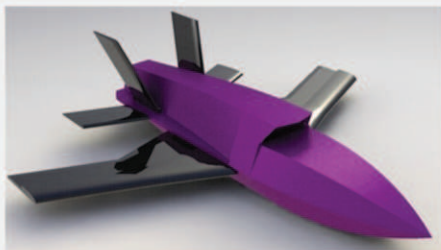


# EADS Barracuda EDF Foamie



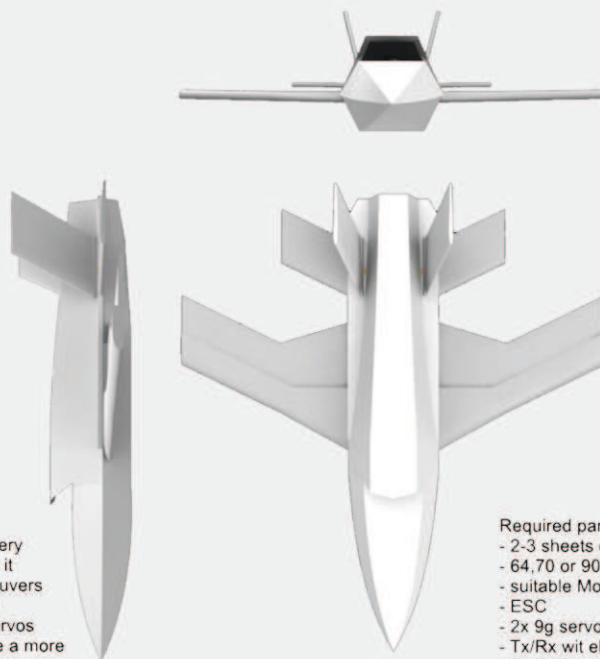
## Data:

Wingspan: 76cm  
 Length: 81cm  
 Weight: up to 800g  
 Suited for 64mm, 70mm or 90mm EDF  
 CG: 5cm - 6.5cm from leading edge (at the root of the wing)

Hi, this is my Barracuda EDF jet. It was built from 8mm EPP foam, but most other foams will surely work as well (6mm might work too). It has proven to be a very nice and stable flyer with good speed and is easier to land than most EDFs. I built it with a 64mm fan which works really well; handlaunches, climbing and basic maneuvers are no problem. Thanks to the fat fuselage there is however enough space to put in a 70mm or even 90mm EDF and basically any battery it can carry. I used two servos controlling 4 control-surfaces and mixed them as elevons. F-16-style tailerons are a more elegant alternative but a bit harder to build.

The build should be rather easy, but you have to make a lot of 30° bevel cuts, since the fuselage is hexagonal. This Instruction shows my build step by step and the notes describe how I build the plane.

Please tell me about any problems or mistakes in the plans (rcgroups ID: SGU7)



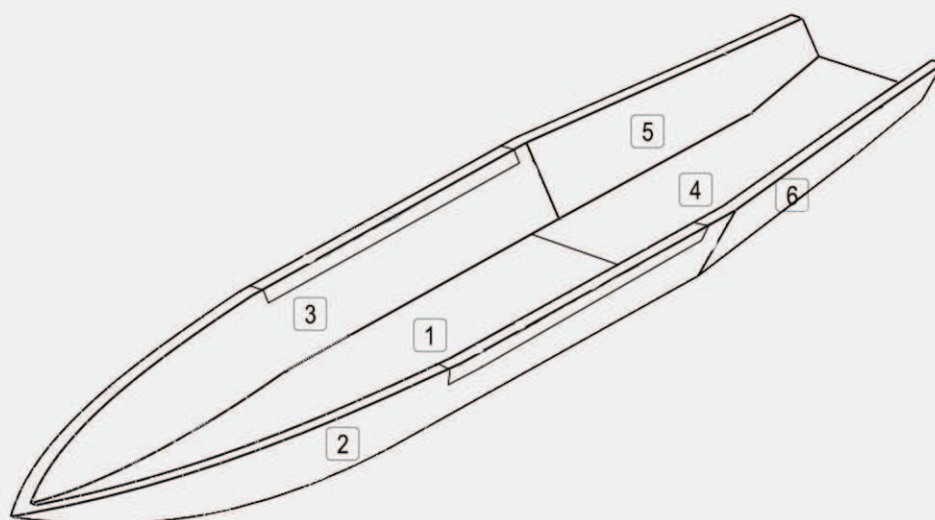
## Required parts:

