in the Me 262A-2a Sturmvogel, two bomb racks in streamlined fairings being mounted beneath the nose These were on either side of the wheel well. usually ETC 504s or the type known as Wikingschiff. A multitude of stores including a guided torpedo were projected for use with this variant but in practice only four types were used. These were the SC 500 500 kg. light case bomb, the SD 500 500 kg. semi-armour piercing bomb, the SC 250 250 kg. light case bomb or the SD 250 250 kg. semi-armour piercing bomb. The resulting speed penalty was as much as 120 m.p.h. which made the aircraft vulnerable to interception by standard piston engined fighters. usual four cannon installation was retained although a few aircraft had the upper pair of cannons removed. Initial deliveries of this version began in June 1944, twenty-eight being taken on charge by the Luftwaffe.

The next variant to appear was the Me 262A-2a/U1 in which the lower pair of cannon were removed to provide space for a T.S.A. bomb aiming device. The Me 262A-2a/U2 was a further attempt to improve the bomb aiming facilities by fitting a bulged semi-glazed wooden nose section, housing a second crew member in prone position similar to the P-38J Lightning (see Series 1, No. 3) and which resulted in an increase of approximately 8½ in. in the overall length of the fuselage. A standard Lofte 7H bomb sight was fitted. Only one prototype of this version was completed.

A specialized ground support and interceptor model materialized in the Me 262A-3a which featured additional armour for the fuel tanks and cockpit but was otherwise externally indistinguishable from the standard Me 262A-1a. The characteristic German propensity for multiplicity of operational role produced a compromise between the pure photographic reconnaissance version and the fighter interceptor; the Me 262A-5a. While still retaining the two RB 50/30 cameras in their original position the relatively small size of the MK 108 cannon made it possible to fit two of these in the next forward fuselage bay, one each side of the nosewheel well, with the barrel pro-

truding through to the nose cone. External pylons beneath the nose permitted the fitting of either two 65.9 Imp. gal. or 131.8 Imp. gal. auxiliary fuel tanks for increased operational range.

During the following weeks, while German towns and industry succumbed to the softening up attacks of the Allied bomber forces, Pelz continued to attempt to retrain his bomber pilots to fly the Me 262. Problem after problem arose, and while they were still in the process of being solved the long anticipated Allied invasion began. Not a single one of the blitz bombers was ready for operations and even during the following critical weeks of the bridgehead, few if any went into action. Their greatest opportunity had been lost.

CONSTRUCTION DETAILS

Fuselage: The fuselage was a semi-monocoque construction employing a mixture of triangular hoop frames and formers. No longerons were used, only hat section stringers, one along the top centre line aft of the cockpit, six along the sides with one terminating at former 14, and five along the bottom, the two outermost terminating at former 15. Except where specifically noted, stressed aluminium alloy skinning was used to cover the airframe.

Immediately aft of the nose cone was a solid web bulkhead which served as a jacking point. This was followed by a section 14½ in. long terminating in a flush riveted, channel shaped former, the whole being screwed to the next section which contained the armament bay. Steel sheet .080 in. thick was used to cover this section. The entire nose section was joined to the mid-fuselage by two high tension steel bolts, one in each of the lower corners, fastening it to a solid web bulkhead. At the top two 11 in. steel tubes, attached to the mid-section bulkhead by forged fittings, extended forward to the bulkhead at the front end of the gun access bay. Both tubes incorporate turnbuckles for alignment adjustments. Immediately behind the gun access bay was the forward fuel tank bay. The bottom panel of this section was of a waffle grid, double stressed skin construction and formed a detachable access panel. Attachment was by flush screws and captive nuts.









