Assemble the Tail Fin

Issue 89

In this issue we will use parts from previous issues to assemble the tail fins.

Tools Needed

The following tools and materials are required to assemble this issue. Prepare them before starting work.

- ☐ **Scissors** — For cutting parts.
- ☐ **Screwdriver** — Included in Issue 1.
- ☐ **ABS Cement** — For joining ABS parts.
- ☐ **Universal Adhesive** — For joining metal parts.
- ☐ **Modeling Nippers** — For removing parts from the model sprues.

Check!

Be sure to check the assembly video for detailed demonstrations.

Explanation of Symbols

- Indicates where to attach included screws.
- Indicates when to use adhesive. The correct adhesive will be indicated for each instance.
- Cautions and Prohibitions.
- Key points for using tools and techniques.

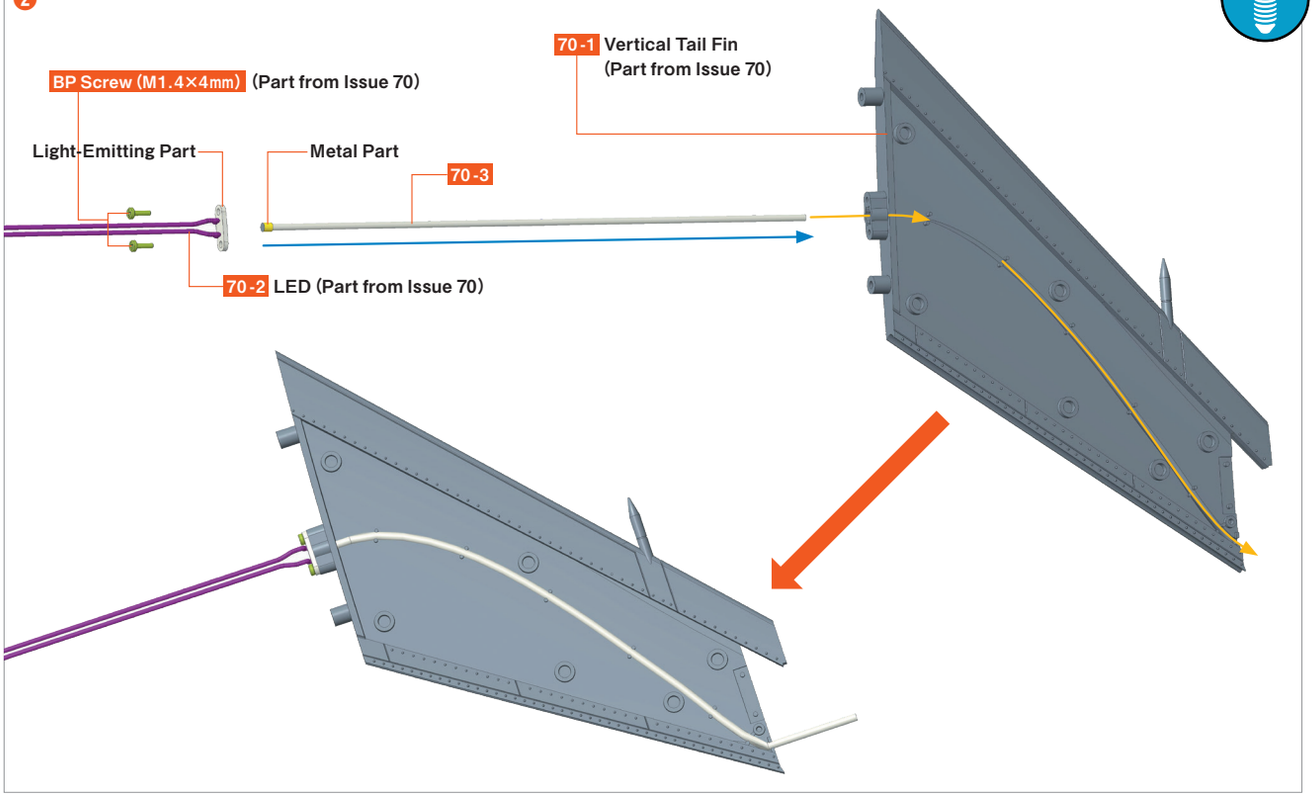
1 Assemble the Tail Fin

❶

Make sure to cut **70-3** so that the cut surface is not slanted.

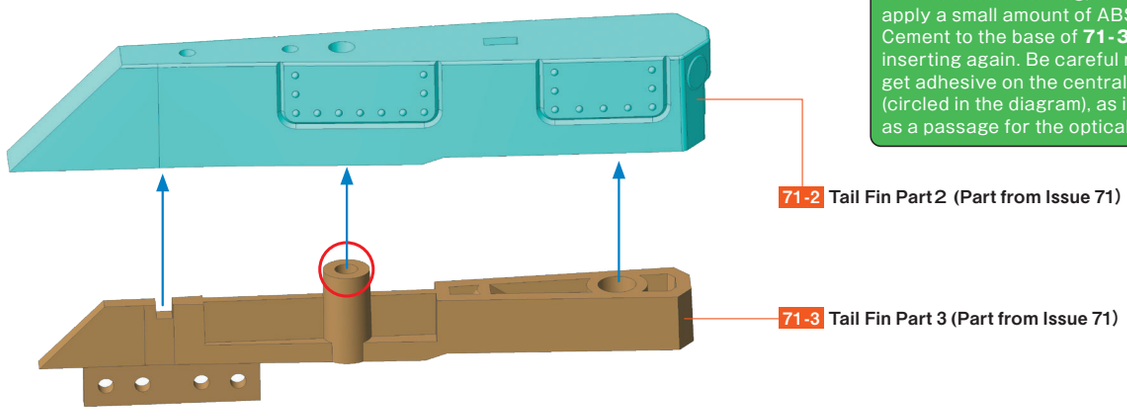
70-3 Cut the designated part of the **Optical Fiber (Part from Issue 70)** vertically with scissors.

