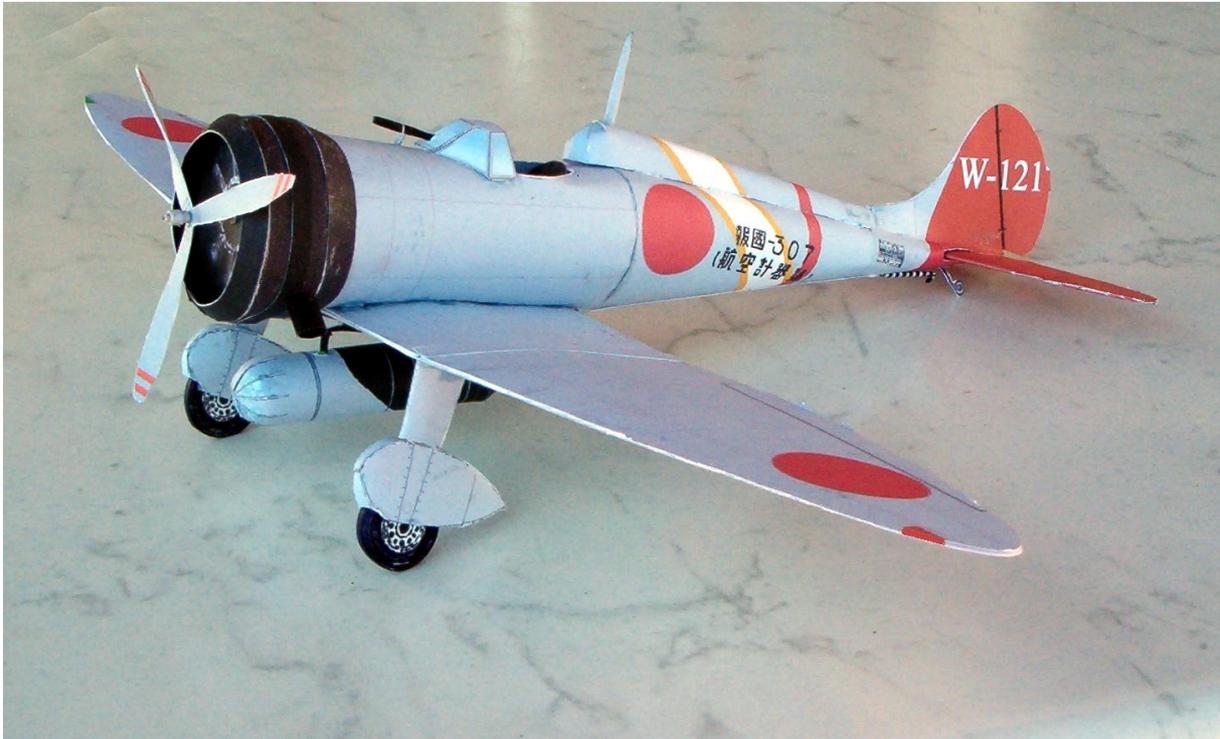


# Bob's Card Models

[www.bobscardmodels.altervista.org](http://www.bobscardmodels.altervista.org) and [www.zealot.com](http://www.zealot.com) [Resources]



## Mitsubishi A5M4 1:30

The Mitsubishi A6M Zero was a lightweight fighter aircraft operated by the Imperial Japanese Navy Air Service (IJNAS) from 1940 to 1945. The origin of its official designation was that "A" signified a fighter and "6" for the sixth model built by Mitsubishi ("M"). The A6M was usually known to the Allied militaries as the "Zero" — a name that was frequently misapplied to other Japanese fighters, such as the Nakajima Ki-43 — as well as other codenames and nicknames, including "Zeke", "Hamp" and "Hap".

A combination of excellent maneuverability and very long range made it one of the finest fighters of its era. In early combat operations, the Zero gained a legendary reputation, outclassing its contemporaries. Later, design weaknesses and the increasing scarcity of more powerful aircraft engines meant that the Zero became less effective against newer fighters. (Wikipedia).

The model depicted was flown by Sentoki Buntai of the aircraft-carrier *Soryu*, in operation in the China Sea during the autumn of 1939. The financing of this plane was carried out by public subscription, which justified the inscription on the plane Hakokugo (patriotism) followed by the number of the aircraft.

## Specifications

Motor: 1 Nakajima Kotobuku 41, 9 cylinders, 710HP.

Max speed: 435 km/h at 3000m altitude.

Range: 1200km.

Wingspan: 11.00m

Length: 7.56m

Armaments: 2 m-g's, type 89 7.7mm, and 2 bombs each 30kg.

## **Building Instructions**

Print all sheets on between 160 and 230g card, except Instructions and Sheet 6 which should be printed on 80 - 90g Paper.

Always carefully fit parts together before gluing, and make minor adjustments if necessary.

