



Grumman

F11F-1 Tiger

& F-11F-1F Super Tiger

The F11F-1 was originally planned as a derivative of the F9F-6 Cougar in the year 1952, the idea was to make the Cougar supersonic by means of modified wings. But the changes made until 1953 were so big, that there was technically no more resemblance at all. The Tiger's wing was much narrower in its section and had a lot of changes on Ailerons and spoilers. While the wings of other planes were folded up or to the back, the wing

tips of the Tiger were folded downwards. Another unique feature of the Tiger was a fuel tank in its Horizontal Stabilizer. The prototype flew first on July the 30th 1954 and almost reached Mach 1, but it didn't have any afterburner yet. The second prototype had an afterburner and supersonic capabilities. This made the F11F-1 the second U.S.Navy Aircraft capable of flying faster than the speed of sound, second only to the F4D Skyray. In 1955 the plane was officially named F11F-1.

The F11F-1 only played a minor role in active duty. It was introduced into service in 1957 and was used only until 1959, never flying any actual combat missions. Even though it was more agile and had better handling than the F8J

Crusader which entered Service soon after it, the Tiger was not as fast, had a shorter combat range and could carry less weaponry. Another big issue was the J65 Engine which was not very reliable.

After the F11F-1 had been phased out of active operations it was still used by the Advanced Training unit in South-Texas until the end of the 1960's. There it was used at the end of the flight student's training, to let the students get used to supersonic characteristics, before they enter Active Units.

Even though it was never flown in a combat mission, the F11F-1 still became famous for shooting down a plane: On September 21st 1956, Grumman Test-pilot Tom Attridge was conducting Weapon tests on an F11F-1, when he

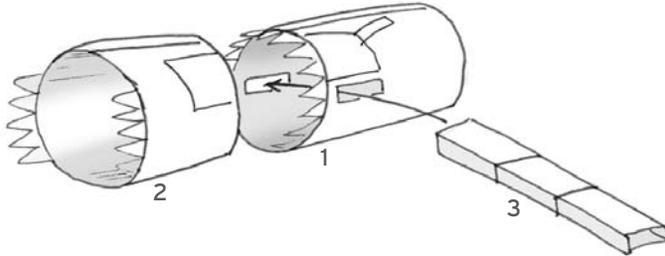
fired its 20mm cannons during a shallow dive. The plane caught up to its bullets and was damaged so badly, that Attridge had to crash land. Hence the Tiger became known as the first Jet Fighter to shoot itself down, as "the Tiger that bit its tail". On July 18th 1958 a F11F-1 surpassed the world height record two times in only three days, with final height of 76.939ft or 23.451m. In 1959 the Tiger was also the first Plane ever to fire an AIM-9 "Sidewinder" missile in one of the Advanced Training units.

Grumman created an upgraded version under the designation F11F-1F Super Tiger, which had bigger air intakes, a stronger Engine, improved avionics and higher payload. In 1956, two regular Tigers were converted to that standard.

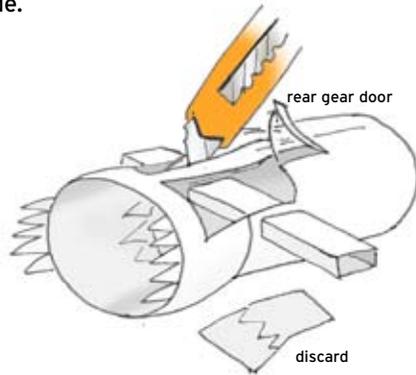
One of them reached a velocity of Mach 2.04 and a height of 80.250ft or 24.466m. Since the U.S. Navy didn't order mass production, the Super Tiger was advertised to Air Forces of Allied Nations like Canada, West-Germany and Japan. But due to the Lockheed bribery scandal, those nations bought the F-104 Starfighter which was more expensive and inferior to the Super Tiger in many ways.

The F11F-1 Tiger became most famous as the plane of the Blue Angels. The U.S.Navy acrobatic team adopted Tigers in 1957 and flew them for twelve years, until long after the Tiger had retired from active duty. The Blue Angels flew the short-nosed version first and later converted to the long-nosed version. While using the Tiger, the Blue Angels introduced the Delta-Formation with 6 aircraft and toured Europe for the first times in 1965 and 1967. During that time the paint scheme the Blue Angels use until today was invented.

1. Glue together the two main fuselage parts. then push the wing stabilizer through the hole in the main part. Make sure to form the body so the line on the stabilizer is aligned with the fuselage wall.

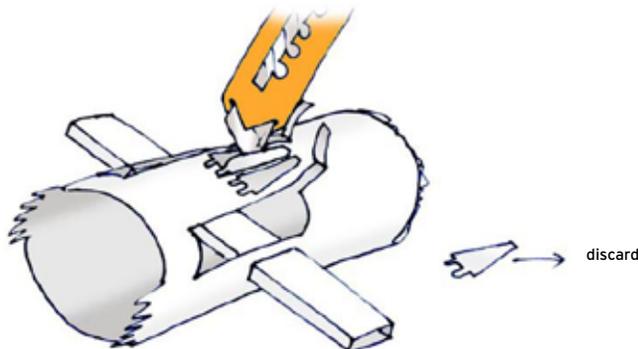


2. use a cutter to cut out the main gear doors. For the rear door, cut in the long sides and score the narrow side.

