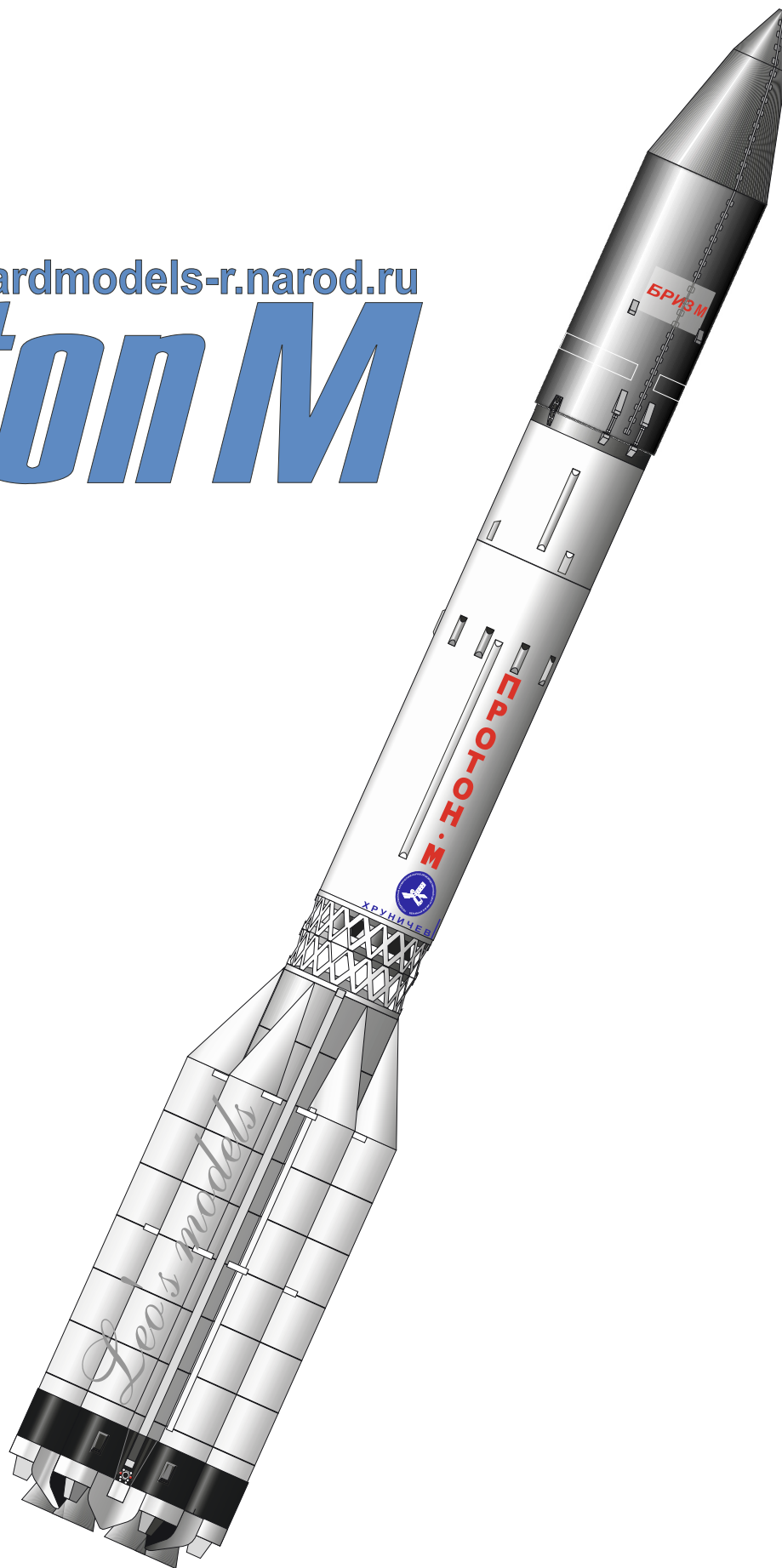


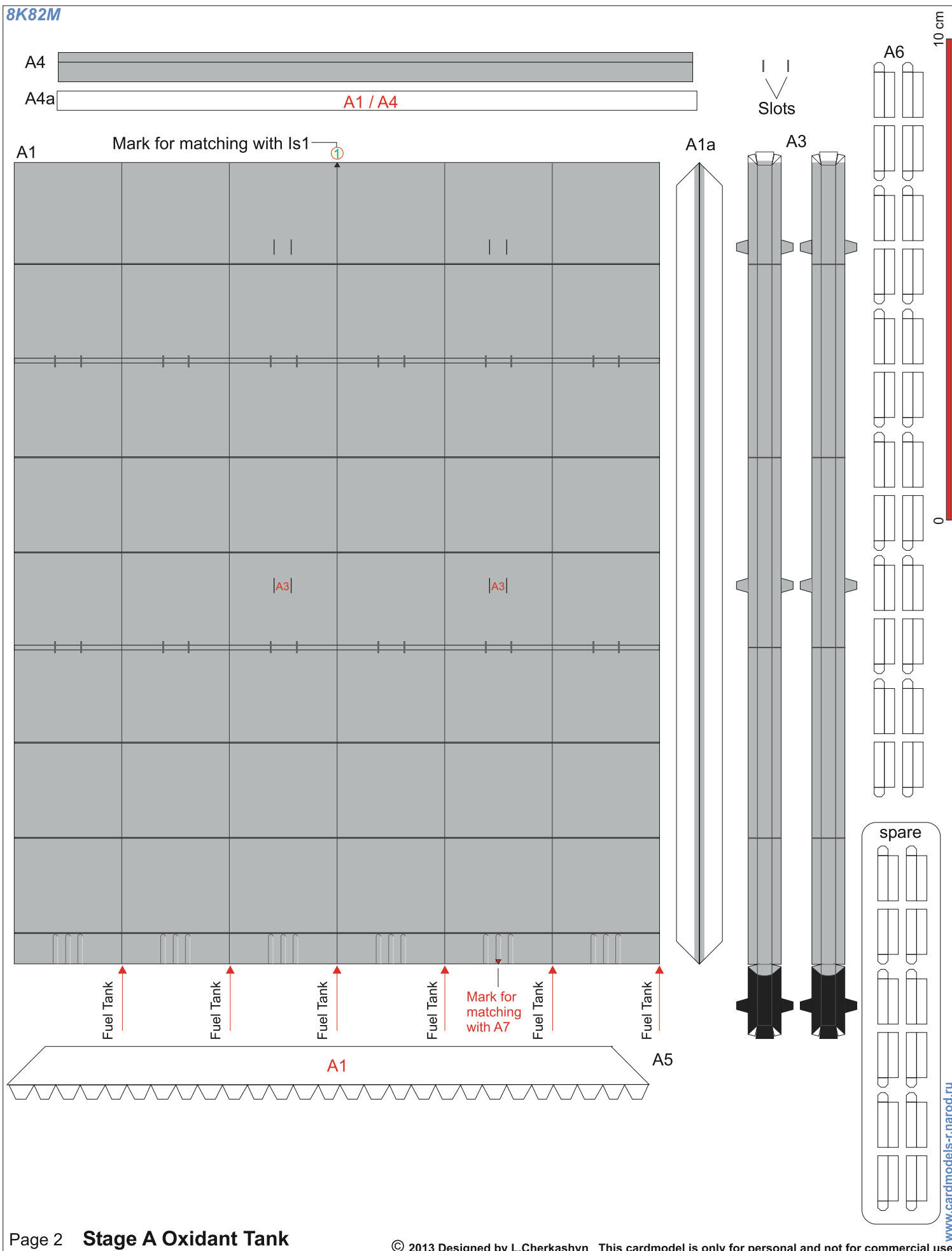
[www.cardmodels-r.narod.ru](http://www.cardmodels-r.narod.ru)

