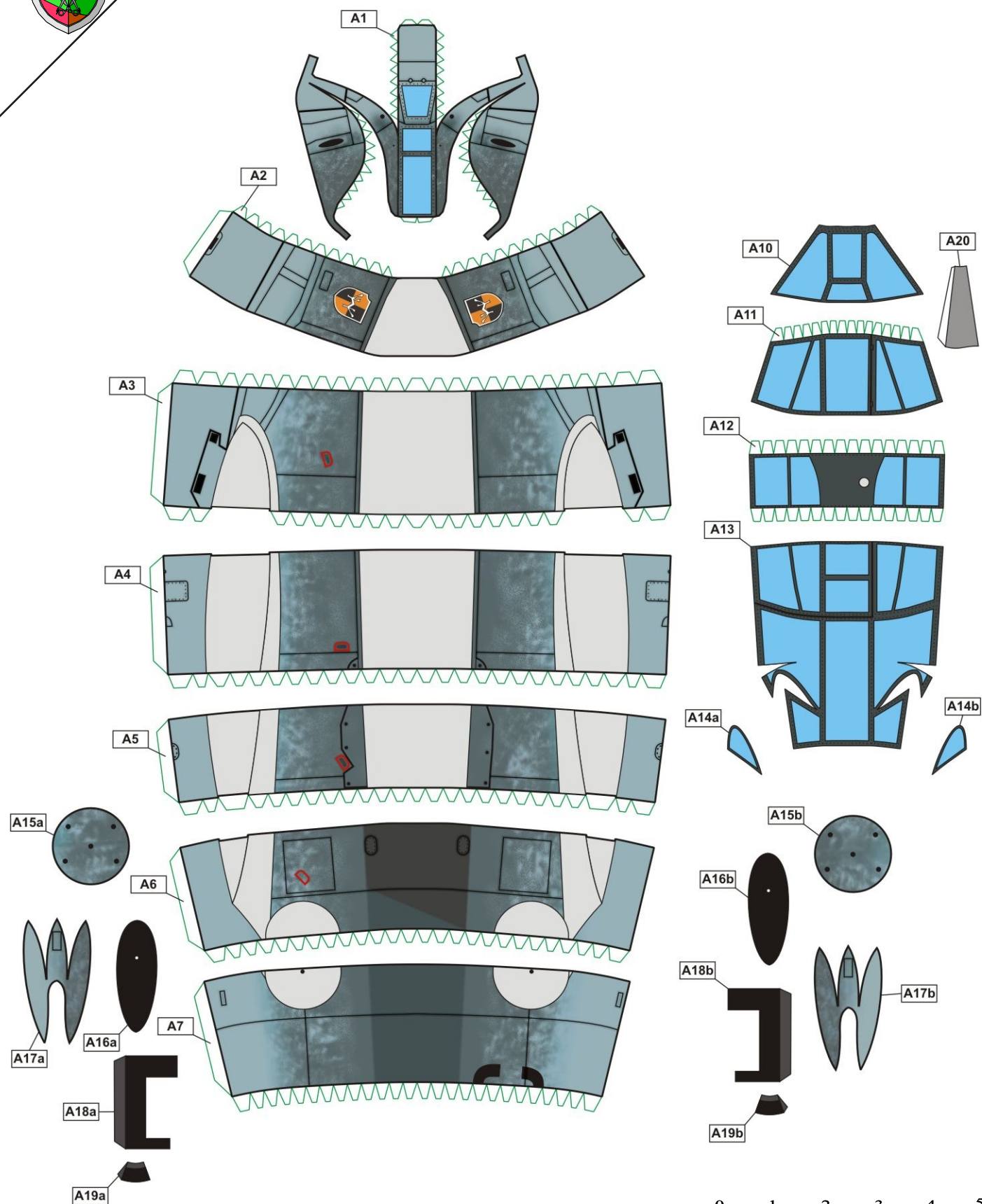
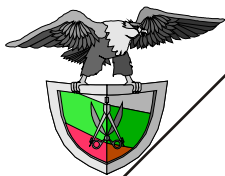
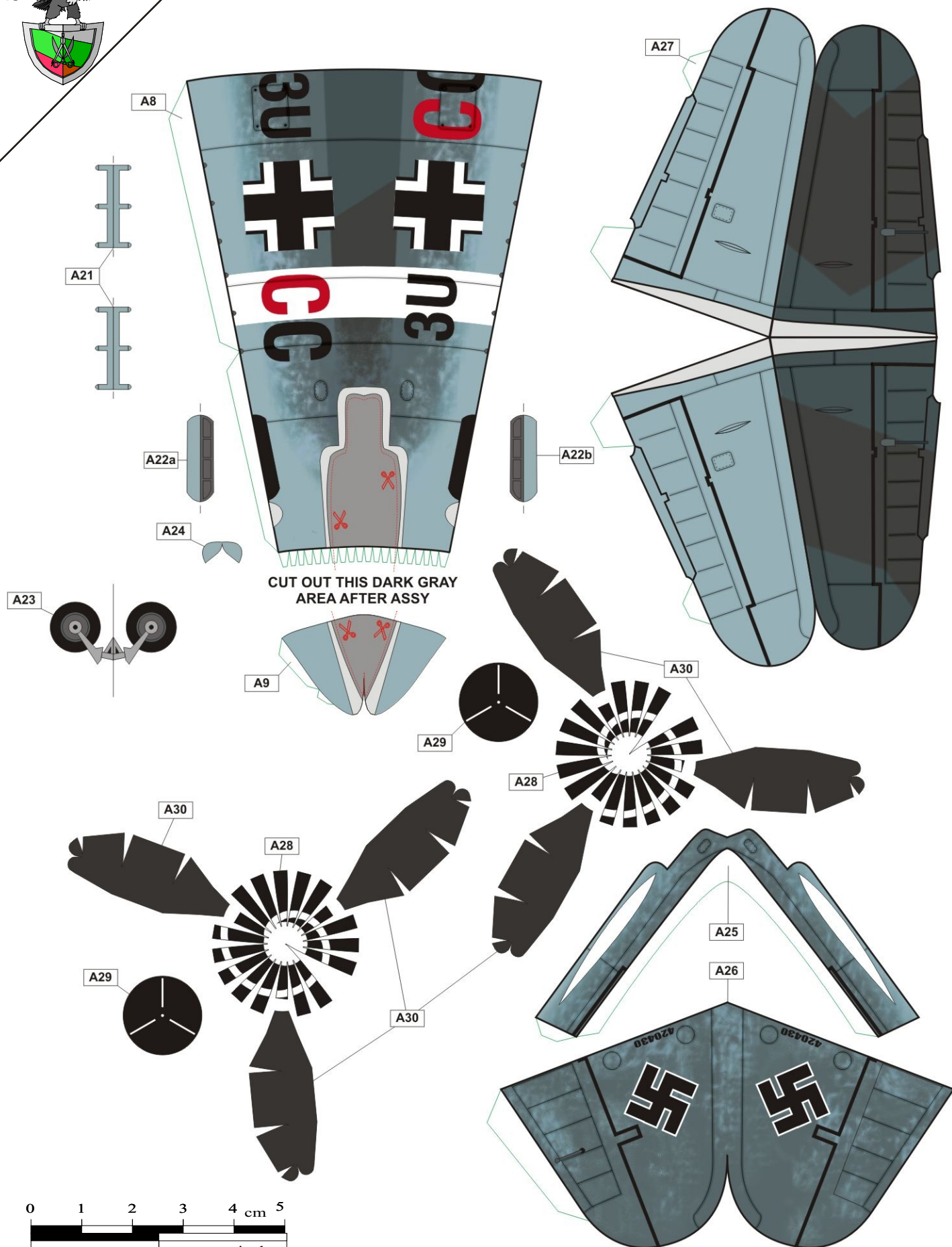
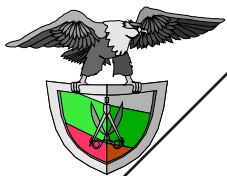
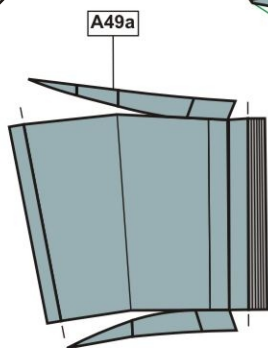
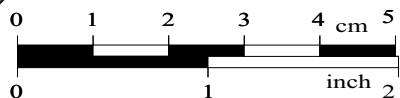
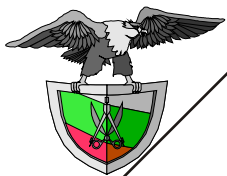
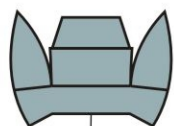