- 2-3 sheets of foam (8mm)
- 64, 70 or 90mm EDF
- suitable Motor
- ESC
- 2x 9g servo
- Tx/Rx with elevon mixer
- A plastic cup, 2 Pet bottles

## Tools:

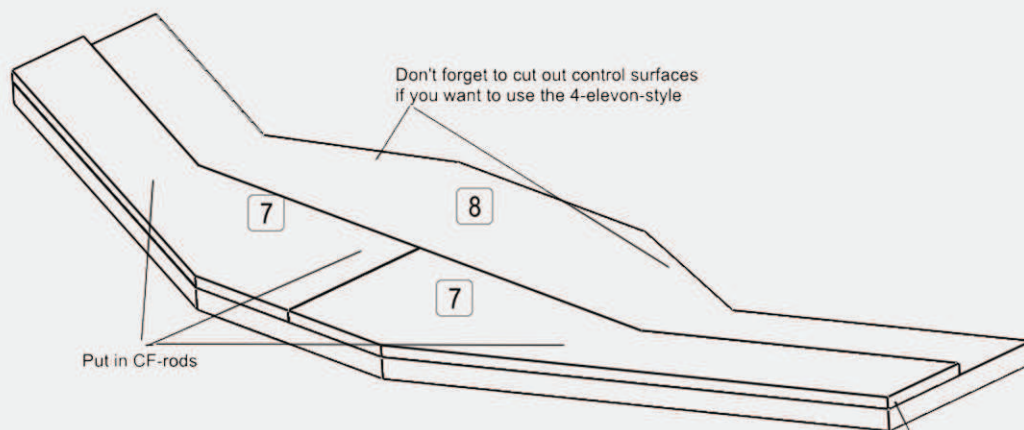
- Carpet cutter knife or hot wire cutter
- Tape, strapping- and covering-
- Glue (e.g. UHU por)
- Sanding paper

1



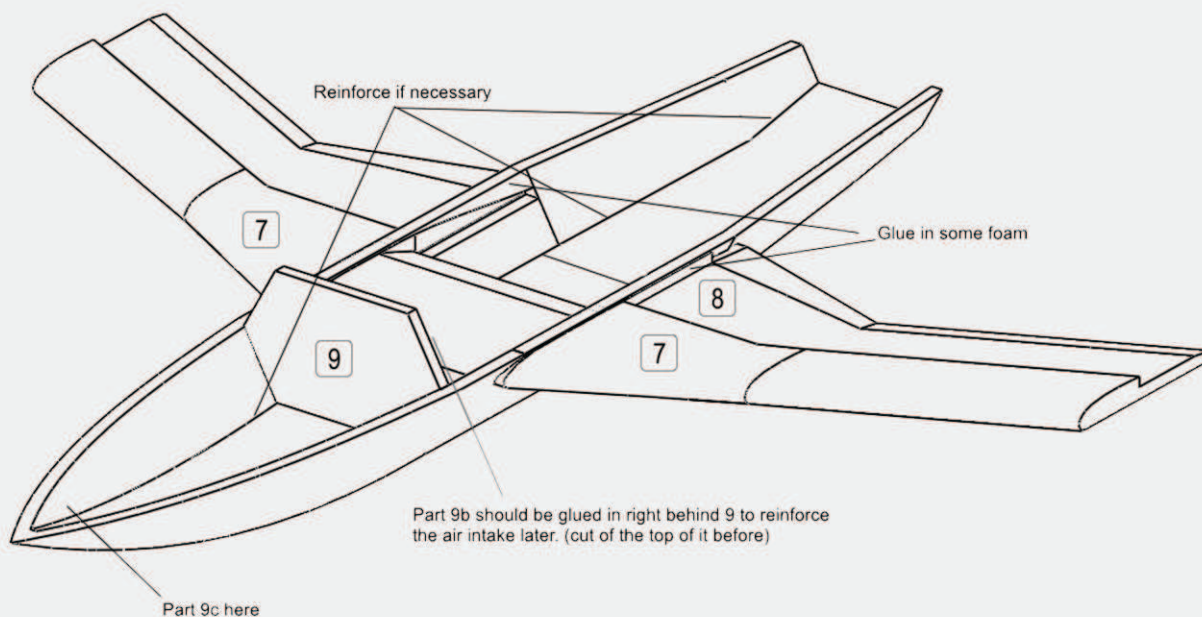
Start glueing from the tip

2



Finish wing profile by using a carpet cutter and sanding paper (reinforce and cover it with tape if you want to)