**Bright Green areas must be cut out, BUT only after gluing any folds. The Instructions will tell you when!**

Although the model is relatively small, bulkheads have also been used to keep the correct cross-sectional form of the fuselage.

Thanks, for providing the excellent 3-D views, to : "l'encyclopédie illustrée de l'Aviation" No. 127, and to <http://www.airwar.ru/other/draw/a5m2.html> for their free solid model plans.

NOTE: When gluing on wings, tailplane and part **5A**, make sure that they are exactly in line with the cockpit. Use elastic bands until the glue is dry.

### **Fuselage**

1. Cut out **4** and the green area for the cockpit, at this stage leaving the small green slits left and right at the front of the cockpit.
2. Cut out cockpit parts **2B**. Glue together, insert in place in **4** to a depth of 1.8cm, glue on the INSIDE.
3. When dry, cut off portion of the cockpit protruding, round **4**, glue tab and close the part.
4. Cut out parts **5** to **6**, round and close/glue.
5. Gently insert bulkhead **C** into **5** as far as it will go (about half-way), and glue in place making sure the position does not conflict with any of the green slits on top of the fuselage..
6. Glue parts **4** to **6** together.
7. Gently insert bulkhead **B** into **4** as far as it will go (about 2cm) and glue in place.
8. Bend 90° the tabs on front of **4**, and glue on bulkhead **A** (make sure it sits exactly central).
9. Cut out **2**, bend down all side tabs about 45°, close/glue. Add **3** by gluing onto the bent down tabs of one side of **2**; glue only about 5 tabs at a time. Blacken with a felt pen, the back of the remaining tabs.
10. Pass fuselage through unit **2/3**, and glue in place. Finally glue on **1** on front of unit (Cut out **1**, then either blacken with a felt pen on the rear side, or glue **1A** on the back).
11. Cut out **5A**, round/glue. Glue in position on top of fuselage part **5** in the slits provided.
12. Glue **2A** over **2** to give the latter a certain 'rounded' profile.
13. Add exhausts **2E** on positions marked on **2**.
14. Cut out, fold and glue in place the Pilot's Seat **2C**.

### **Wings**

15. Assemble the wings: cut out the top and bottom portions of the right wing **7**, fold tabs sharply on the bottom wing portion. Cut out 2 green areas for the landing gear struts **15** on the bottom wings, insert these (**15**) from the inside of the wing so that the white portion doesn't show, and glue liberally on the inside of the wing only (make sure the glue dries whilst they are vertically in place). Glue top and bottom wings together. Note that the width of the bottom wing is 98% that of the top wing - necessary to give the correct curvature to the cross-section. Cut the green slit on the top wing. Cover the 'bend' in the wing with **7A**. Cut out the 2 green slits for the elevator flap.
16. Assemble and glue together the wing frame structure **8**, and glue the left and right portions on the tabs **X** together.
17. Tack/glue the frame on the top and bottom, and insert one half into the wing, Hold gently until the glue is dry.
18. Repeat the assembly for the left wing **9**.
19. Cut out strip **12** and glue in place joining the left and right wings halves together.
20. Glue wings in place with the aid of a rubber band, making sure that all angles are correct (ie 90° to cockpit).

### **Tailplane**

14. Cut out tailplane **10**, fold, close/glue.
15. Cut out the 2 halves **11**. Bend down the tabs 180°. Bend the 2 bottom tabs outwards 90°, glue the 2 halves together, omitting gluing the lower grey portion, which must exhibit the profile shown..
17. Glue fin onto tailplane in the position marked.
18. Insert the unit into the slits at rear end of fuselage and glue in place.

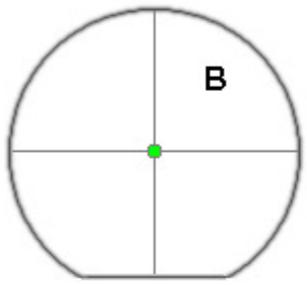
### Undercarriage

19. Cut out the 4 wheel strips **13** for each wheel, join together, roll/glue around a pin.
20. Cut out and glue in place, the Wheel Hub Caps **13A**.
21. Cut out the Wheel Covers **14**, pierce green hole for the tooth-picks, round **14**, fold tabs and glue. Cut off flash/protrusions.
22. Cut out green areas on **14** ( wheel cavity, and vertical tooth-pick strut).
23. Drill a small hole on the perimeter of each tyre, insert/glue a toothpick in each.
24. Insert the free end of the toothpicks through the small hole in each respective Wheel Covers **14**, and glue the tyres onto the latter.
25. Insert/glue the free end (cut to appropriate length) through **15**.