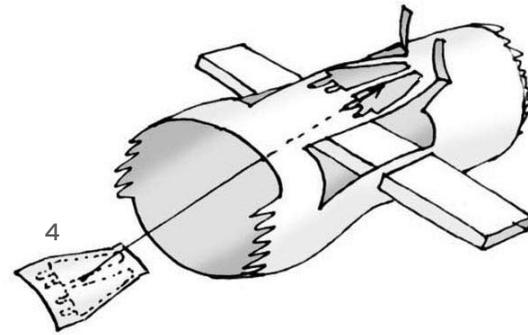


If you want to build the F11F without landing gear down, ignore this step

3. If you want to build the belly speedbrakes open, cut them open, otherwise jump to 5.

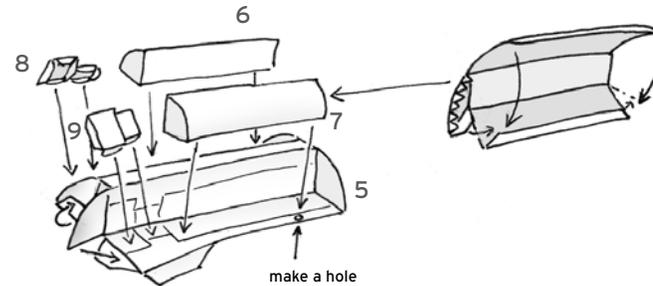


4. Glue the inner plate of the speedbrakes under the two holes.

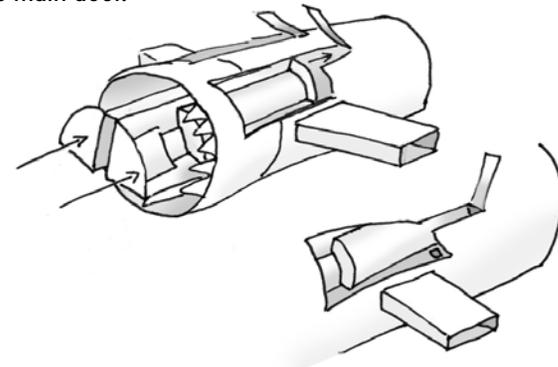


If you want to build the F11F without landing gear down, jump to 7

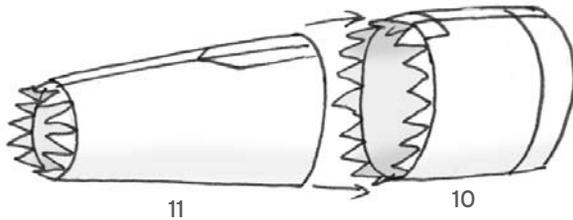
5. Assemble the wheel well and build in the detail.



6. Insert the landing gear shaft into the fuselage. make sure to align it, so the hole is under the rear end of the main door.

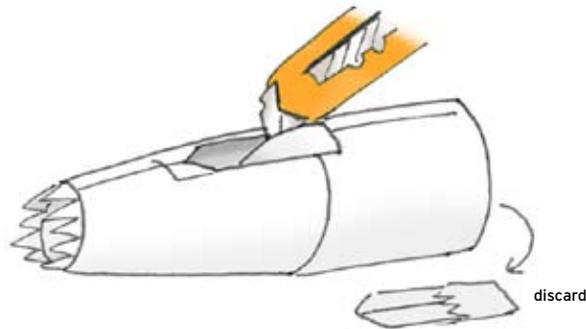


7. Assemble the two main parts of the front fuselage.

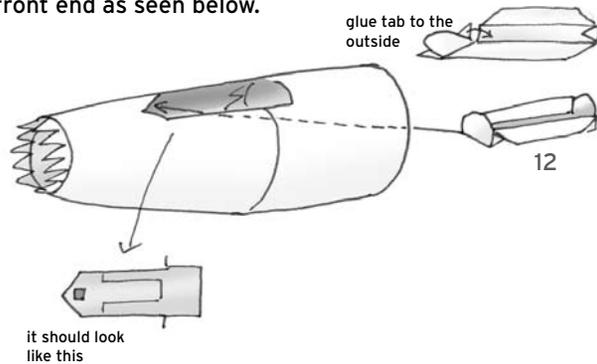


If you want to build the F11F without landing gear down, jump to 10

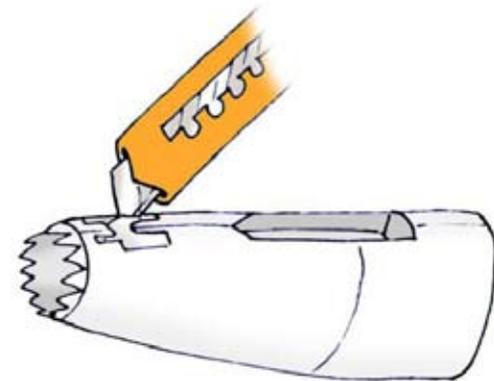
8. Cut out the front landing gear shaft



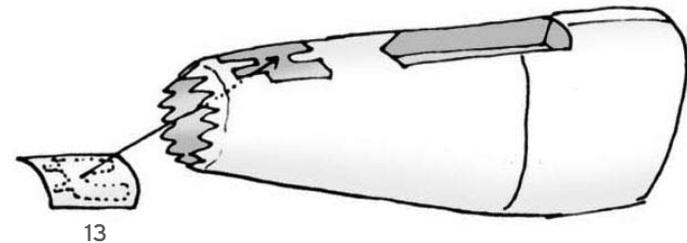
9. Assemble the front landing gear shaft, make a hole in the marked position, then glue the shaft into the front fuselage. make sure the hole is near the front end as seen below.



10. If you want to build the nose speedbrake open, cut it open, otherwise jump to 12.



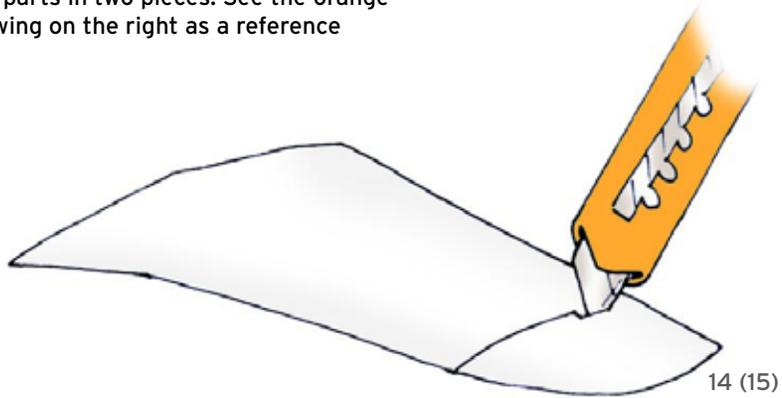
11. Glue the inner plate under the hole.



