Assemble the controller ②

Issue 98

In this issue we will continue assembling the controller.

Tools Needed

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

- ☐ **Screwdriver**
  For tightening screws.
- ☐ **ABS Cement**
  For joining ABS plastic parts.
- ☐ **Universal Adhesive**
  For joining metal parts.

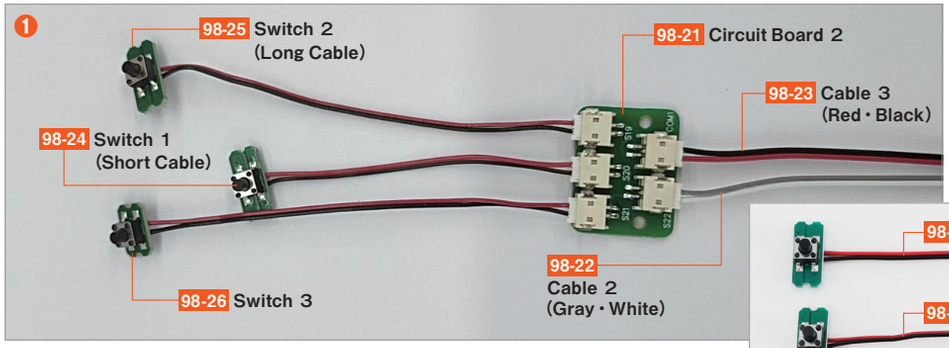
Check!

Be sure to check the assembly video for detailed demonstrations.

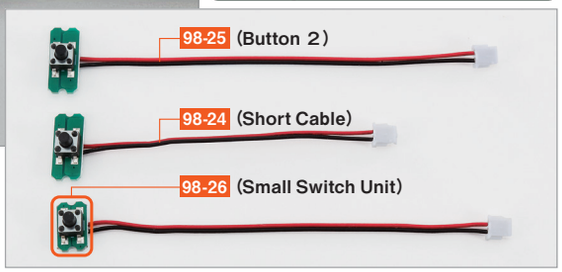
Explanation of Symbols

- 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.

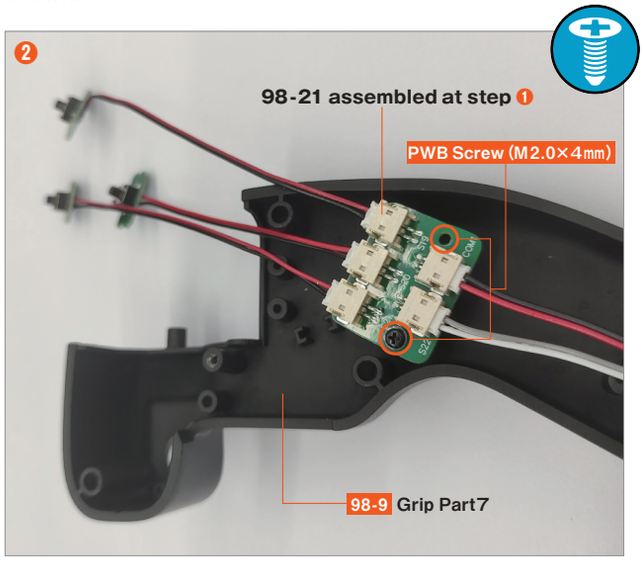
1 Assemble the Controller



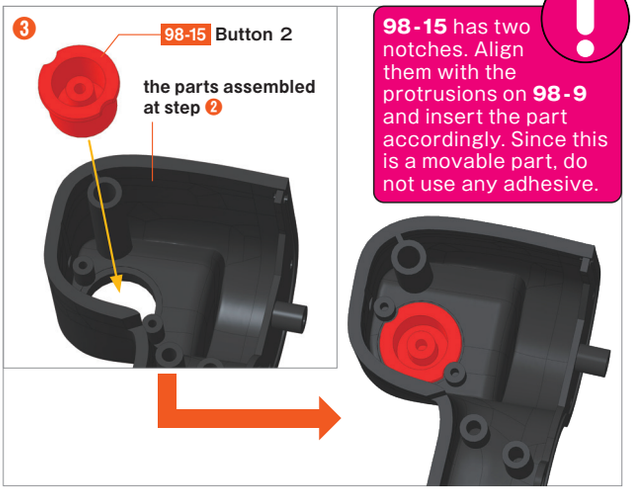
Refer to the photo and make sure to insert **98-24**, **98-25**, and **98-26** correctly. Be careful with the orientation of each connector when inserting it.



Insert **98-22 Cable 2**, **98-23 Cable 3**, **98-24 Switch 1**, **98-25 Switch 2**, and **98-26 Switch 3** into **98-21 Circuit Board 2** as shown.