❷



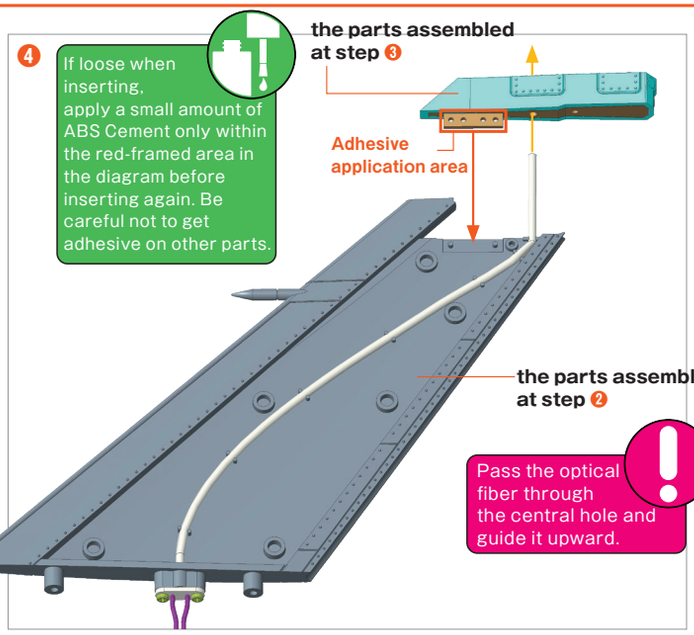
Insert the non-metallic side of **70-3** into the designated position of **70-1 Vertical Tail Fin (Part from Issue 70)** and lay it along the groove of **70-1** as shown. Once **70-3** is fully inserted, set **70-2 LED (Part from Issue 70)** in the designated position and secure it in two places using **BP screws (M1.4×4mm) (Part from Issue 70)** as shown.

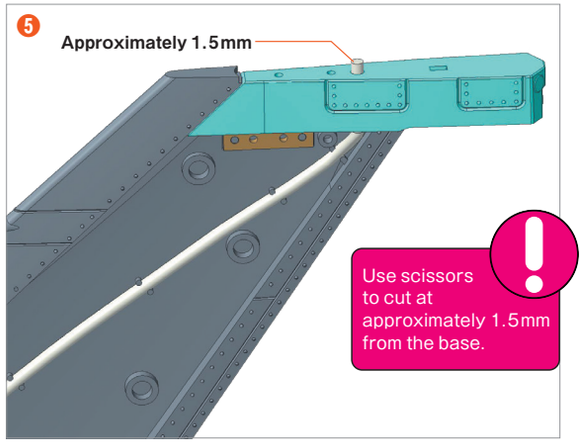
❸



If loose when inserting, apply a small amount of ABS Cement to the base of **71-3** before inserting again. Be careful not to get adhesive on the central hole (circled in the diagram), as it serves as a passage for the optical fiber.

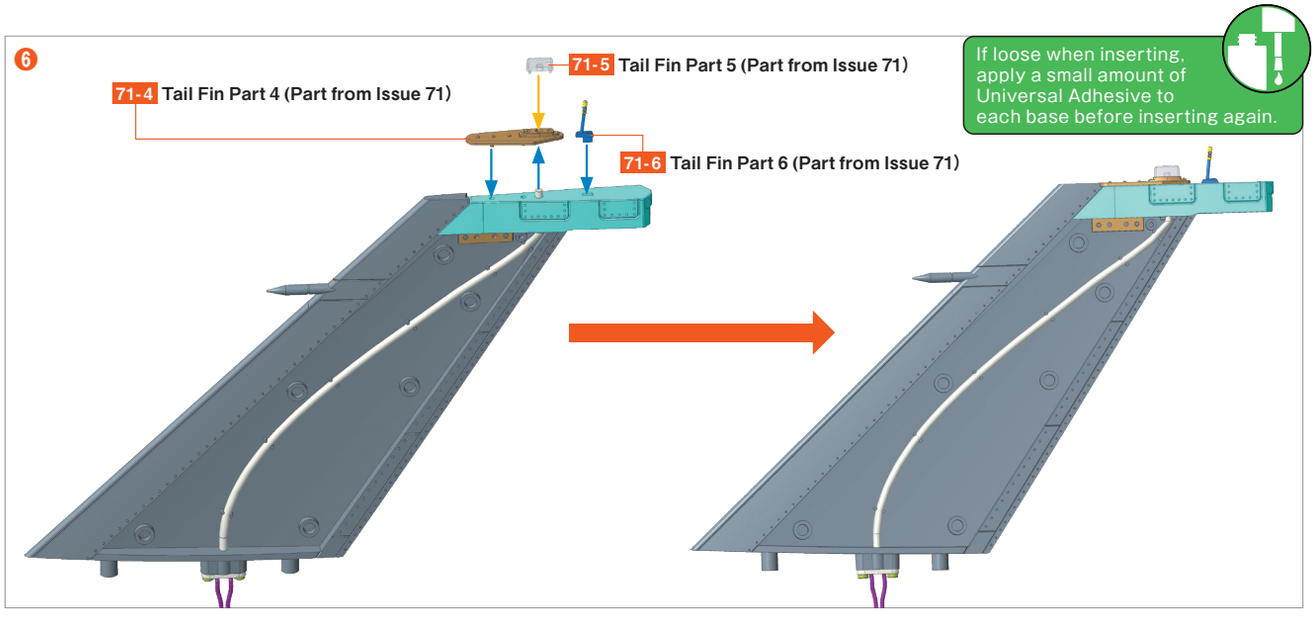
Insert **71-3 Tail Fin Part 3 (Part from Issue 71)** into **71-2 Tail Fin Part 2 (Part from Issue 71)** as shown.