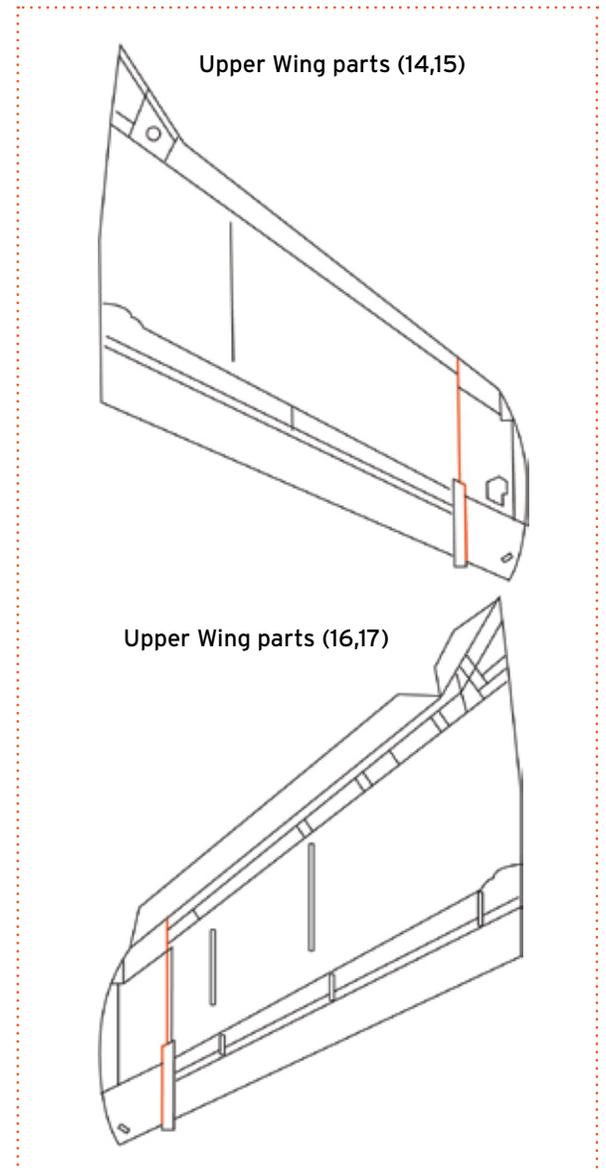
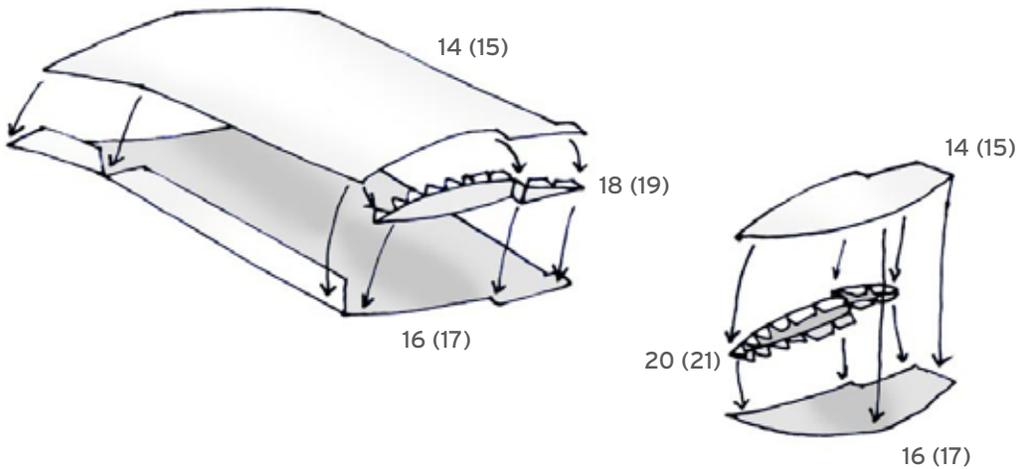
Folded Wings

If you don't build folded wings, continue to 14

12. Cut the wing parts in two pieces. See the orange lines on the drawing on the right as a reference



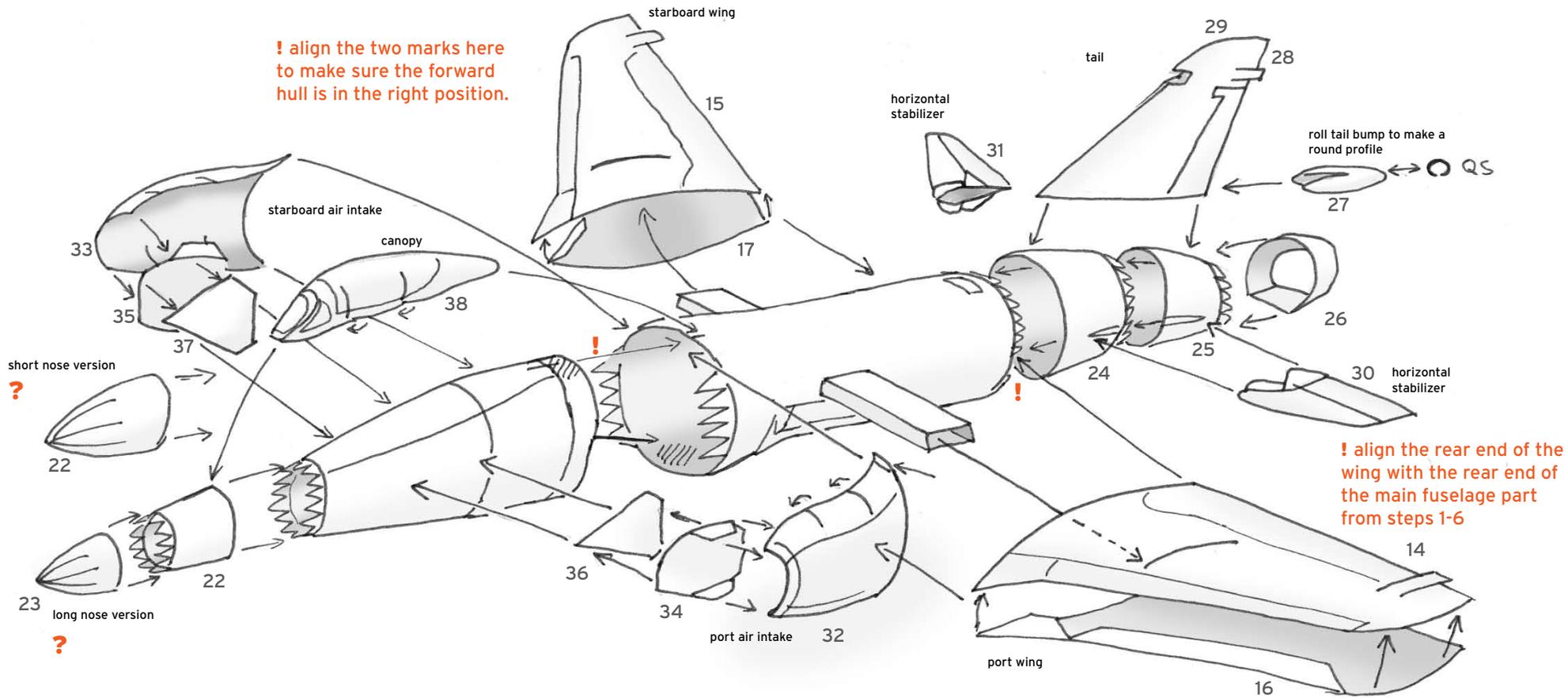
13. Glue the wing fold walls to the edges of all wing parts and the upper and lower wing parts together