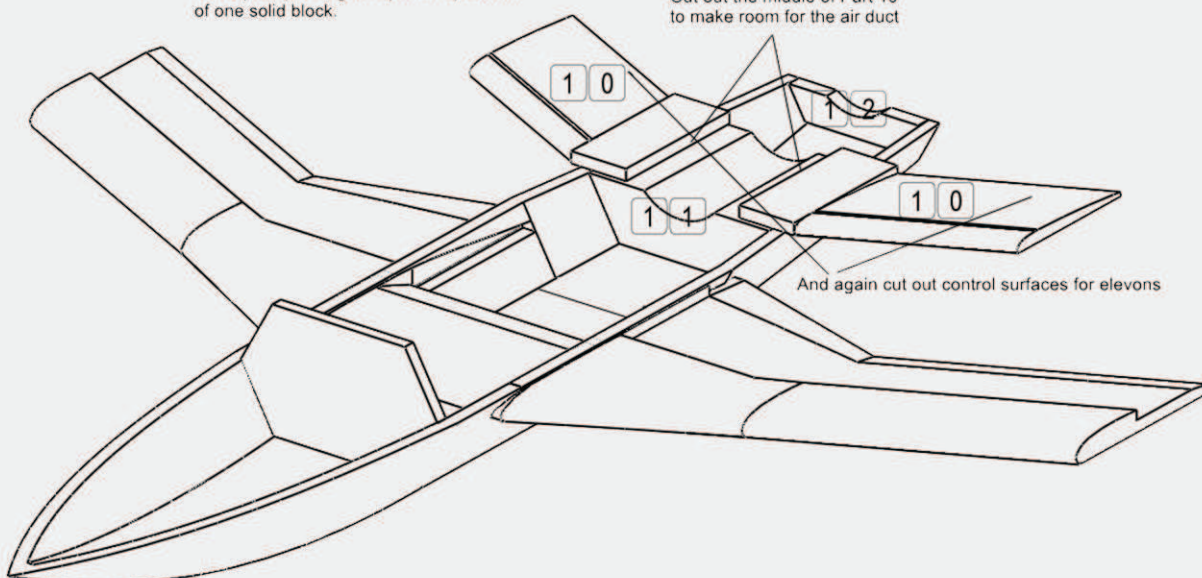
3



Part 11 can be made of styrofoam. You can also use several of the profiles in the plan (starting with part 11b) instead of one solid block.

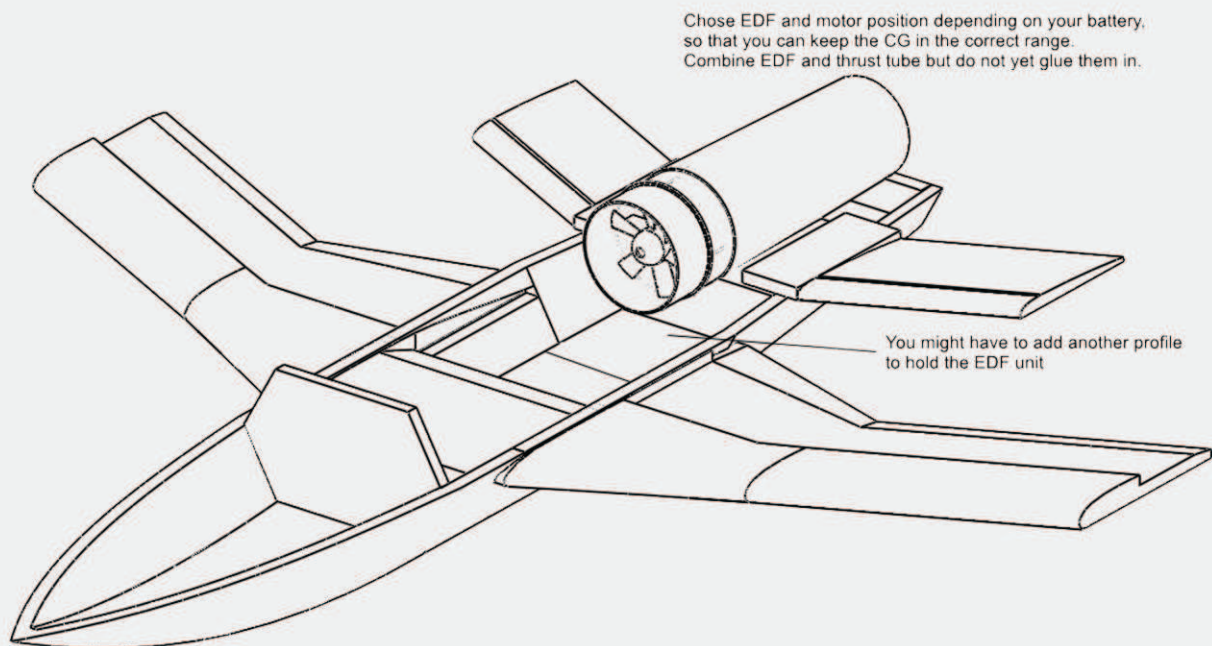
Cut out the middle of Part 10 to make room for the air duct