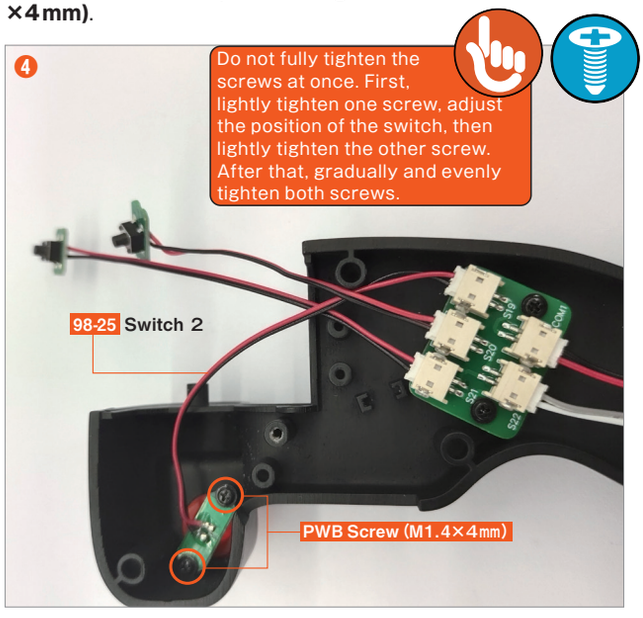


Set **98-21** assembled in step 1 into **98-9 Grip Part 7**, and secure it at two points using two **PWB screws M2.0 ×4mm)**.

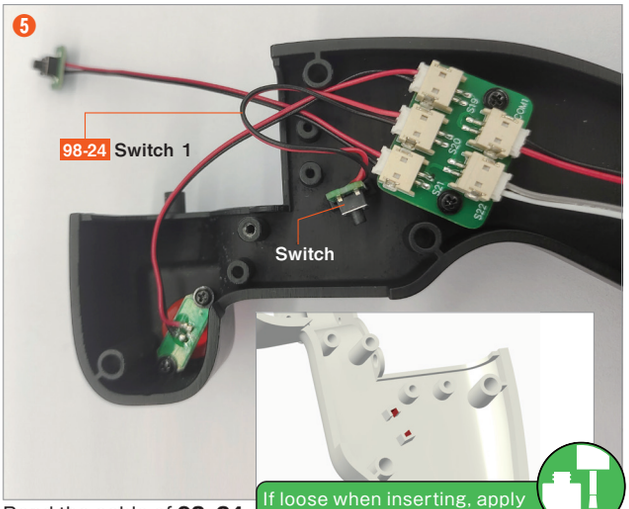


98-15 has two notches. Align them with the protrusions on **98-9** and insert the part accordingly. Since this is a movable part, do not use any adhesive.

Insert **98-15 Button 2** into the grip assembled in step 2 as shown.

