



Laser Projection Keyboard Kit v2

Quick Assembly Manual

RoboPeak Team

2014-4

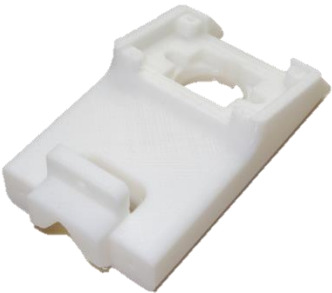


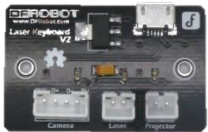
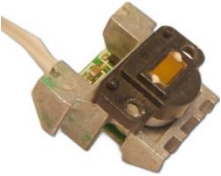





Revision: 0

Your laser projection keyboard kit needs to be assembled before you can use it. This manual will provide you the instructions to assemble the RoboPeak laser project keyboard kit quickly and easily.



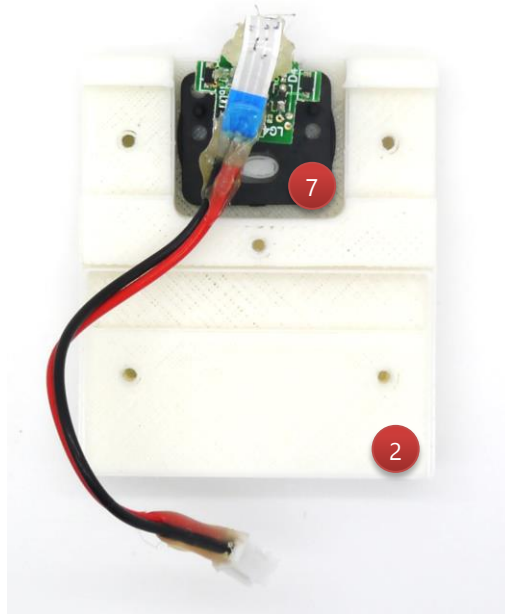
Parts List in the kit

The following parts are included in the laser projection keyboard kit. Please pay attention to the **Item No.** in the list. The item No. will be used to identify which part will be used in the following assembly instructions.

1		Front Panel x1
2		Bottom Base x1
3		Pattern Projector Dock x1
4		Power & Sockets PCB x1
5		Keyboard Pattern Projector x1
6		Infrared Light Camera x1
7		Line Laser x1
8		Camera Signal Cable x1
9		Self-Tapping Screw (Long)
10		Self-Tapping Screw (Short)

STEP#1 Line Laser and Base Assembly

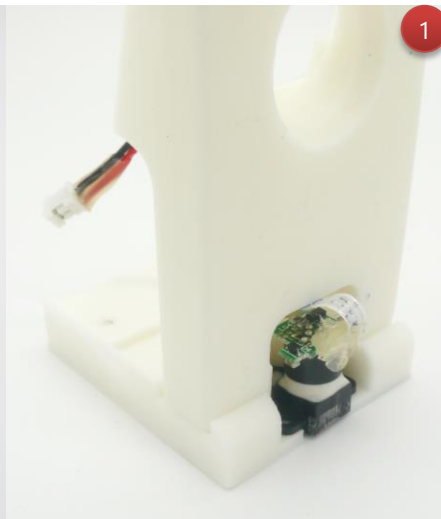
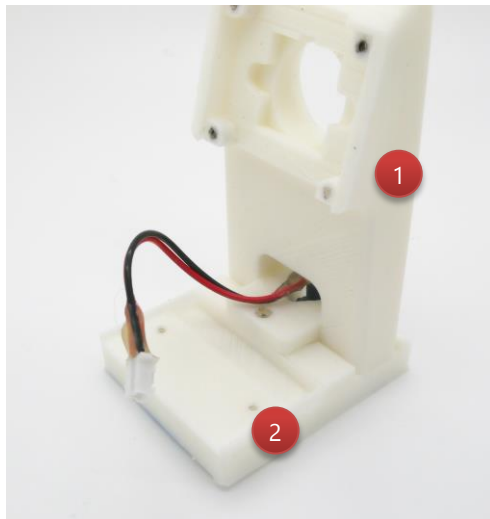
Please prepare the bottom base ② and line laser ⑦. Mount the line laser onto the bottom base as the below picture depicts.



