

震電

1/72 IDENTICAL SCALE

KYUSHU SHINDEN EXPERIMENTAL INTERCEPTOR



The idea of an 'ante' (also, 'tail-first' or canard) type interceptor, the first and the only one of its kind for the Japanese Navy was conceived by Technical Capt. Masachika Tsuruno, a young pilot-engineer of the Navy Aeronautical Research Institute. The interceptor later developed from this idea was called, 'Shinden'. The 'Shinden' adopted a propulsive-type fuselage in view of its high-efficiency propeller to comply with the Navy's high speed specification of 750km/h, close to the limit of any propeller-plane with a customary piston-engine at the time.

The adoption was made after thorough tests and remodelling of variously shaped fuselages. Since engine and propeller was placed at the rear end of fuselage, the nose had to be slimmed in the extremely degree to reduce frontal air-resistance. However, by concentrating all the machine guns here at the nose, high precision-firing was effected. In 1942, a motorized glider, MXY 6, of the same design was manufactured for a preliminary trial in 1943, the next year, and Capt. Tsuruno himself made a test flight aboard the glider, happily confirming its excellent stall property and practicality.

In 1944, the Navy ordered the Kyushu Airplane Mfg. Company to manufacture a prototype plane as the Trial Interceptor-18. The No.1 trial-plane was completed in July, 1945, and on August 3, the same year, its test flight was conducted at the Mushiroda Army airfield (now, Itazuke airfield) for about 45 minutes.

Two more test flights were made but during the third one, fuselage of the test plane was badly damaged. The 'Shinden', therefore, met the termination of the Pacific war without ever displaying its full performance at actual air fights. Designed speed of the 'Shinden' reached to the highest level actually possible at the time 750km/h, to be exact.

The 'Shinden' was regarded a an extremely powerful interceptor, being equipped with four 30mm machine guns. Also, it was an epoch-making one gifted with many other features: The tail-first design to facilitate excellent

stall property; the sweep-back wing; the 6 blade propeller to absorb a large horse-power of the Ha-43 engine, etc. Further, owing to its peculiar propeller position situated right at the back of fuselage, the pilot could easily make an emergency escape safely outside the disabled plane by blowing up propeller with powder, while to avoid possible danger from heated, used cartridges, it had a working system to recover them. Incidentally, roughly simultaneous with development of the 'Shinden', two countries beside Japan had been engaged in trial manufacture of the 'ante' plane. One was the U.S. XP-55, Ascender, and the other, the Italian SAI-SS4. However, both were markedly inferior in technical design and actual performance to the 'Shinden'.

Principal Specifications

Overall width: 11.11m Overall length: 9.66m Empty weight: 3,465kg
Overall weight with full equipment: 4,928kg

Engine: Mitsubishi Ha-43-42, air-cooled, double-row, 18-cylinder, radial engine with a take-off thrust of 2,130 HP

Maximum speed: 745km/h (at an altitude of 8,700m)

Armament: Four 30mm machine guns and also, four 30-60kg bombs

Crew: 1

Painting

When painting, note that there is a slight difference in the right- and left-hand wavelike painting on the upper- and lower- surface.

Painting of Details

★ Pilot dummy: Uniform, light brown; gloves, an aviation cap and boots, rusty brown; and dummy face, flesh tint.

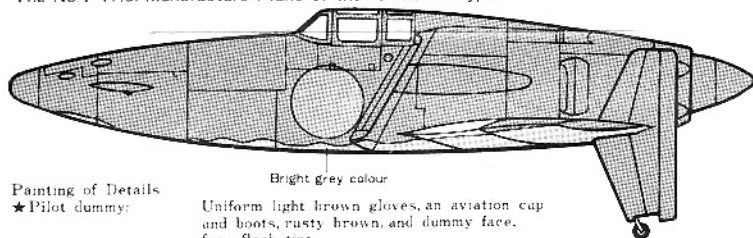
Tire and bombs: Half-polished black

MG and MG holes: Iron black colour (black added with a little of silver and brown)

Additional tanks: The same colour as that of fuselage or silver
Inside of fuselage and undercarriage cover: Fresh bamboo colour (blue+green+silver)

PAINTING AND APPLYING DECALS

The No.1 Trial-Manufacture Plane of the 'Shinden' Type



Bright grey colour

Painting of Details

★ Pilot dummy:

Uniform light brown gloves, an aviation cap and boots, rusty brown, and dummy face, flesh tint.

