## 1/48MTSUBSHIBINTERGEPTOR RAIDE





iima and Mitsubishi received an unofficial order to trial-manufacture the Raiden, the Japanese Navy's first interceptor (a fighter to undertake the air defence of lund bases). It was finally decided, however, that the development and trialmanufacture of the Raiden should be conducted only by Mitsubishi. It was in April of 1940 that the plane was designated "14-Shi Interceptor (J2M1)" and official requirements were set out by the Navy. The requirements gave priority to climbing power, maximum speed and highaltitude performance. Aircraft engines of those days that could meet all these requirements were only the air-cooled engine "Kasei" type 11 trial-manufactured by Mitsubishi for the Type 1 Attack Bomber (G4M) "Betty" and the liquidcooled engine "Atsuta" trial-manufactured by Aichi, Because of the Navy's poor experience in liquid-cooled engines and Atsuta's insufficient air-cooled engine Kasei which, having larger engine diameter and giving larger air resistance, was not best suited to be used in a lighter. The Raiden was designed by engineer Jiro Hori-koshi and his designers who had taken charge of the Zero Fighter.

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To lessen air resistance, the propeller shaft of the engine was made longer and the cowling was made slenderer. To obtain higher cooling efficiency, the forced-cooling fan was used. The body was spindle-shaped with its largest section yausa vas oz7400 at the 40% of its overall length. The wing load

In September 1939, aircraft manufacturers Naka- was as large as 145 kg/m² and, in due consideration of doglights, Fowler flaps were employed. The retracting system and propeller pitch changing system of the electric type were employed in place of those of the hydraulic type which had a bad reputation.

Kasumigaura Airfield on 20th March, 1942. As a result of various test flights made thereafter, defects such as insufficient power of the Kasei engine, bad vibration of the extended propeller naval air arsenal which produced the Raiden, shaft and poor visibility were pointed out. A the geographical conditions that its base Atsugi production type which bettered visibility by was located near the course of B29 bombers shortening the nose and remodelling the canopy and mounted the more powerful Kasei 23 engine equipped with the water-methanol injection system made its first flight on 13th October, 1942. The production type also developed many troubles in the engine and other sections, and it was in December 1943 that the plane was accepted in Indus-cooled engines and Aristata insufficient reliability, the Navy was forced to employ the air-cooled engine Kasei which, having larger en (J2M2). In the meantime, the Raiden Type 21 (J2M3), an anti-bomber fighter which had more powerful armament consisting of four helt-fed 20mm machine guns, was completed in October 1943 and now became the main object of production. The production of the Type 21 totalled about 300.

The Raiden Type 21 first saw action in the Battle of Mariana in September 1944. Subsequently, some were sent to the Philippines and Formosa and took part in actions, but the result Armament: Four 20 mm machine guns and two

It was in air defence actions for the mainland by the Raiden unit of the 302nd Air Group based on Atsugi that the Raiden exercised its own power to the full and showed the most brilliant activity. The Raiden unit distinguished itself by shooting down a total of about 300 The 14-Shi Interceptor made its first flight at emeny planes in the short period from the end of 1944 to the end of the war. It owed much of its success to the fact that it could readily obtain necessary material from the nearby Koza intruding into the Kanto district, and the best consolidated air defence system and air defence control by means of radar network.

> (Main Data of the Raiden Type 21 (J2M3)) Engine: One Mitsubishi Kasei 23a 14-cylinder double-row radial air-cooled engine.\_ Nominal horsepower of 1,575 hp/1,800 m

Propeller: VDM constant-speed 4-blade Diameter of 3.30 m. 0.85 m. Length 9.695 m.

Span: 10.85 m. Height: 3.875 m.

Height: 3.875 m. Weight: Loaded, 3,435 kg (Empty, 2,574 kg) Maximum speed: 587 km/h/5,300 m.

Climbing time: 6 minutes and 14 seconds (to the altitude of 6,000 m).

Maximum cruising range: 2,520 km (with a droppable fuel tank).

30-60 kg bombs.

PAINTING

Paint the wide areas with a 10 to 20mm wide flat brush. Use a smaller brush (a oo or even ooo size) to paint narrow parts. When you use spray gun, mask off the model with masking tape etc. to cover the areas to remain unpainted prior to spray painting. Only do your spray painting in the ventilated place. Avoid work near fire.

The paints do not adhere well to a greasy plastic surface. Wash the model in tepid water in which a drop of washing-up fluid has been dissolved. Then follow up with another bath of cold water, drying off each section in the dust-free condition before proceeding to the painting work.

Use paints only for plastic. The paint may be thinned down with plastic thinner. Clean off the brush by dipping it in thinner at the end of your painting session. Then dry an old fix the thinner out with an old rag and return

Painting of Raiden

Basic Painting

Fuselage, main wing, tailplane (upperside) ... Dark green (Japanese Navy type)....(underside)..... Light grey. Uppersurface of the plane nose (from top to meter panel)...... Anti-glare blue black (black 3: blue 1). Front edge of main wing (from center to joint) .... Orange vellow identifying colour stripe.

Other Details

All inside surfaces (strut cover inside and landing gear well) are painted in clear greenish blue paint. The detail paintings are as follow:

Red brown: Propeller, spinner, head rest. Brown: Antenna stay.

Rusty iron (black+brown+silver): Exhaust pipes.

Black: Radio apparatus, strut, tyres, machine

Silver: Landing gear wheel, forced cooling fan, strut inside cylinder, top of pitot tube, propeller hub.

The detail paintings are given in assembly www.tamiyausa.com

Propeller & spinne

PAINTIN Painting & Ap

Decal A (for all types in common

Top of pitot tube (silver)

Wing tip lights right (blue) left (red)



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