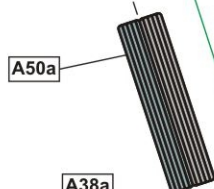
A47a



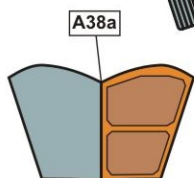
A44a



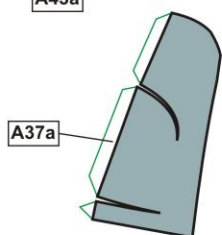
A43a



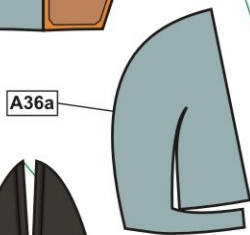
A50a



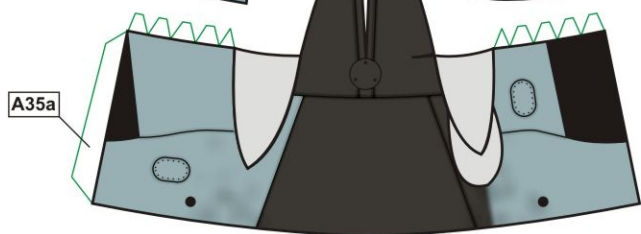
A38a



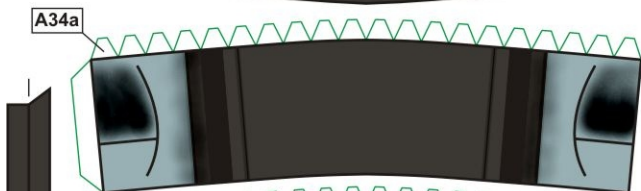
A37a



A36a



A35a



A34a



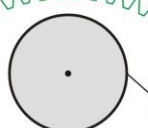
A40a



A33a



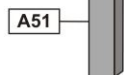
A32a



A31a



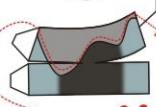
A40a



A51



A41a

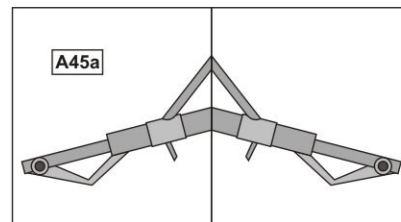


A42a



A39a

AFTER ASSY



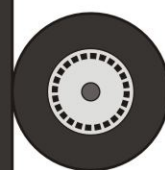
A45a



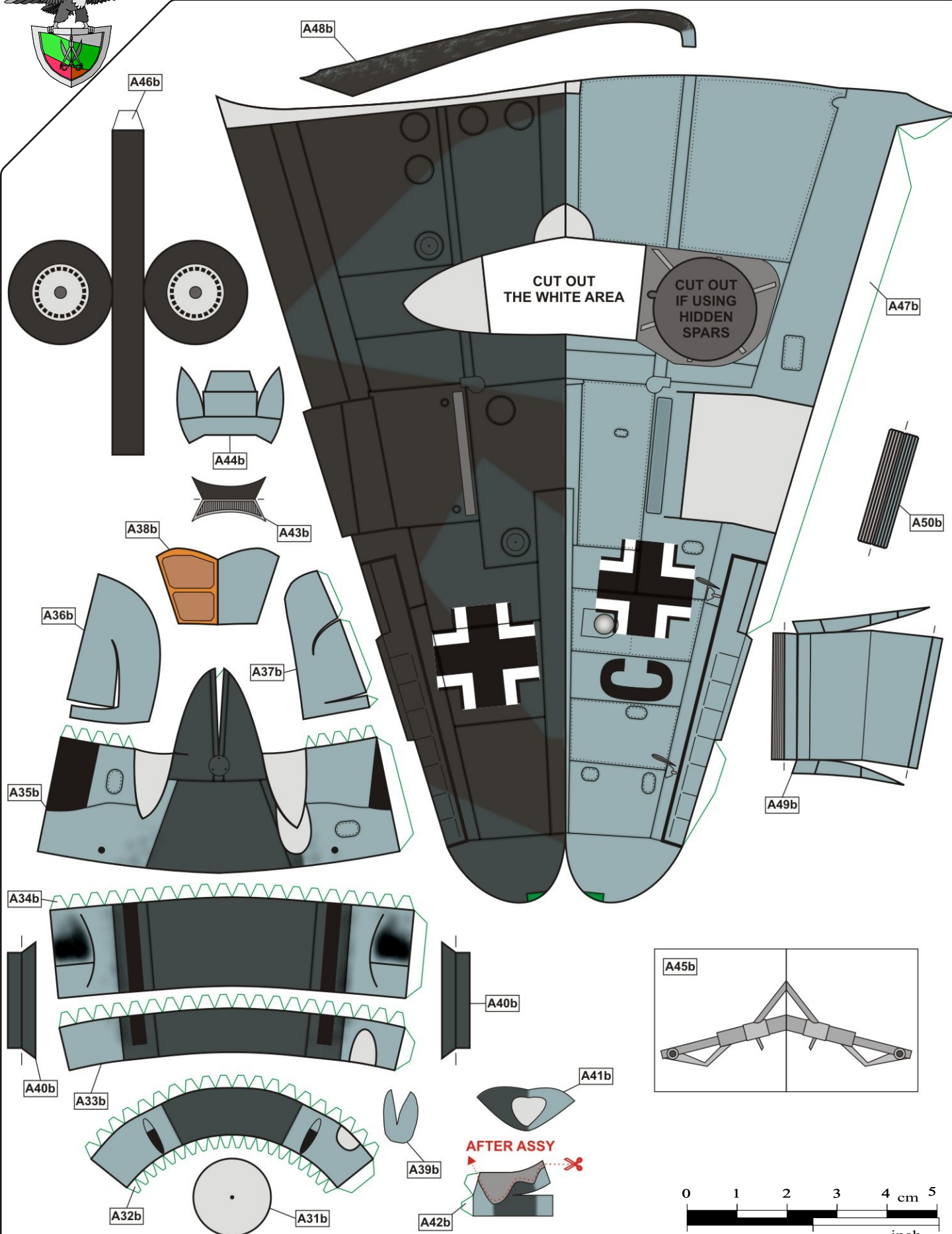
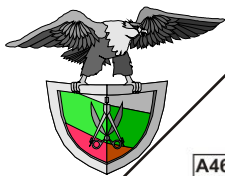
A46a