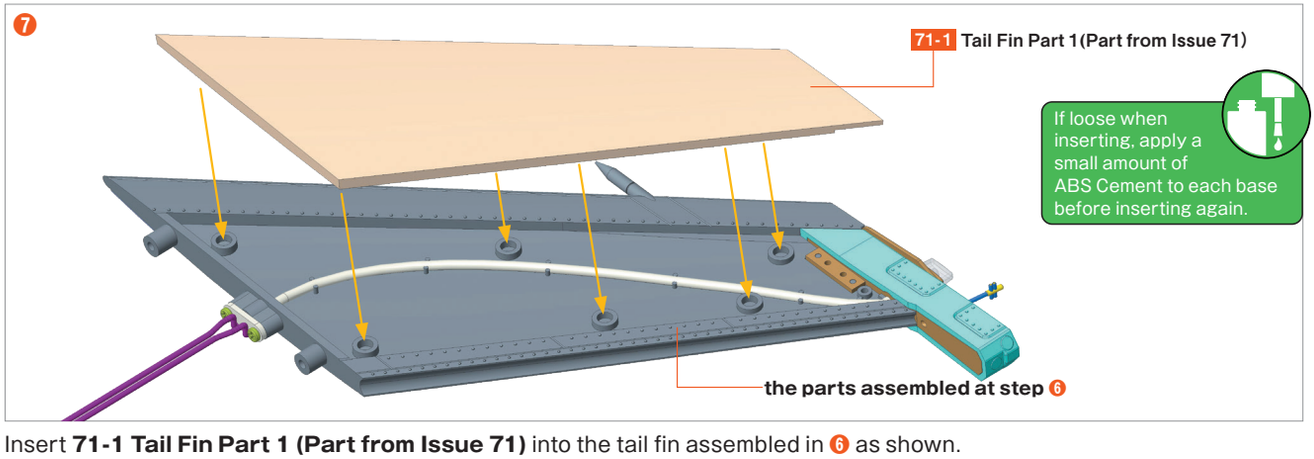


Cut the protruding optical fiber with scissors.

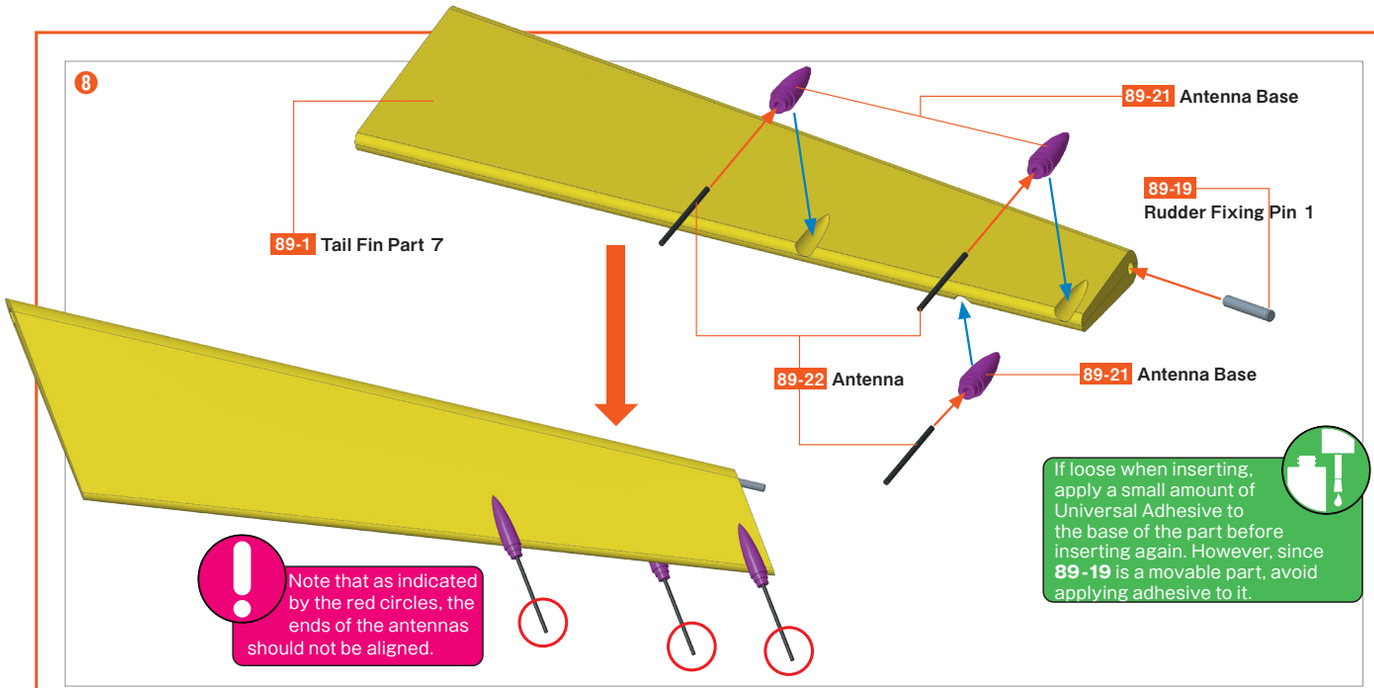
Insert the tail fin part assembled in 3 into the tail fin assembled in 2 as shown.



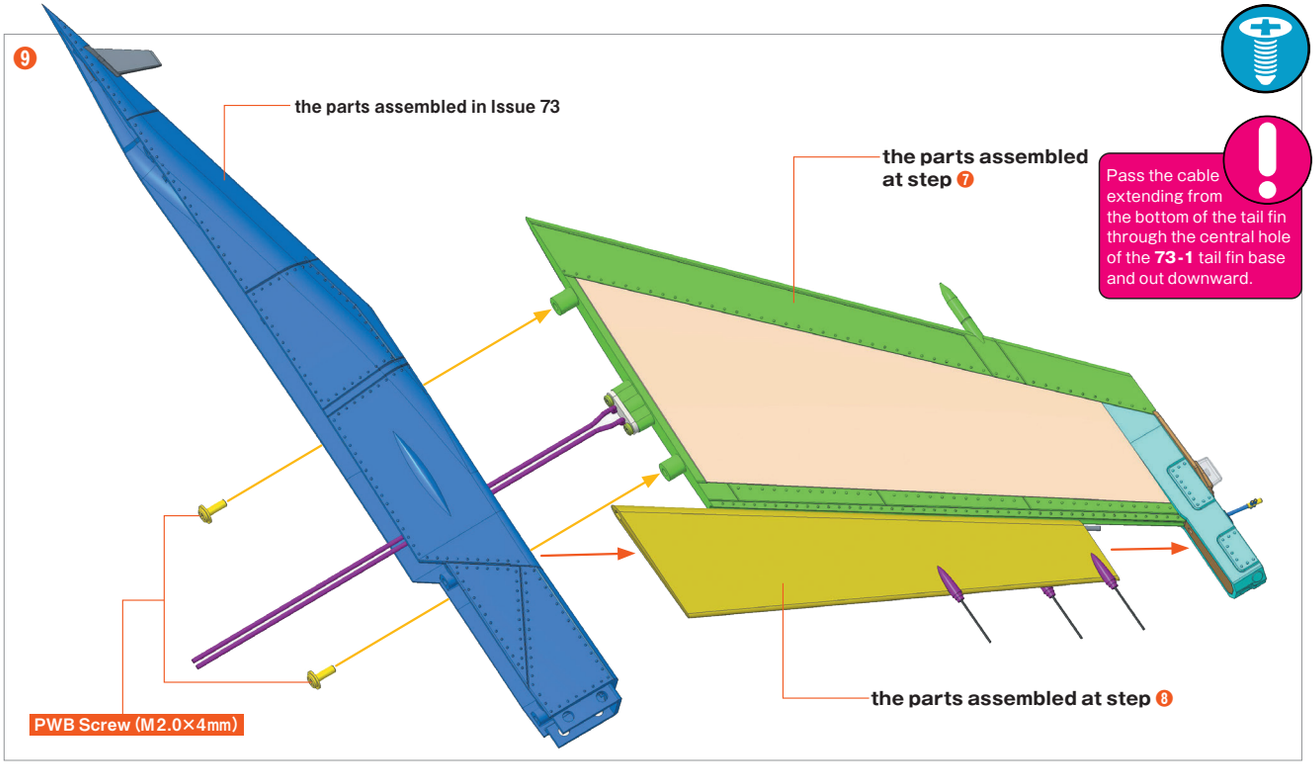
Insert **71-4 Tail Fin Part 4 (Part from Issue 71)**, **71-5 Tail Fin Part 5 (Part from Issue 71)**, and **71-6 Tail Fin Part 6 (Part from Issue 71)** into the tail fin assembled in 5 as shown.