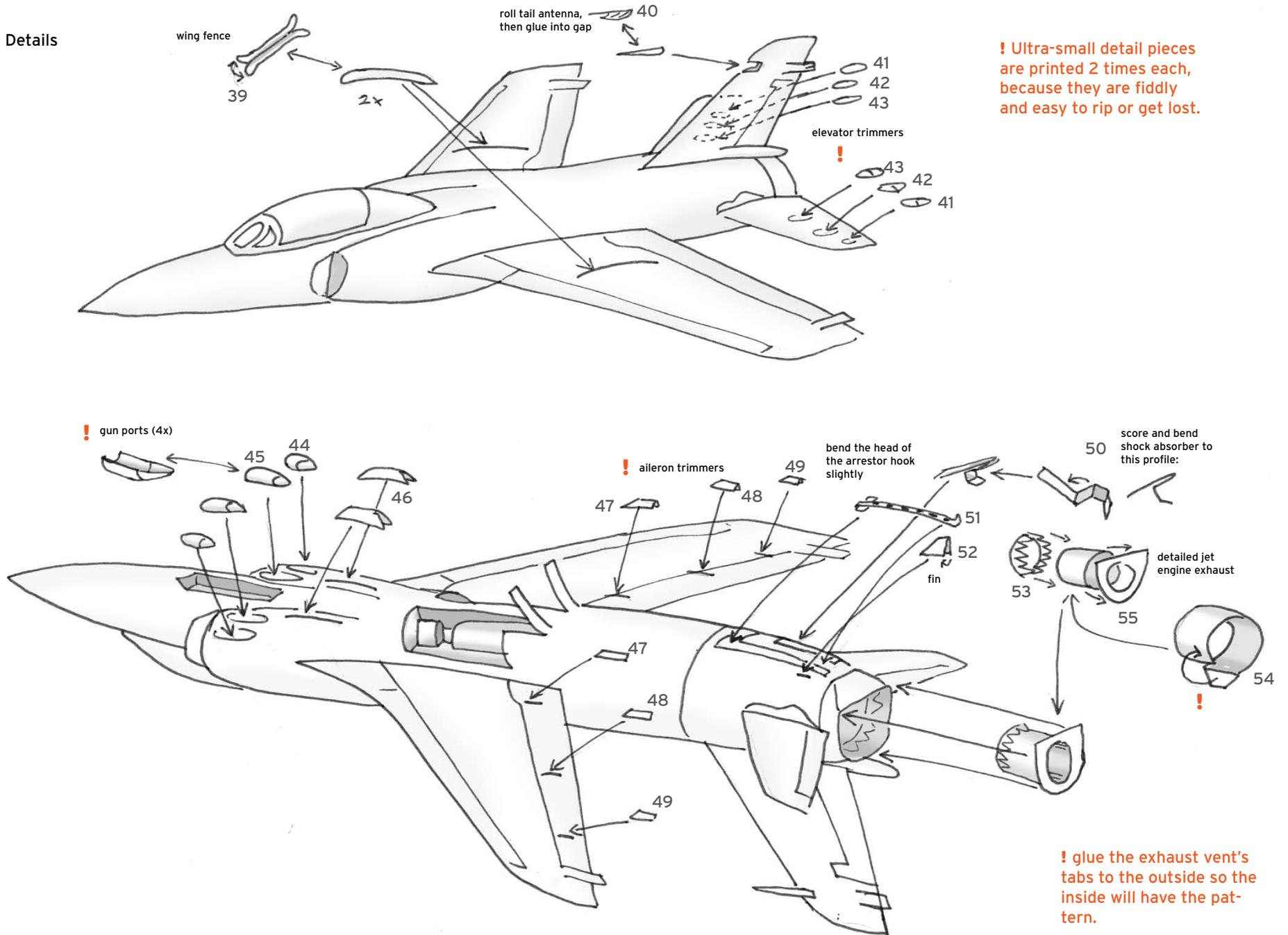
Short nose and long nose F11F-1 only!

