

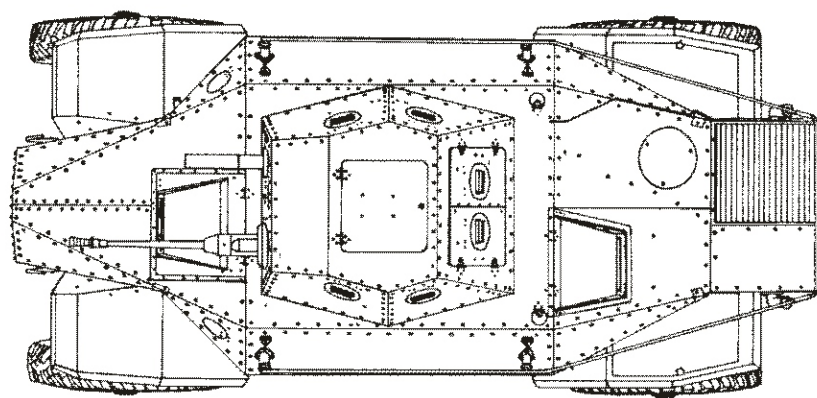
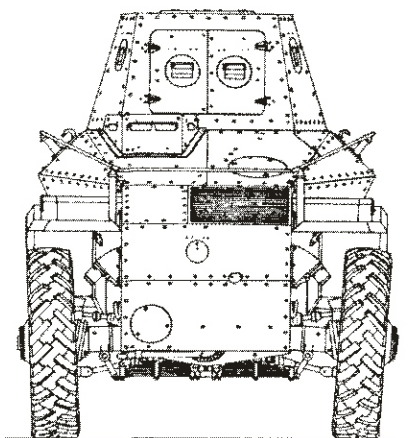
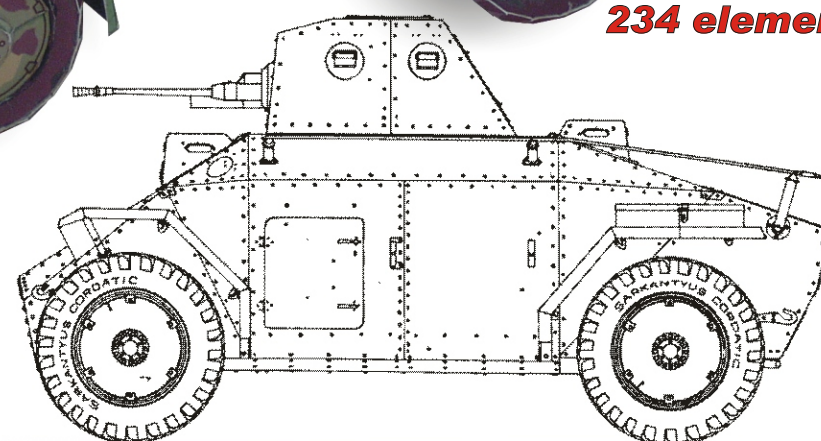
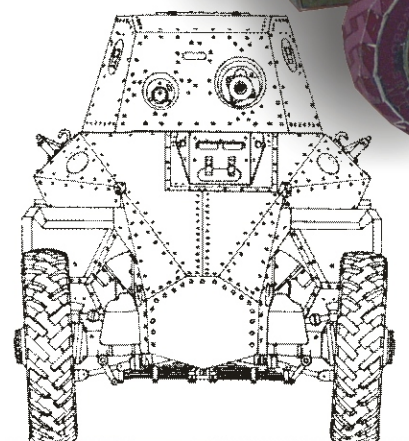


ARMoured CAR 39 M "Csaba"

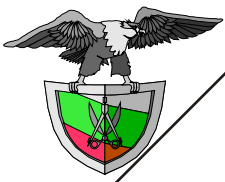
Card model



SCALE 1:24
234 elements



Weight	5,95 t
Power of engine	90 HP
Speed	65 km/h
Height	2.33m
Width	2.10m
Length	4.52m
Armour plates	9mm, 13mm
Gun	20mm heavy gun + 1x8mm machine gun
Range	150-200 km



Short historical information:

The 39M Csaba scout car was used by the Hungarian Royal Army from 1939 to 1945. The vehicle was built in the Weiss Manfred Factory at Csepel in Budapest, Hungary. It was based of the experience gained using the AC2 (Armoured Car) and guidance of the Hungarian Institute of Military Technology. The car was made of 9mm and 13mm armour plates with rivets. The Csaba, named after the son of Atilla the Hun was equipped with a 20mm heavy gun and 8mm machine gun. The crew consisted of three men. Similar to other armoured cars of the period, it had two driving positions, one at the front, and another at the rear. For a power plant, a Ford motor built in Koln, Germany was selected. The Csaba's body design was more modern and successful than its British counterparts'.

In 1939, after the successful tests, the vehicle was supplied to the Hungarian Royal Army under the name 39M Csaba armoured scout car. Meanwhile, 61 of them were ordered for reconnaissance units. In 1940, another 40 cars were ordered. Twenty of them were straight armoured cars for combat and 12 served as command cars with radio equipment installed. The production of the next series was delayed until 1944 because of the greater importance of the Hungarian tank program. No records show that any more were ever produced.