Tire and bombs:

Half-polished black.

MG and MG holes:

Iron black colour. (black added with a little of silver and brown).

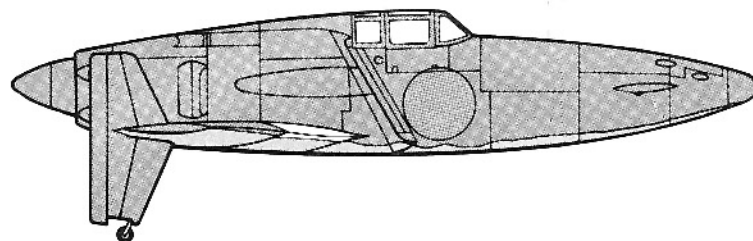
Additional tanks:

The same colour as that of fuselage or silver

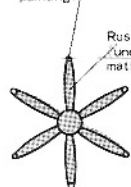
Inside of fuselage and undercarriage cover:

Fresh bamboo colour (blue+green+silver)

Dark green colour



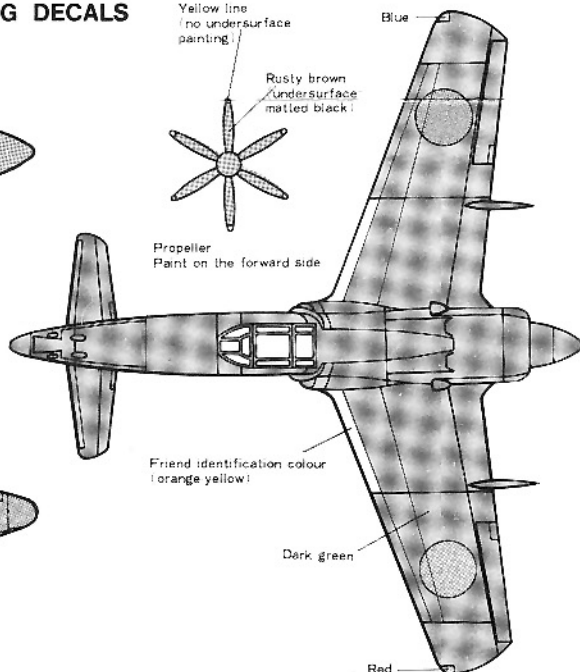
Yellow line (no undersurface painting)



Propeller
Paint on the forward side

Rusty brown (undersurface matted black)

Blue



Friend identification colour (orange yellow)

Dark green

Red



1/100 SCALE MINI-JET SERIES

No. 1 Mig-19 Farmer E

No. 2 A-7A Corsair 2

No. 3 Douglas Skyhawk

No. 4 Lightning F Mk6

No. 5 Dassault Mirage III C

No. 6 Saab J-35F Draken

No. 7 Fiat G-91/R1/R4

No. 8 Lockheed F104J/G

No. 9 Mig-21 Fishbed

No. 10 Bell UH-1B Iroquois

No. 11 Saab AJ37 Viggen

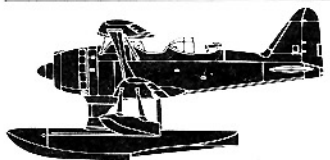
No. 12 Intruder

No. 13 Phantom F4E

No. 14 Phantom F4K

No. 15 Ilyushin IL-28

No. 16 Boeing B-52F



1/50TH SCALE JAPANESE FIGHTER PLANE SERIES

No. 1 Zero Fighter No. 52

No. 5 Shoki

No. 6 Hien

No. 7 Hayabusa

No. 8 Ki-100 Goshikisen

No. 9 Saiun (Myrt)

No. 10 Dive Bomber 99

No. 11 Zero Kan (Pete)