If you are building the Super Tiger, continue with step 16

14. Main assembly



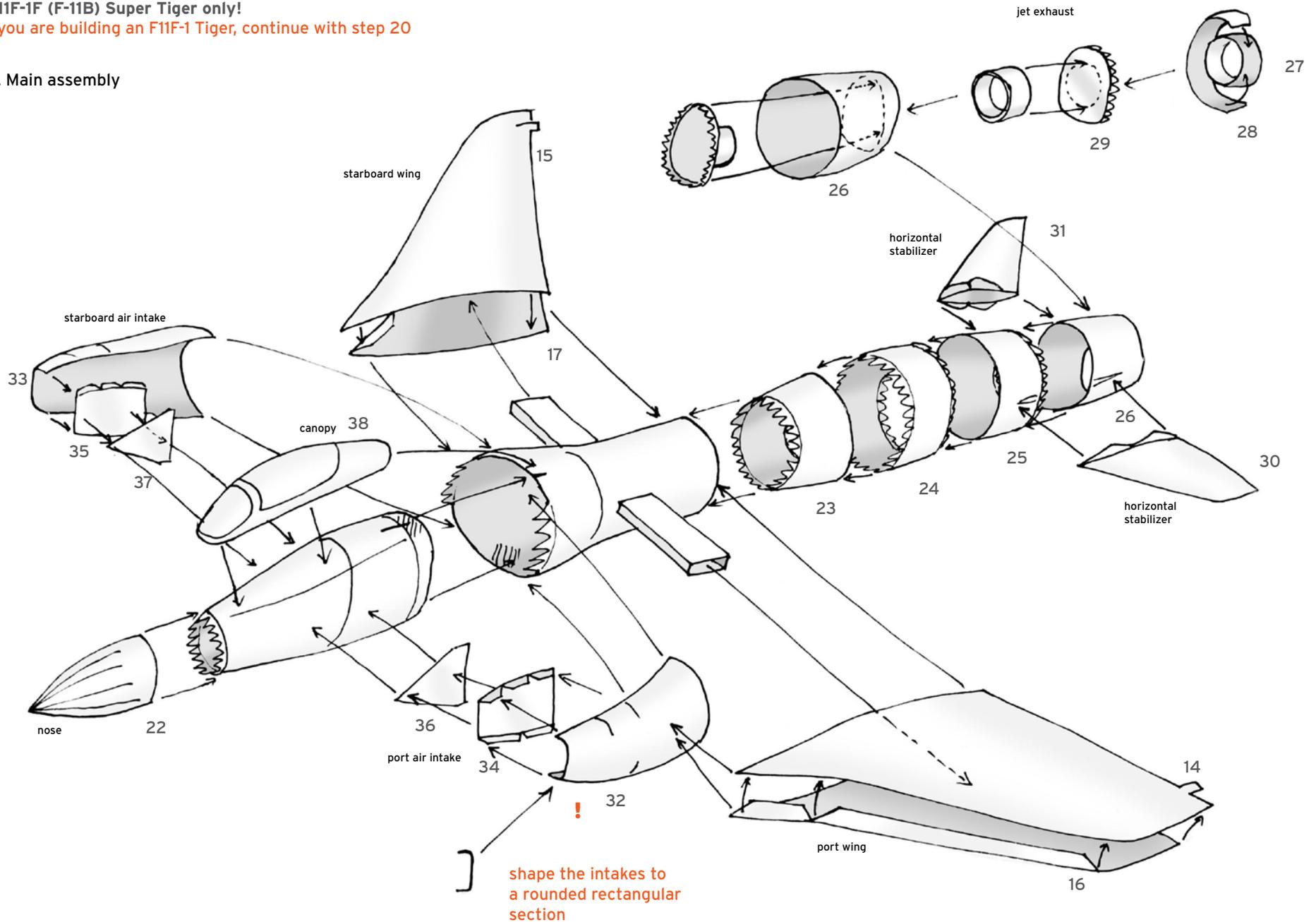
15. Details



F-11F-1F (F-11B) Super Tiger only!

If you are building an F11F-1 Tiger, continue with step 20

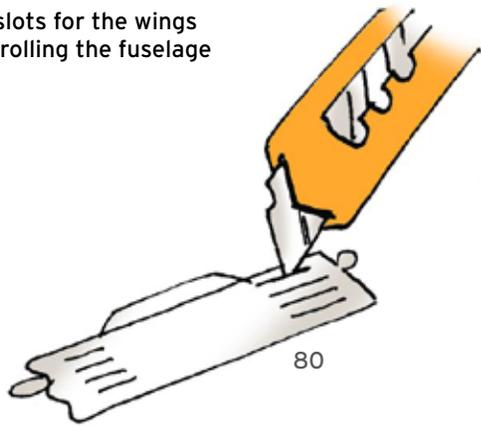
16. Main assembly



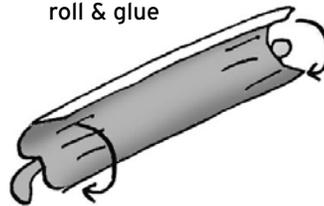
The F-11F-1 (F-11B) Super Tiger includes AIM-9B Sidewinder missiles.
They are optional. Here is how to build them:

17. Sidewinder missiles

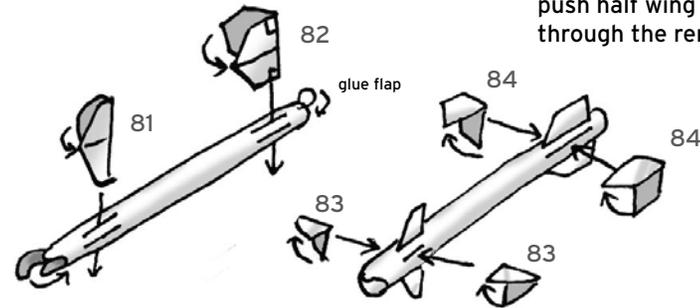
Cut in slots for the wings
before rolling the fuselage