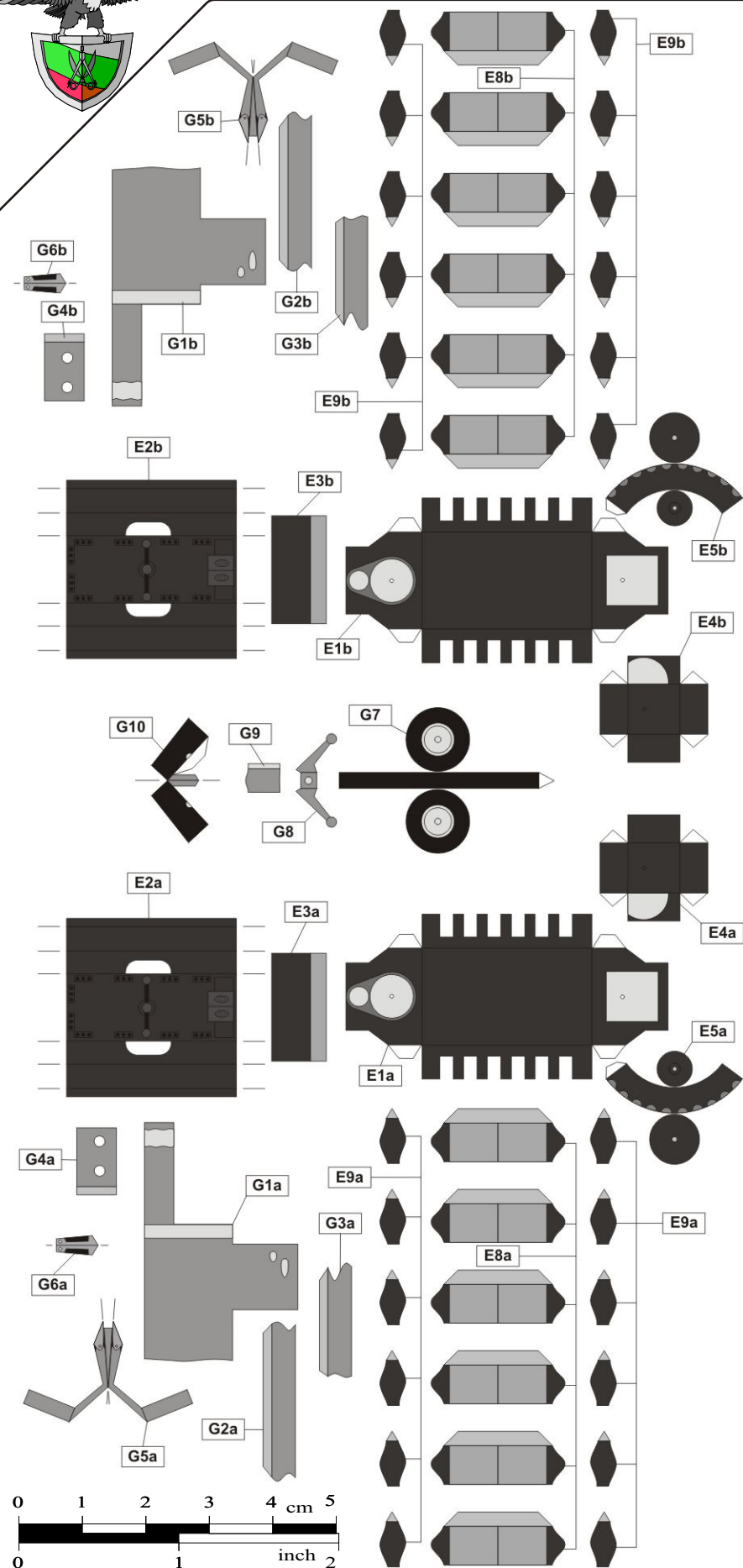
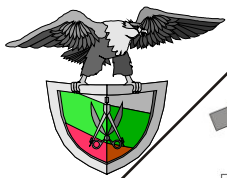