1/72 SCALE JAPANESE FIGHTER SERIES

No. 1 Zerozen Type 32

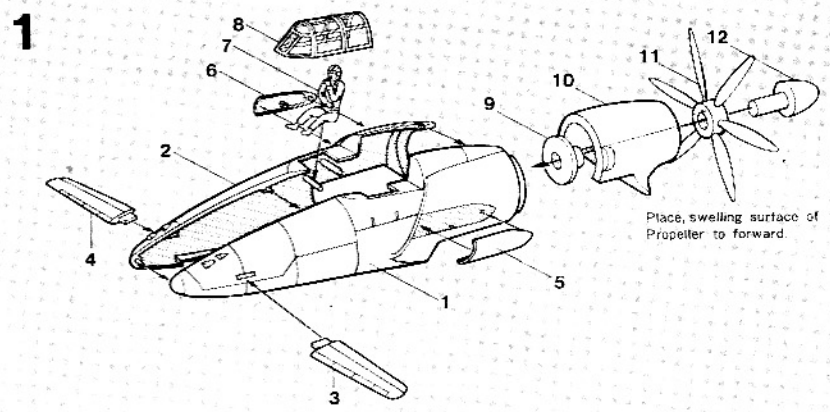
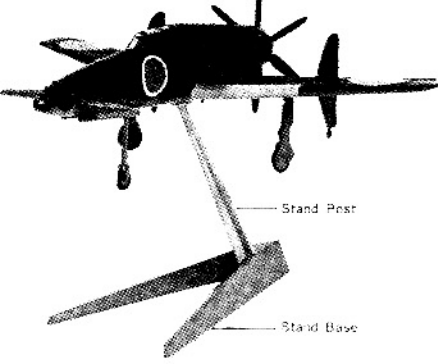
No. 2 Shoki

No. 3 Raiden

No. 4 Hayate

No. 5 Shinden

INTERCEPTOR "SHINDEN"



★Read before Your Assembly Work:
 This kit can be assembled into either of the following two states — a landing or a flying state. So, select the one you prefer.
 ★First, glue Stand Post onto Stand Base.

Fig. 1
 ★First of all, construct Cowling. Don't apply adhesives to Propeller, (11), as it is to be revolvable later. However, apply adhesive to Spinner, (12), and Shaft Holder, (9).
 ★First, fix Pilot Dummy, (7), to Fuselage, (2). Then, glue Fuselage, (2), onto Fuselage, (1).