roll & glue

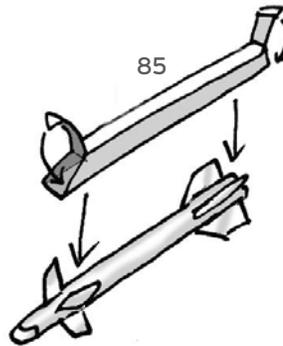


push wing parts
through the slots



push half wing parts
through the remaining slots

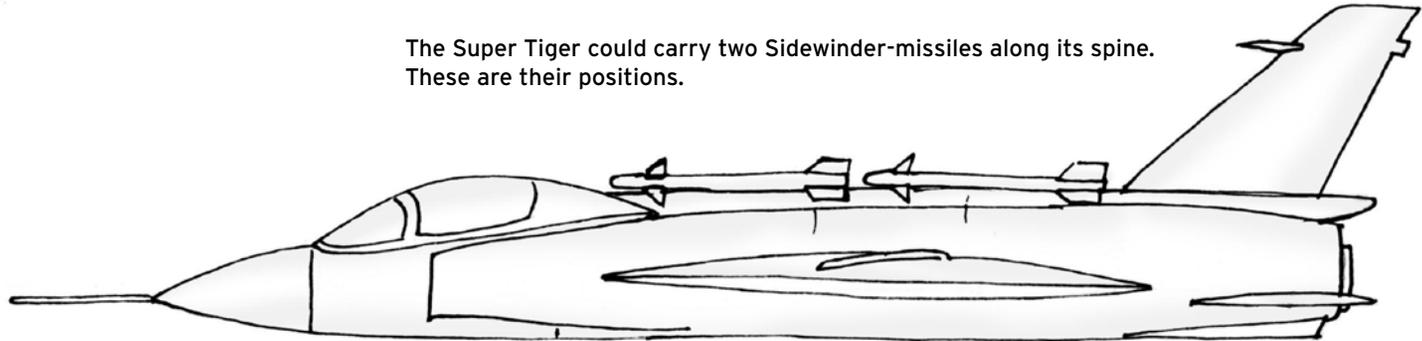
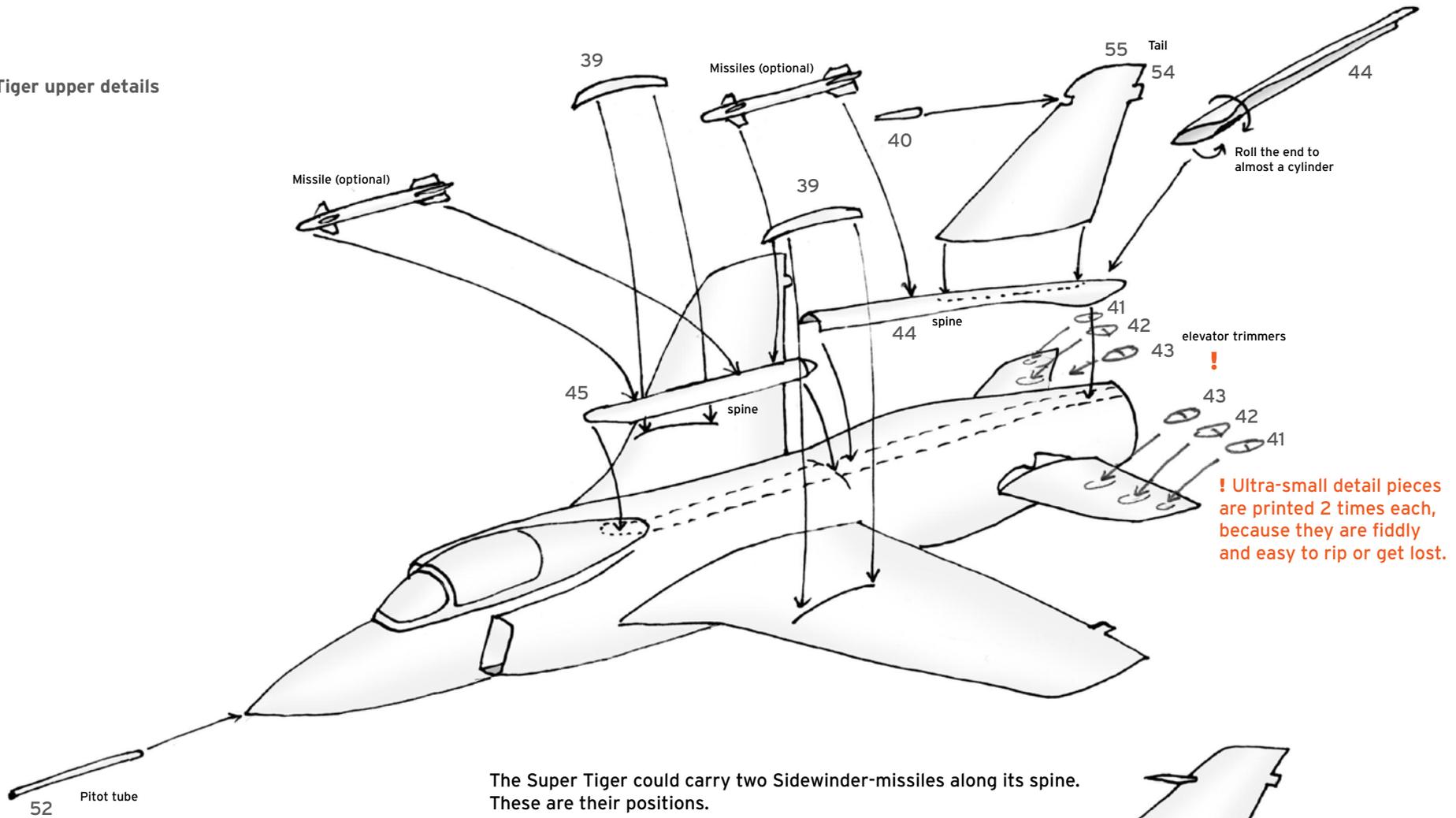
85