A47a

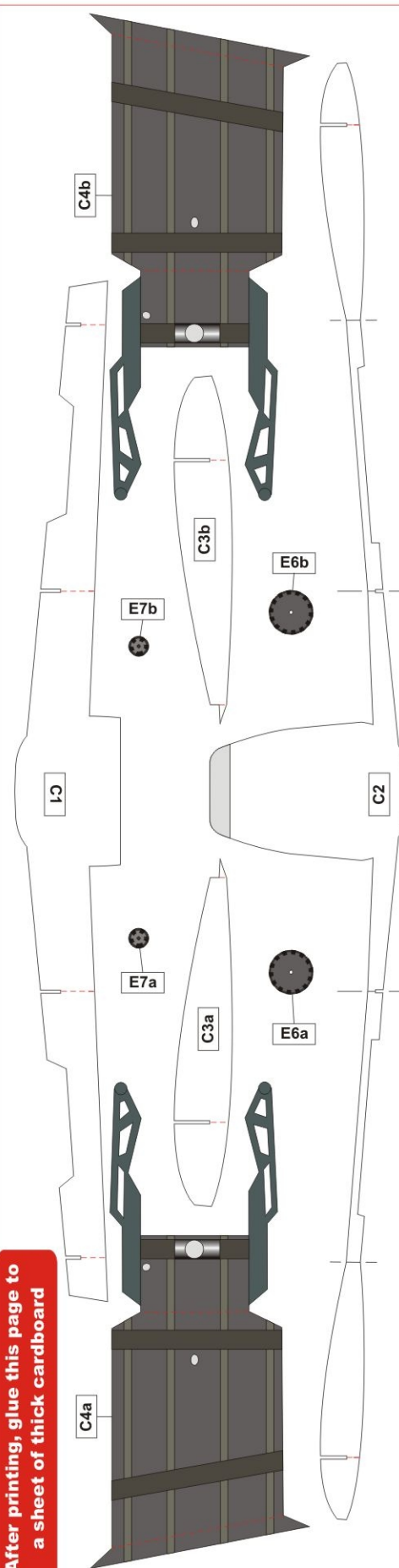


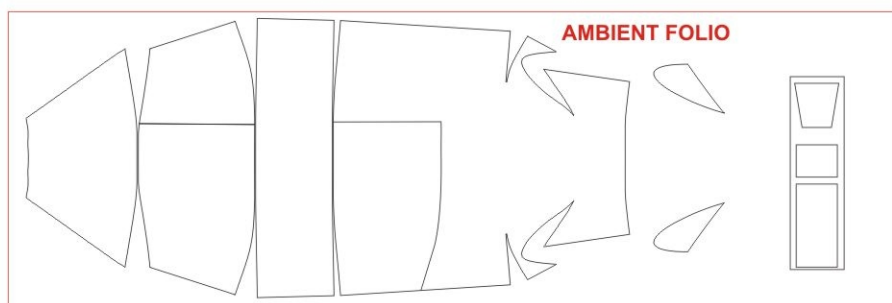
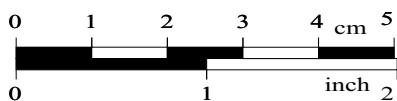
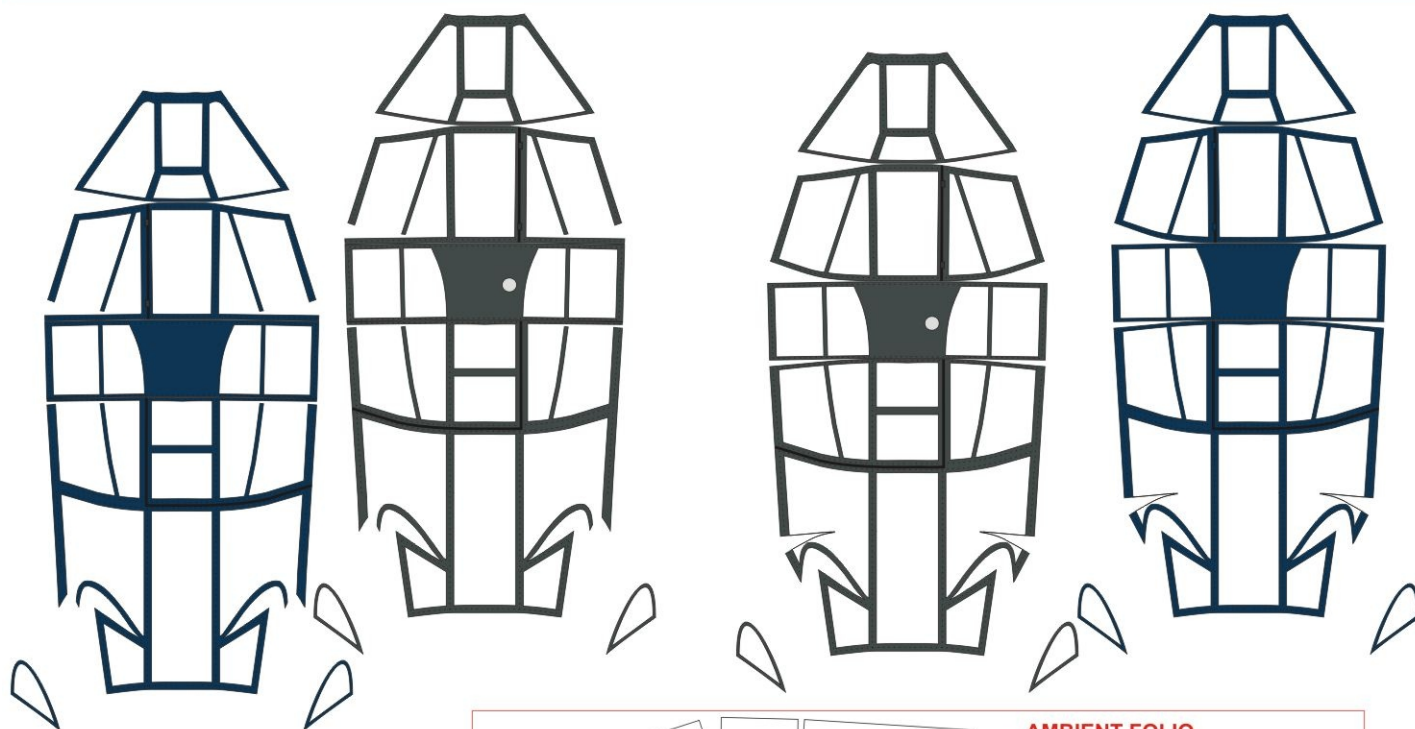
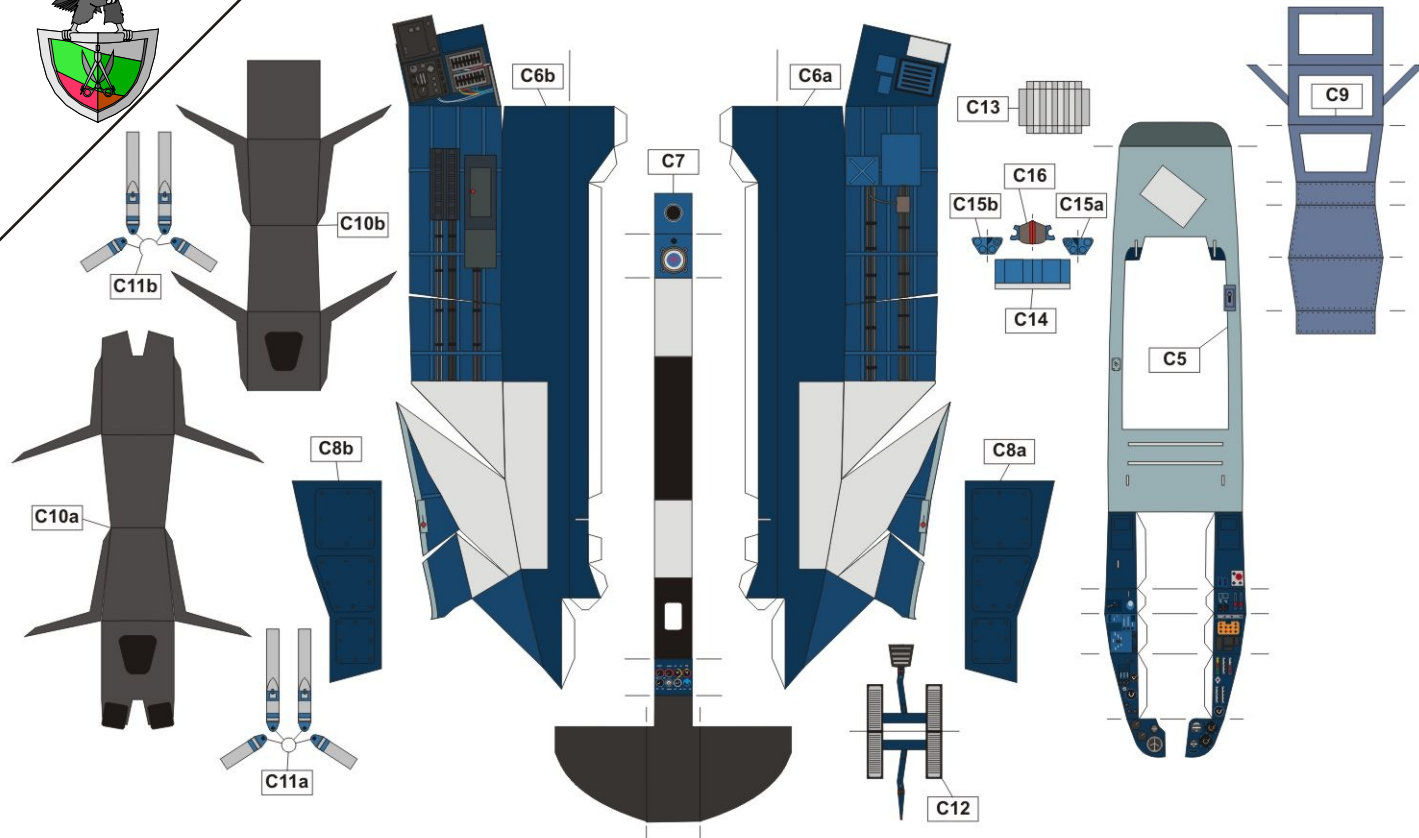
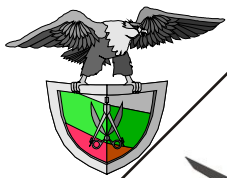
A48a