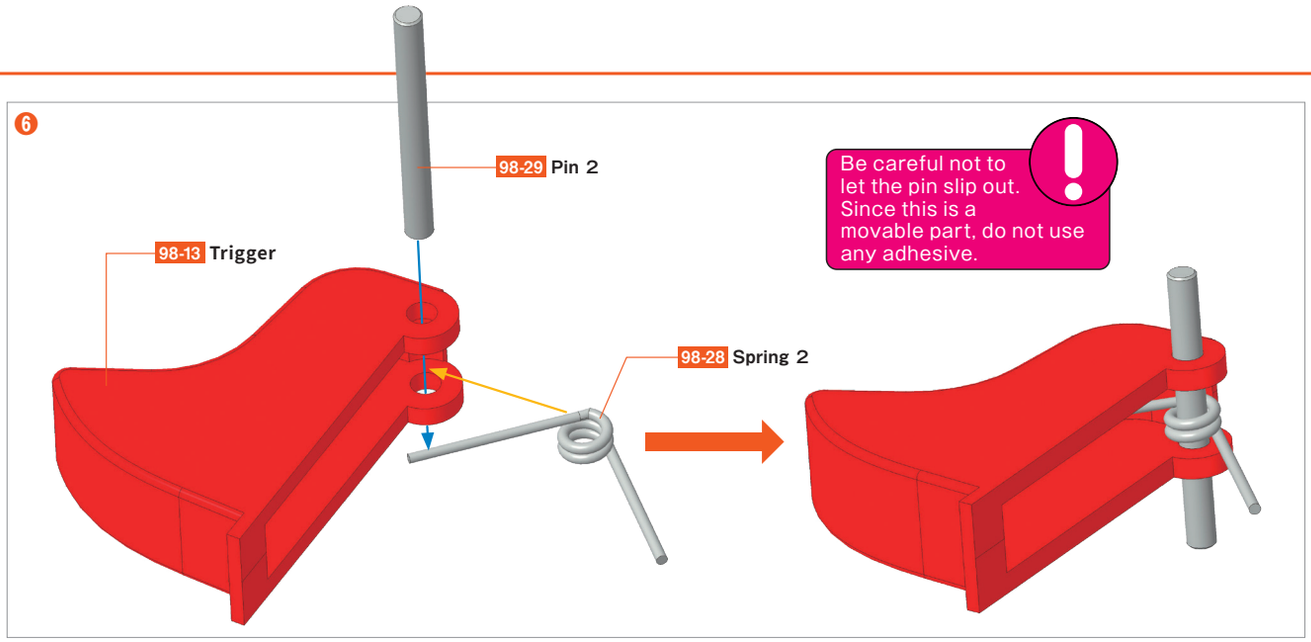


Insert **98-25** assembled in step 1 as shown, and secure it at two points using **PWB screws (M1.4×4mm)**.

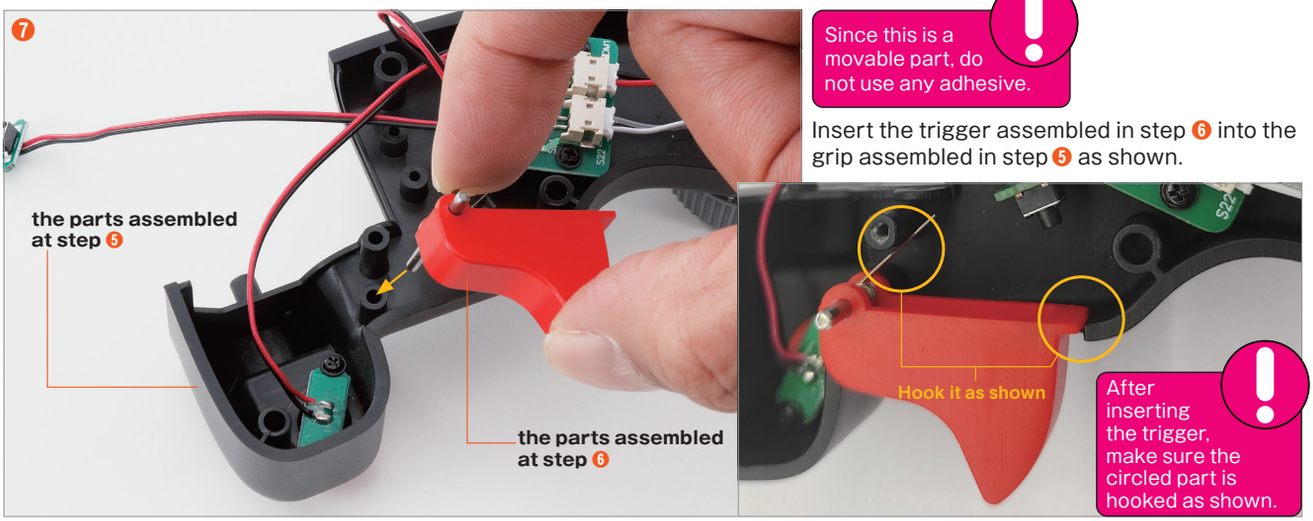


Bend the cable of **98-24** assembled in step 1 and insert the switch into the position shown in the photo.