Insert **71-1 Tail Fin Part 1 (Part from Issue 71)** into the tail fin assembled in 6 as shown.



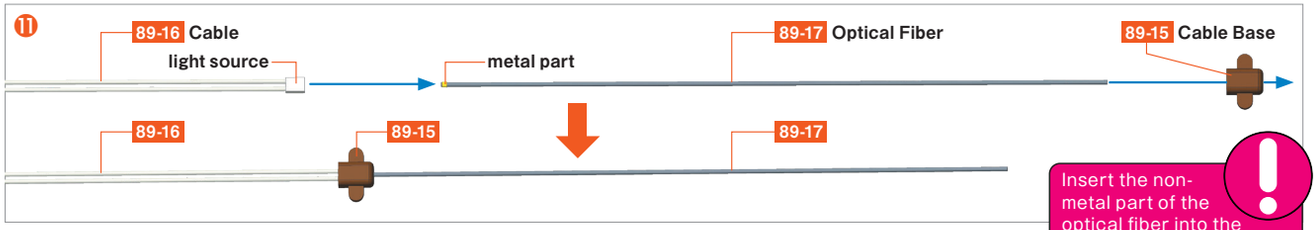
Combine three **89-21 Antenna Bases** with three **89-22 Antennas** as shown, then insert them into **89-1 Tail Fin Part 7**. Also, insert one **89-19 Rudder Fixing Pin** into the designated position.



Insert the Rudder assembled in step 8 into the Tail Fin assembled in step 7 as shown. Then, set the completed parts from issue 73 as shown, and secure them in place with two **PWB Screws (M2.0×4mm)** from the back.

Cut the **89-17 Optical Fiber** part as shown, vertically, with scissors.

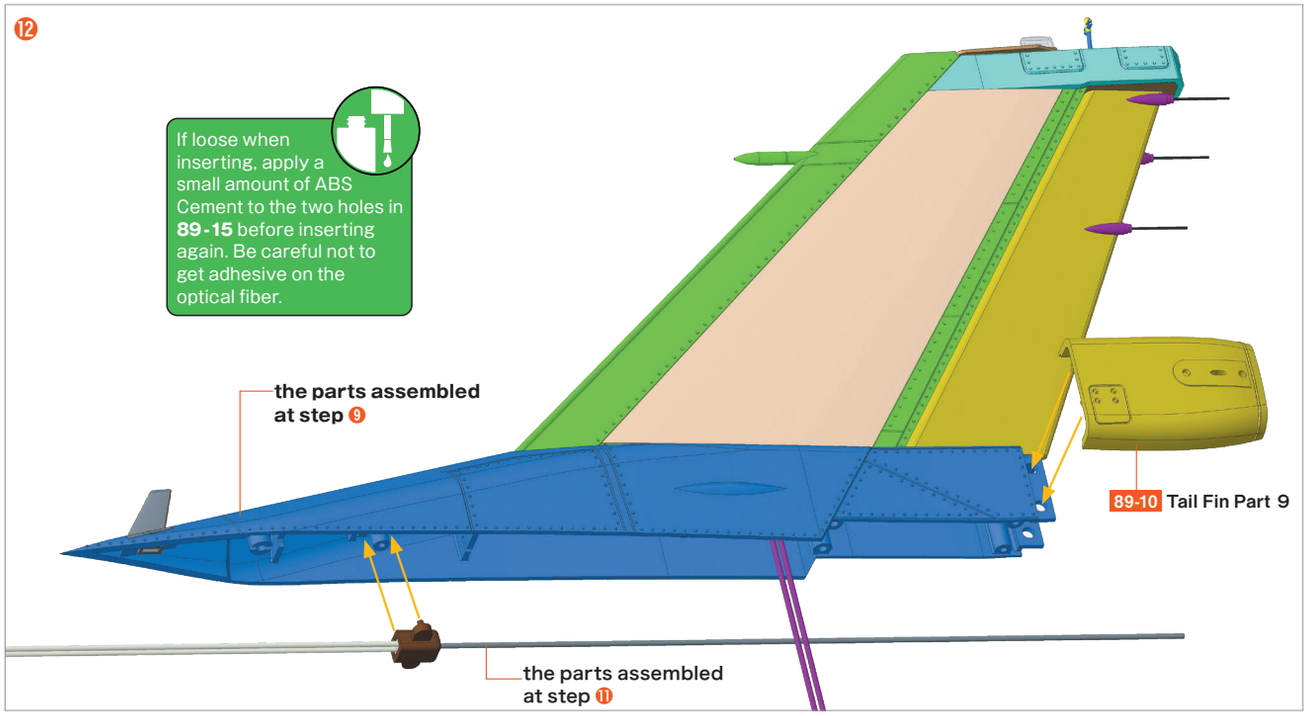
⓫



Insert the non-metal part of the optical fiber into the **89-15** from the side with the square hole.