② x1

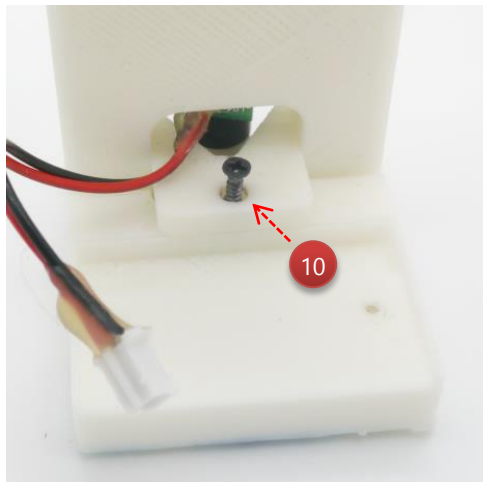
⑦ x1

Then, install the front panel like the following:



① x1

Fix the front panel using self-tapping screws ⑨ and ⑩.



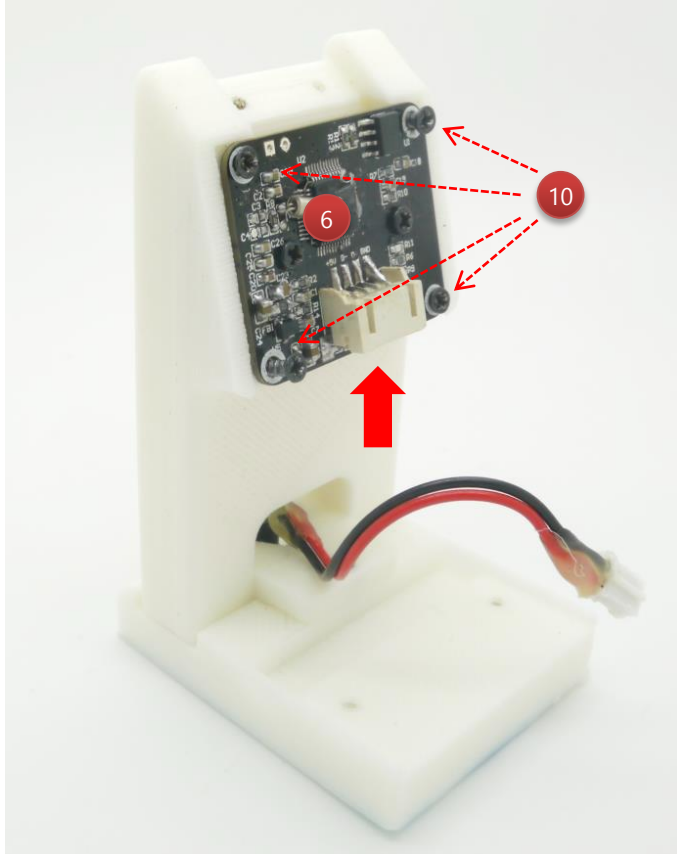
9 x2

10 x1



STEP#2 Camera Installations

Place the camera module ⑥ into the front panel as the following picture shows. Fix it using self-tapping screws.