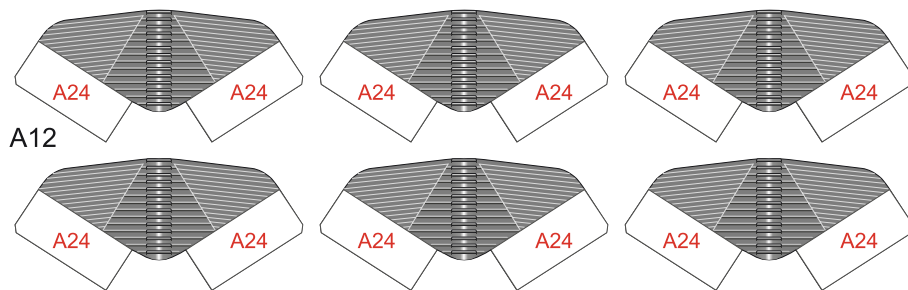
# Proton M

1:96 scale

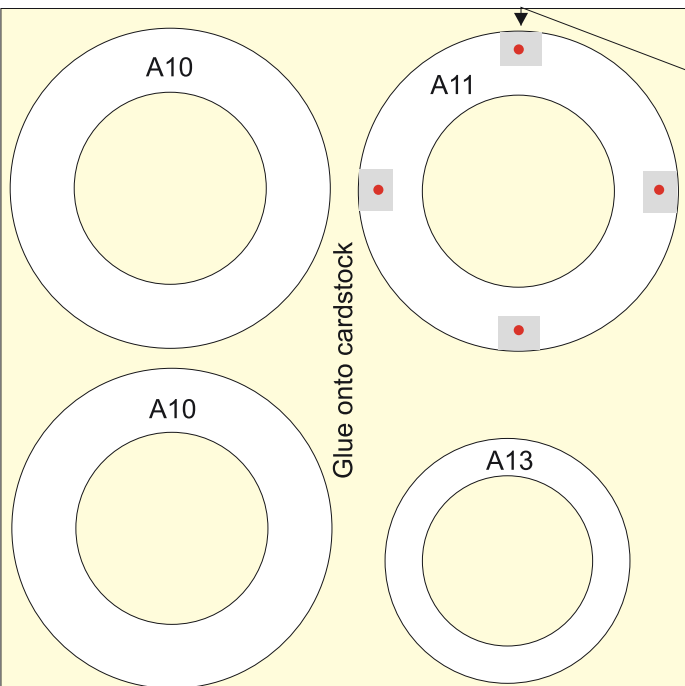


Paper used:  
0,15 mm - 130 gr  
0,26 mm - 200 gr ("cardstock")  
Glue: PVA

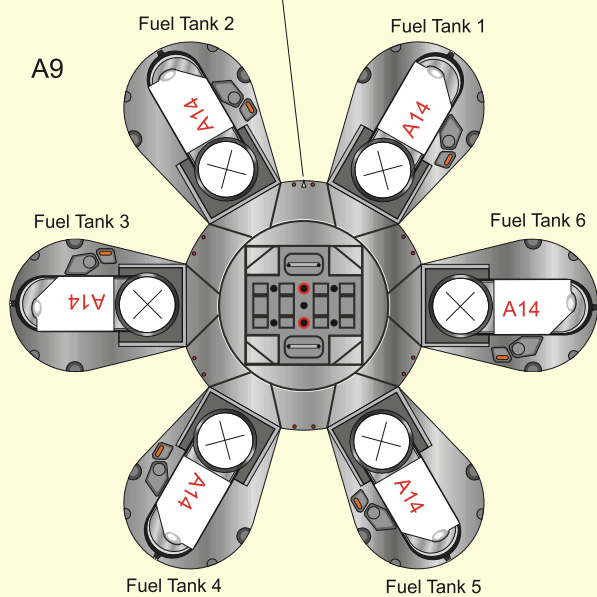




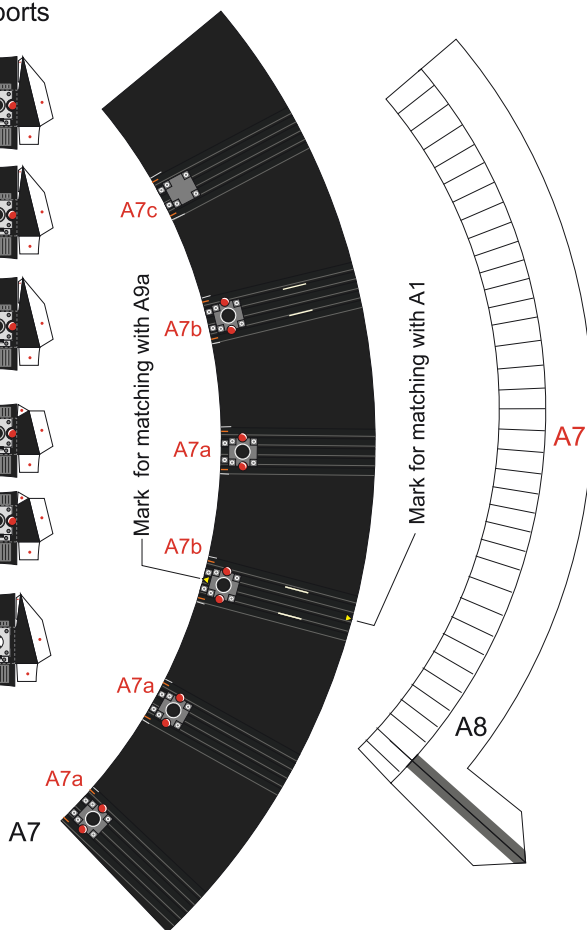
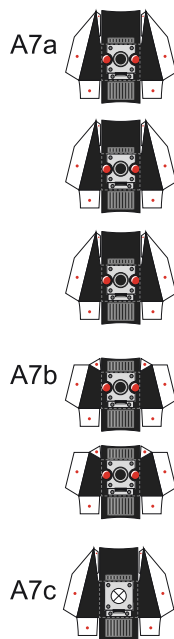
A12