Printing instructions:

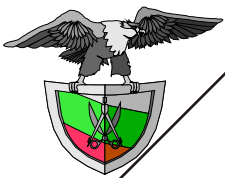
For printing the elements, you'll need AcrobatReader. Then, according to the information in table T-1, print the pages on the appropriate type of paper, using a colour printer

Table: T-1

FileName	Page	Number of Copies	Notes
Page_1_2.pdf	Page 1, Pgae 2	2	Have to be printed on appropriate card stock. I have used 130 g IncJet Paper
Page_3.pdf	Page 3	1	
Page_4.pdf	Page 4	1	
Page_5.pdf	Page 5	1	
Page_6.pdf	Page 6	1	
Page_7.pdf	Page 7	1	After printing, glue this page to a sheet of thick cardboard (for example 0.5mm (0.02) thick)
Page_8.pdf	Page 8	1	Print this page on copy paper

The file's resolution is 200dpi, print on Letter format sheets (11x8.5")



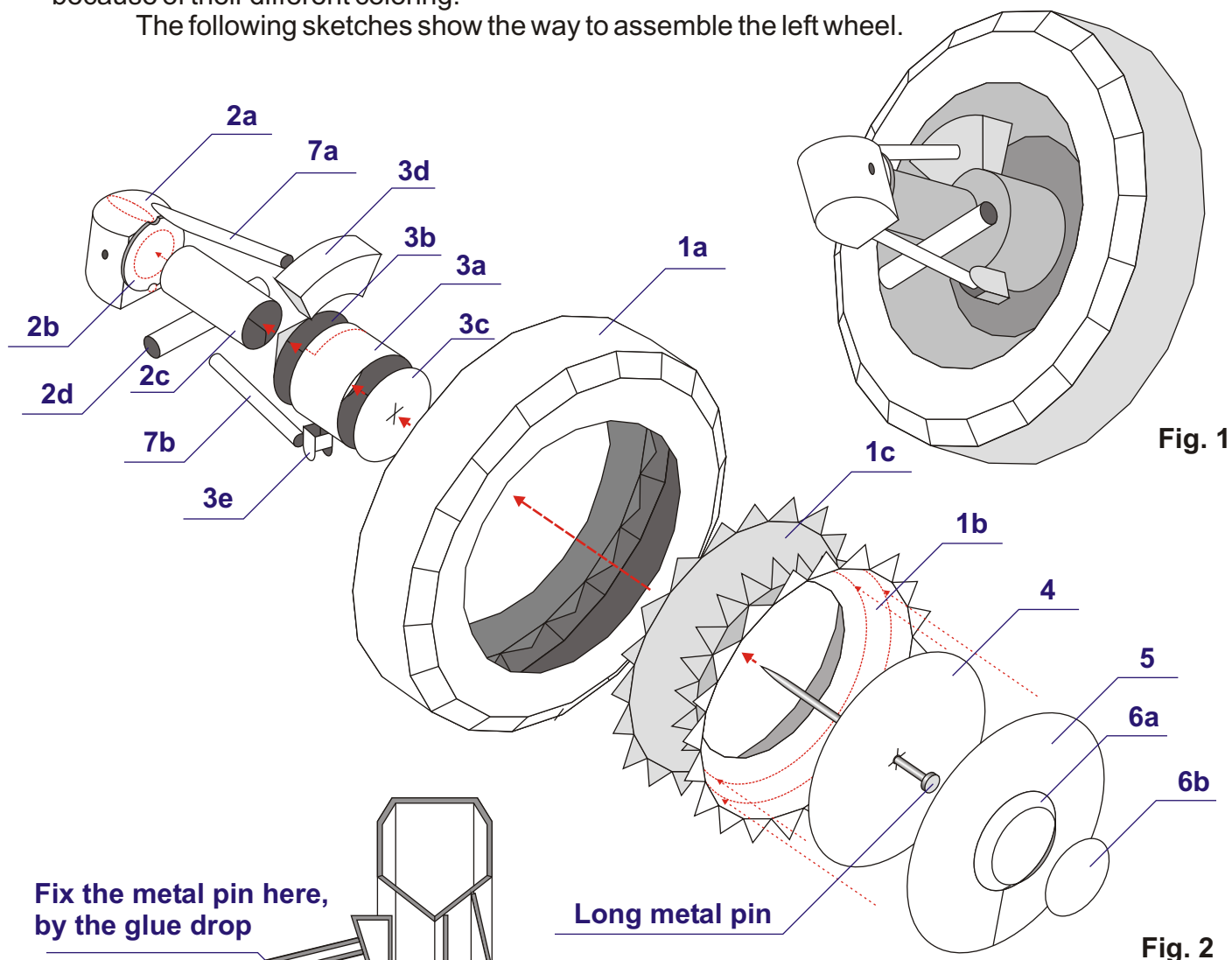


Assembly instructions:

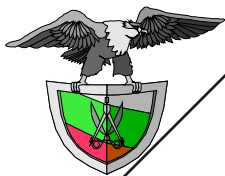
The hardest and the most time-consuming part in the assembly is the building of the wheels and the chassis.