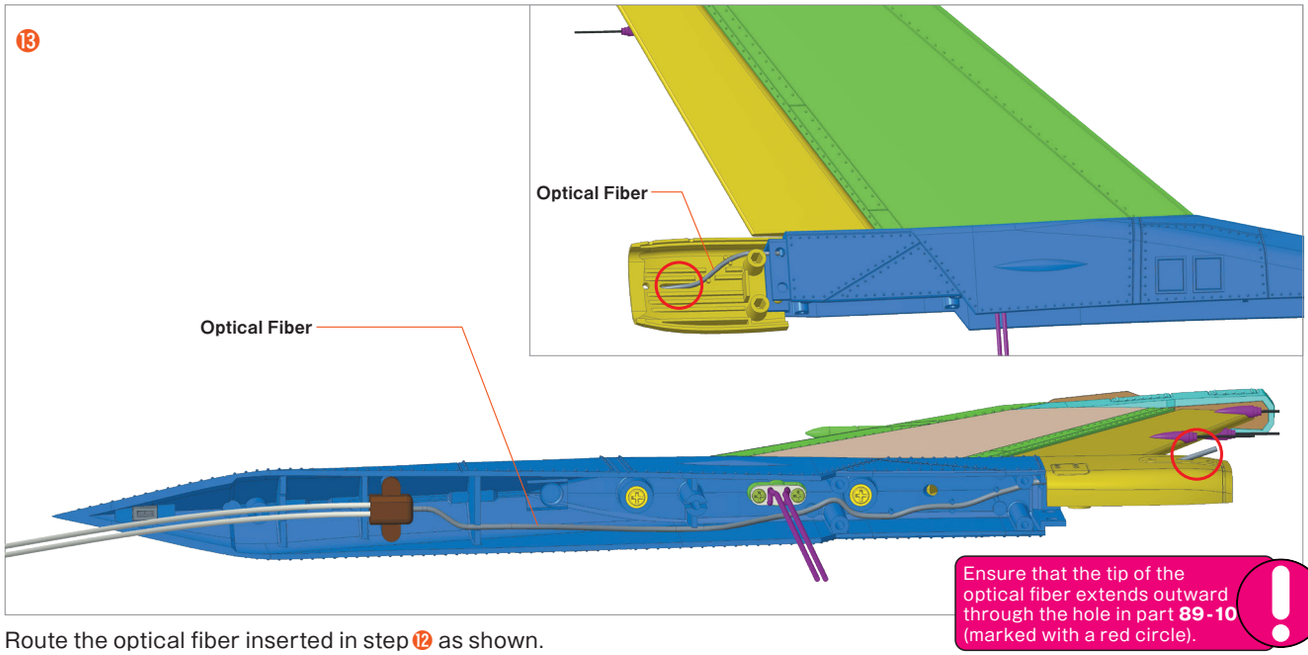
Insert the **89-17** cut in step ⓾ into the **89-15 Cable Base** from the side opposite to the metal part and push it all the way through. Then, insert the **89-16 cable** light source into the **89-15**.

⓬



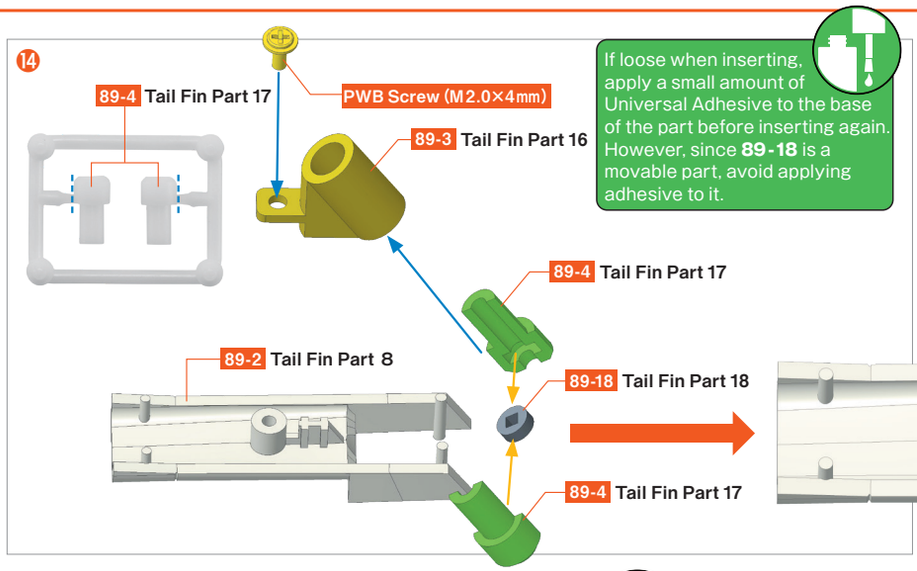
Insert the optical fiber assembled in step ⓫ into the lower part of the tail assembled in step ❾ as shown. Then, attach the **89-10 Tail Part 9** to the rear of the tail.