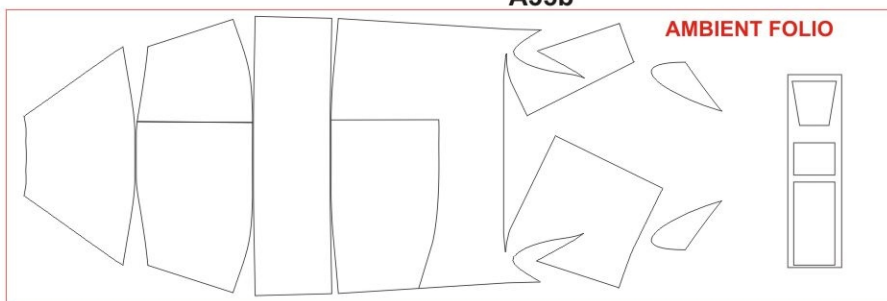
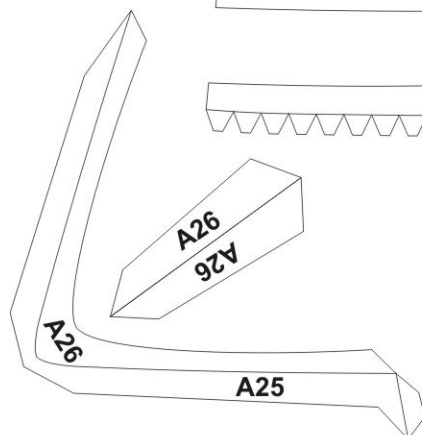
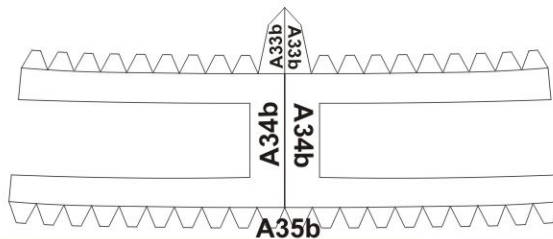
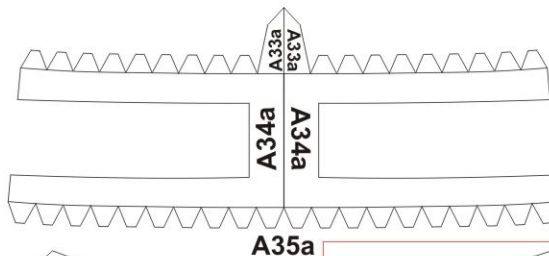
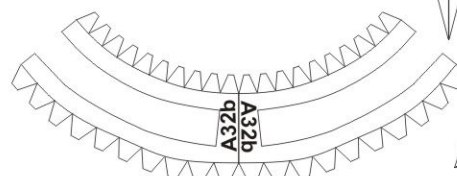
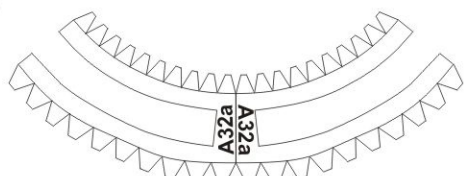
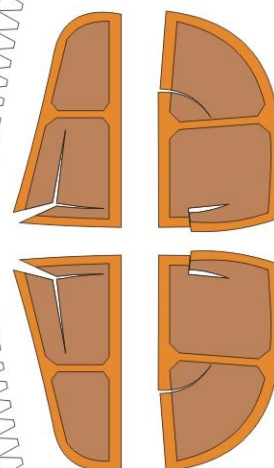
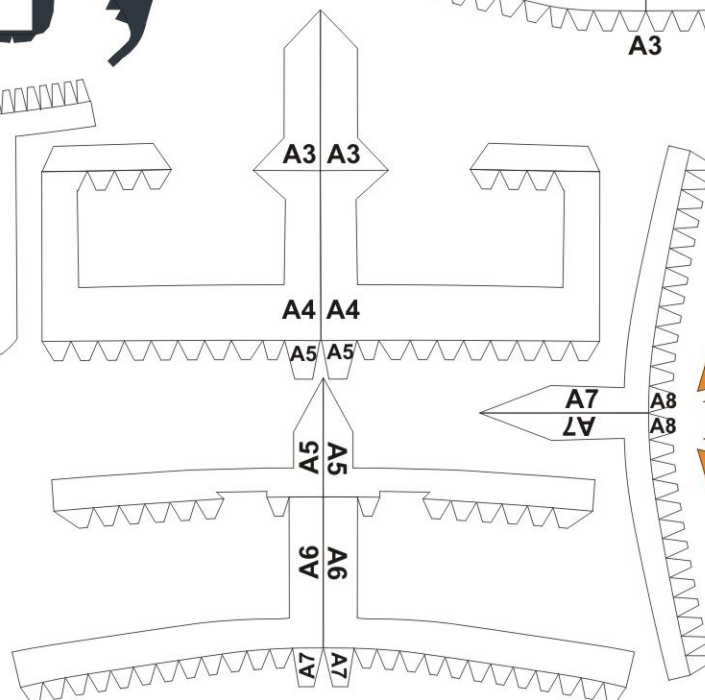
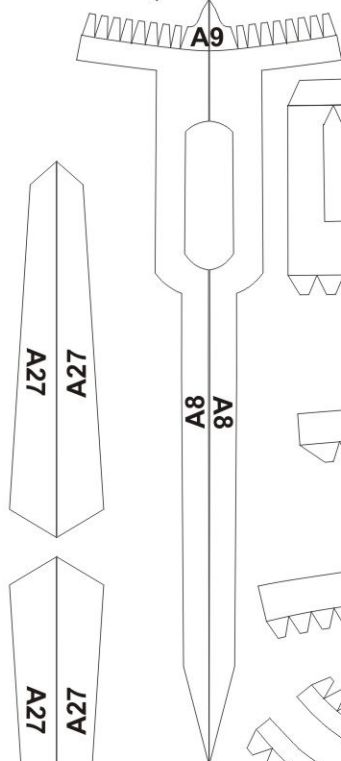
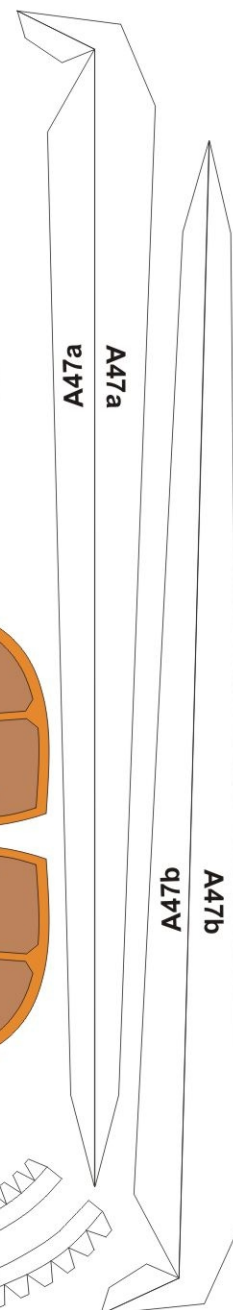
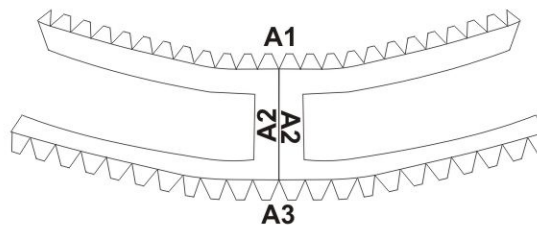
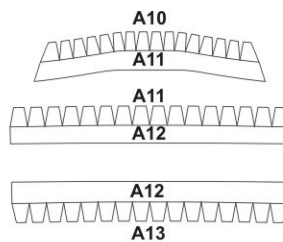
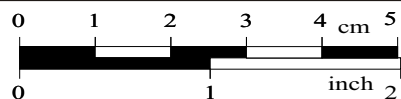
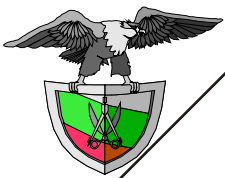