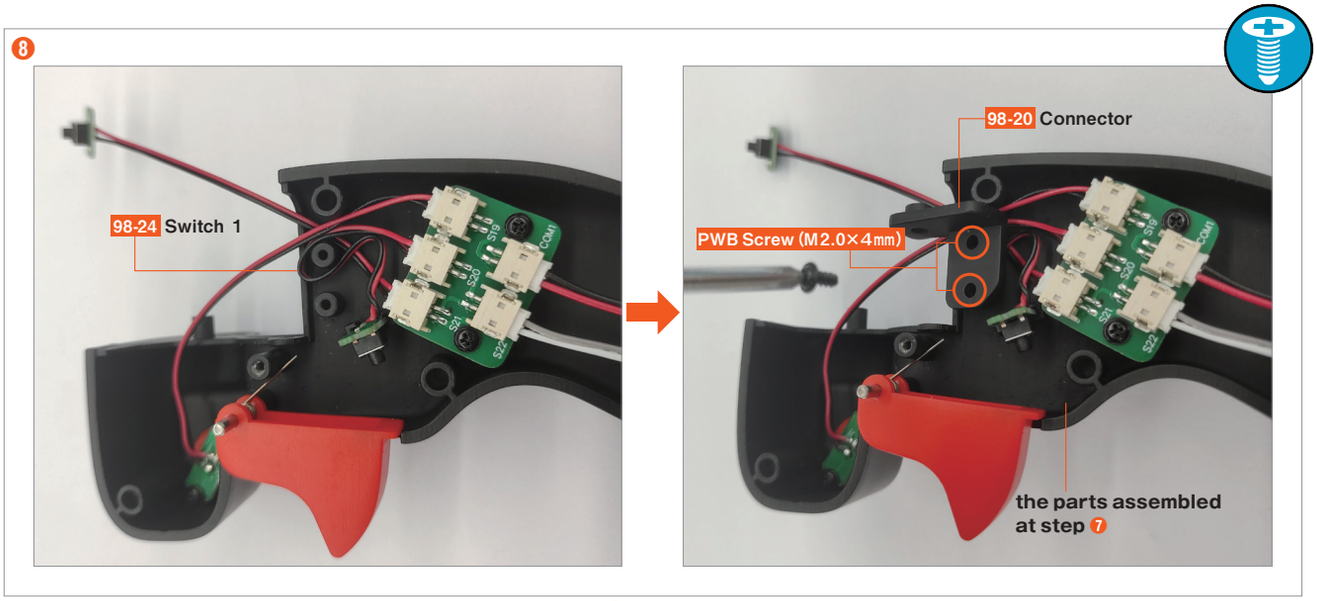
If loose when inserting, apply a small amount of Universal Adhesive to the base of the switch (the red part) before inserting again. Be careful not to get any adhesive on the switch actuator.



Insert **98-28 Spring 2** into **98-13 Trigger**, then insert **98-29 Pin 2** through it.

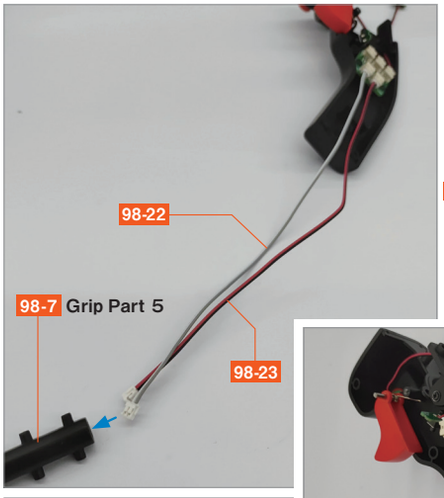


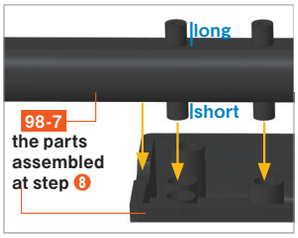
Insert the trigger assembled in step 6 into the grip assembled in step 5 as shown.



Arrange the internal cables of the grip assembled in step 7 as shown, then insert **98-20 Connector** and secure it at two points using **PWB screws (M2.0×4mm)**.

9





Pass the two cables, **98-22** and **98-23**, from the grip assembled in step 8 through **98-7 Grip Part 5**, then insert **98-7** into the grip as shown.

The protrusions on **98-7** are different in length on the left and right sides. Insert the shorter protrusion into the grip at this step.

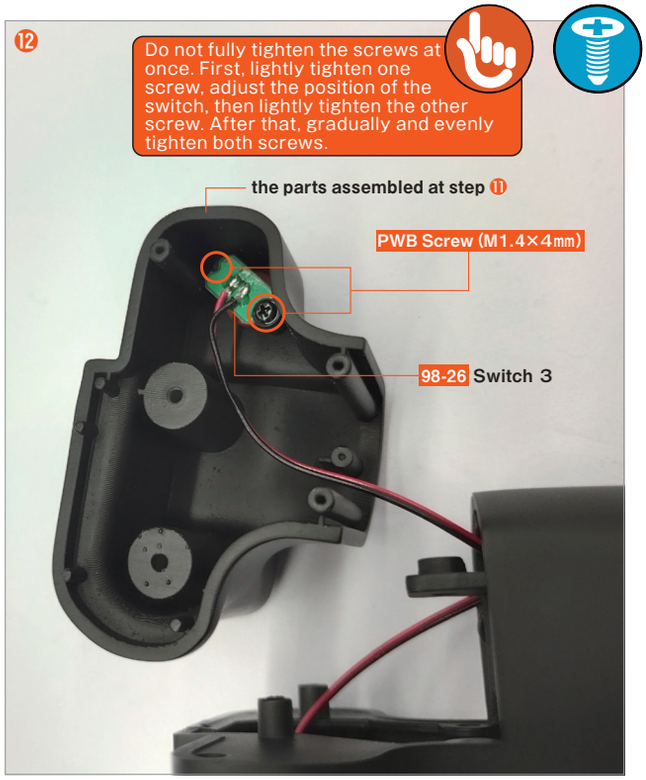
10

Insert **98-8 Grip Part 6** into the grip assembled in step 9.