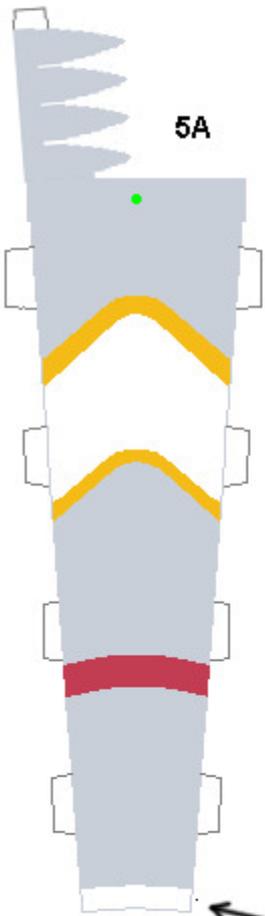
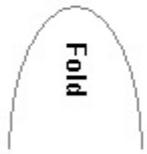
### Varia

26. Add the rear wheel [**16**]. For extra strength, sandwich a piece of card between the 2 halves.
27. Add the Aerial Mast [**17**], either as a toothpick coloured grey and protruding 29mm above the fuselage, or a toothpick covered with paper part [**18**] rolled around and glued on.
28. Cut out the Arrestor hook [**19**], roll around a tooth pick, then around a fine needle and glue. Still whilst wet, bend the correct form. Insert in the rear of the fuselage in the position marked.
29. Cut out, fold, glue windscreen **2D** in place.
30. Cut out, roll/glue on a pin, the machine-gun **20** and fix in place with one end through cockpit window (green dot).
31. Glue on Bomb and its support **21**.

---oooOooo---



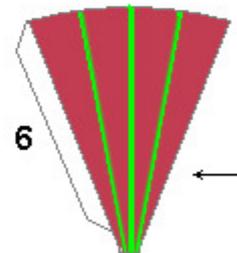
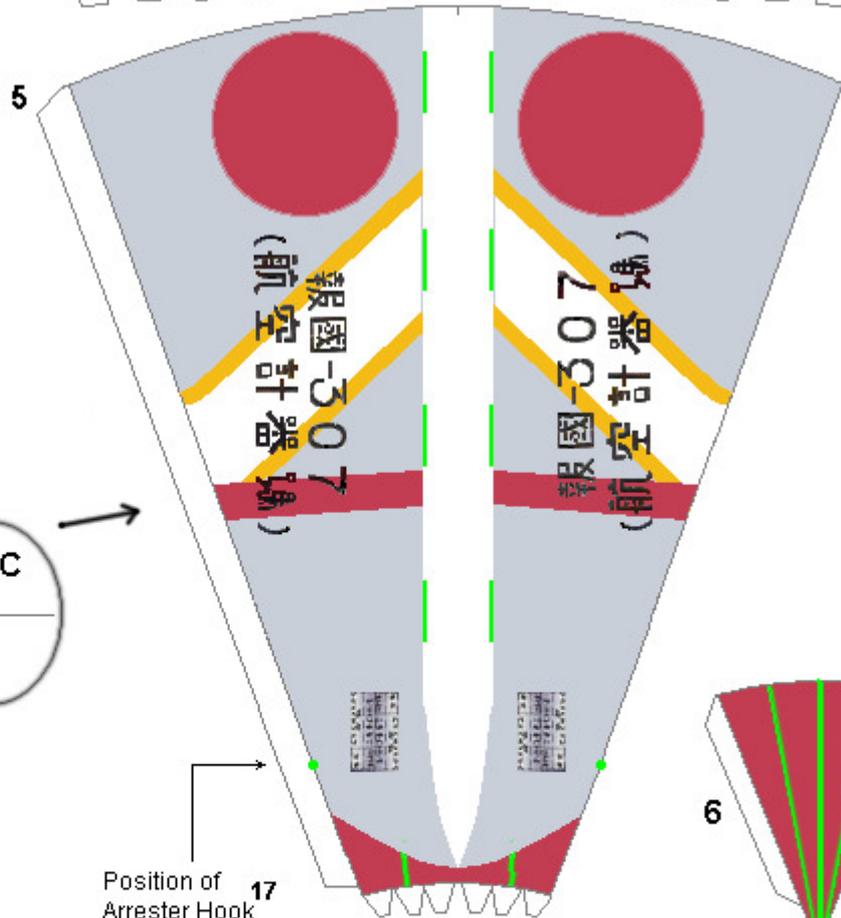
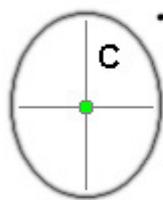
**Bulkheads B and C**  
Make 3x thick