The forward and the rear bridges are identical. The elements for the one of them are in file **Page_1_2.pdf**, that's why you should print 2 copies of it. The exceptions are some elements , which are separated for printing on soft paper in **Page_8.pdf**, and elements with ID #5, separated because of their different coloring.

The following sketches show the way to assemble the left wheel.



Assemble the right wheel the same way. The elements of the right wheel and their respective elements of the left wheel are given in table T-2.



Assembling the tyres is little tricky. The instructions follow:

- Glue together elements 1b and 1c;
 - Partially assemble 1a, as shown on Fig.4., just to get it fixed in the right shape;
 - Assemble 1a, 1b and 1c;
 - Finish glueing the element 1a;
 - Glue 4 on the marked spot on 1b;
 - Assemble 3 (3a+3b+3c+3d+3e);
 - Assemble 2 (2a+2b+2c+2d), but first pierce element 2a at the marked spots;
 - Connect the wheel to element 3 using a metal pin. The metal pin is fixed with a glue drop as shown on Fig.4;
 - Glue one of the four elements #5 on the marked spot on 1b. Elements #5 have the same shape, but different colouring and it's of no importance which one you choose;
 - To the assembled group of elements glue 2 and 7a and 7b.
- Assemble the other three wheels the same way.

Left wheel	Right wheel
Element ID	Element ID
1a	8a
1b	8b
1c	8c
2a	9a
2b	9b
2c	9c
2d	9d
3a	10a
3b	10b
3c	10c
3d	10d
3e	10e
4	4
5	5
6a	6a
6b	6b
7a	11a
7b	11b