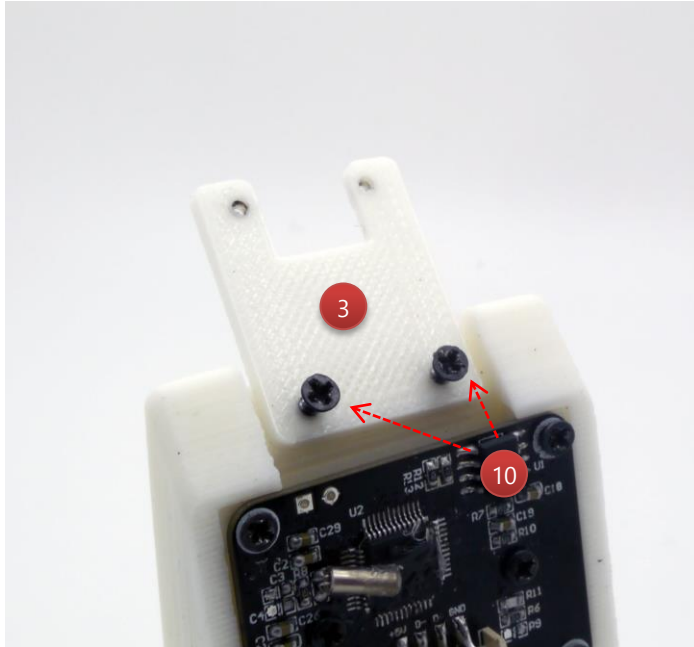


6 x1

10 x4

STEP#3 Mounting the Keyboard Pattern Projector

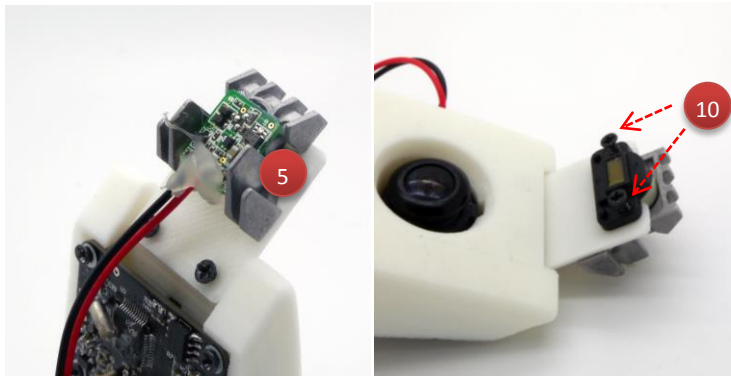
Mount the Pattern Projector Dock ③ to the front panel and use the self-tapping screw to fix them.



3 x1

10 x2

Mount the keyboard pattern projector on the dock. Use self-tapping screws to fix them.

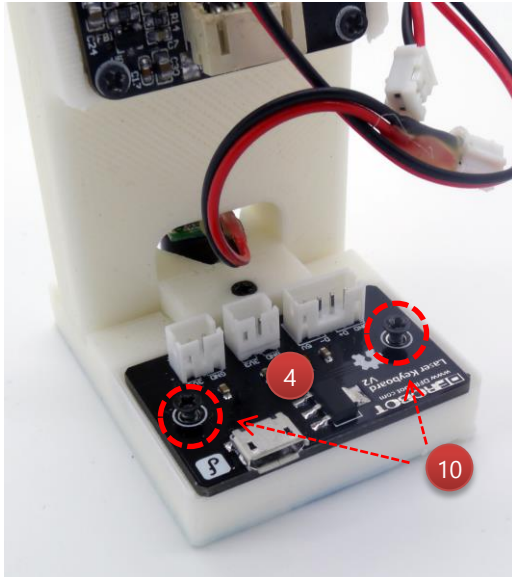


5 x1

10 x2

STEP#4 PCB Installations and connecting the cables

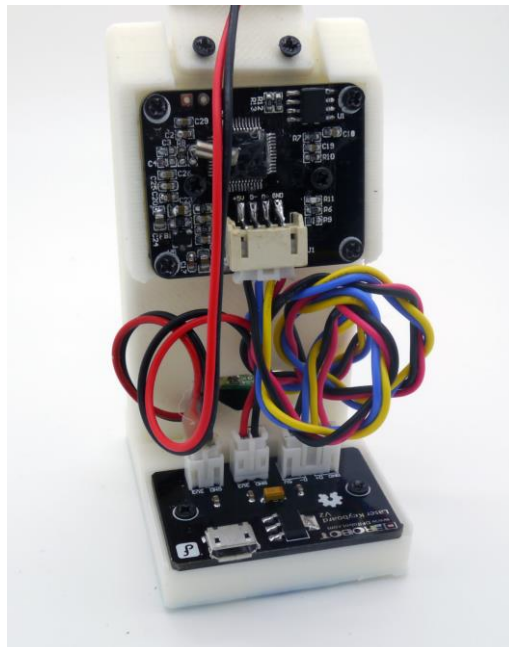
Place the PCB on the bottom base and fix it using self-tapping screws.



5 x1

10 x2

Finally, connect all the cables:



Finished!

Now your laser projector kit is ready to work. Before the first use, please follow the instructions of the calibration manual.