11

Insert **98-16 Button 3** into **98-14 Grip Part 10** as shown.

12

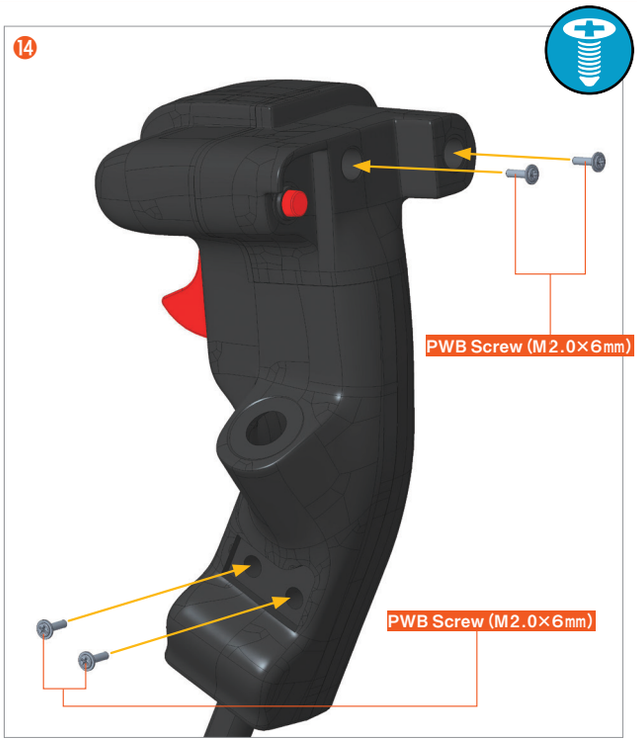


Insert **98-26 Switch 3** assembled in step 1 into the grip part assembled in step 11 , and secure it at two points using **PWB screws (M1.4×4mm)**.

⑬

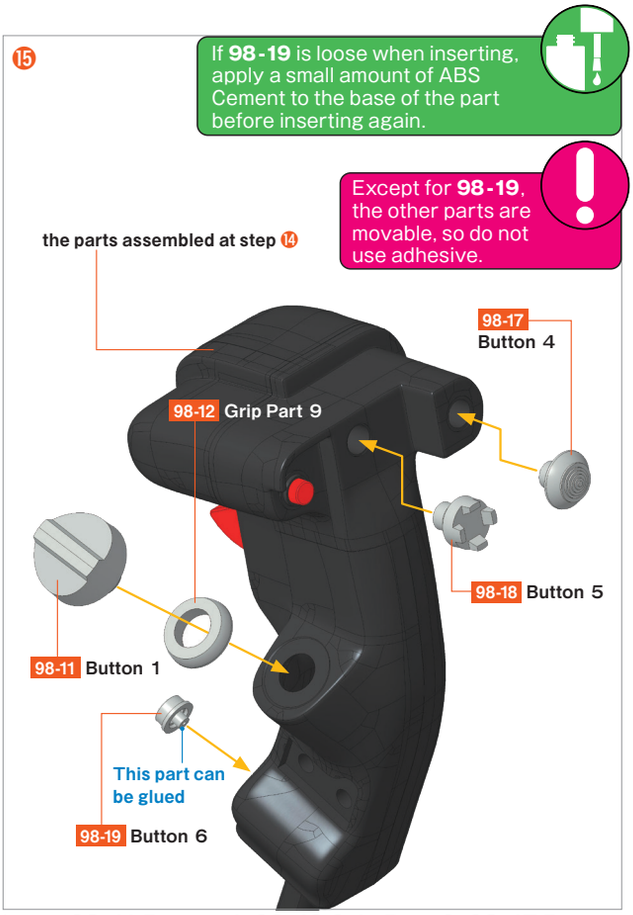
Insert **98-14** into the grip part assembled in step ⑫.