Table: T-2

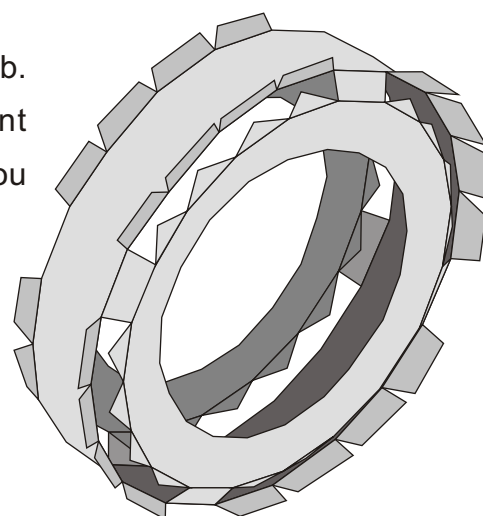


Fig. 4

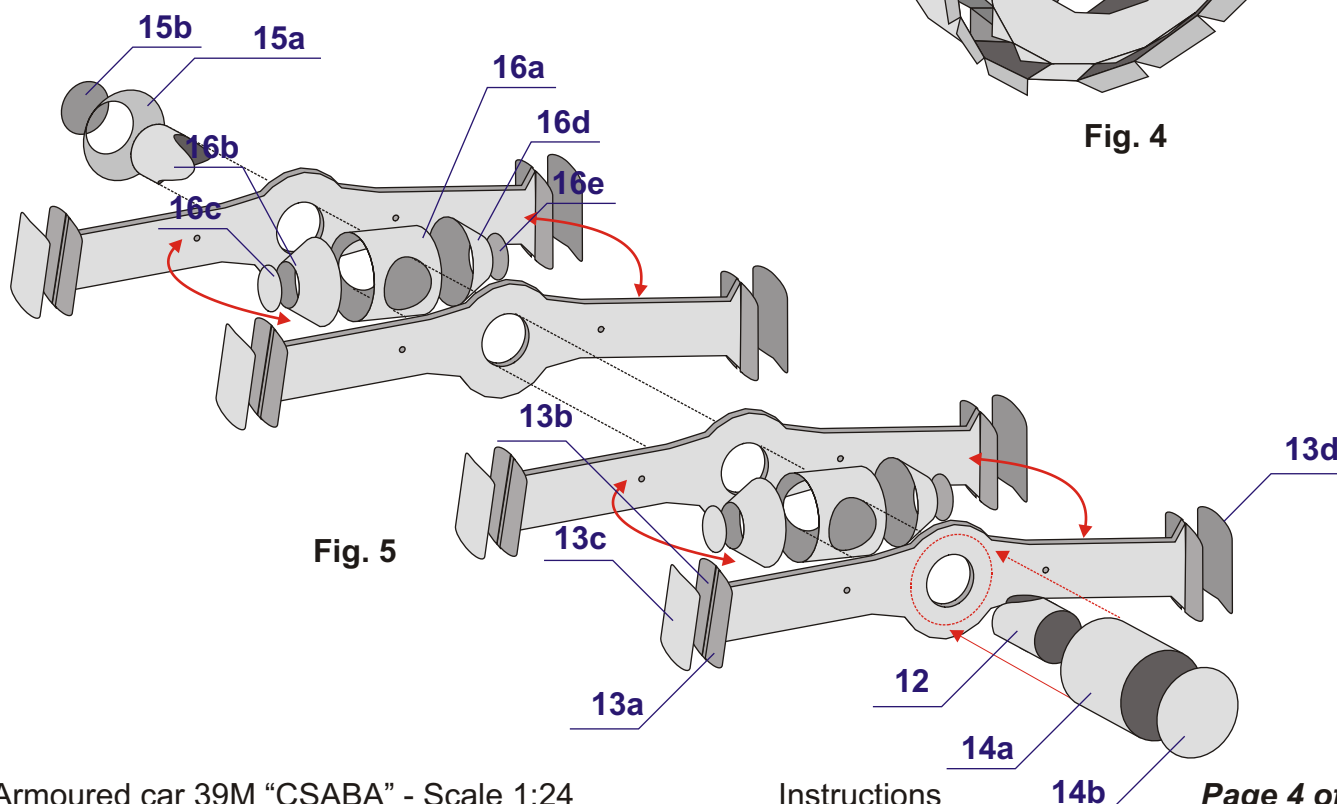
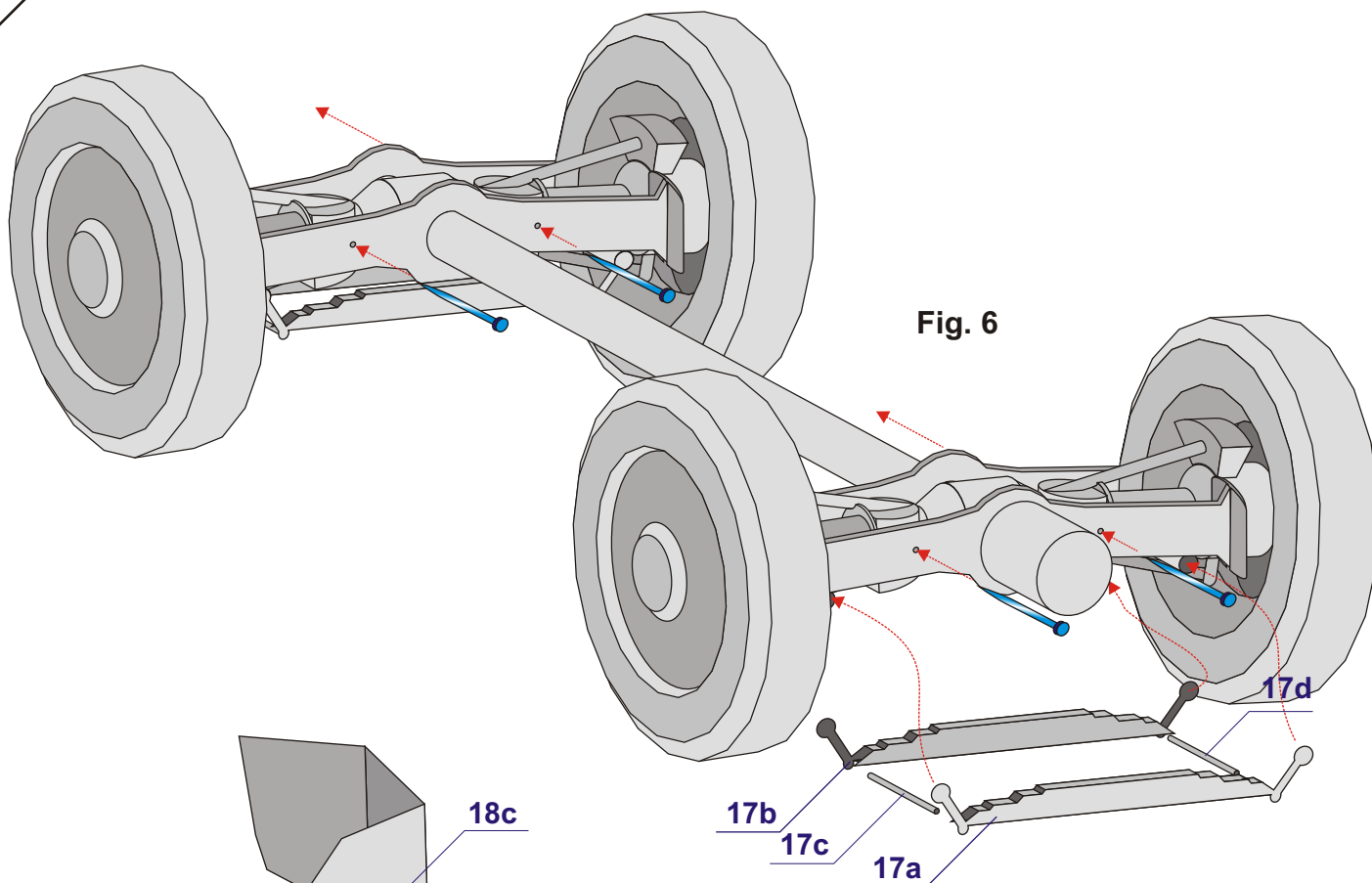