Mark for matching with A9a



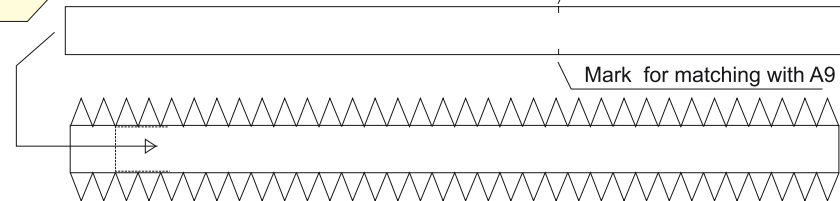
Rocket supports



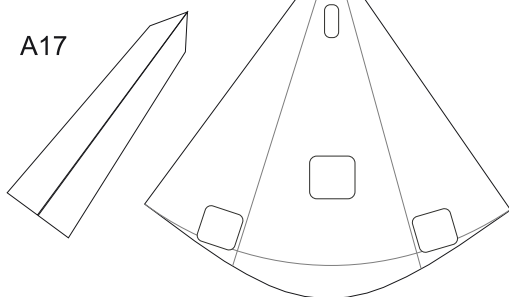
A9a

Mark for matching with A7

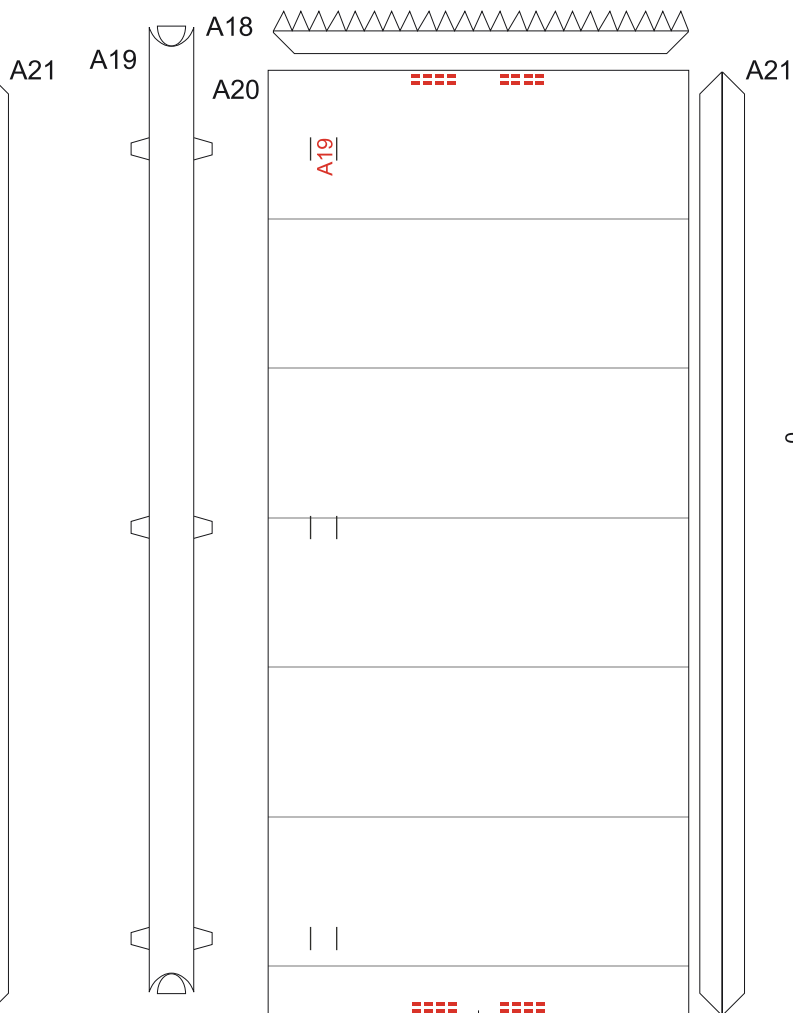
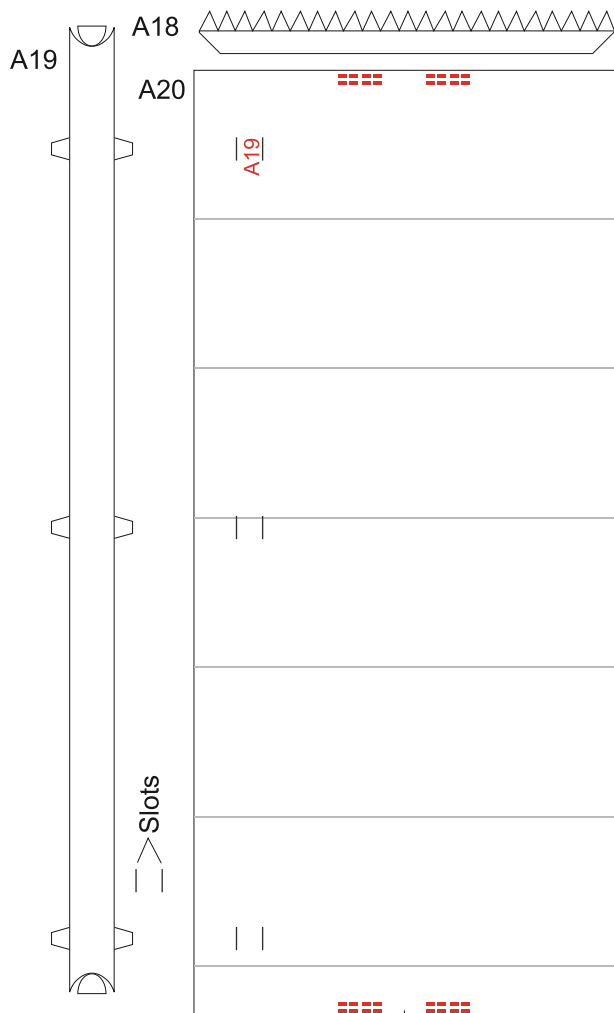
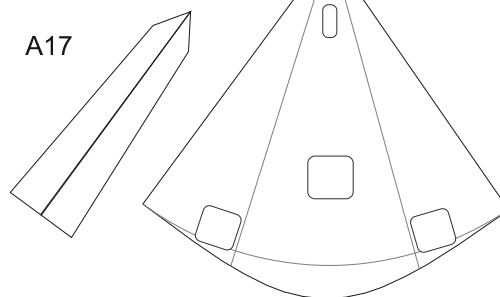
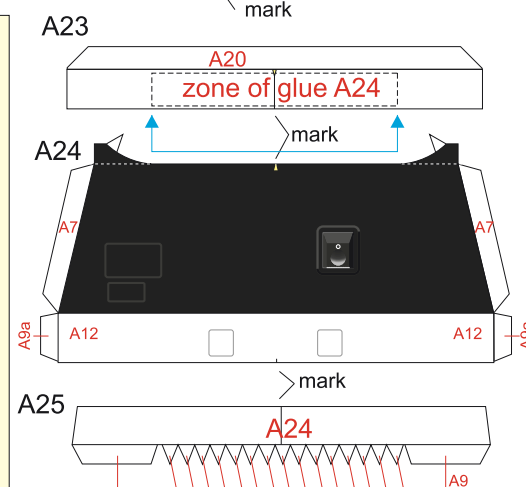
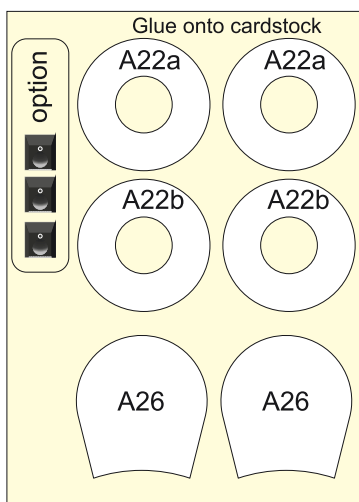
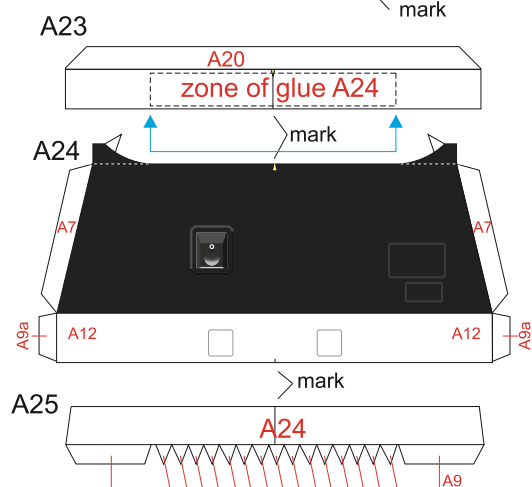
Mark for matching with A9