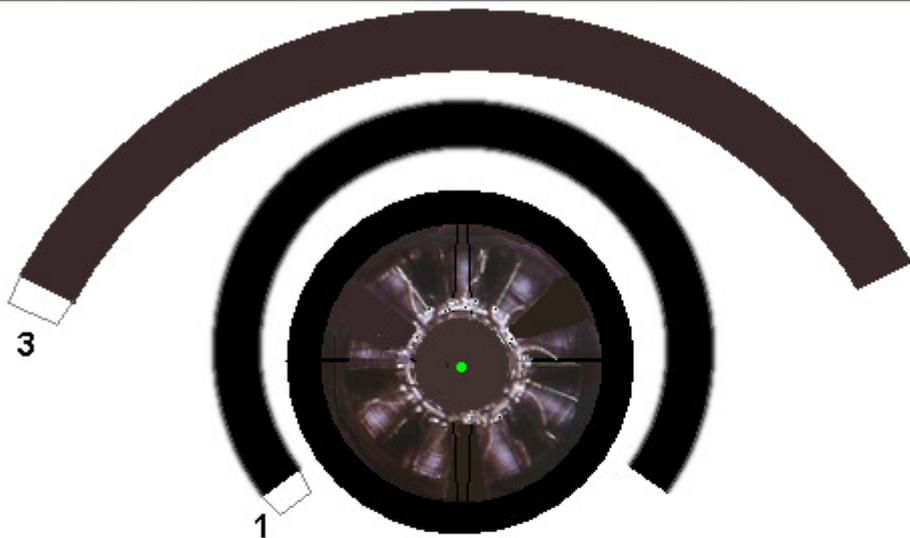
Glue on fin



**Sheet 1**  
mitsub



Position of Rear Wheel 16



**A**  
Make 3x thick.

With a felt pen, blacken the rear side of the tabs and 5mm further in.