⓭

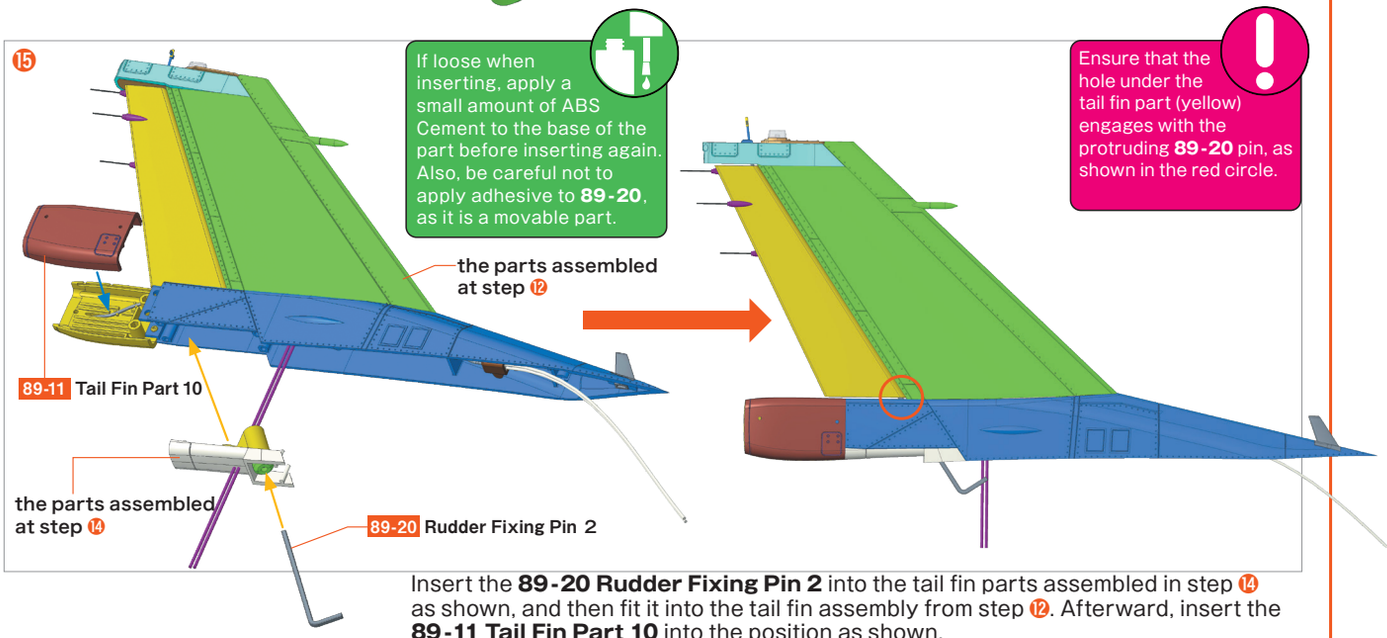


Ensure that the tip of the optical fiber extends outward through the hole in part **89-10** (marked with a red circle).

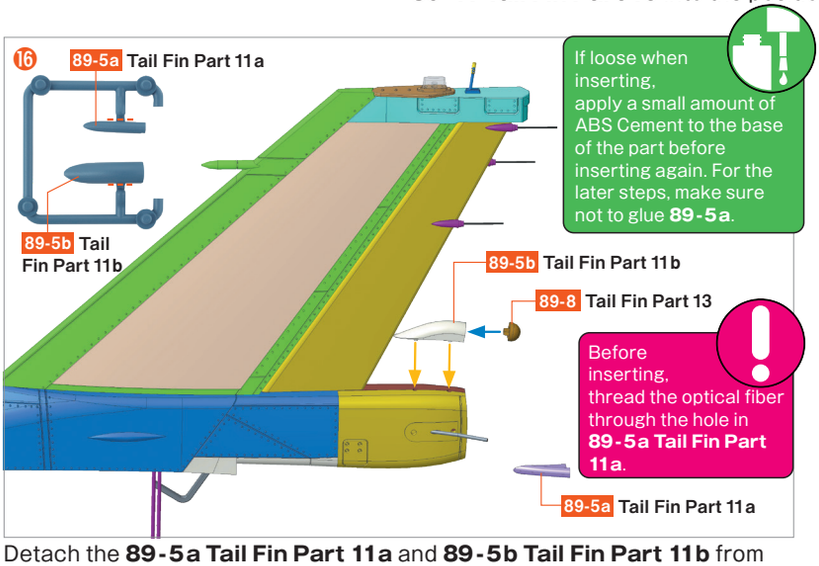
Route the optical fiber inserted in step ⓬ as shown.



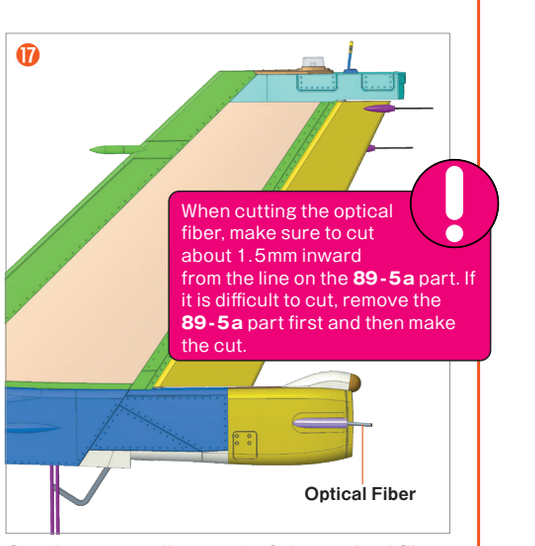
After cutting off **89-4 Tail Fin Part 17** from the sprue, sandwich **89-18 Tail Fin Part 18** and insert it into **89-3 Tail Fin Part 16**. Then, set **89-2 Tail Fin Part 8** as shown and secure it with **PWB screws (M2.0×4mm)**.