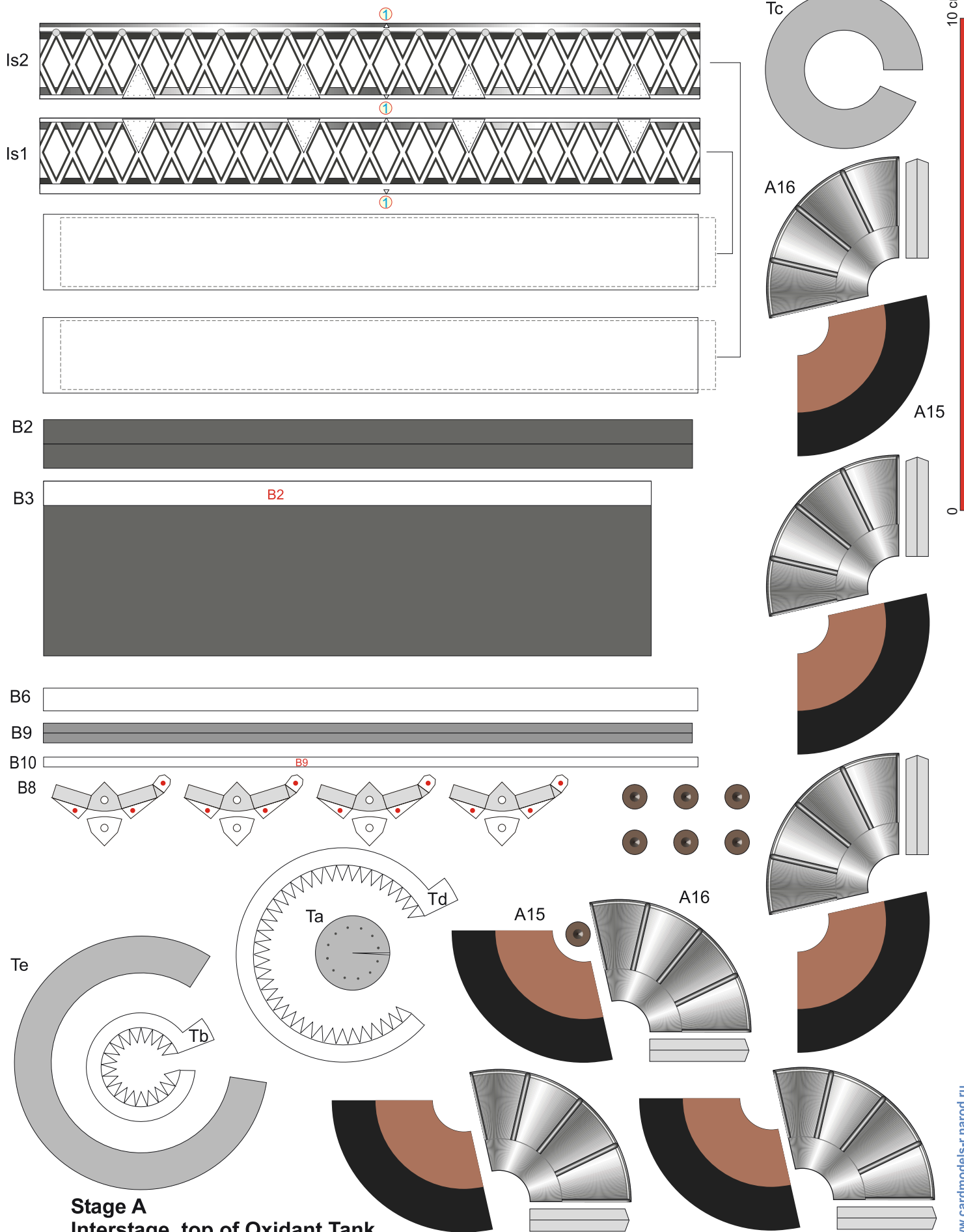


Fuel Tanks 1, 3, 5

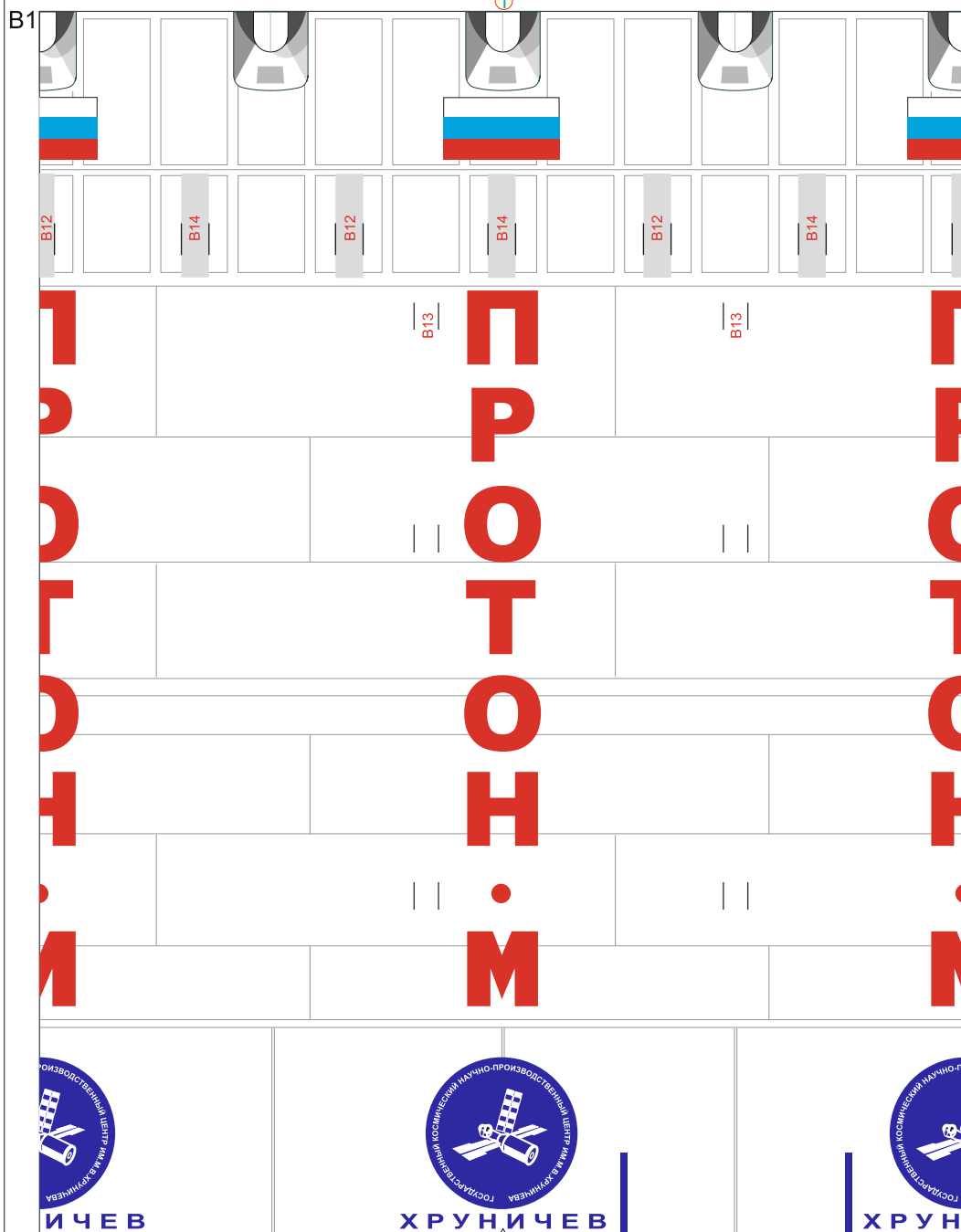


Fuel Tanks 2, 4, 6

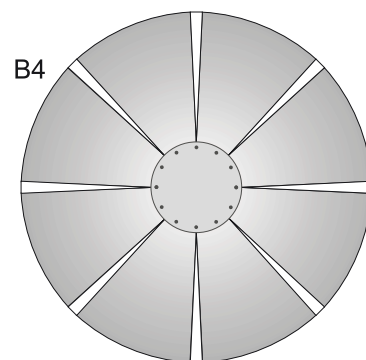
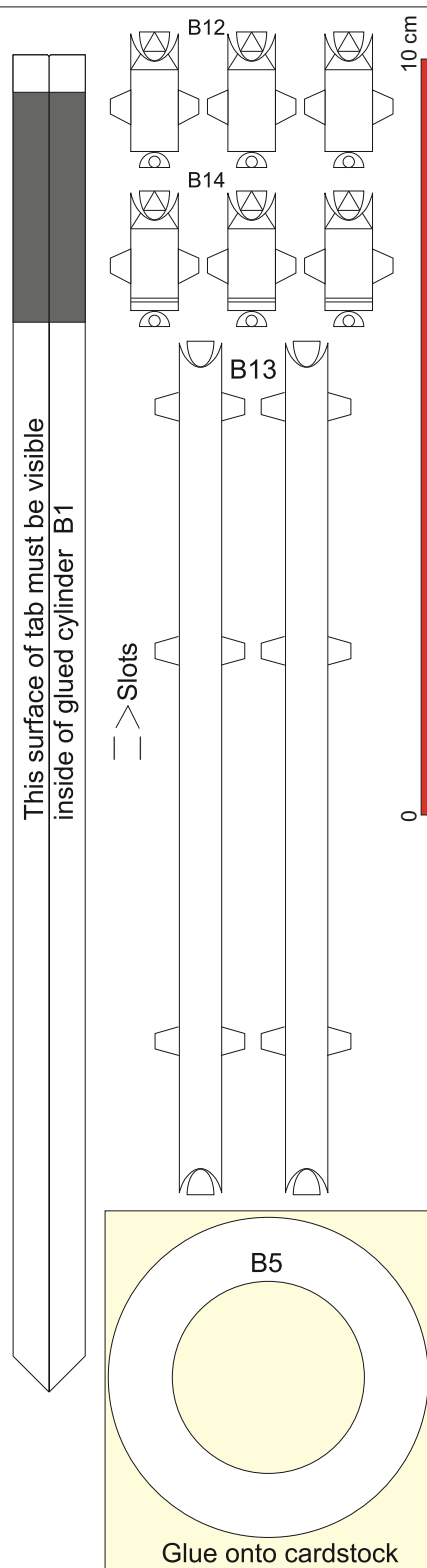
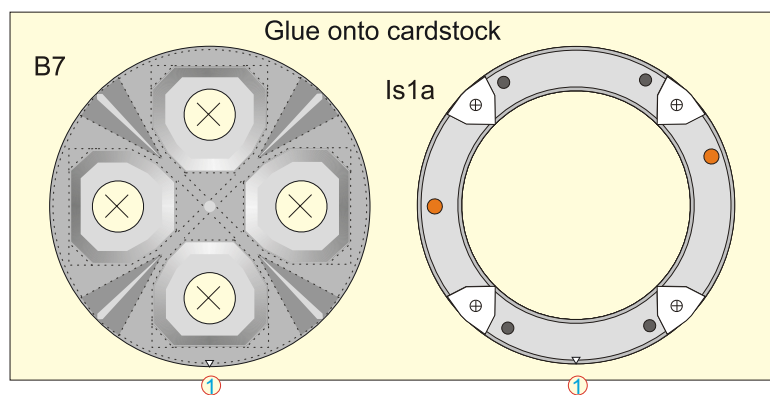
10 cm  
0



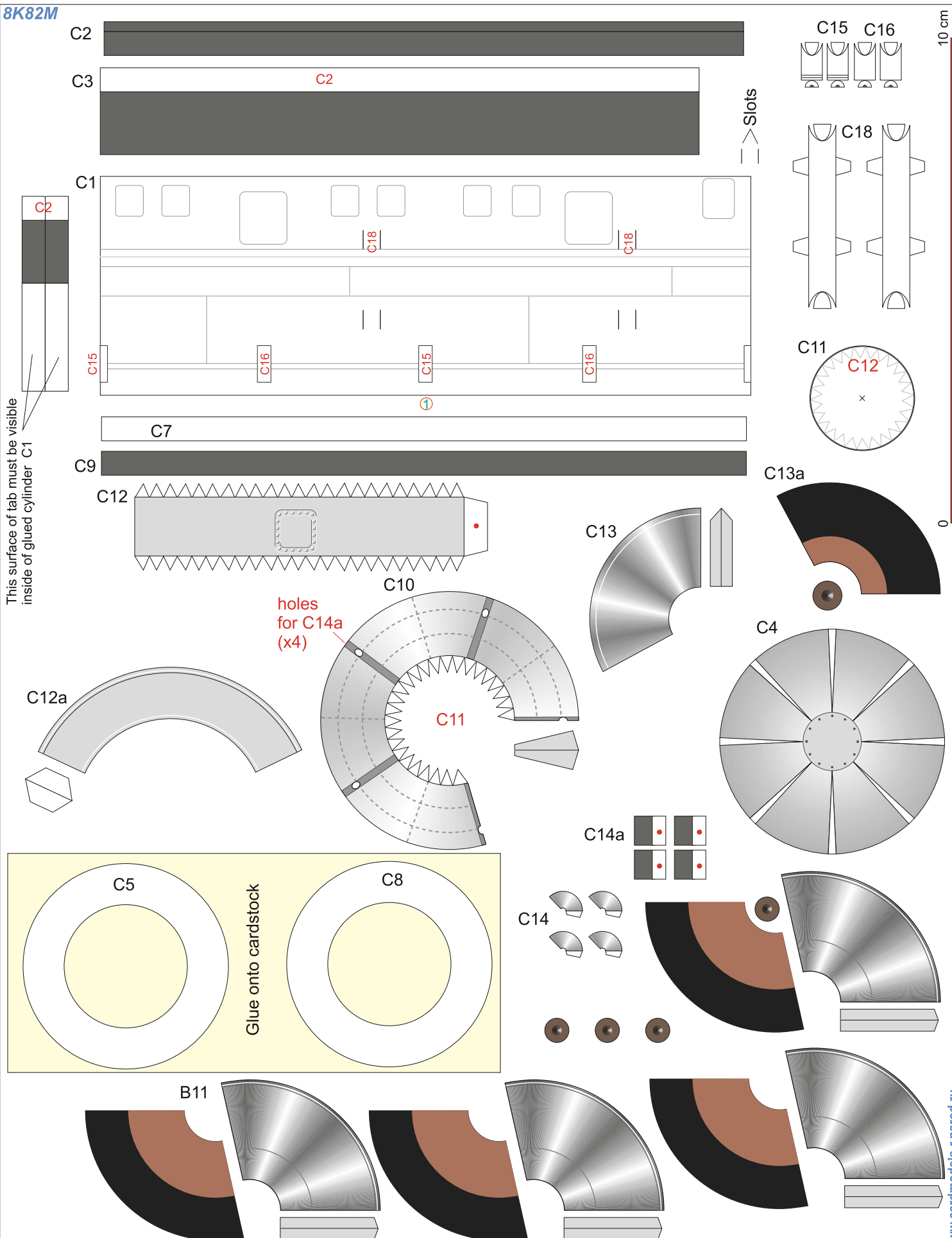
**Stage A**  
**Interstage, top of Oxidant Tank**  
**and nozzles**