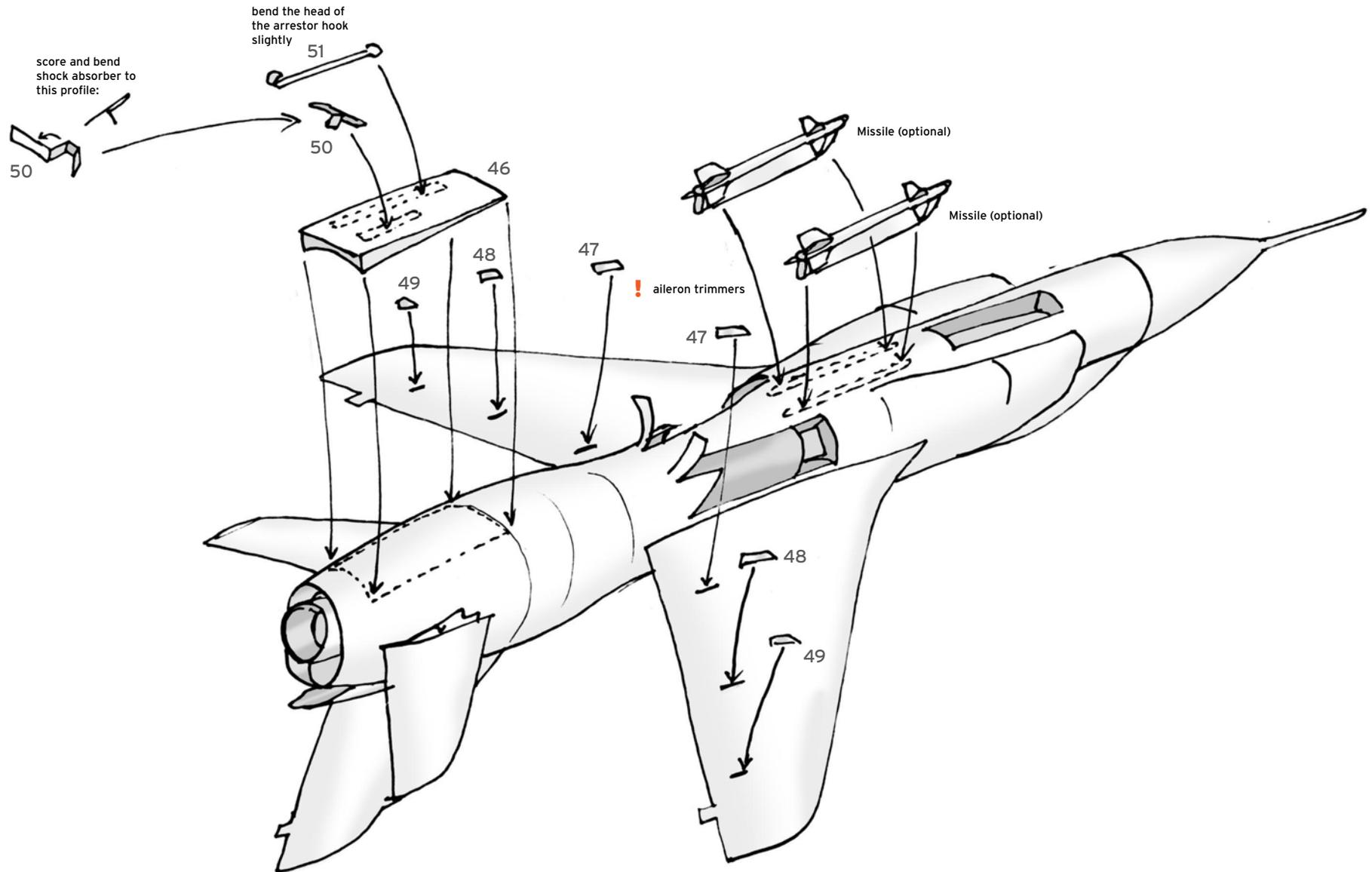
Glue on the launchers

The launcher is not required for the two mis-
siles carried on the spine (see step 18)

18. Super Tiger upper details



18. Super Tiger lower details



19. Super Tiger Ventral Fins (Optional)

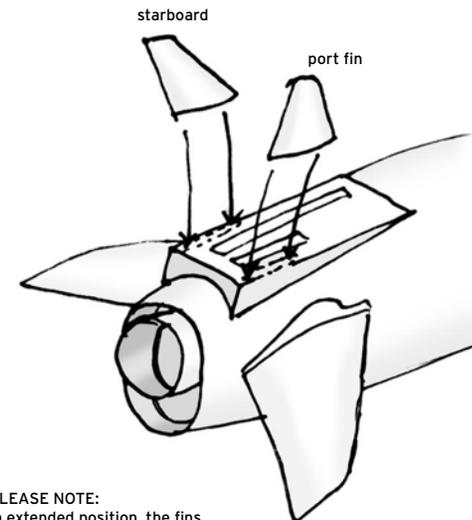
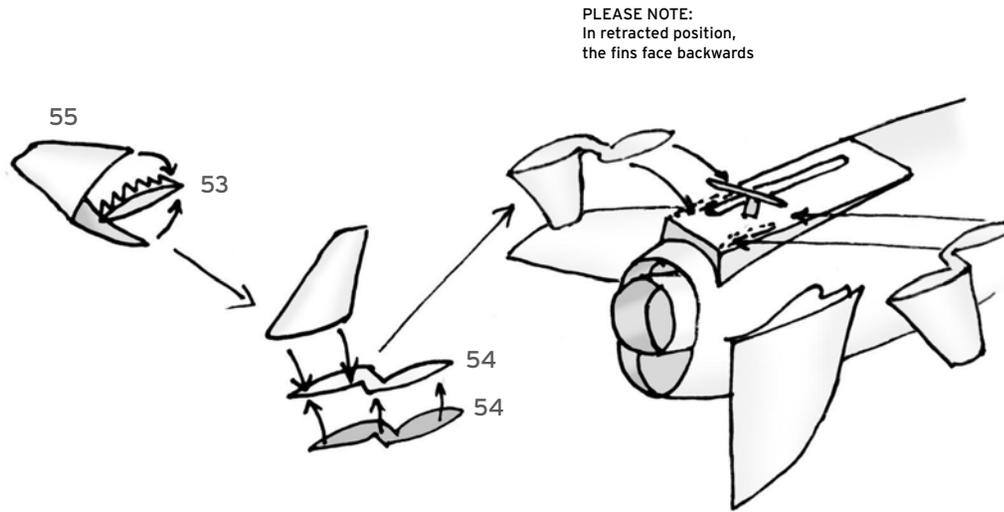
The Super Tiger's first prototype was fitted with these ventral fins for some time. They were retracted for landings, but a test pilot forgot to do so, which led to their demise. After they were torn off, it turned out the flight characteristics did not grow worse, so the idea was abandoned.

They are included in that particular prototype's version of this kit for authenticity and the "operational" Super Tiger-versions for coolness.