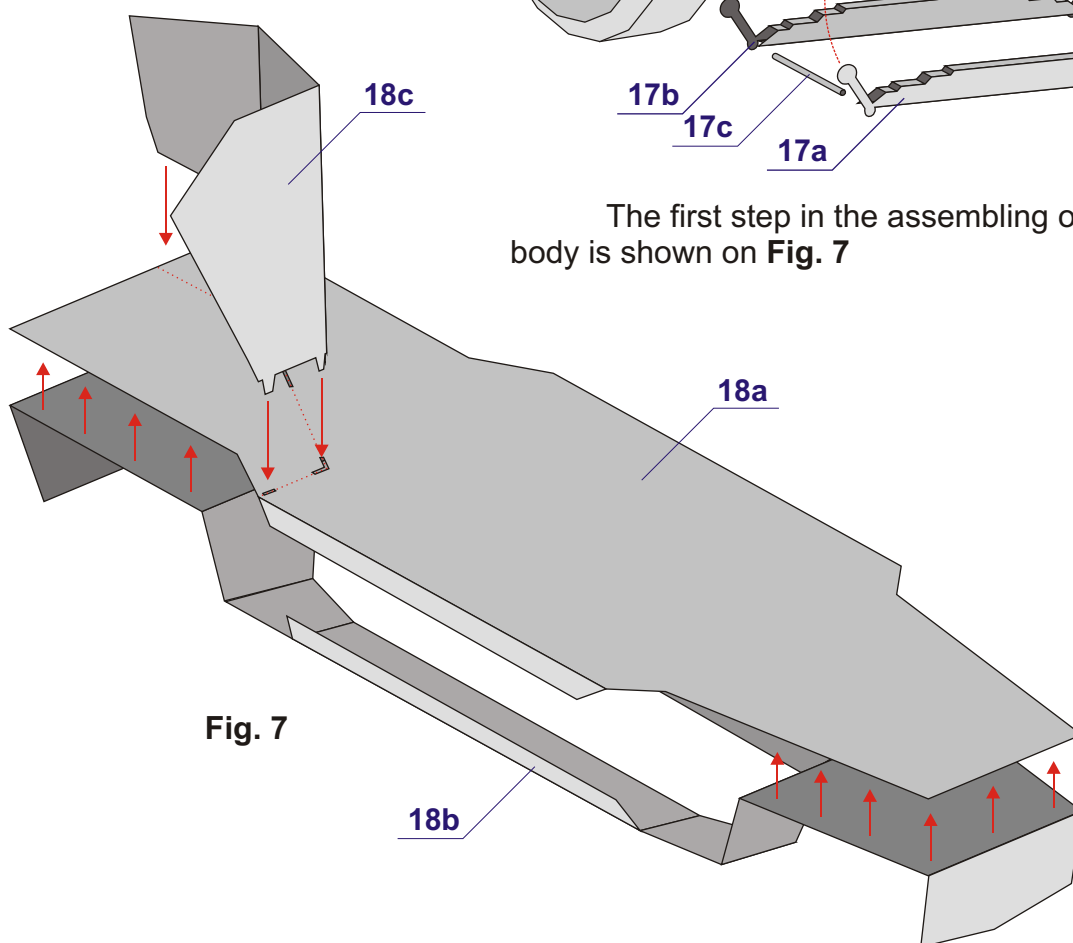
Fig. 5

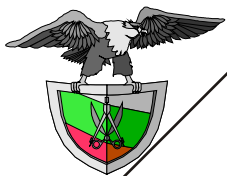


After you assemble the four wheels, you must build the chassis, then fix the wheels to it. To this assembly fix the bumpers. This is shown on Fig.5 and Fig.6