Is1b — rod x4  $d \sim 1,5 \text{ mm}$   $L = 5 \text{ mm}$   
 Is1b-1 (x4) —



This surface of tab must be visible  
inside of glued cylinder C1





P12

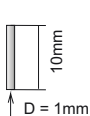


P12a



P12b

Rods x 8



P12

P12b

P12a

P14a

P14b

P14a

P14b

P6

P7

P5

P5

БРИЗ-М

P13



10 cm

0

D8a



D8b



P9b

P9b-1

P9b

P9b

P9b

P9a

P9a

P9a

P9a

P3

P4

P9a

P9b-1

P9b

P5

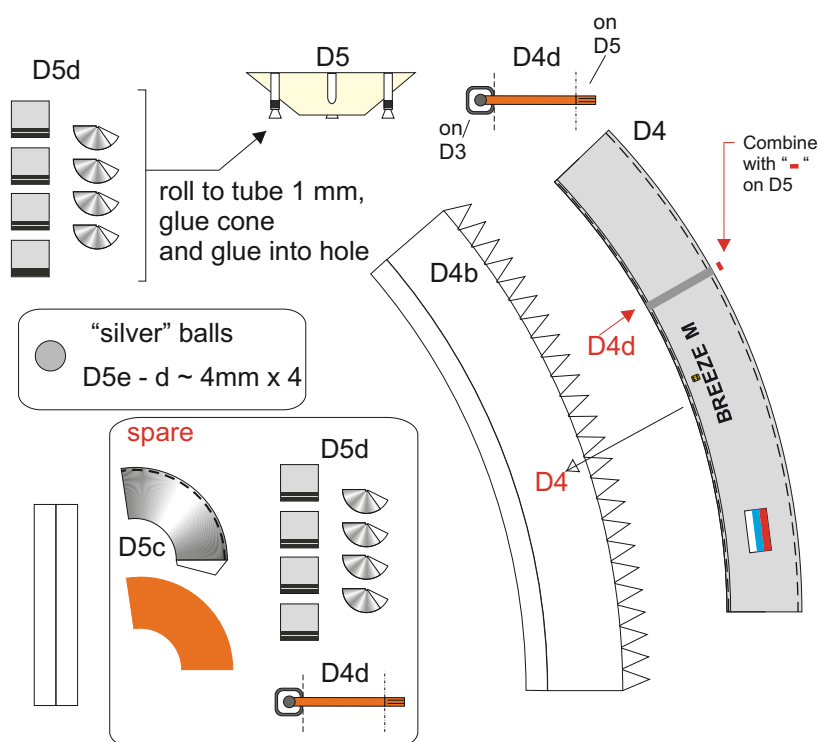
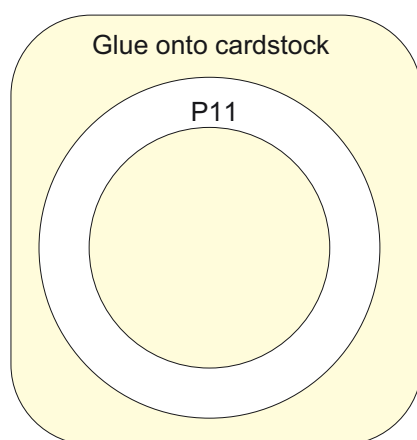
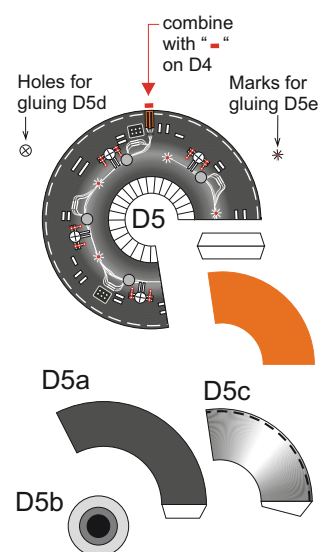
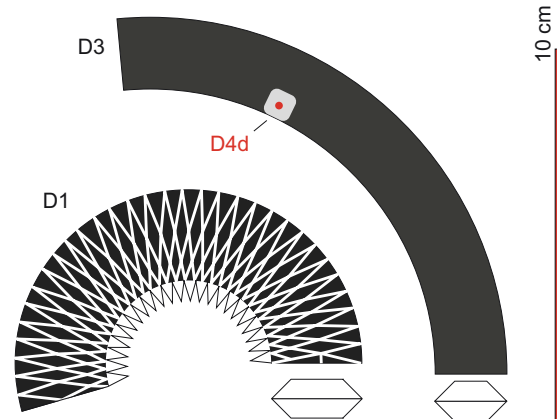
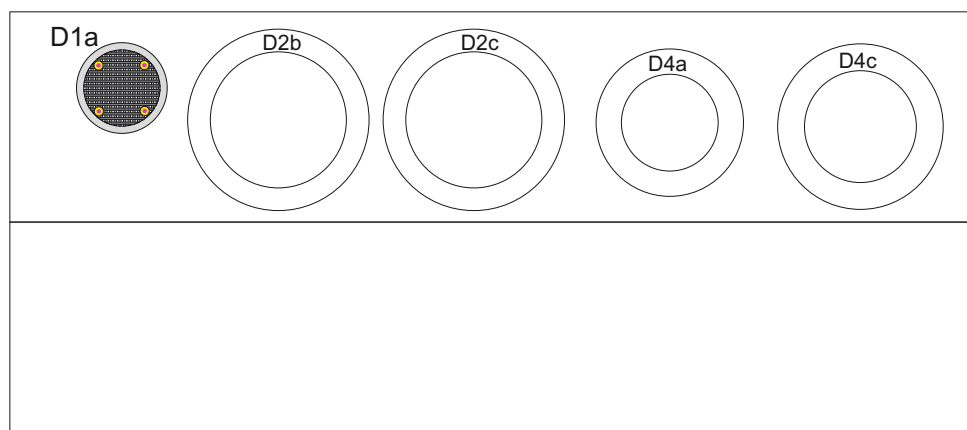
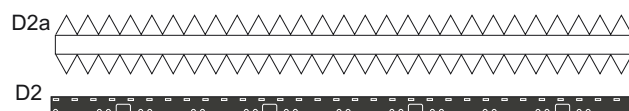
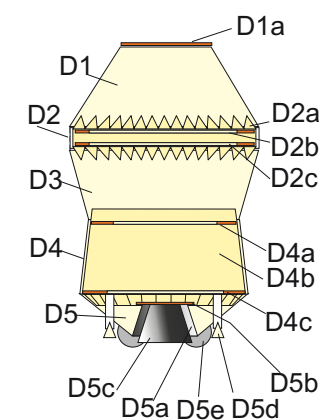
D8a