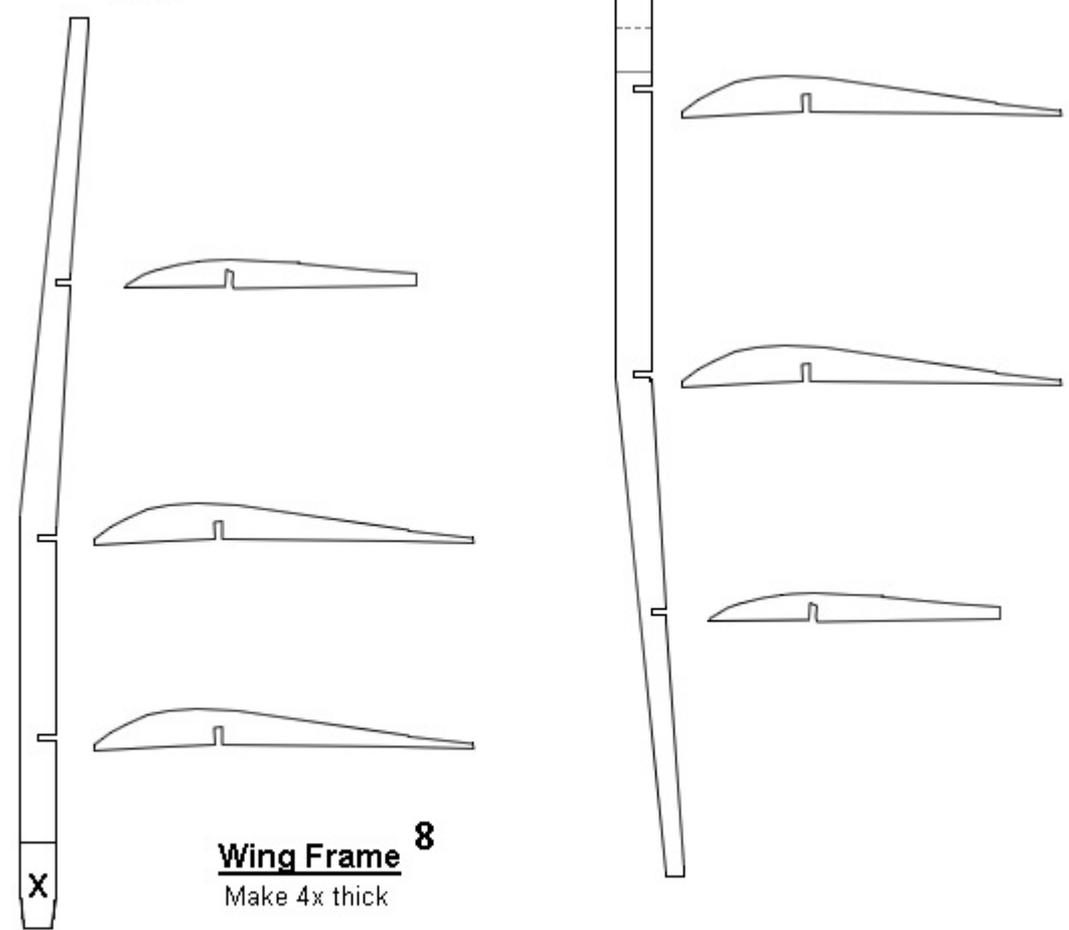


Glue on exhausts  
2E

LEFT

RIGHT

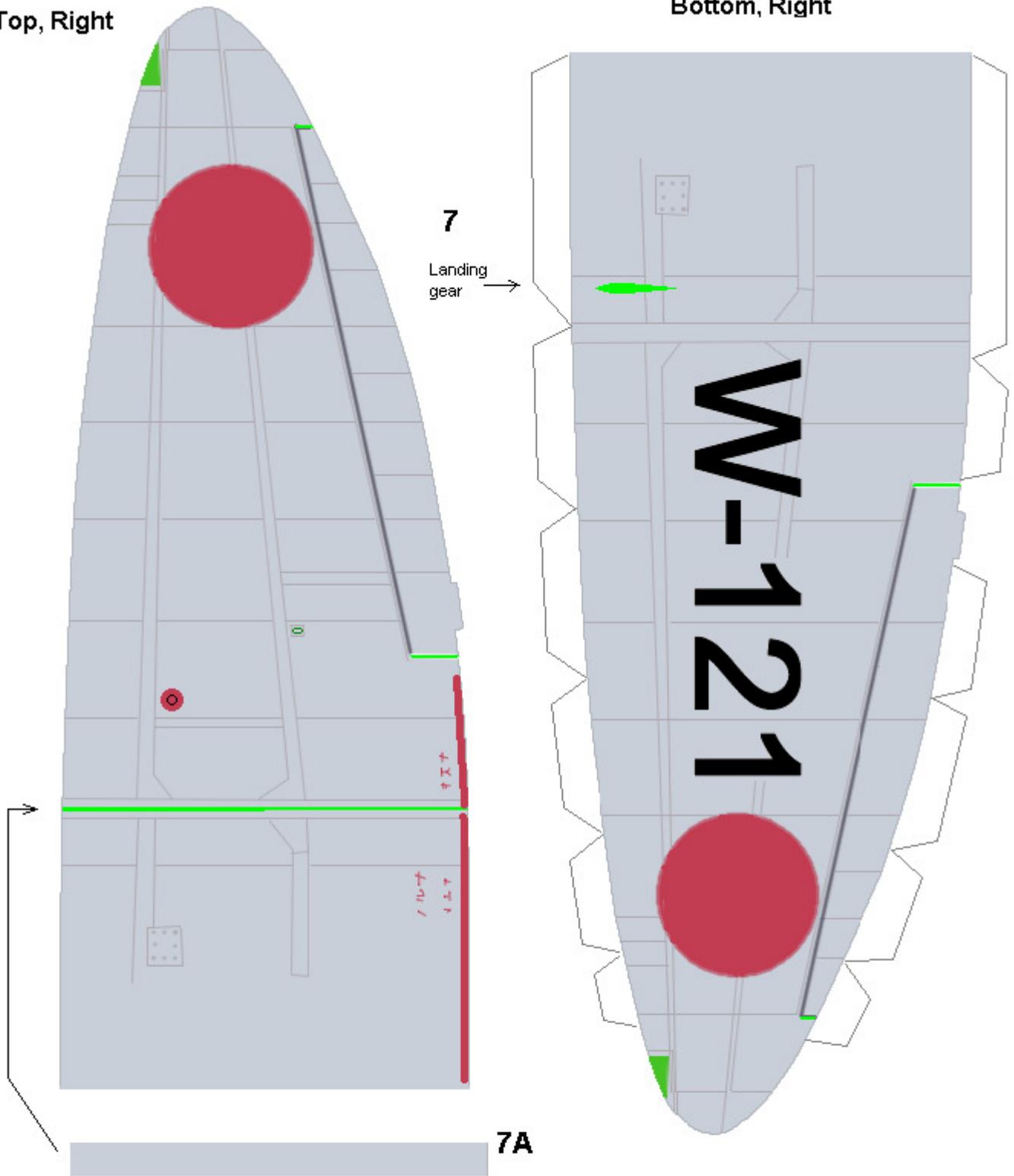
Glue to X



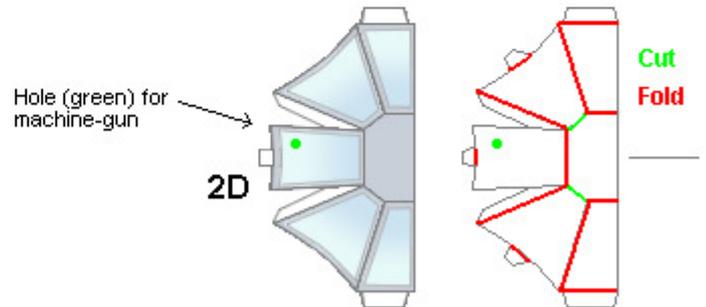
**Wing Frame 8**  
Make 4x thick

Top, Right

Bottom, Right



7A



Top, Left

Bottom, Left

9A

9

Landing gear →



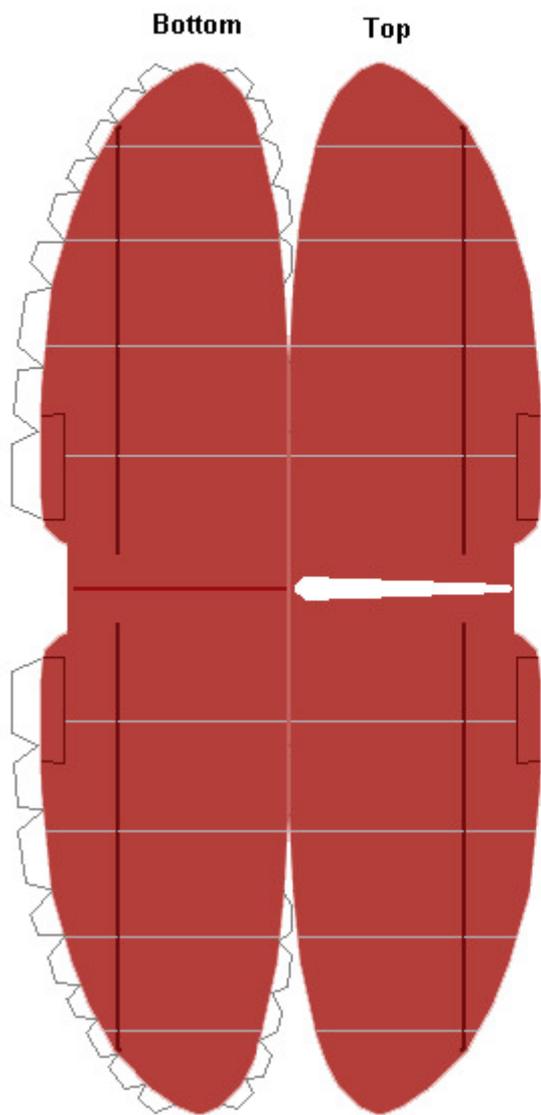