The first step in the assembling of the body is shown on Fig. 7





Around the frame from Fig. 7 (shown here in mauve), we'll build the body

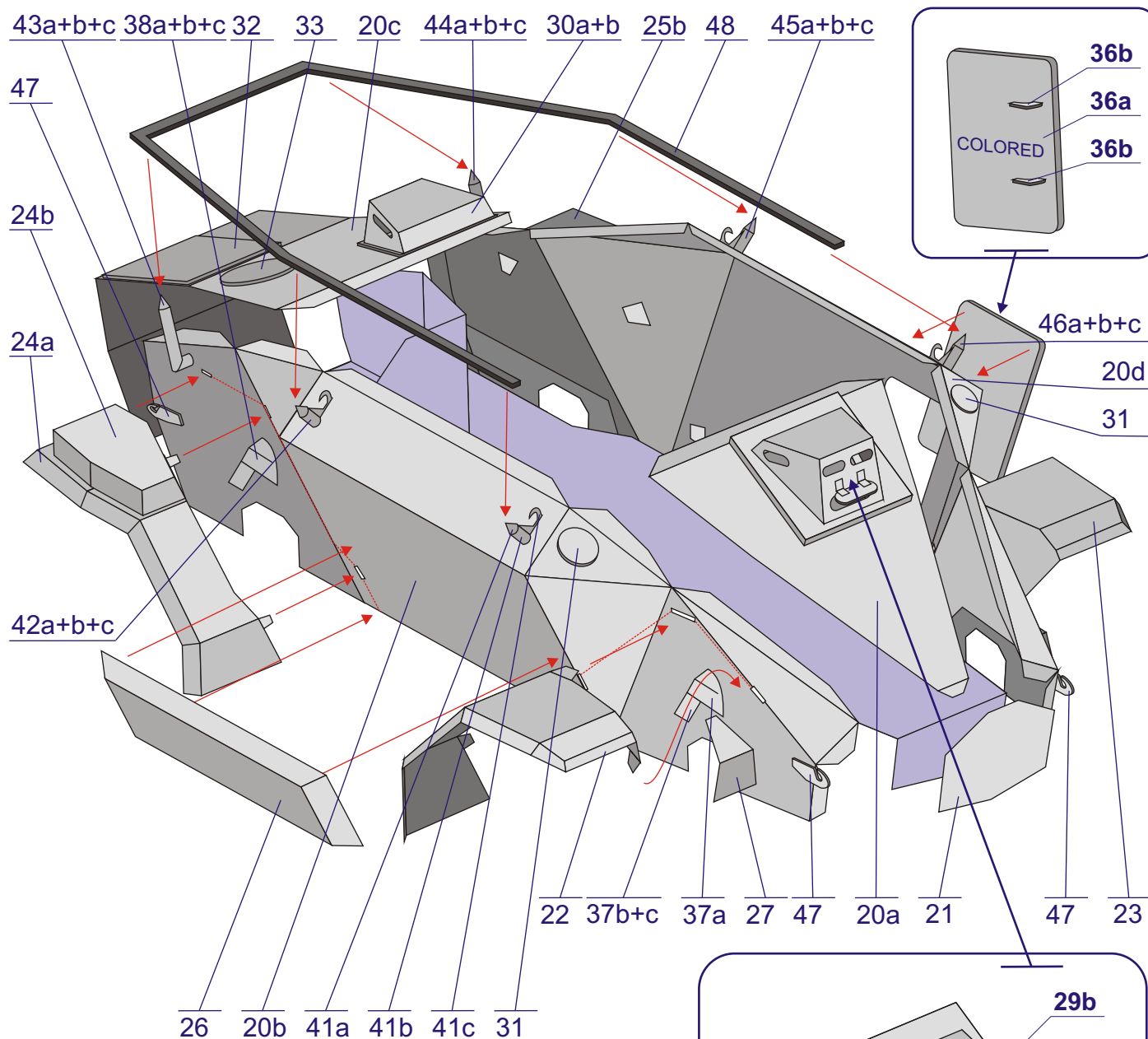
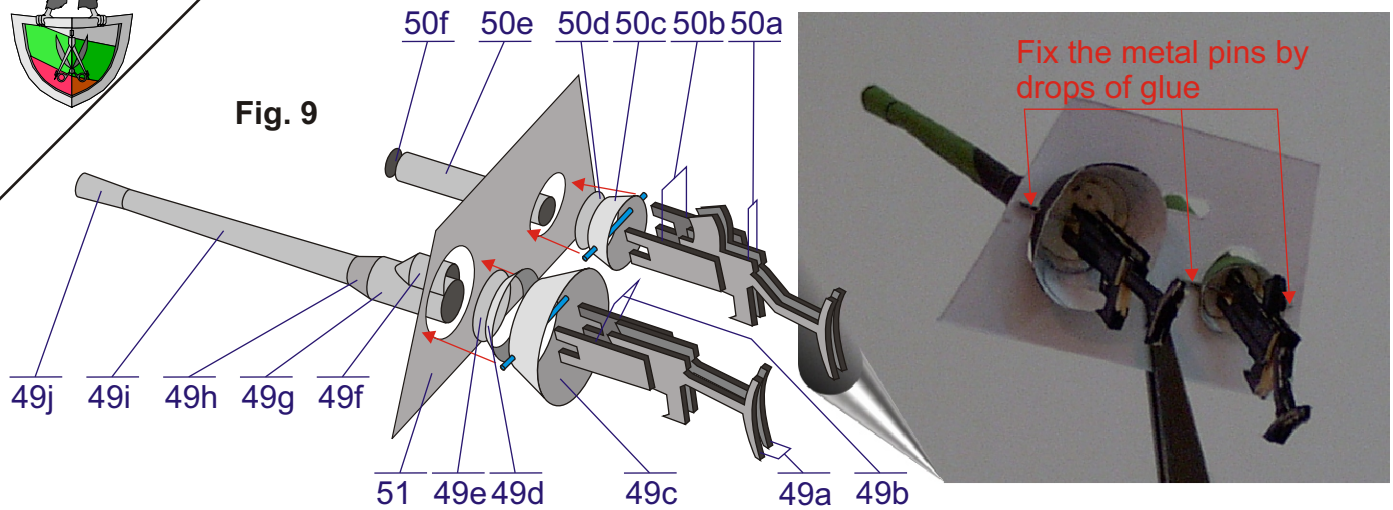
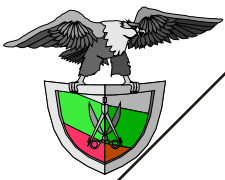


Fig. 8



Assembling of the turret follows. First, assemble the main gun and the machine gun. Mount them on the front plate (element 51) using two metal pins. Fix the pins to the plate with glue drops at each end of the pin as shown on Fig. 9.

Then continue the assemble of the rest of the turret and mount it on the top plate of the body as shown on Fig. 10. This assembly assures the mobility of the turret.

After that, glue the front plate with the weapons to the turret and then - this whole assembly to the body of the armoured car.