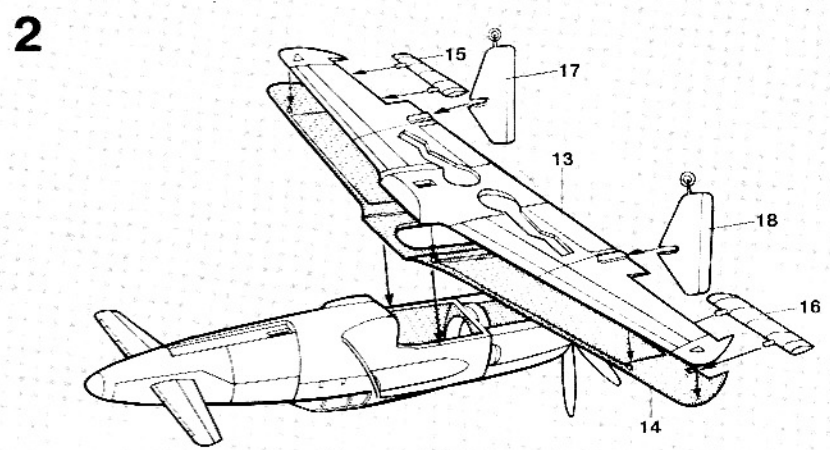
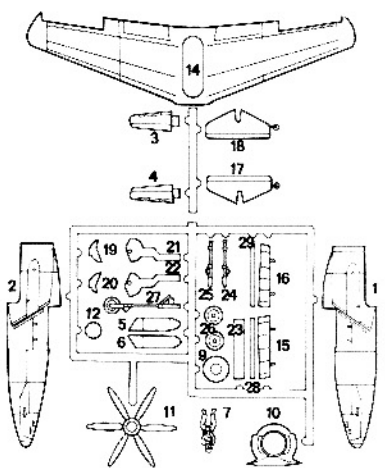
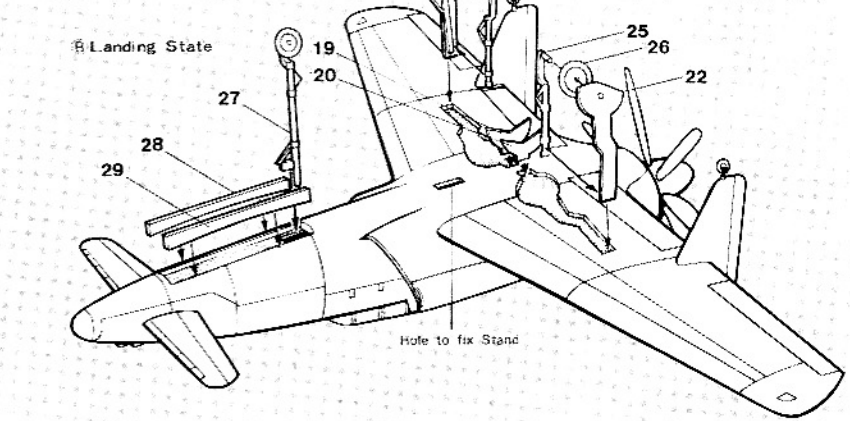
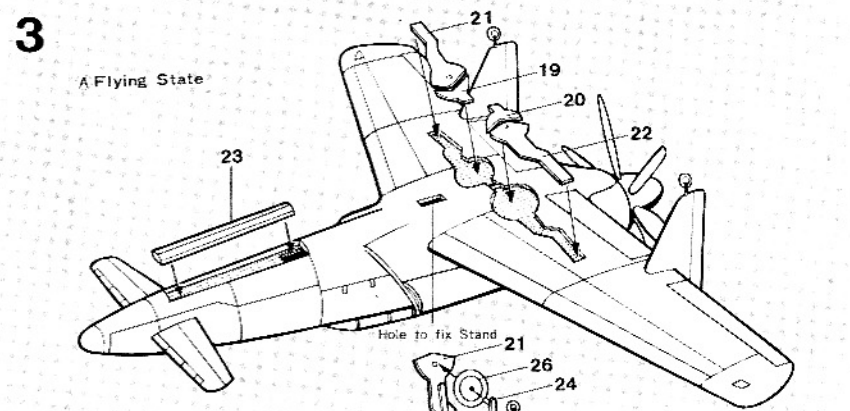


Fig. 2
 ★First, glue Upper and Lower Wing halves together. Then, glue Aileron and Fin onto the completed Wing.

Fig. 3
 ★A In a flying state, be sure not to confuse front with rear positions and right with left Undercarriage — and Undercarriage — Wheel Covers, respectively.
 ★B In a landing state, don't confuse right, (25), with left Undercarriage, (25).

- List of Parts
- | | |
|--------------------------------|------------------------------------|
| 1 Fuselage, left | 16 Aileron, right |
| 2 Fuselage, right | 17 Fin, left |
| 3 Horizontal Stabilizer, left | 18 Fin, right |
| 4 Horizontal Stabilizer, right | 19 Wheel Cover, left |
| 5 Air Intake, left | 20 Wheel Cover, right |
| 6 Air Intake, right | 21 Undercarriage Cover, left |
| 7 Pilot Dummy | 22 Undercarriage Cover, right |
| 8 Windshield | 23 Nose Undercarriage Cover |
| 9 Shaft Holder | 24 Undercarriage, left |
| 10 Cowling | 25 Undercarriage, right |
| 11 Propeller | 26 Tires, 2 pieces |
| 12 Spinner | 27 Nose Undercarriage |
| 13 Lower Wing | 28 Nose Undercarriage Cover, left |
| 14 Upper Wing | 29 Nose Undercarriage Cover, right |
| 15 Aileron, left | |



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1/72 "SHINDEN" KYUSHU J7WI EXPERIMENTAL INTERCEPTER