**Rear Wheel** 16

Cut out, fold up small red tabs, glue 2 parts together, glue on rear of fuselage.

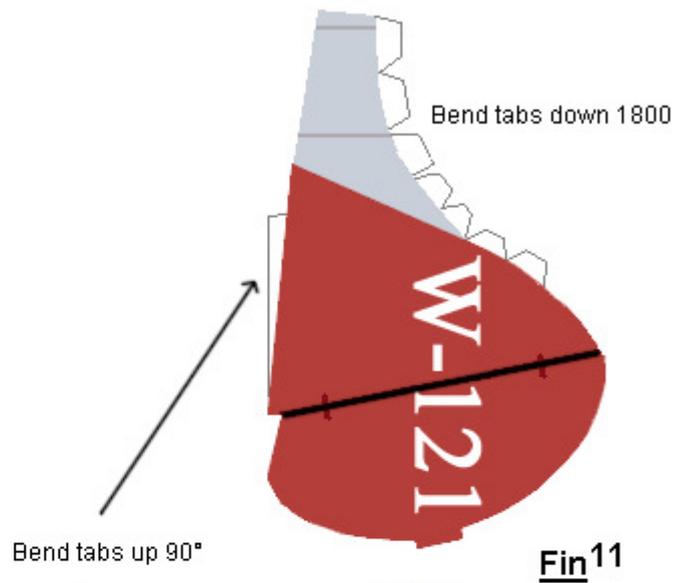
**Sheet 4**

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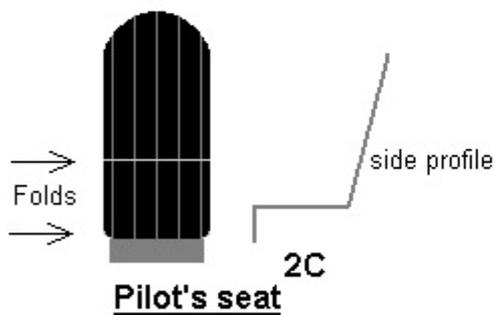
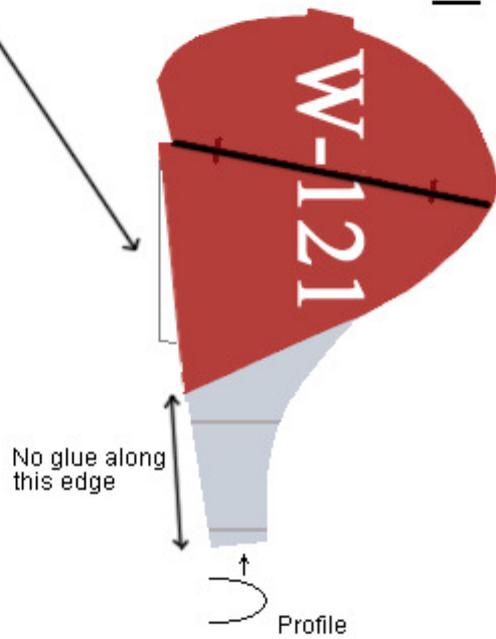
© Bob Schedler 2008