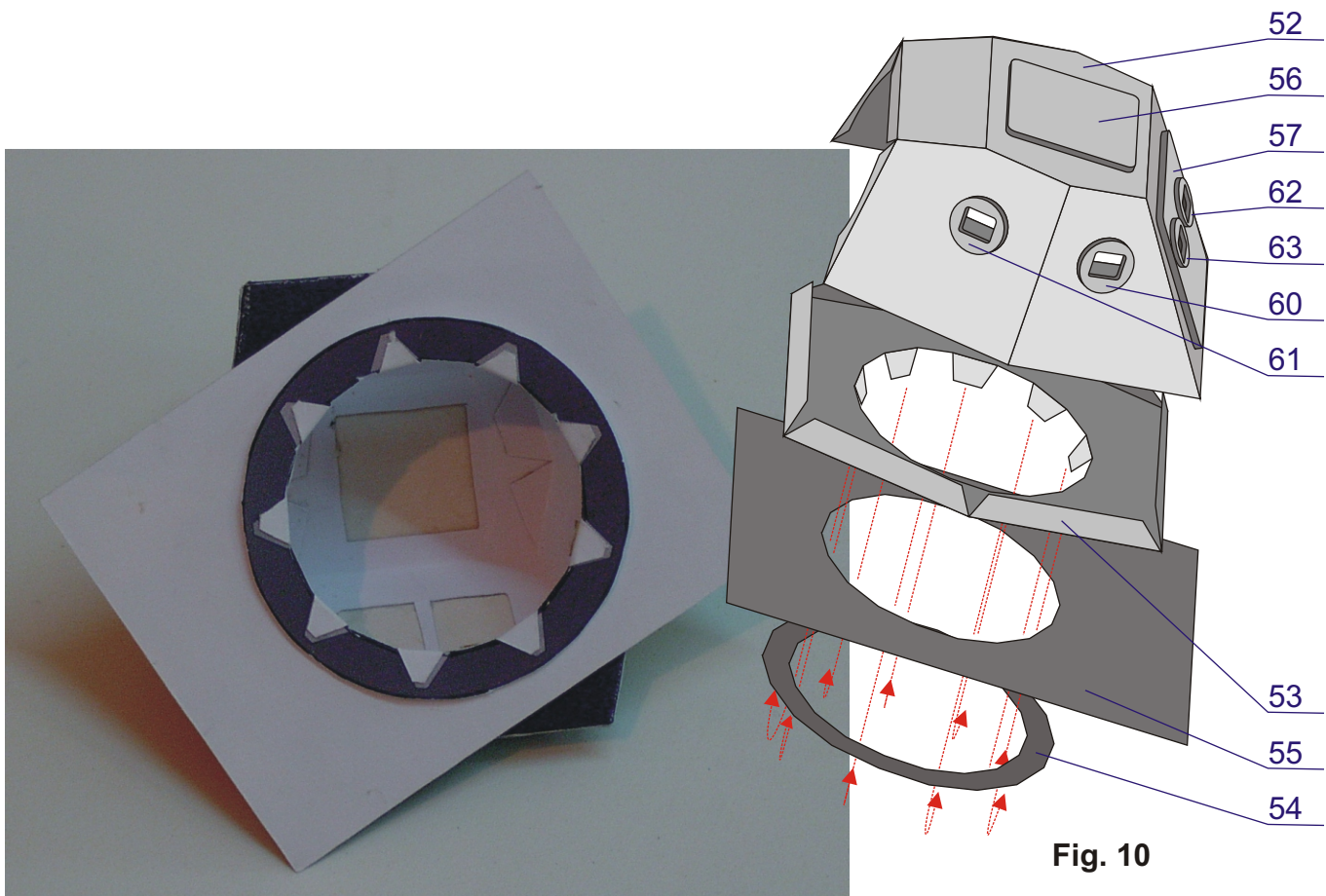


Fig. 10

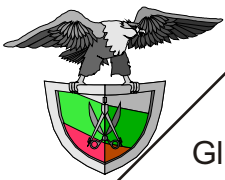


Fig. 11 shows how to connect the chassis to the body.

Glue the bottom element 64.

Mount the exhaust pipe as shown on Fig. 12.