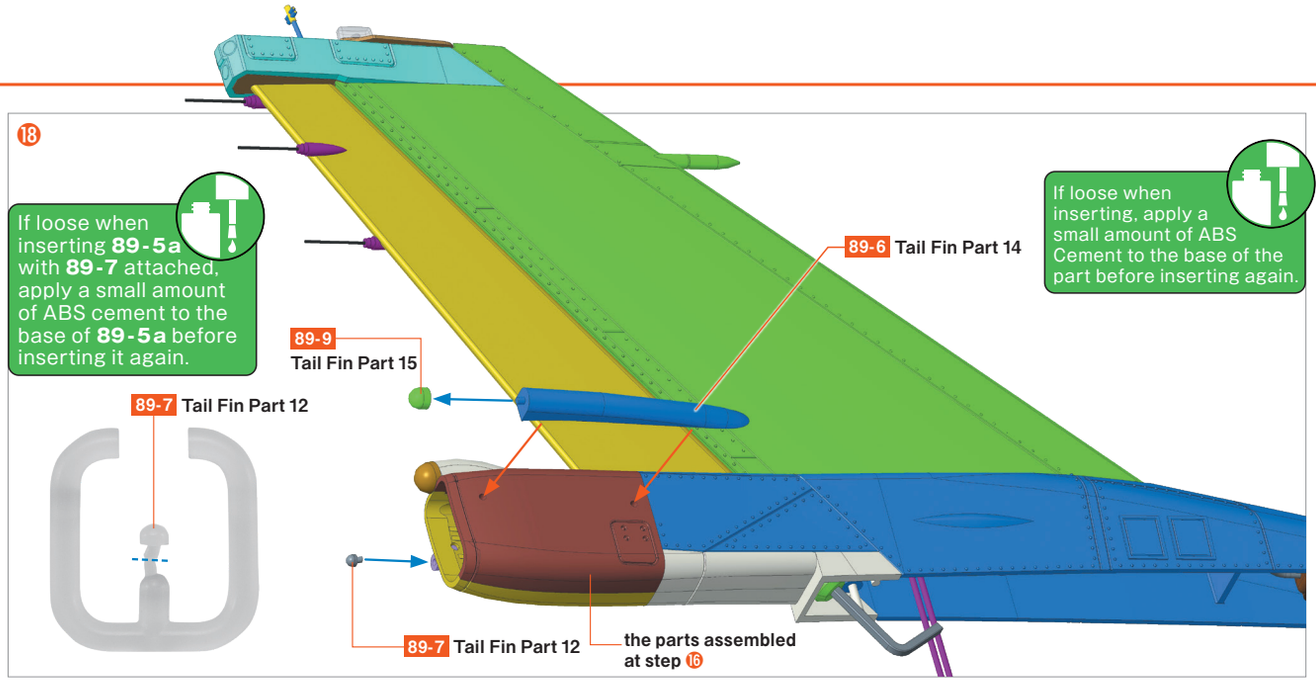
Insert the **89-20 Rudder Fixing Pin 2** into the tail fin parts assembled in step ⑭ as shown, and then fit it into the tail fin assembly from step ⑫. Afterward, insert the **89-11 Tail Fin Part 10** into the position as shown.



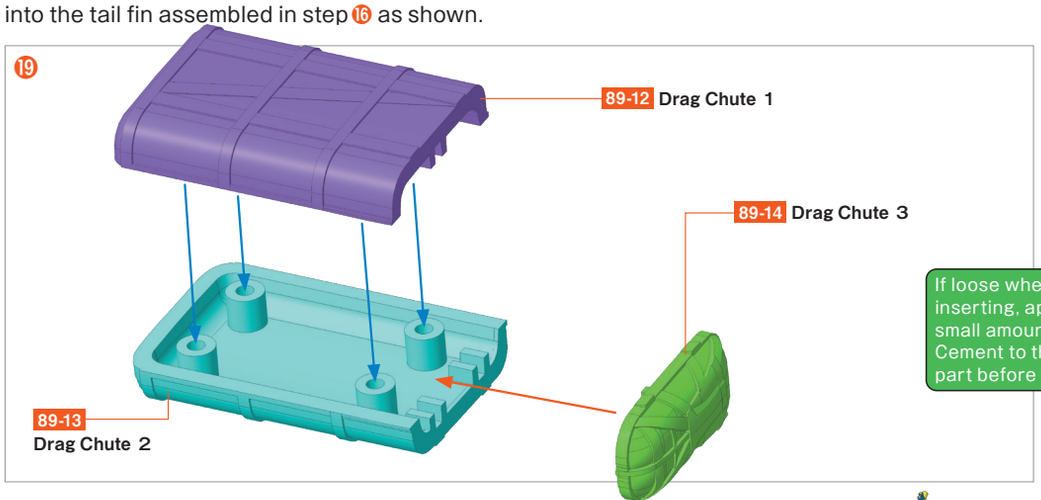
Detach the **89-5a Tail Fin Part 11a** and **89-5b Tail Fin Part 11b** from the sprue, and insert them along with the **89-8 Tail Fin Part 13** into the positions as shown.



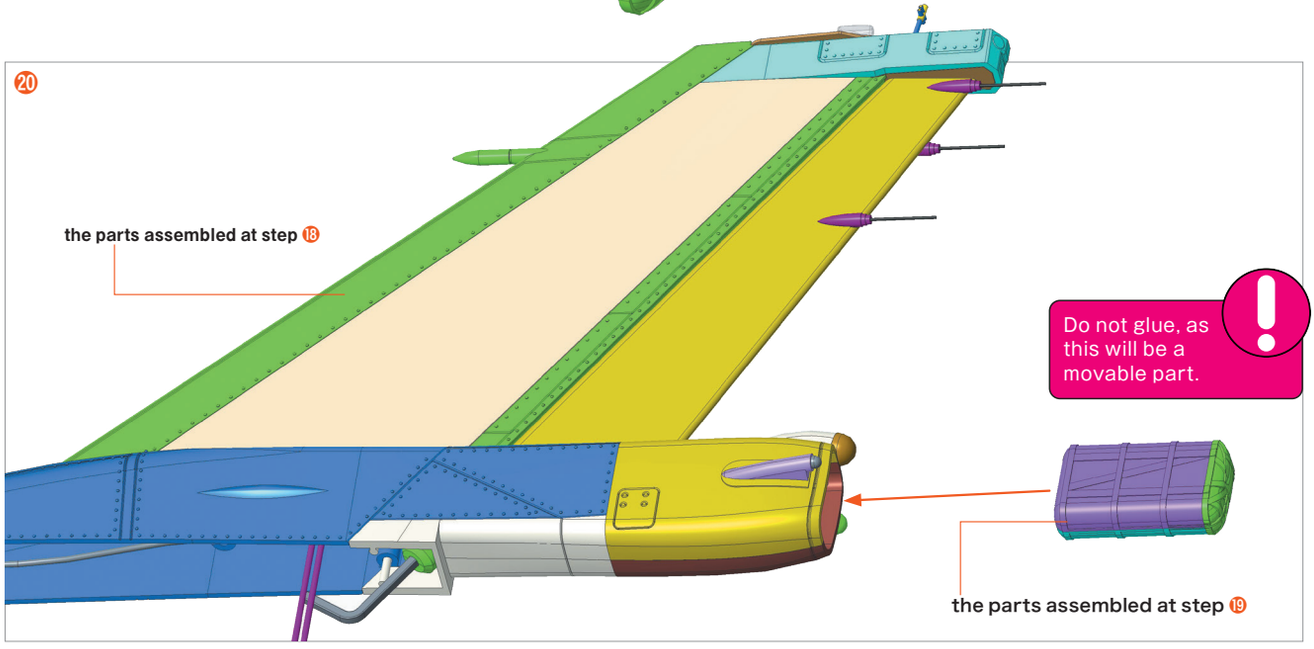
Cut the protruding part of the optical fiber at the rear of the tail fin assembled in step ⑯ with scissors.