4



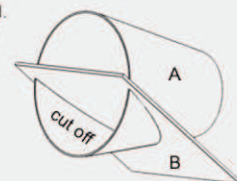


5

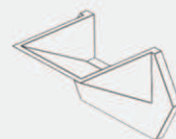
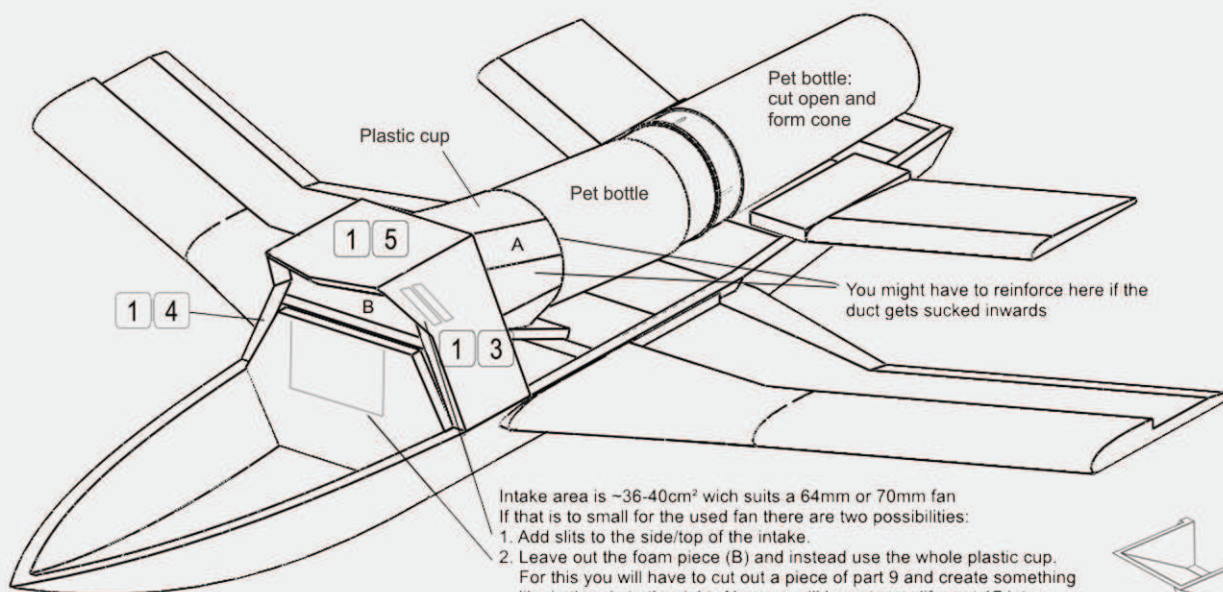


Suggestion on how to build the air duct out of 2 Pet bottles and a plastic cup:

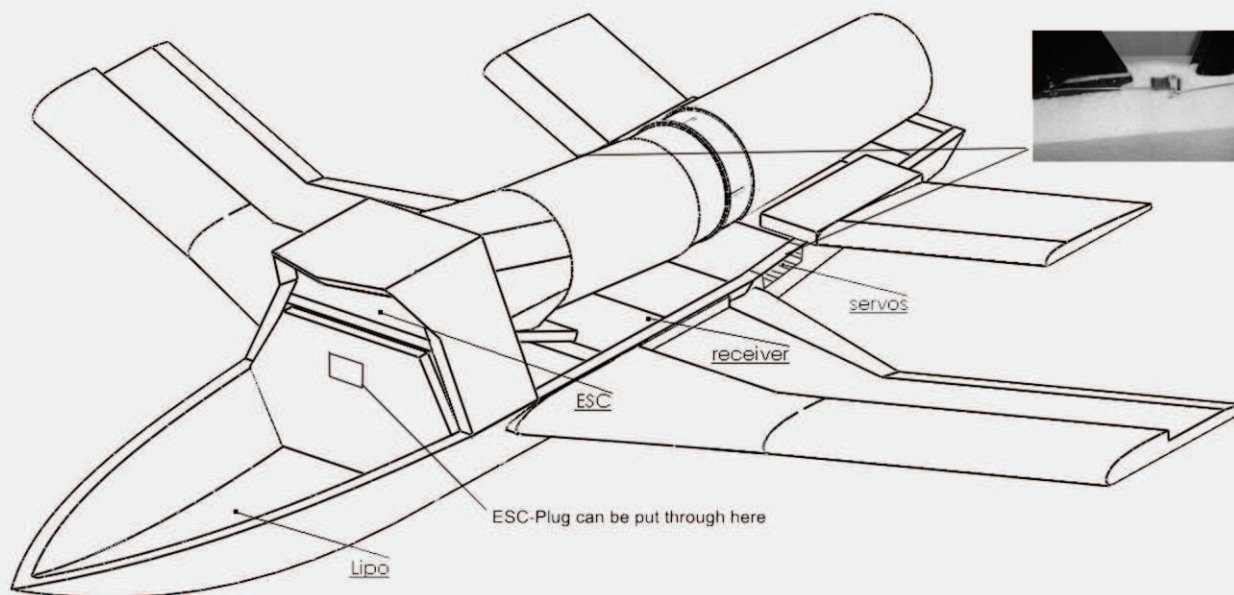
1. Put together parts 13,14 and 15 but don't attach them to the rest of the plane yet.
2. Cut off the reinforced edge of the plastic cup (A) and trim it to the length you need.
3. Cut the lower part of the cup, and glue in a piece of foam(B) as seen in the pic -> that piece of foam can also be used to house the ESC.
4. Glue A/B into the assembled parts 13,14,15 and press the plastic cup into the angles as good as possible.
5. Glue the whole thing to the fuselage.
6. Use tape to attach the parts of the air duct and the EDF to each other.
7. Glue it all to the fuselage. You should still be able to lift the combined air duct enough to put glue under it.