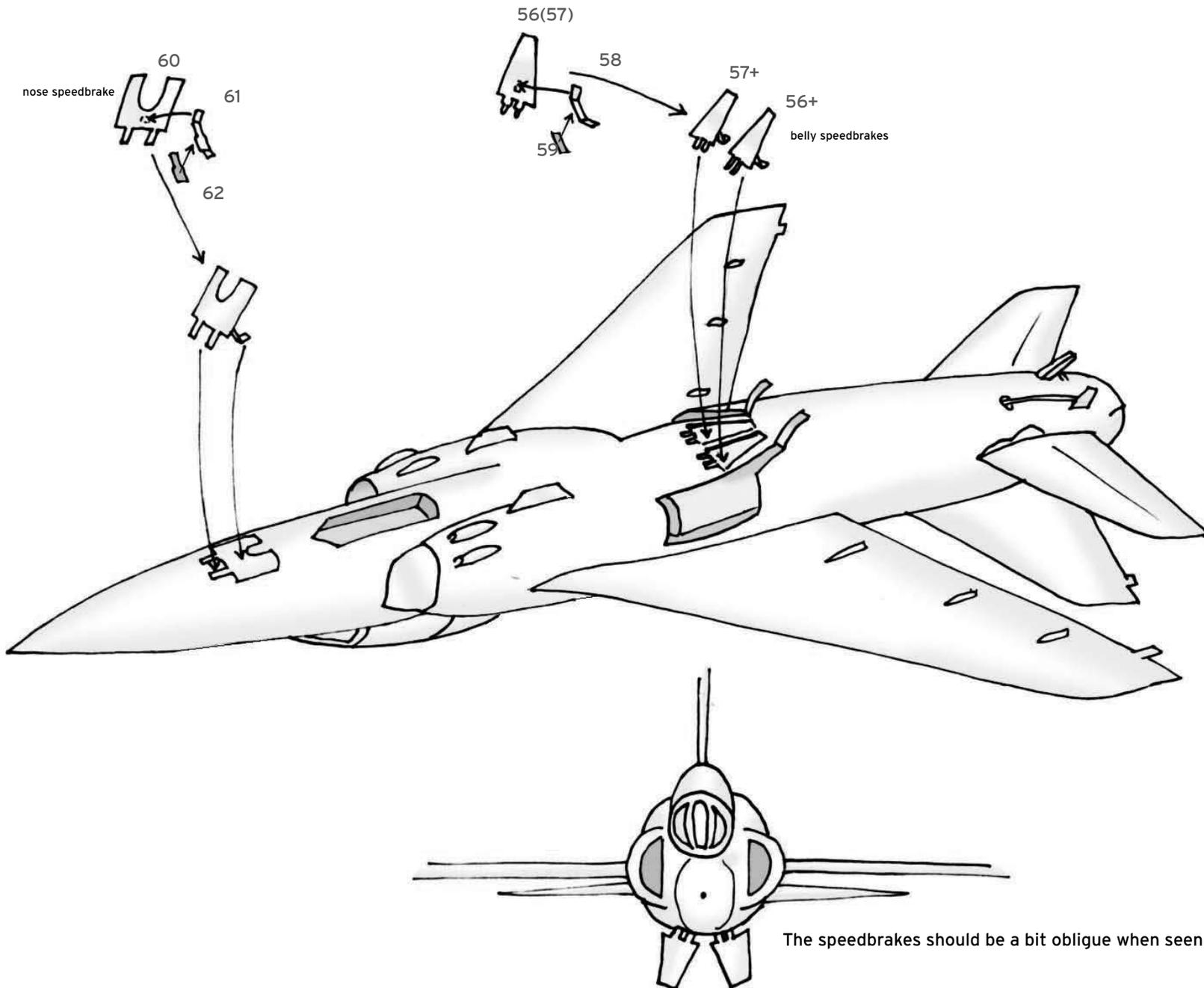


retracted ventral fins
(when landing gear is down)

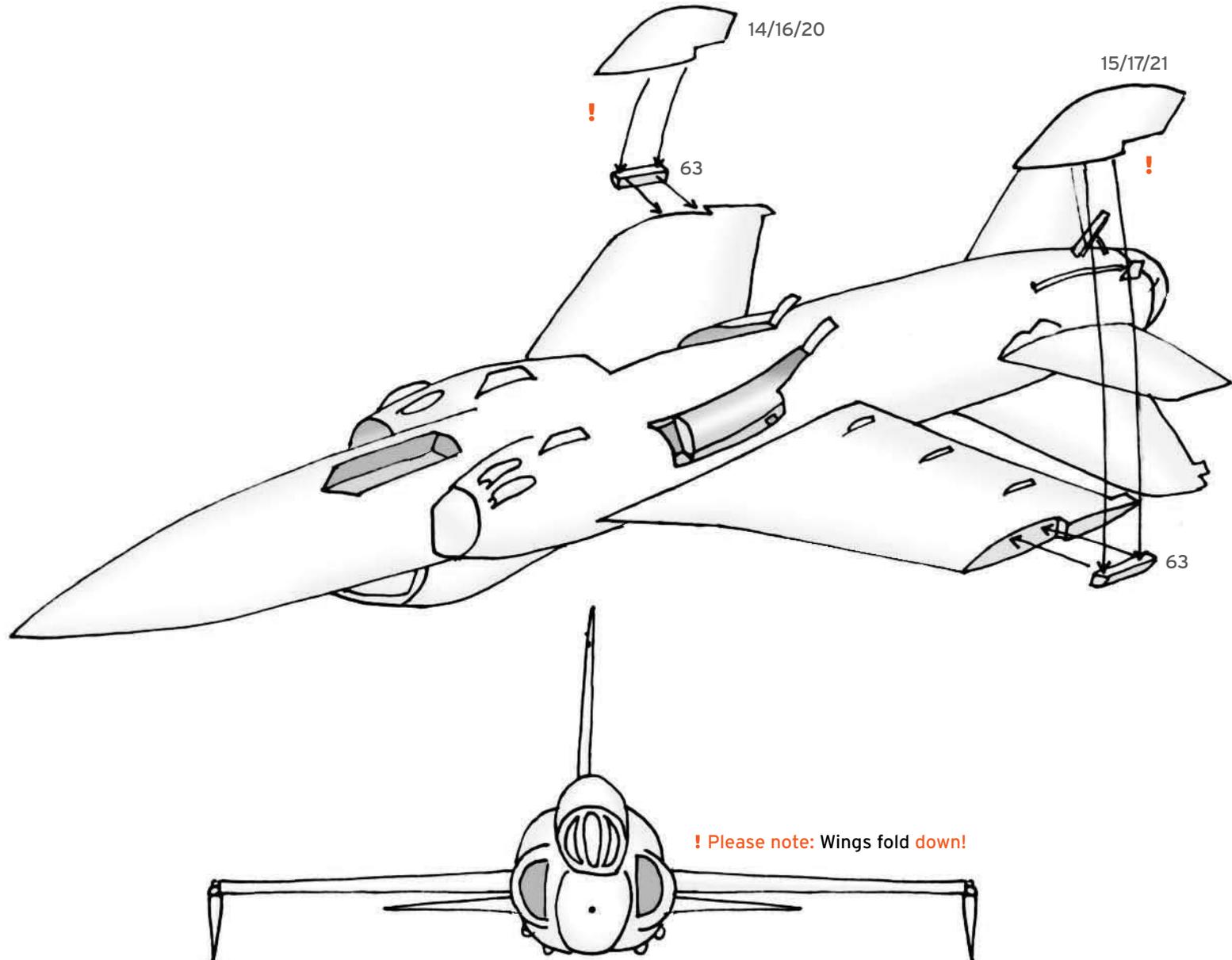
extended ventral fins
(when landing gear is up)



20. Speedbrake installation. Ignore if not building extended speedbrakes.



20. Folded wing tip installation. Ignore if not building folded wings.



10. Landing gears

Ignore this part when you don't build landing gears.