After printing, glue this page to  
a sheet of thick cardboard



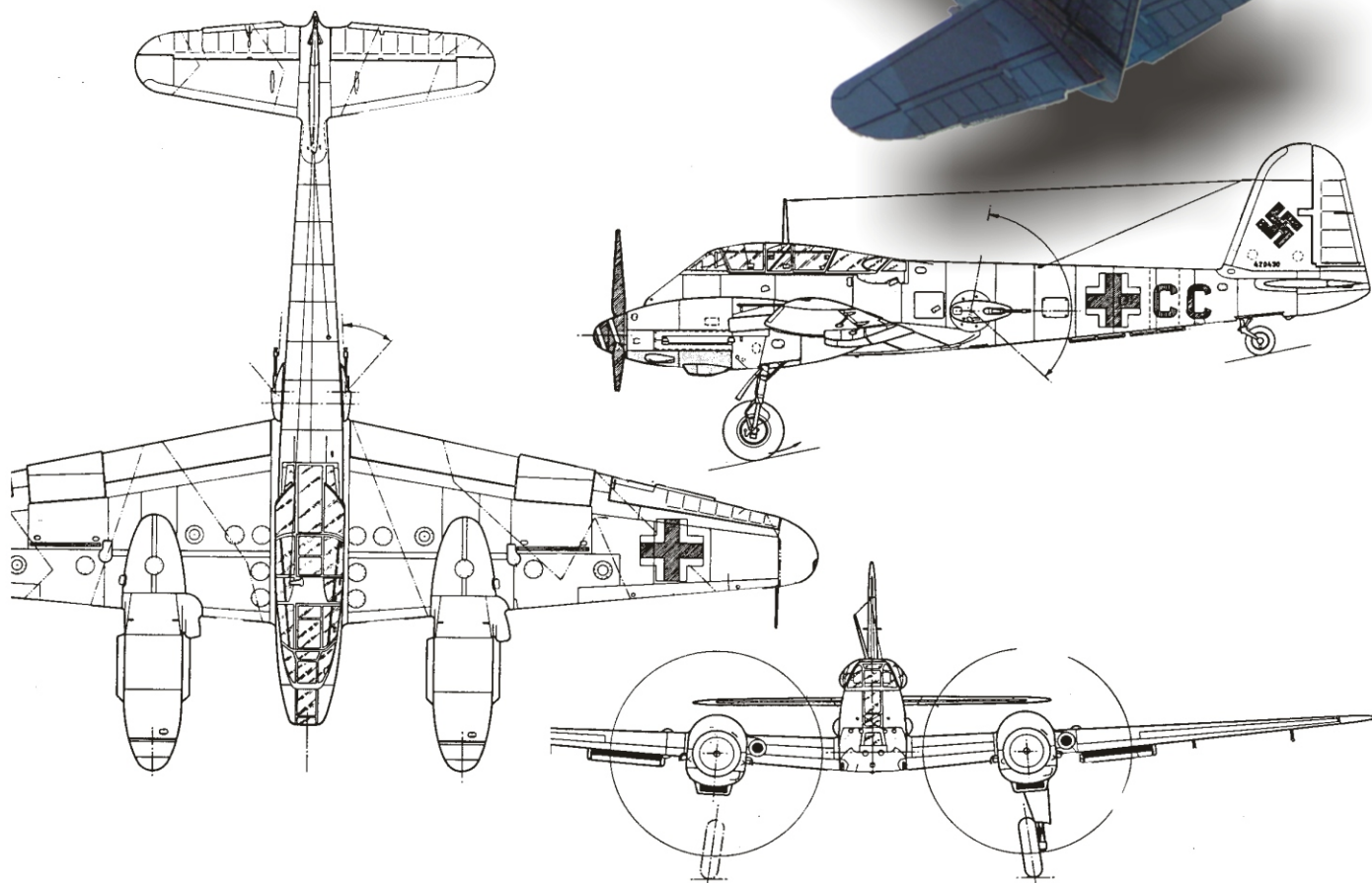




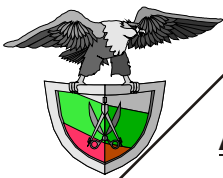
AMBIENT FOLIO



# ME-410A-1 (Hornisse)

**SCALE 1:48****Card model**

|               |                                                                                                   |
|---------------|---------------------------------------------------------------------------------------------------|
| Wingspan      | 16.35 meters                                                                                      |
| Length        | 12.48 meters                                                                                      |
| Height        | 4.28 meters                                                                                       |
| Wing surface  | 36.20 sq m.                                                                                       |
| Empty weight  | 7 518 kg                                                                                          |
| Engine        | 2 x Daimler-Benz DB 603A-1                                                                        |
| Power (total) | 3 500 HP                                                                                          |
| Maximum speed | 625 kph                                                                                           |
| Maximum range | 1 690 km                                                                                          |
| Armament      | 4 20 mm MG 151/20 guns; 2 MG 131 machine guns<br>2 MG 17 machine guns; 2 500 kg (1102-lbs) bombs. |

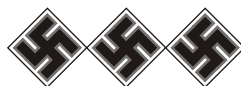


## **A little history:**

The Messerschmitt Me410 Hornisse (Hornet) was based on the design of the previous Me210 twin-engined fighter. The first production version of the Hornisse was the Me410A-1 light bomber. This was followed by a several variants and sub-variants for the Zerstorer, bomber destroyer, and photographic reconnaissance roles.

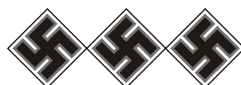
Me410 had wing slats and a lenghtened fuselage. Two 1750 hp Daimler Benz 603A engines replaced the 1350 hp DB 601F powerplants found in Me210. These powerful engines required redesigned nacelles which were longer than those on the Me210. Both Me210 and 410 carried a crew of two who were seated in tandem behind a single framed canopy.

Six Me210s were modified to Me410 standards, and these were joined in flight testing by the first true Me410V-1 prototype in late 1942. During 1943 291 Me410s were built, ant these were followed by another 722 in 1944. The Fanau Flugeugbau in Hungary also built 34 Me410s in 1943 and 74 in 1944 before the plant was destroyed by allied bombing attacks.



## **Overview of the model:**

The present model can be built in several levels of difficulty. The beginners should choose the easy level, without hidden constructions. For the more advanced modelers I have given the opportunity to build the interior of the cockpit, engines and detailed gears. To model the interior, you need to build a hidden construction, which is easy to make. You can build the model with or without hidden tabs.



## **Instructions on printing and assembling the model**

The elements of the plane cover seven pages. Depending of the level of diifficulty you must print all pages or just a part of them. The elements are positioned in the following manner:

Pages 1,2,3 and 4: main elements; these pages must all be printed out.

Page 5: Here are the elements needed for modeling the engine, hidden construction and the detailed gears.

Page 6: Here are the elements needed to model the interior of the cockpit, as well as several versions of the canopy ( which have no lds).

Page 7: Additional tabs

Print the necessary files on thin cardboard, Letter format. On page 5 you'll find an area with red borders, cut it and glue it on a thick cardboard (0.02" thick for example).

Then you can cut out the elements from this area.

Each element has an identifier, which is a combination of a capital letter and a number, which may be followed by a small letter. The capital letters designate the group of the element and the number and the small letter the ID of the element in the group. The groups are as follows:

- A main elements, needed for all the difficulty levels
- C elements for the hidden construction and the interior of the cockpit
- E elements for the engine
- G elements for the detailed gears

The additional tabs have no identifiers, but you'll find on them the IDs of the elements they are used to assemble. On the first four pages the tabs have either black or green borders. The black border means that this tab is in use, whether you use the additional tabs or not. The green border means that the tab is used only if you do not use additional tabs. If you use them, cut out the green-bordered tabs. At the end you'll find a table with the IDs, locations and the quantity of the elements.