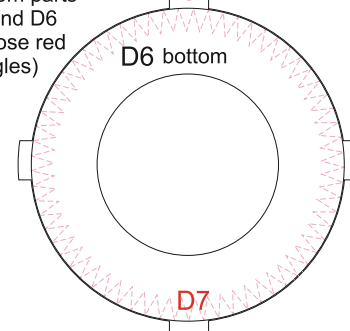
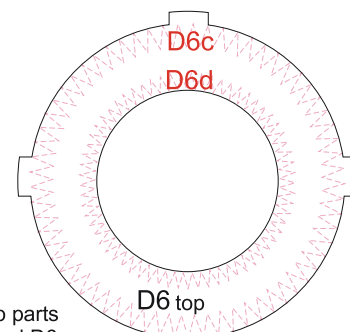
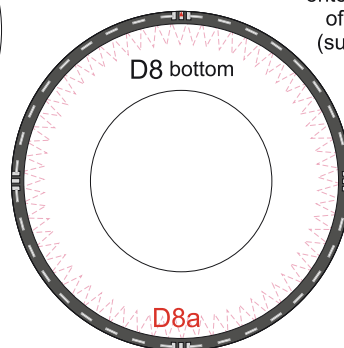
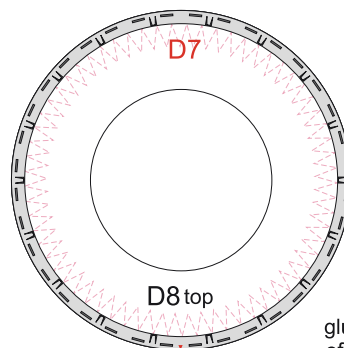
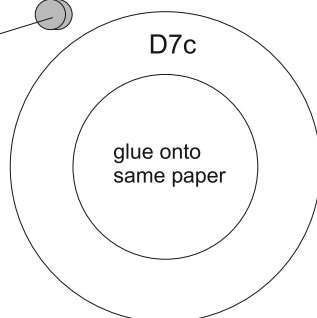
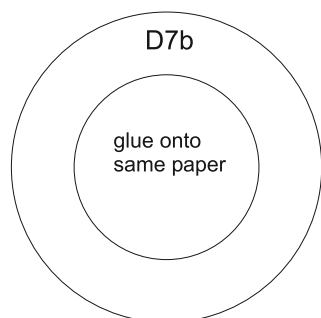
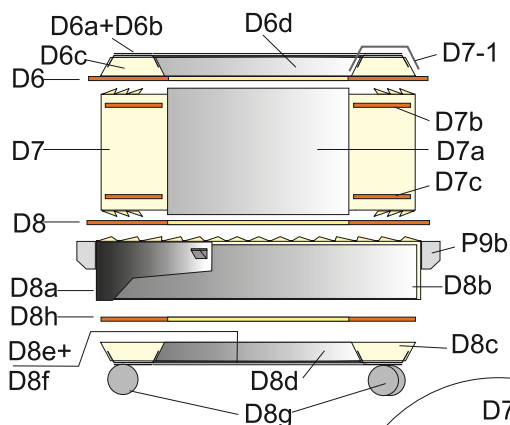
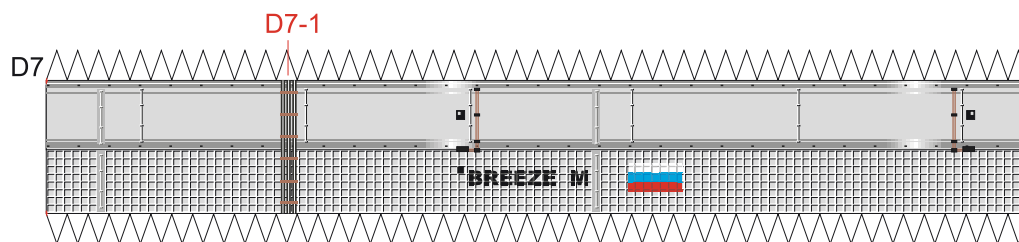
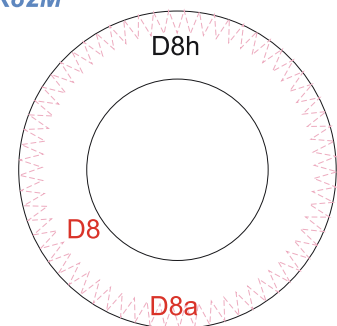
P3

P2

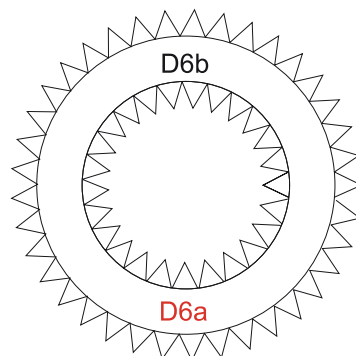
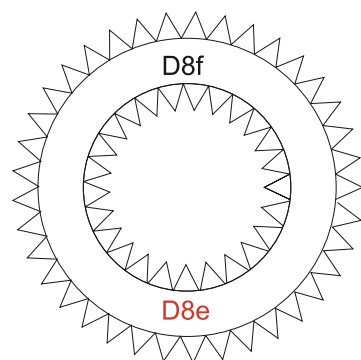
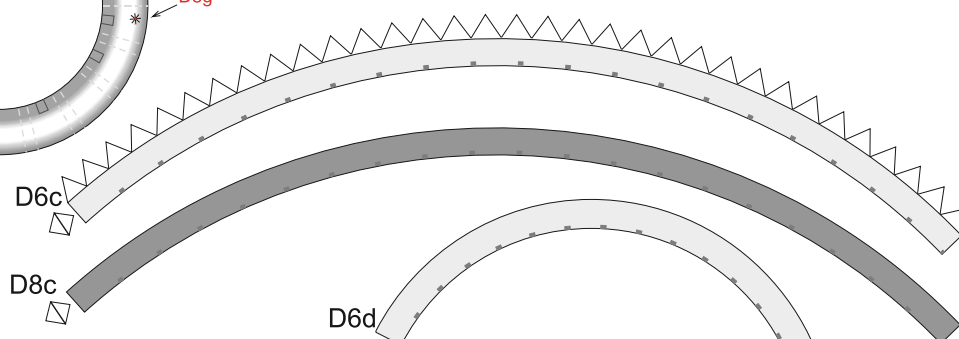
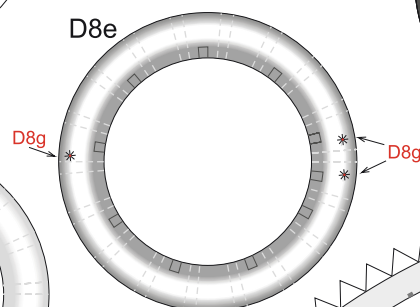
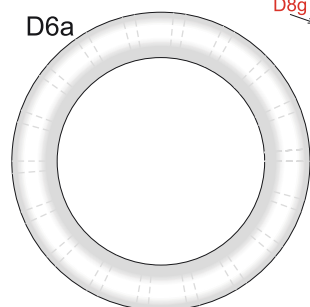
P1