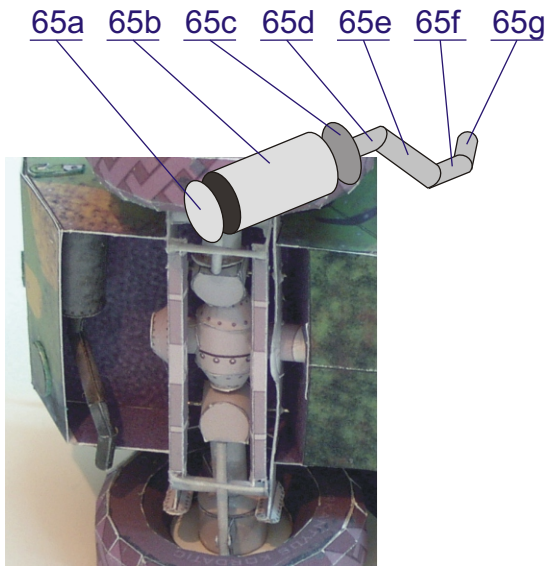


Fig. 12

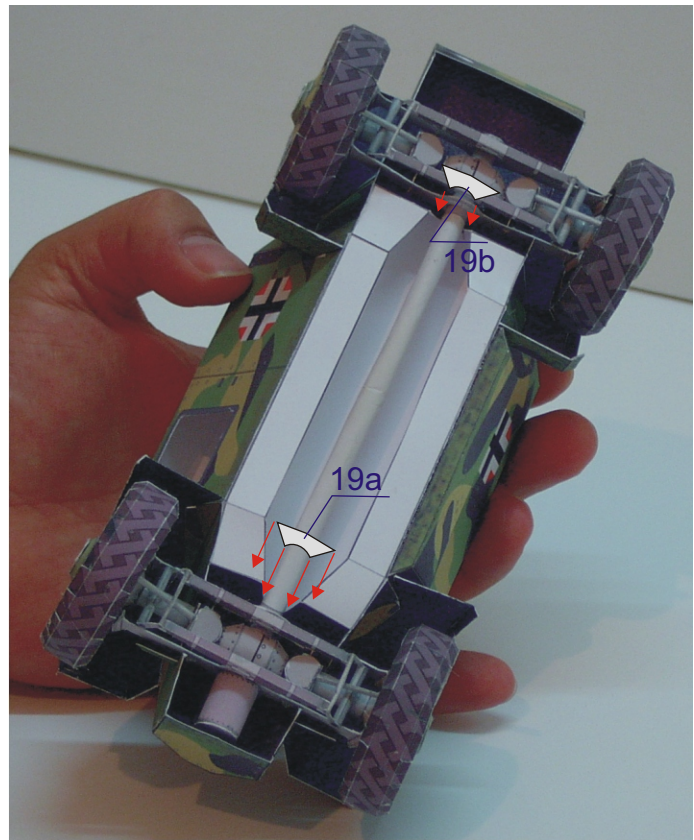


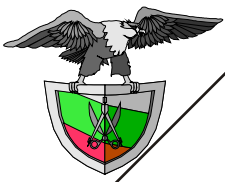
Fig. 11

The following pictures show the proper places for glueing the accessories and the license plates.



Fig. 12





Elements' data:

Element ID	Location (Page#)	Quantity	Element ID	Location (Page#)	Quantity	Element ID	Location (Page#)	Quantity
1a	1/2	2x1	19b	4	1	45b	8	1
1b	1/2	2x1	20a	3	1	45c	6	1
1c	1/2	2x1	20b	3	1	46a	8	1
2a	1/2	2x1	20c	4	1	46b	8	1
2b	1/2	2x1	20d	3	1	46c	6	1
2c	1/2	2x1	21	3	1	47	7	4
2d	8	2	22	5	1	48	7	1
3a	1/2	2x1	23	5	1	49a	7	2
3b	1/2	2x1	24a	5	1	49b	7	2
3c	1/2	2x1	24b	5	1	49c	8	1
3d	1/2	2x1	25a	5	1	49d	8	1
3e	1/2	2x1	25b	5	1	49e	7	1
4	1/2	2x2	26	5	1	49f	8	1
5	3	4	27	5	1	49g	8	1
6a	1/2	2x2	28	5	1	49h	8	1
6b	1/2	2x2	29a	7	1	49i	8	1
7a	8	2	29b	4	1	49j	8	1
7b	8	2	29c	4	1	50a	7	2
8a	1/2	2x1	29d	4	1	50b	7	2
8b	1/2	2x1	29e	7	1	50c	8	1
8c	1/2	2x1	30a	7	1	50d	7	1
9a	1/2	2x1	30b	4	1	50e	8	1
9b	1/2	2x1	31	7	2	50f	8	1
9c	1/2	2x1	32	7	1	51	6	1
9d	8	2	33	7	1	52	6	1
10a	1/2	2x1	34	7	1	53	6	1
10b	1/2	2x1	35	7	1	54	6	1
10c	1/2	2x1	36a	7	1	55	3	1
10d	1/2	2x1	36b	6	2	56	7	1
10e	1/2	2x1	37a	8	1	57	7	1
11a	8	2	37b	8	1	58	7	1
11b	8	2	37c	8	1	59	7	1
12	8	1	38a	8	1	60	7	1
13a	1/2	2x2	38b	8	1	61	7	1
13b	1/2	2x2	38c	8	1	62	7	1
13c	1/2	2x2	39a	8	1	63	7	1
13d	1/2	2x2	39b	8	1	64	5	1
14a	3	1	39c	8	1	65a	8	1
14b	3	1	40a	8	1	65b	8	1
15a	3	1	40b	8	1	65c	8	1
15b	3	1	40c	8	1	65d	8	1
16a	1/2	2x1	41a	8	1	65e	8	1
16b	1/2	2x1	41b	8	1	65f	8	1
16c	1/2	2x1	41c	6	1	65g	8	1
16d	1/2	2x1	42a	8	1	66a	6	1
16e	1/2	2x1	42b	8	1	66b	7	1
17a	1/2	2x1	42c	6	1	67a	6	1
17b	1/2	2x1	43a	8	1	67b	7	1
17c	8	2	43b	8	1	68	6	2
17d	8	2	43c	8	1	69a	6	1
18a	4	1	44a	8	1	69b	7	1
18b	4	1	44b	8	1	70	6	2
18c	4	1	44c	8	1	71	6	1
19a	4	1	45a	8	1	72	6	1