Insert the **89-6 Tail Fin Part 14**, the detached **89-7 Tail Fin Part 12** from the sprue, and the **89-9 Tail Fin Part 15** into the tail fin assembled in step 16 as shown.



Combine the **89-12 Drag Chute 1** and **89-13 Drag Chute 2**, then insert the **89-14 Drag Chute 3**.



Insert the drag chute assembled in step 19 into the tail fin assembled in step 18 as shown.

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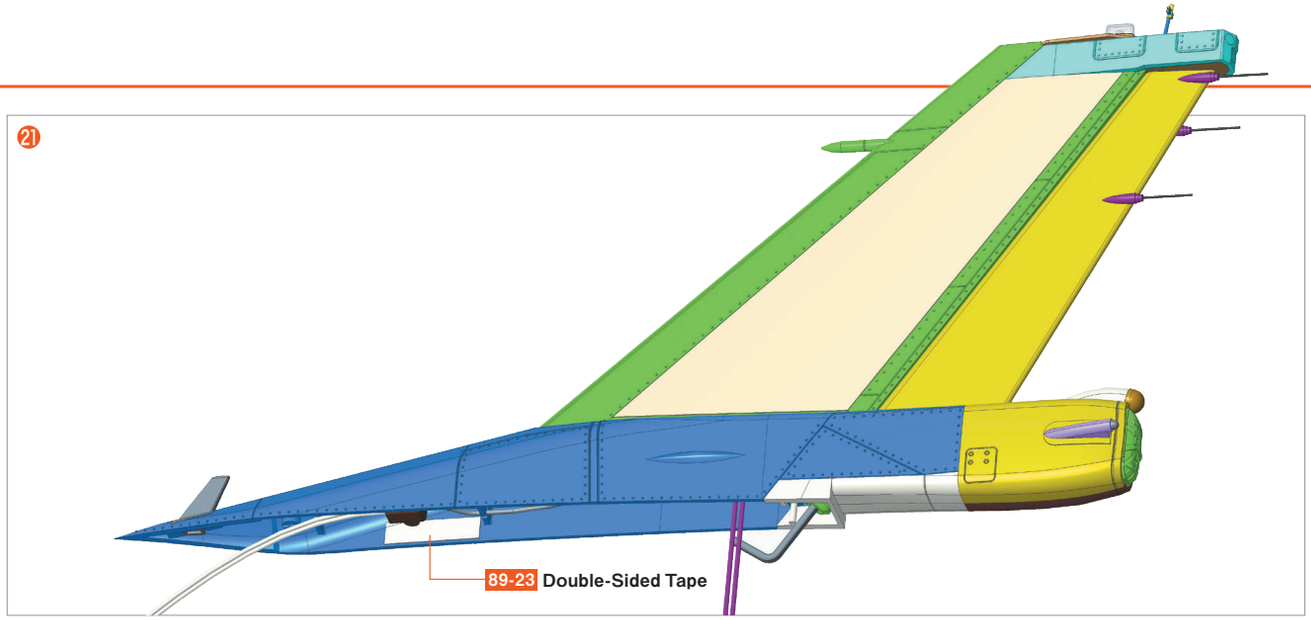
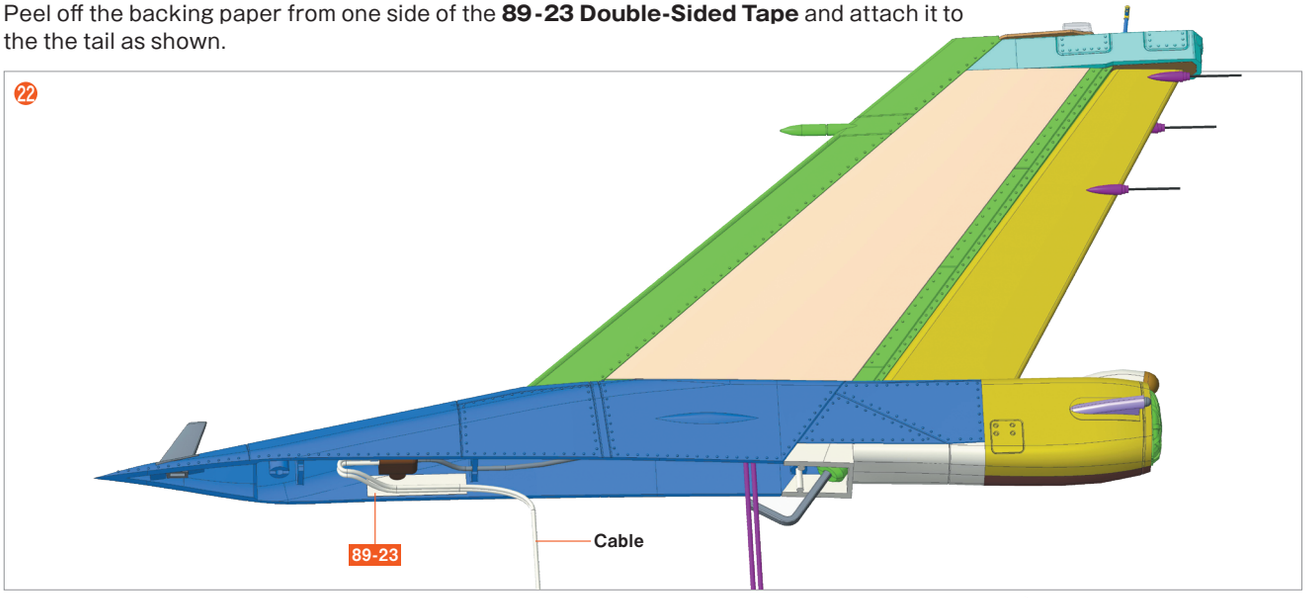


Peel off the backing paper from one side of the **89-23 Double-Sided Tape** and attach it to the the tail as shown.

22



Peel off the backing paper from the other side of the **89-23 Double-Sided Tape** and attach the cable by folding it as shown.

Complete!

The assembly for this issue is now complete. Store it carefully to prevent any cable disconnections.