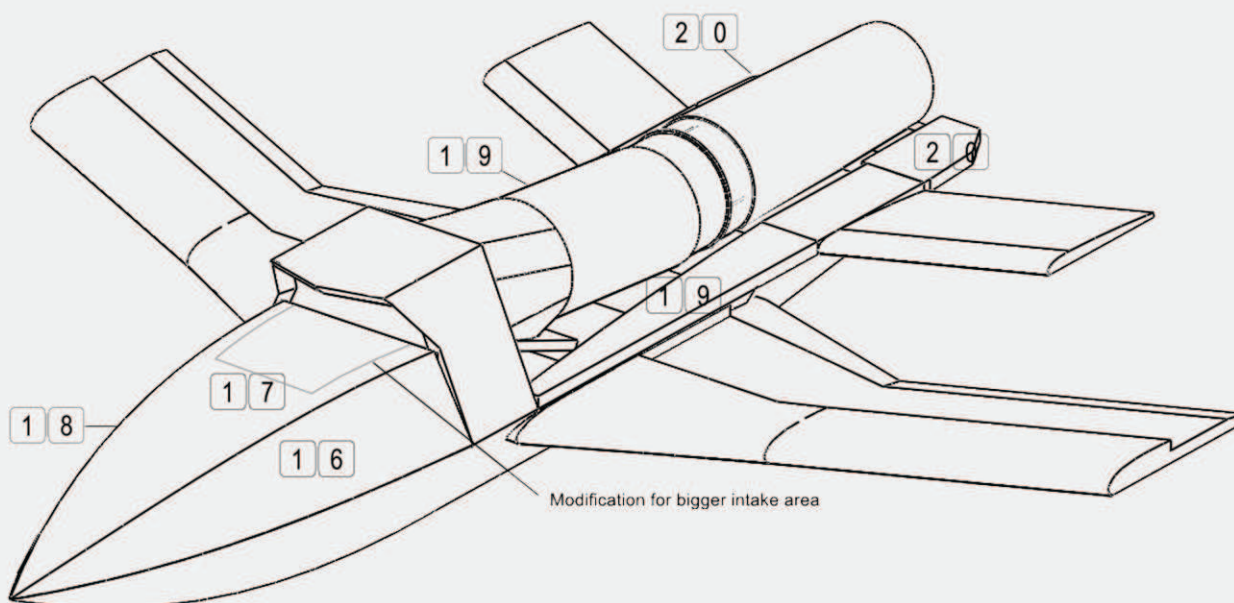
6



7

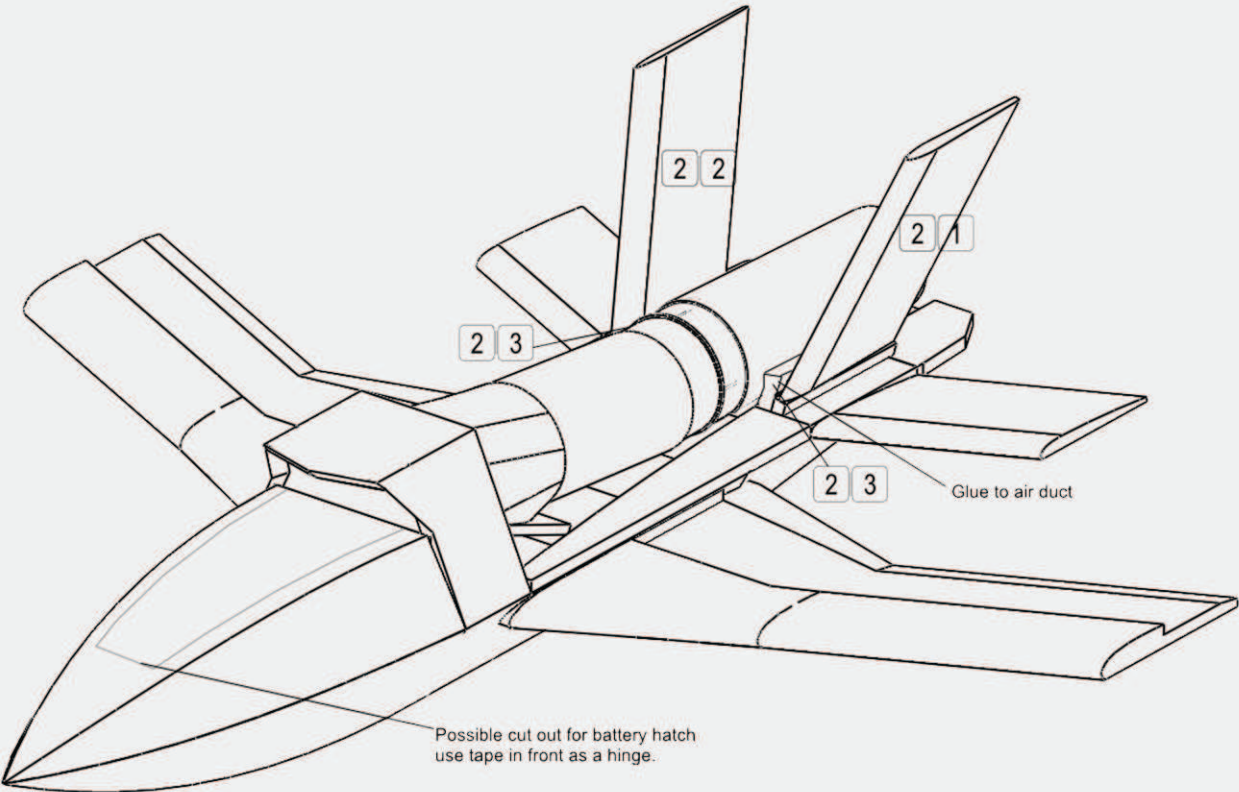


8





9



The Barracuda should be stable enough without the air duct covering parts (24,25,26) so only use a little glue for them, so you can take them off if there is something to repair.

If the air duct is to big, shorten parts 24,25,26 and cover exhaust seperately

10