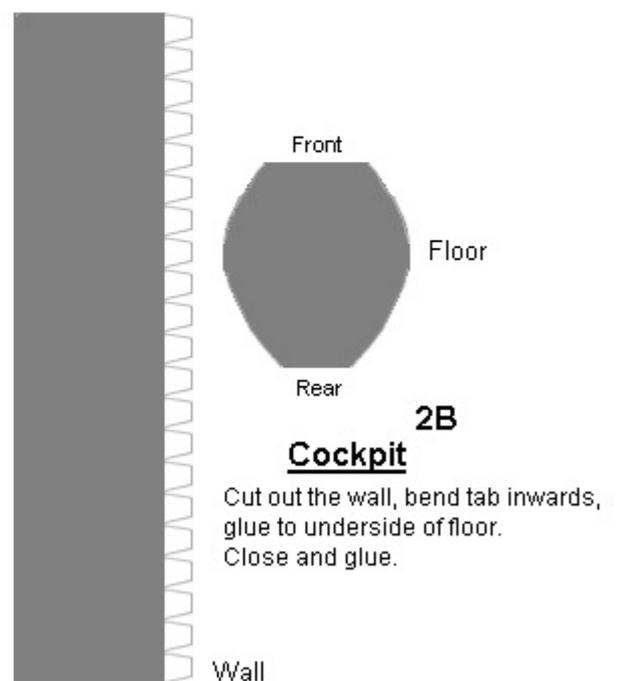
**Tailplane 10**



**Fin 11**



**Pilot's seat**



**Cockpit**

12

BOTTOM

TOP

Trailing Edge

Leading Edge

Trailing Edge

Slits for bomb support

1B



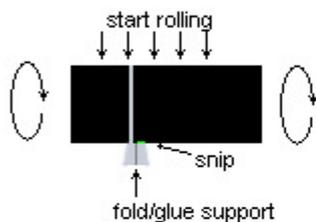
**Arrester Hook**<sup>17</sup>

... with 2 spares



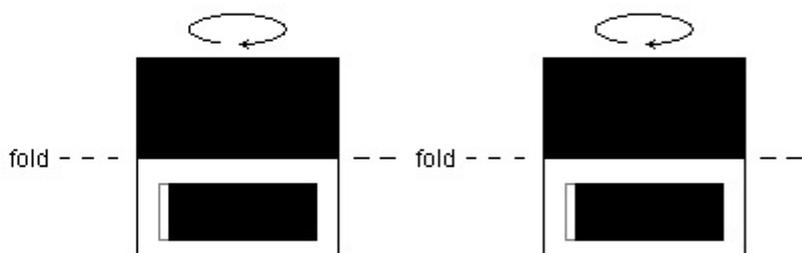
**Aerial Cover**<sup>18</sup>

Roll around a toothpick



**Machine-gun**<sup>20</sup>

Roll/glue on pin, extract pin.  
Fit/glue on support.