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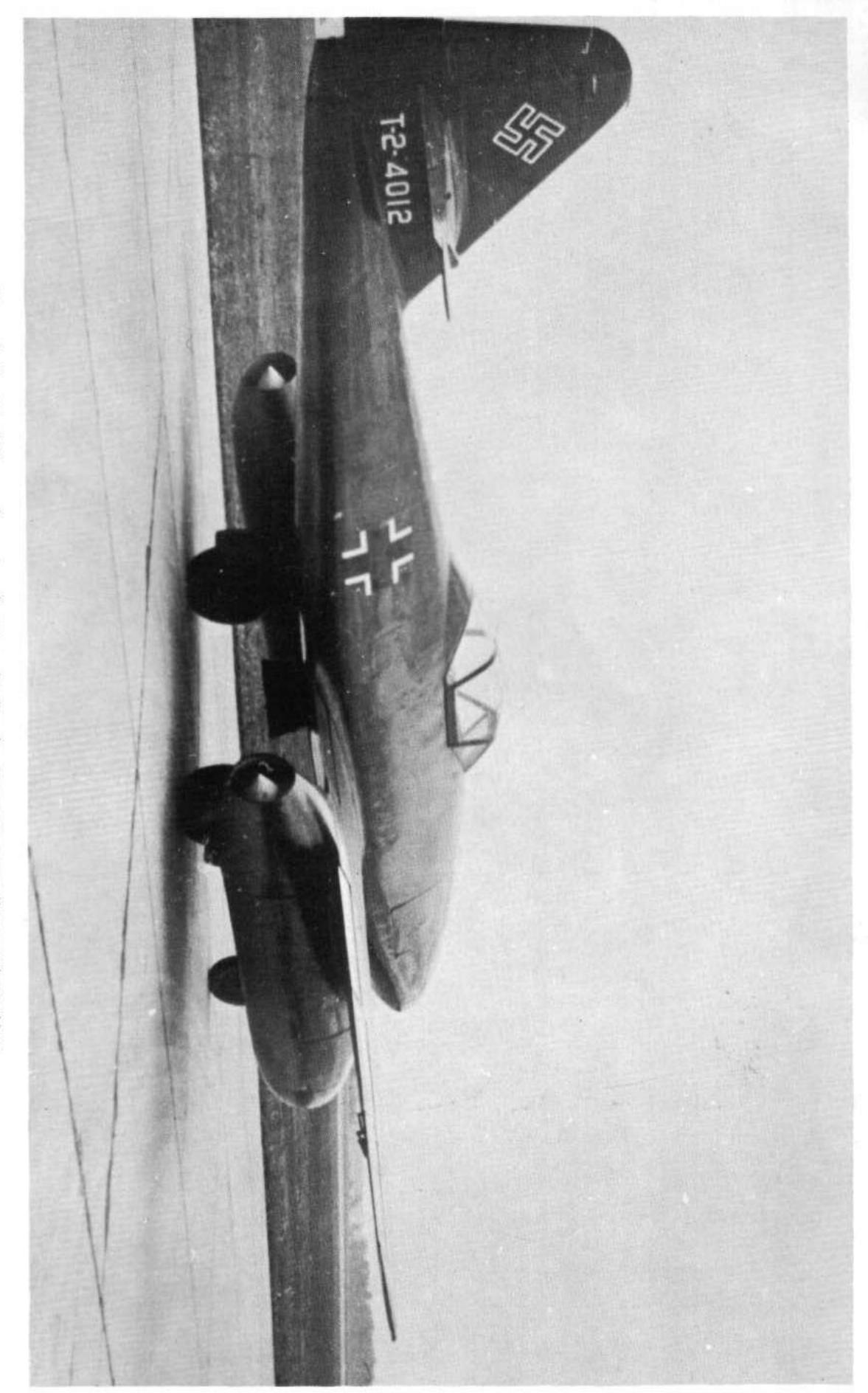
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The extremely pleasing lines of the Me 262 are shown to advantage despite the incorrect camouflage and markings.

Mark	Radio Noder	Armanest F.R. Equip.	Internal Faci Capacity	Duty
A-la	PuG 16Z or FuG 16ZY with ZNG 1Y.H.F., E.T., D/F, and retransaction fu- elities for G.C. sta- tion) and FuG 2Ia (IFF).	6 x 30 mm. MKIBE names. Upper pair 190 rp.g. Lewer pair 90 rp.g.	3649 Dep. gol.	Fighter.
A-la/UI	An for A-Ia	2 x 20 mm. MGS31/ 23 mish 166 rpg. 2 x 30 mm. MK213 with 66 rpg. 2 x 30 mm. MK183 with 72 rpg.	An Est A-1a.	Figher.
A-la/U2	As for Aria ples Full 123.	As for A-1s.	At for A-1a.	End weather
A-14/U3	An for A-Ia.	2 x 800 30/30 care-	As for A-la.	Photo-recor.
A-0b	As for A-Ia.	As for A-Is plus 24 R ₂ M 50 mm, recitets.	As for A-Ia.	Fighter.
A-2s	As for A-1s.	An for A-Ia plus other 1 x 500 Kg. found, or 2 x 250 Kg. board.	At fire Arts.	Fighter bombo
A-St/UI	As for A-1a.	2 a 33 mm. ME308 with 80 rp.g. Bound load as for A.Ta.	As for A-1a.	Fighter bombo
A-2a/U2	As for A-1a.	1 5 500 Kg. bomb.	At fix A-1s.	Bomber.
A-ha	As for A-1s.	As for A-la.	As for A-1s.	Cround stack righter.
A-5a	As for A la.	2 x 30 mm, ME100 with 66 rail plot 2 x 88 50-50 cameras	At fix A-145.	Fighter encor.
B-1a	As for A-1a.	As for A-la.	360.2 hop. pd.*	Two-seat trade
E 14/UI	Ped 142V with AFN 1 Territor ranging) 1 Territor ranging) 1 Territor ranging) 1 Territor ranging 1 Territor	2 x 20 mm M0111 0 mm 124 cpg m 2 x 28 mm 500146	As for B is.*	Two-seas night
B-24	As for B-tarkin.	As for A-In plus 2 n 50 mms. MRIES in n Schriger Must in- stallation.	637.4 Emp. gud.*	Two-seat night fighter.
C-la	As for A-la.	As for A-la.	235.7 feep. gal. of F-2 disset oil. 197.9 feep. gal. of T-Starf. 131.8 feep. gal. of C-Stoff.	Rocket bonan fighter.
CB	As for A-la.	As for Ada.	At for C Ia.	Rocket boosto fighter.
Additional ex	At far Ada.	I s 50 mm. BK.J common.	As for A-la.	Boater des-