⑭



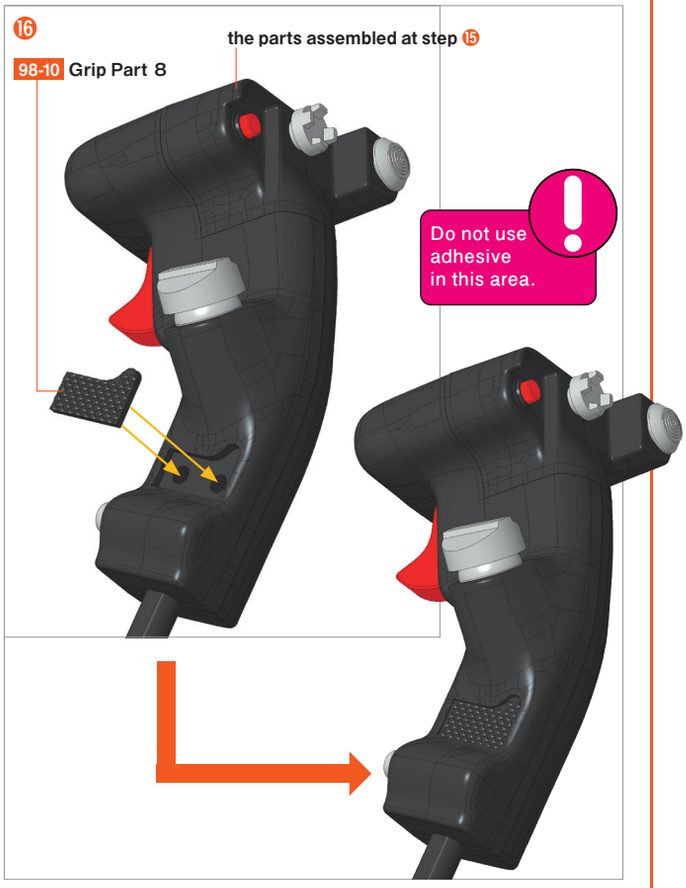
Secure the grip part assembled in step ⑬ using four **PWB screws (M2.0×6mm)** as shown.

⑮



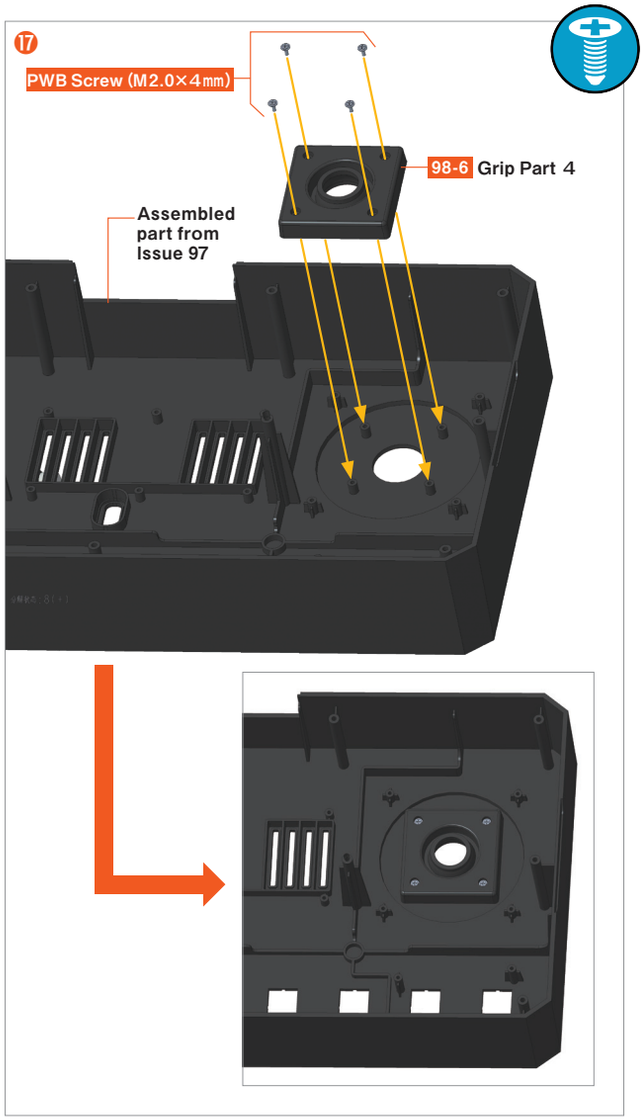
Insert **98-11 Button 1**, **98-12 Grip Part 9**, **98-17 Button 4**, **98-18 Button 5**, and **98-19 Button 6** into the grip assembled in step ⑭ as shown.