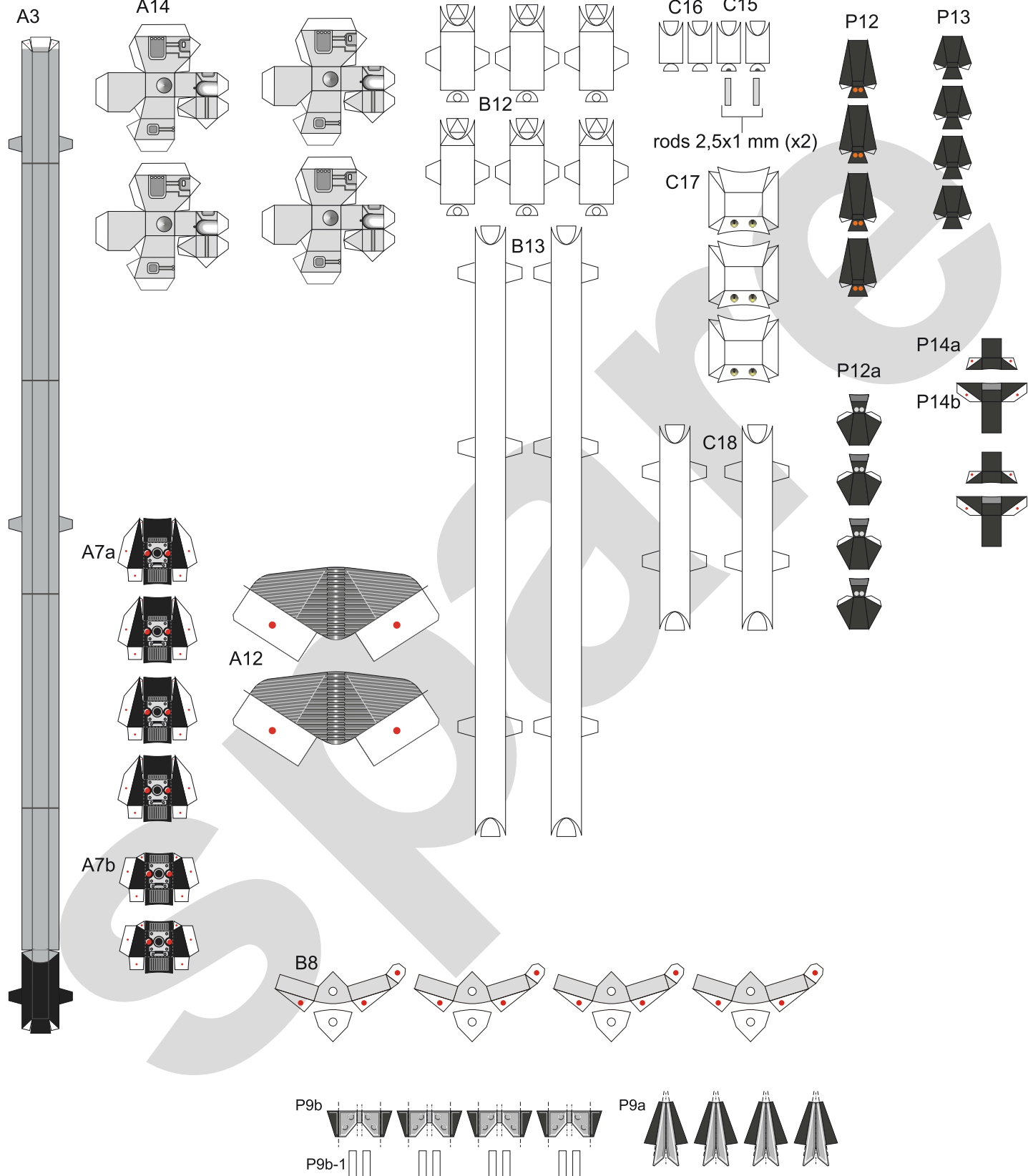




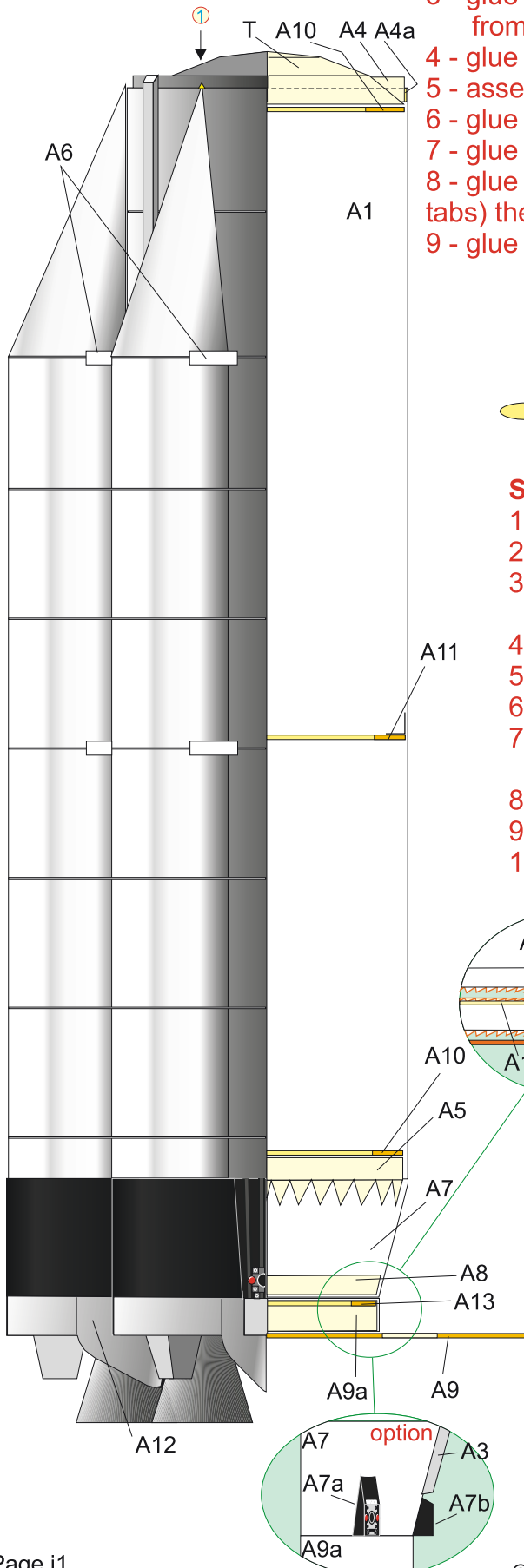
glue top parts  
of D8 and D6  
onto bottom parts  
of D8 and D6  
(superpose red  
triangles)



"silver" balls  
d ~ 4mm x 3

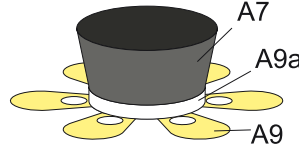


## Stage B

**Sequence of Fuel Tanks assembly:**

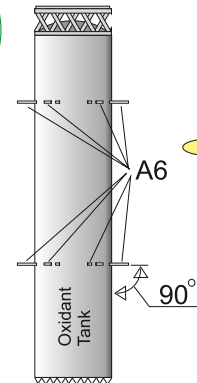
- 1 - glue cylinder A20 and cone A17,
- 2 - glue A18, A22a, A22b, A23,
- 3 - glue A25 and A26 (A26 - about 6 mm from top edge)
- 4 - glue A24 and A20 using A23
- 5 - assembly A17 and A20
- 6 - glue A19 onto A20 (use slots)
- 7 - glue cone A7 (use A8)
- 8 - glue A9a (with A13 under triangle tabs) then glue A7 on A9a (use mark)
- 9 - glue A9a on A9 (use mark)

Result of step 9

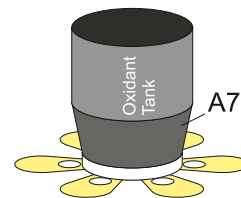
**Sequence of Oxidant Tank assembly:**

- 1 - glue cylinder A1 and part T
- 2 - glue A4a, A4, A10, T
- 3 - glue Is1, Is1a, Is1b+Is1b-1 and glue Is1 on top of A1
- 4 - glue A11, A10, A5
- 5 - glue supports A6 (use slots)
- 6 - glue Oxidant Tank onto A7
- 7 - glue Fuel Tanks on A9 (see its numbers)
- 8 - glue supports A6 to Fuel Tanks
- 9 - glue A3, parts A12 and parts A7a, A7b (option)
- 10 - glue parts A14 and nozzles A15+A16

Result of steps 1 - 5



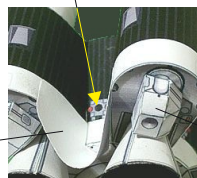
Result of step 6



Step 7



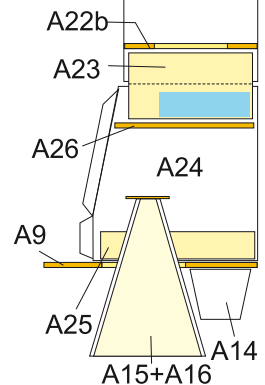
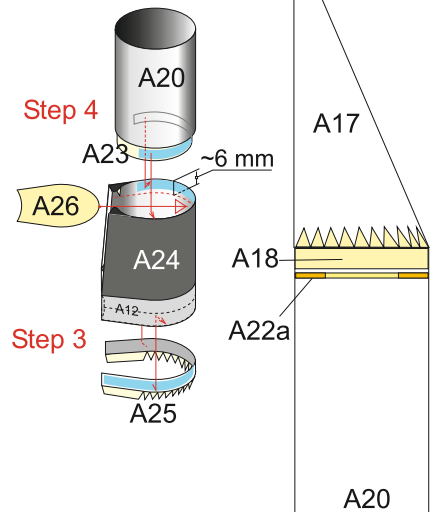
glue A7a here



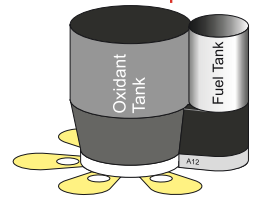
A12

A14

A9

**Assembling of stage A**

Result of step 7

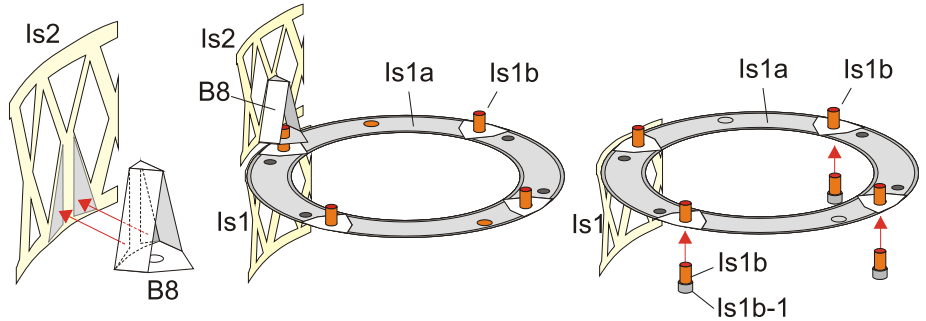


## Assembling of stage B

### Sequence of gluing:

- 1 - glue cylinder B1,
- 2 - glue B10, B9
- 3 - assembly nozzles B11 and disk B7
- 4 - insert result of step 3 from top to bottom of B1 and glue using B9, B10 as support,
- 5 - glue Is2 + B8
- 6 - glue B6, B5, B4, B3, B2, B12, B13 and B14