**Exhausts**<sup>2E</sup>

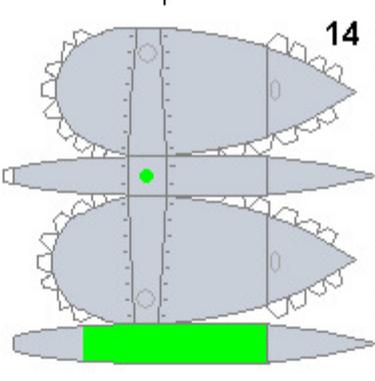
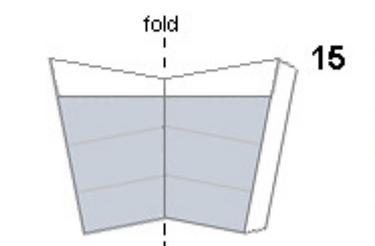
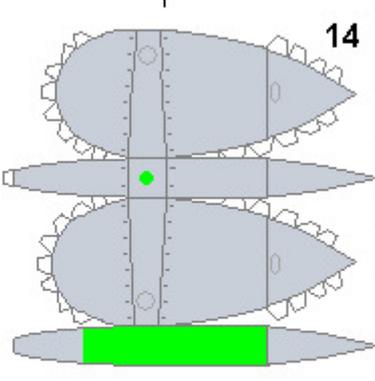
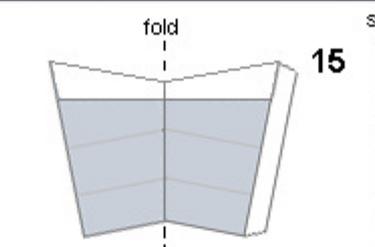
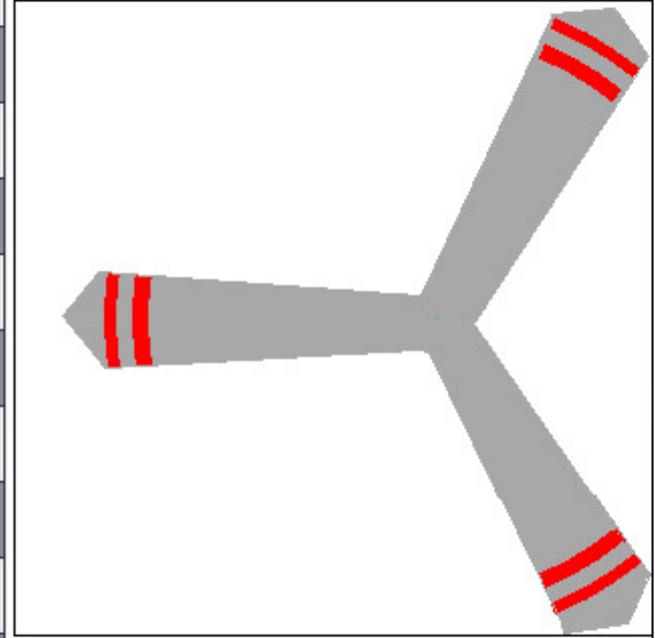
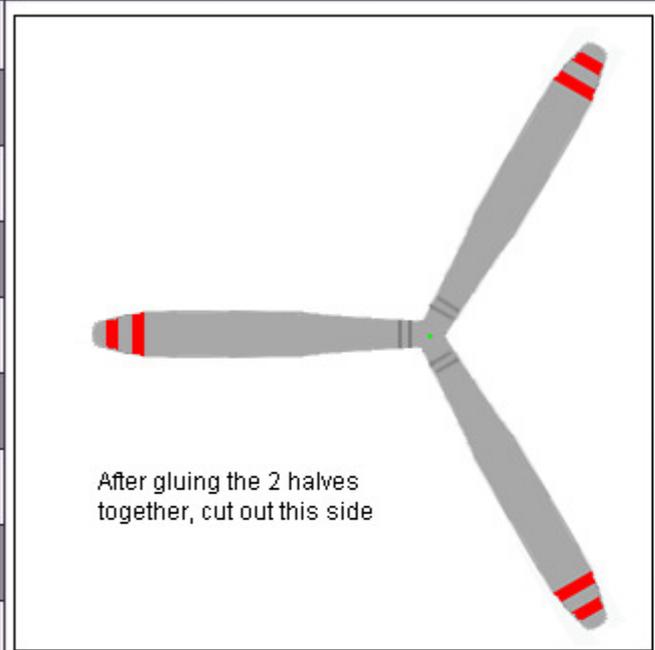
Cut out, fold, glue, roll, glue tab.  
Press to slightly oval shape.

**Print this Sheet on paper!**

**Sheet 6**

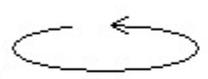
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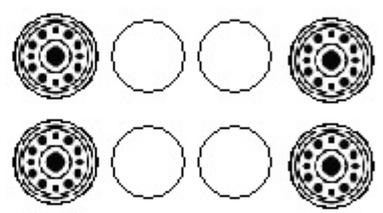
**Propeller**

Fold, glue, cut out, pierce centre.



**Prop Nose Cone**

Roll & glue, starting with wider end



**Wheel Hub Caps 13A**

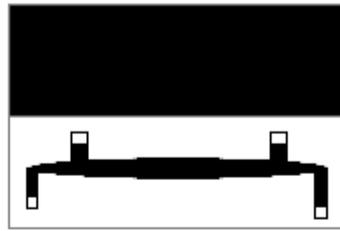
**Wheels (2) 13**

Glue strips 1-4 together.

**Sheet 7**

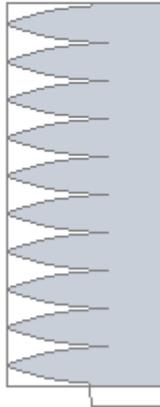
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Cut out, fold, glue,  
cut out.

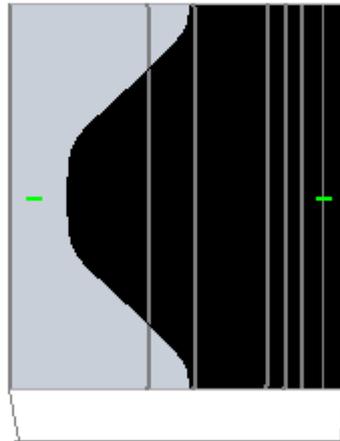


Support

FRONT



Cut out, round, glue  
tab, cut the the white  
spaces between the gores



Cut out, round, close/glue  
tube. glue on end tabs.

Bomb 21

REAR



Cut out, round,  
glue tab, cut out  
the gores.