⑯



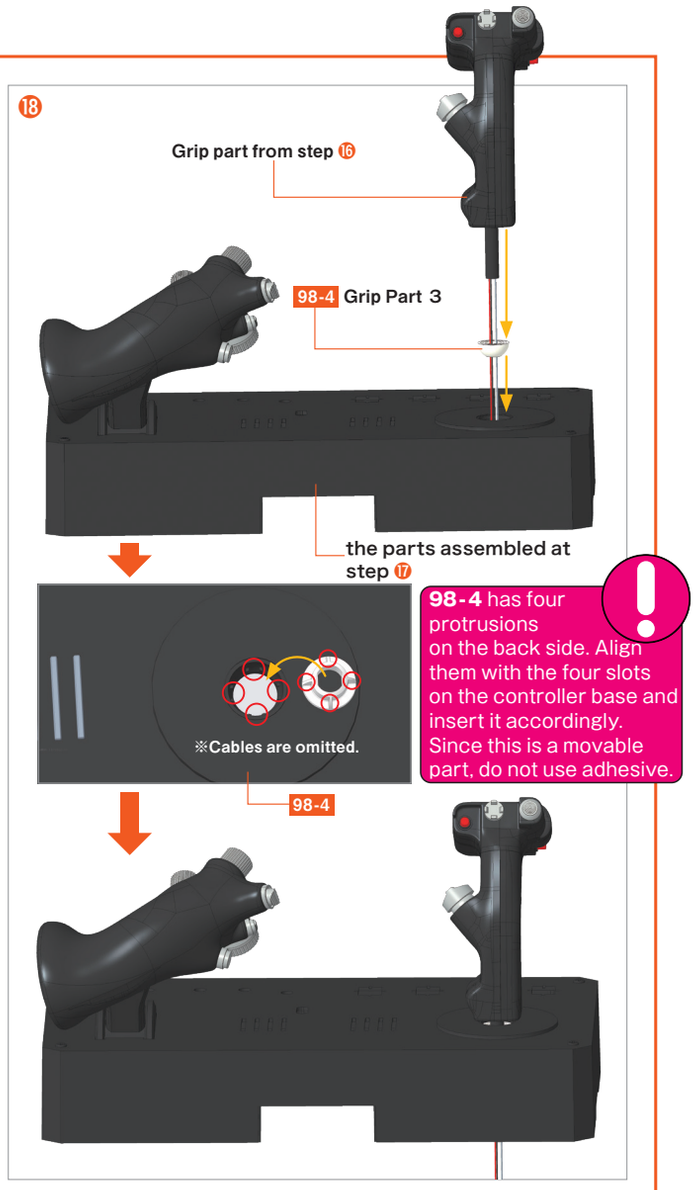
Insert **98-10 Grip Part 8** into the grip assembled in step ⑮ as shown.

⑰



Set **98-6 Grip Part 4** into the assembled part from Issue 97 as shown, and secure it at four points using **PWB screws (M2.0×4mm)**.

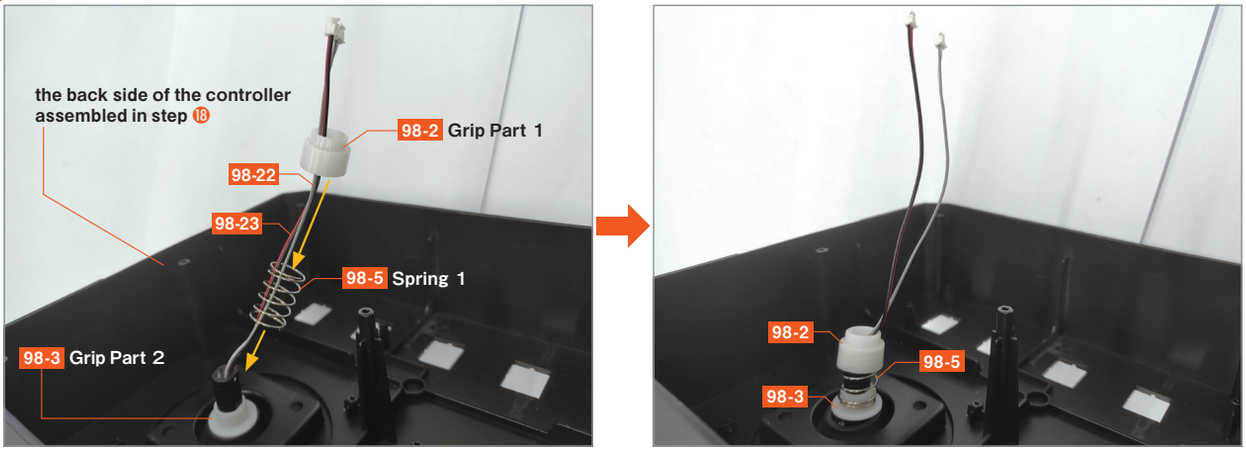
⑱



98-4 has four protrusions on the back side. Align them with the four slots on the controller base and insert it accordingly. Since this is a movable part, do not use adhesive.