## Assembling of Interstage

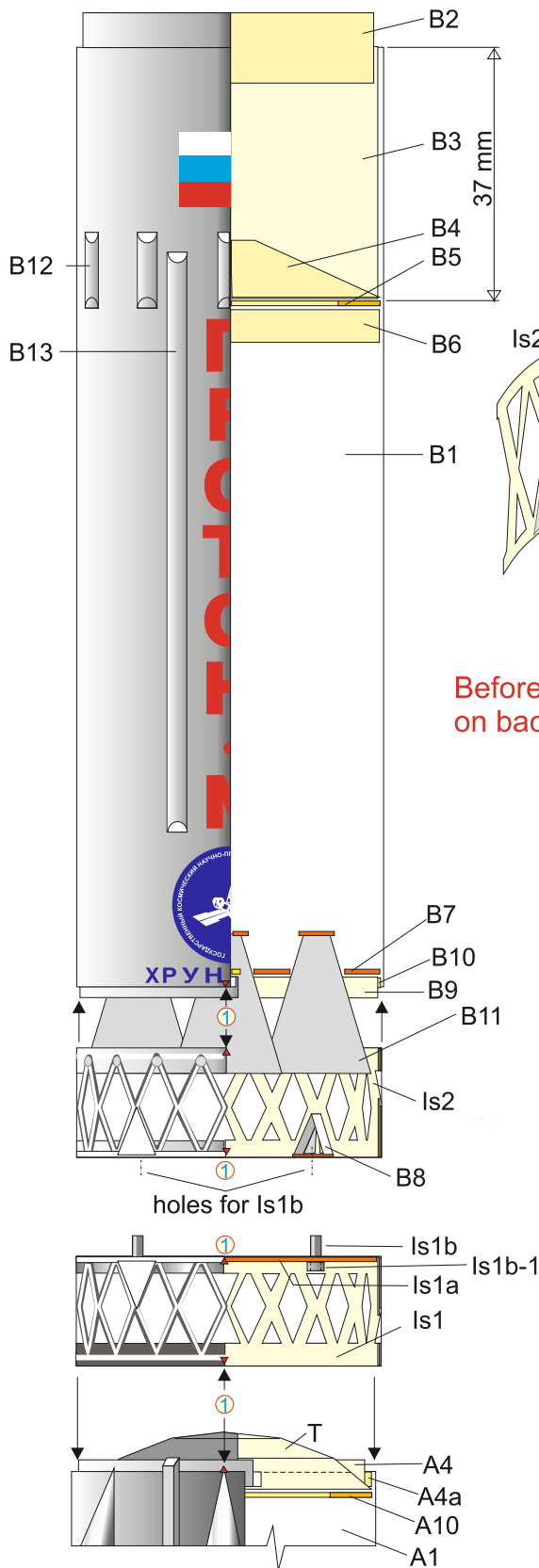
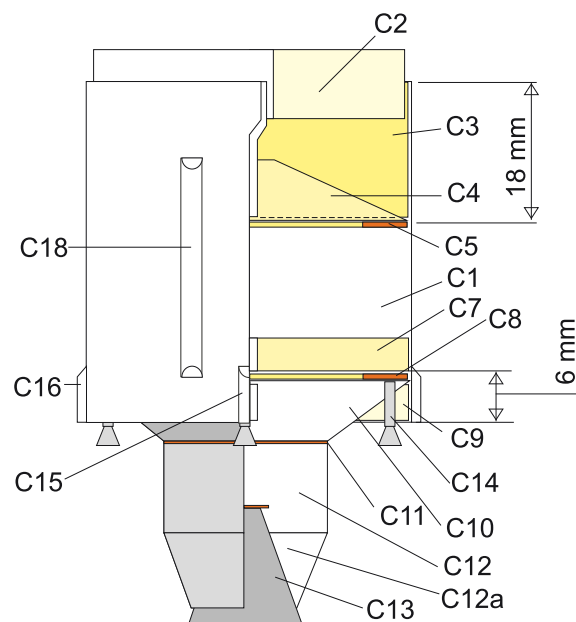


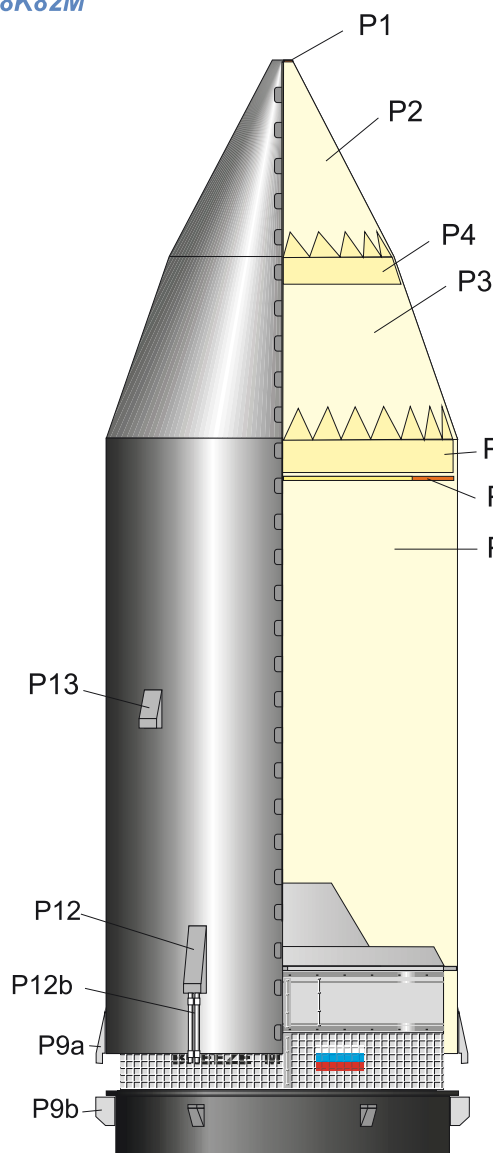
## Assembling of stage C

Before gluing: mark for part C8 should be drawn by fine pencil-point on backside of part C1 on distance 6 mm parallel to bottom edge

### Sequence of gluing:

- 1- glue cylinder C1, then glue C3, C5, C7, C8, C4 and C2 assembly engine pod -
- 2- glue cone C10 and glue C11 on C10
- 3- assembly cylinder C12 and cone C and glue on C11
- 4- insert nozzle C13 into cone C12a
- 5- insert parts C14 into holes on cone C10



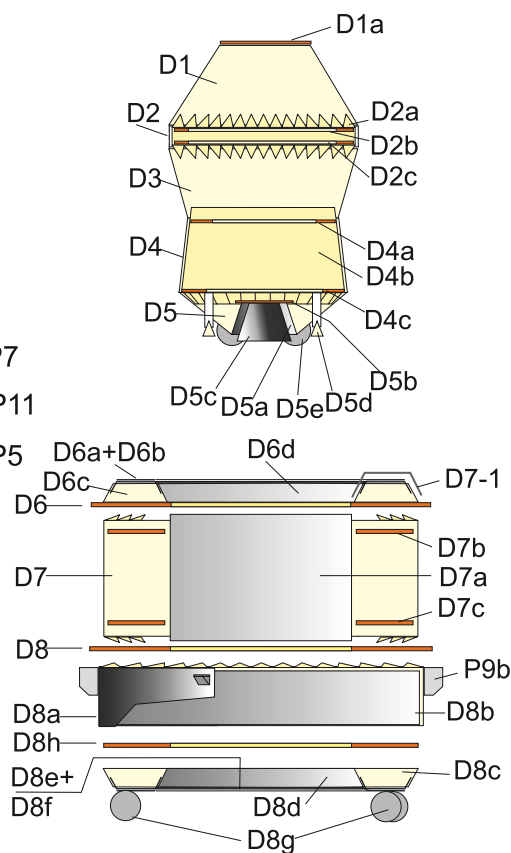


### Glue Fairing:

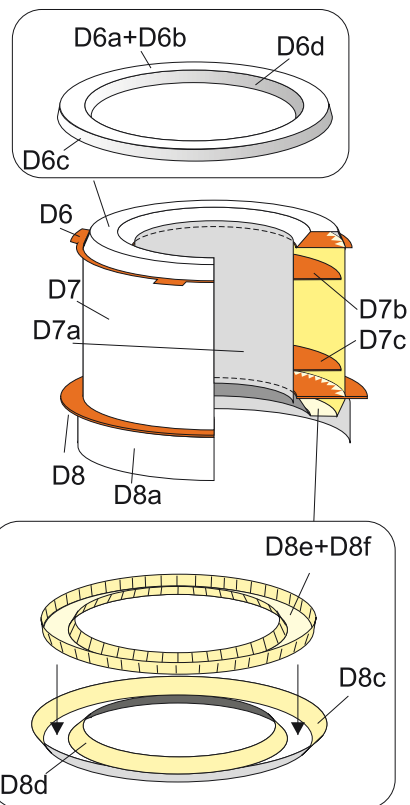
- 1- glue cylinder P5 with parts P7, P11
- 2 - glue nose cone (parts P1 - P4)
- 3 - glue P5 and nose cone
- 4 - glue the rest of small parts on its places.

### Glue Breeze M:

- 4 - glue cylinder D2 by connector D2a, insert parts D2b, D2c
- 5 - glue cone D1 onto D2, glue D1a
- 6 - glue cone D3 onto D2
- 7 - glue cone D3 by D4b, insert D4a and D4c
- 8 - glue cone D5a into cone D5, glue D5b
- 9 - glue D5 and D4
- 10 - glue D4 and D3
- 11 - glue D5a, D5d and D5e.



### Assembling of Fairing and stage D - space tug Breeze M



### Glue additional Fuel Tank (steps 1 - 6)