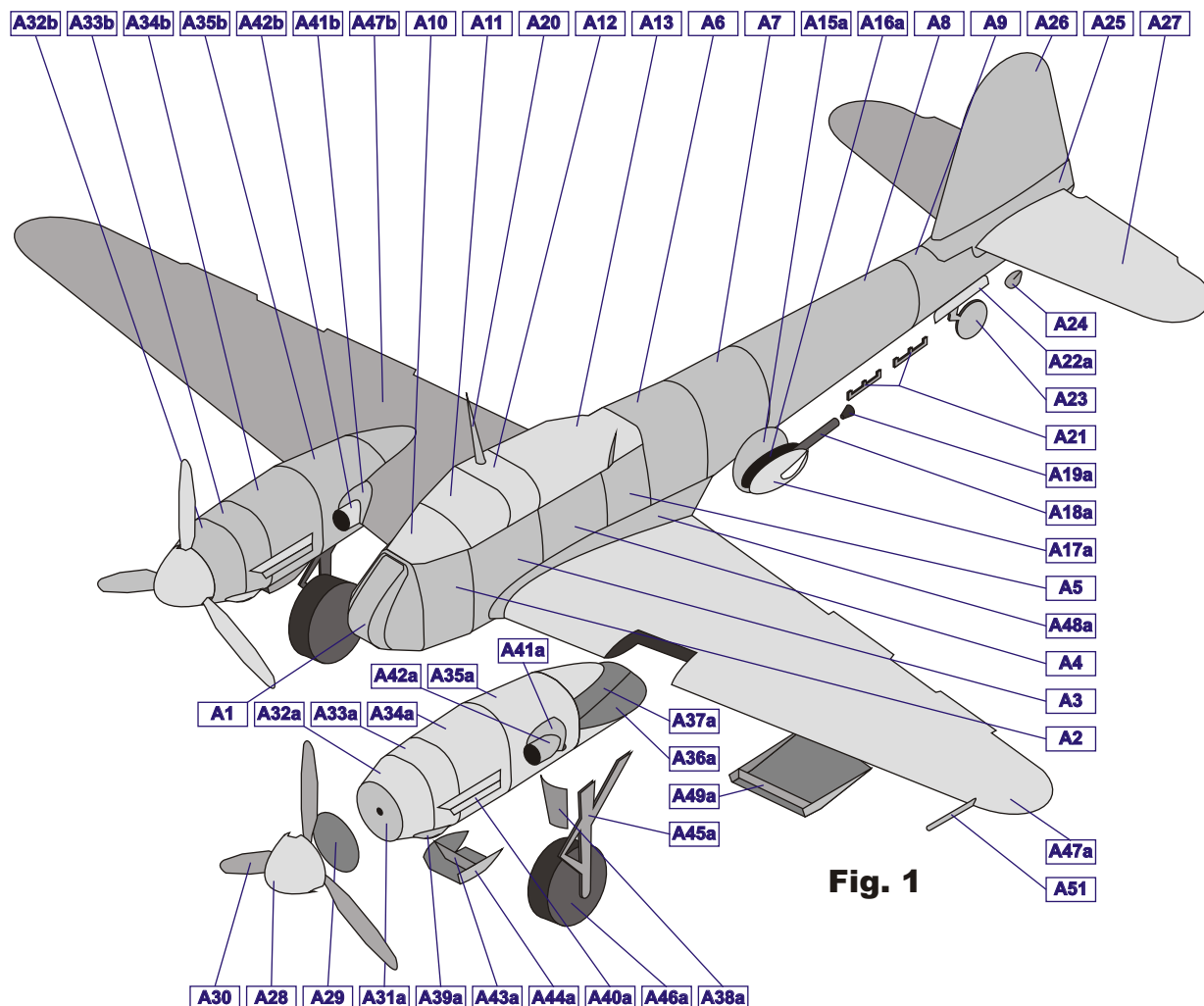


**Fig. 1**

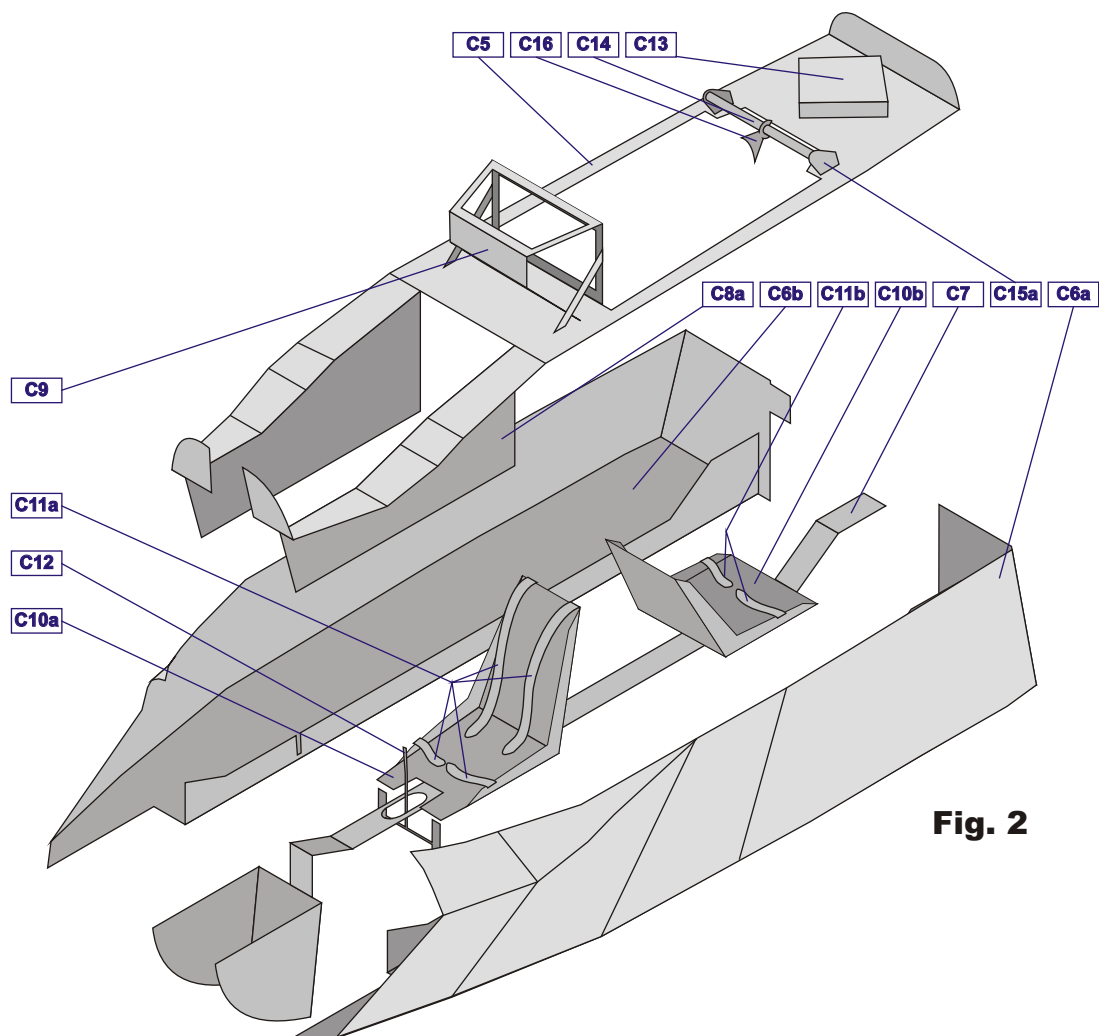
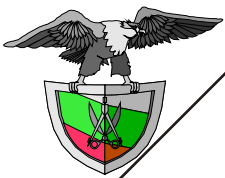


**Fig. 2**

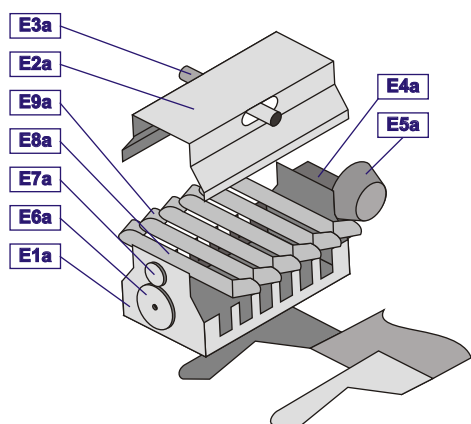
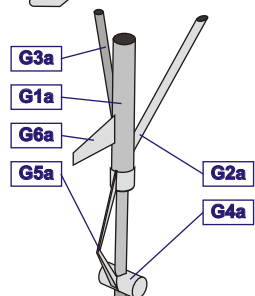


**Fig. 3**



Mount the tail gear on the fuselage  
before mounting the vertical stabilizer.