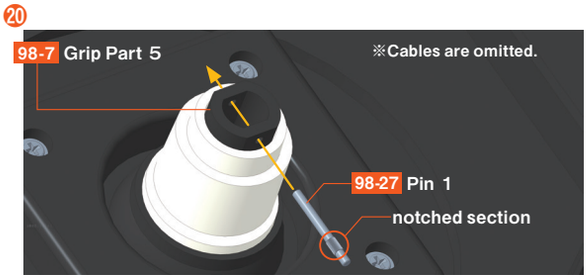
Insert **98-4 Grip Part 3** into the controller assembled in step as shown, then set the grip part from step ⑯ in place.

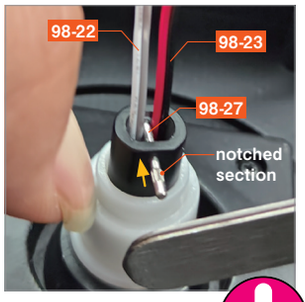
⑲



Insert **98-2 Grip Part 1**, **98-3 Grip Part 2**, and **98-5 Spring 1** onto the **98-22** and **98-23 Cables** on the back side of the controller assembled in step ⑱, in the order shown in the photo.

20

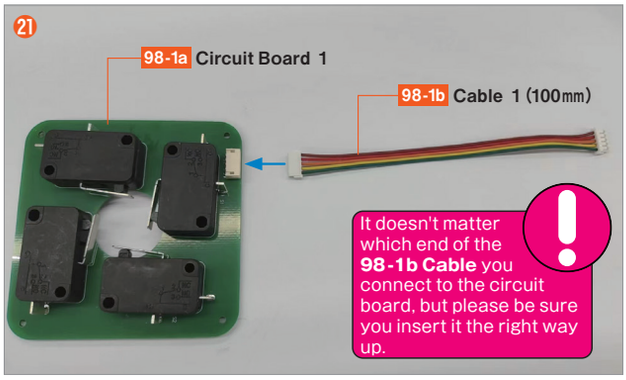




Make sure to insert **98-27** firmly up to the notched section so that it does not come loose. If insertion is difficult, use the handle of a pair of tweezers or a similar tool to push it in.

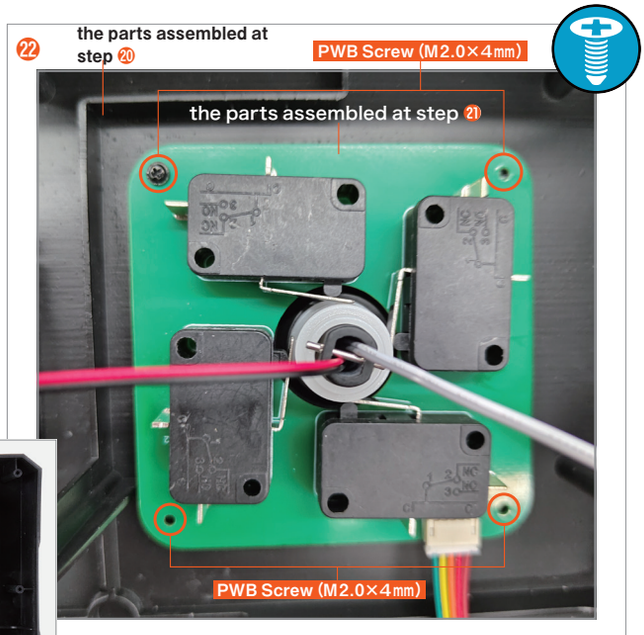
Push the spring in and insert **98-27 Pin 1** into the hole at the base of **98-7** from the flat side. At the same time, separate **98-22** and **98-23 Cables** into two groups and route them through the gap as shown.

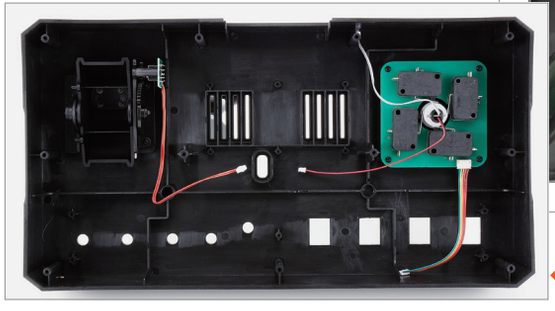
21



Insert the connector of **98-1b Cable 1 (100mm)** into **98-1a Circuit Board 1** as shown.

22





Set the circuit board assembled in step 21 into the controller assembled in step 20 as shown, and secure it with four **PWB screws (M2.0×4mm)**.

Complete!

The assembly for this issue is now complete.