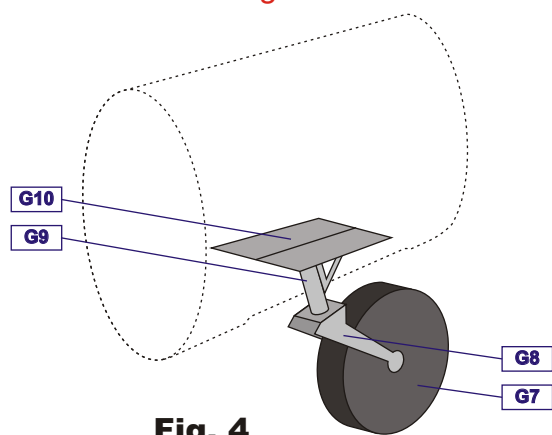


**Fig. 4**

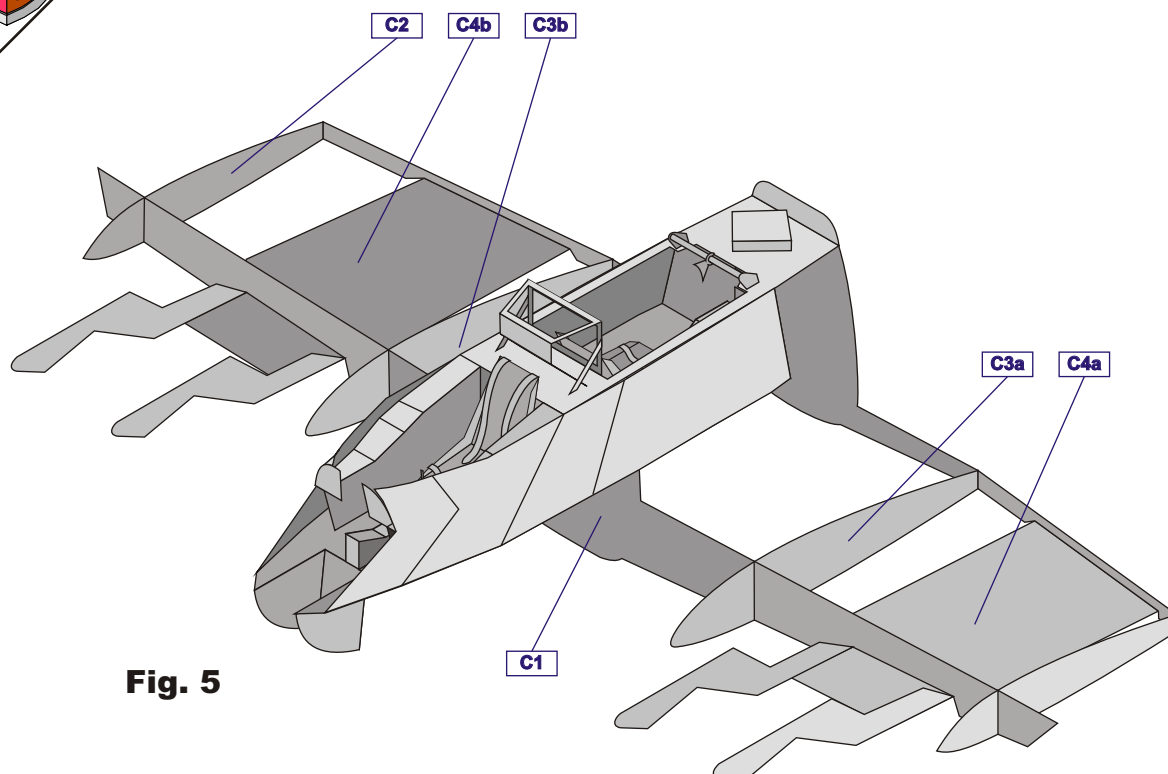
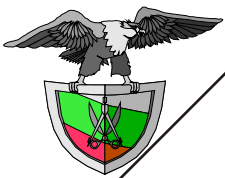


**Fig. 5**

Fig.1 Shows the elements and the assembly of the EASY version of the model.

The following schemes show the assembly of the ADVANCED version.

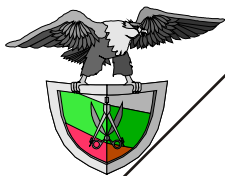
Fig.2 Shows how to assemble the interior of the cockpit

Fig.3 Assembly of the engine and the main gears

Fig.4 How to assemble the gear at the tail

Fig.5 Assembly of the hidden construction





| Element ID | Location (Page#) | Quantity | Element ID | Location (Page#) | Quantity | Element ID | Location (Page#) | Quantity |
|------------|------------------|----------|------------|------------------|----------|------------|------------------|----------|
| A1         | 1                | 1        | A35a       | 3                | 1        | C9         | 6                | 1        |
| A2         | 1                | 1        | A35b       | 4                | 1        | C10a       | 6                | 1        |
| A3         | 1                | 1        | A36a       | 3                | 1        | C10b       | 6                | 1        |
| A4         | 1                | 1        | A36b       | 4                | 1        | C11a       | 6                | 1        |
| A5         | 1                | 1        | A37a       | 3                | 1        | C11b       | 6                | 1        |
| A6         | 1                | 1        | A37b       | 4                | 1        | C12        | 6                | 1        |
| A7         | 1                | 1        | A38a       | 3                | 1        | C13        | 6                | 1        |
| A8         | 2                | 1        | A38b       | 4                | 1        | C14        | 6                | 1        |
| A9         | 2                | 1        | A39a       | 3                | 1        | C15a       | 6                | 1        |
| A10        | 1                | 1        | A39b       | 4                | 1        | C15b       | 6                | 1        |
| A11        | 1                | 1        | A40a       | 3                | 2        | C16        | 6                | 1        |
| A12        | 1                | 1        | A40b       | 4                | 2        | E1a        | 5                | 1        |
| A13        | 1                | 1        | A41a       | 3                | 1        | E1b        | 5                | 1        |
| A14a       | 1                | 1        | A41b       | 4                | 1        | E2a        | 5                | 1        |
| A14b       | 1                | 1        | A42a       | 3                | 1        | E2b        | 5                | 1        |
| A15a       | 1                | 1        | A42b       | 4                | 1        | E3a        | 5                | 1        |
| A15b       | 1                | 1        | A43a       | 3                | 1        | E3b        | 5                | 1        |
| A16a       | 1                | 1        | A43b       | 4                | 1        | E4a        | 5                | 1        |
| A16b       | 1                | 1        | A44a       | 3                | 1        | E4b        | 5                | 1        |
| A17a       | 1                | 1        | A44b       | 4                | 1        | E5a        | 5                | 1        |
| A17b       | 1                | 1        | A45a       | 3                | 1        | E5b        | 5                | 1        |
| A18a       | 1                | 1        | A45b       | 4                | 1        | E6a        | 5                | 1        |
| A18b       | 1                | 1        | A46a       | 3                | 1        | E6b        | 5                | 1        |
| A19a       | 1                | 1        | A46b       | 4                | 1        | E7a        | 5                | 1        |
| A19b       | 1                | 1        | A47a       | 3                | 1        | E7b        | 5                | 1        |
| A20        | 1                | 1        | A47b       | 4                | 1        | E8a        | 5                | 6        |
| A21        | 2                | 2        | A48a       | 3                | 1        | E8b        | 5                | 6        |
| A22a       | 2                | 1        | A48b       | 4                | 1        | E9a        | 5                | 12       |
| A22b       | 2                | 1        | A49a       | 3                | 1        | E9b        | 5                | 12       |
| A23        | 2                | 1        | A49b       | 4                | 1        | G1a        | 5                | 1        |
| A24        | 2                | 1        | A50a       | 3                | 1        | G1b        | 5                | 1        |
| A25        | 2                | 1        | A50b       | 4                | 1        | G2a        | 5                | 1        |
| A26        | 2                | 1        | A51        | 3                | 1        | G2b        | 5                | 1        |
| A27        | 2                | 1        | C1         | 5                | 1        | G3a        | 5                | 1        |
| A28        | 2                | 2        | C2         | 5                | 1        | G3b        | 5                | 1        |
| A29        | 2                | 2        | C3a        | 5                | 1        | G4a        | 5                | 1        |
| A30        | 2                | 6        | C3b        | 5                | 1        | G4b        | 5                | 1        |
| A31a       | 3                | 1        | C4a        | 5                | 1        | G5a        | 5                | 1        |
| A31b       | 4                | 1        | C4b        | 5                | 1        | G5b        | 5                | 1        |
| A32a       | 3                | 1        | C5         | 6                | 1        | G6a        | 5                | 1        |
| A32b       | 4                | 1        | C6a        | 6                | 1        | G6b        | 5                | 1        |
| A33a       | 3                | 1        | C6b        | 6                | 1        | G7         | 5                | 1        |
| A33b       | 4                | 1        | C7         | 6                | 1        | G8         | 5                | 1        |
| A34a       | 3                | 1        | C8a        | 6                | 1        | G9         | 5                | 1        |
| A34b       | 4                | 1        | C8b        | 6                | 1        | G10        | 5                | 1        |

***Have fun with this model!!!***

