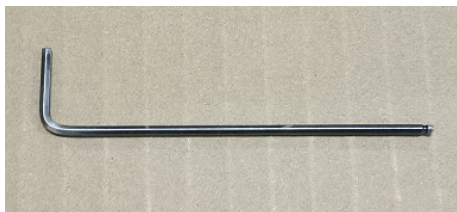# Pro2 Series-How to Install the Auto-Leveling Assembly Upgrade Kit
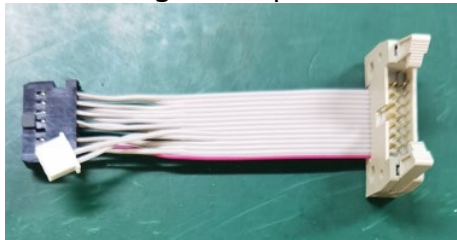
Tools and Components :

1. 2.5mm hex wrench

2. Auto-leveling assembly

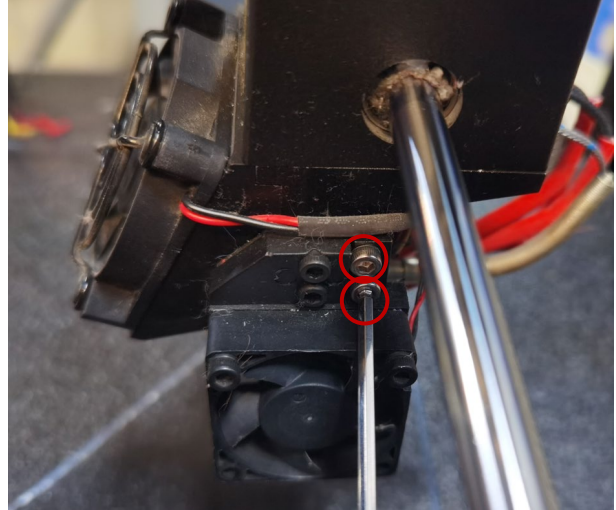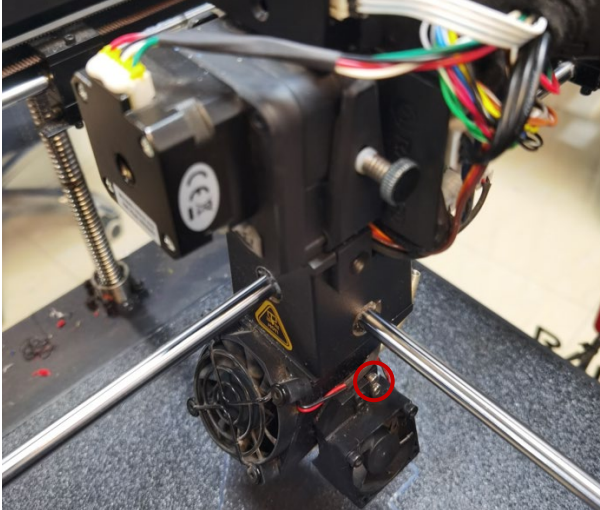3. Extruder signal adapter cable

Preparations:

Turn off the printer and unplug the power cord.

Operational Steps:

1. As shown in the red circles in the following figures, locate the two screws above the fan on the right side of the extruder, and use a 2.5mm hex wrench to remove these two screws.

2. Thread the two screws removed in Step 1 through the screw holes on the auto-leveling assembly and reinstall them onto its original position. Tighten the screws. The auto-leveling assembly will be fixed next to the right fan, as outlined in red below.
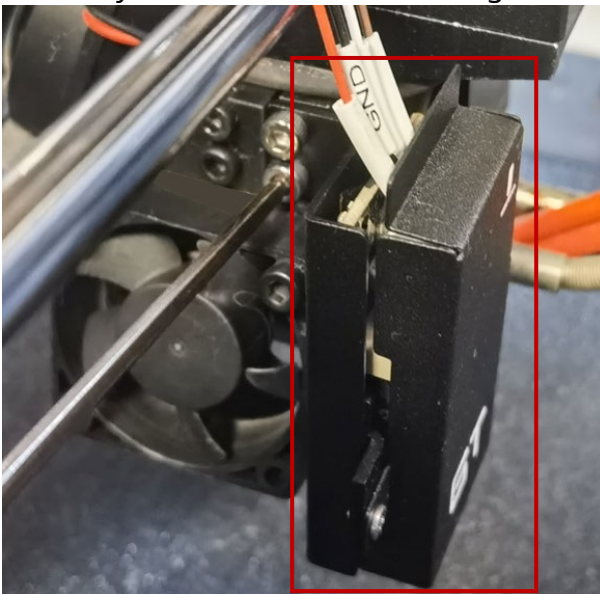

3. Locate the extruder board on the upper part of the extruder, as well as the three unconnected terminal blocks on the extruder board (fig. (1), (2), and (3) below).
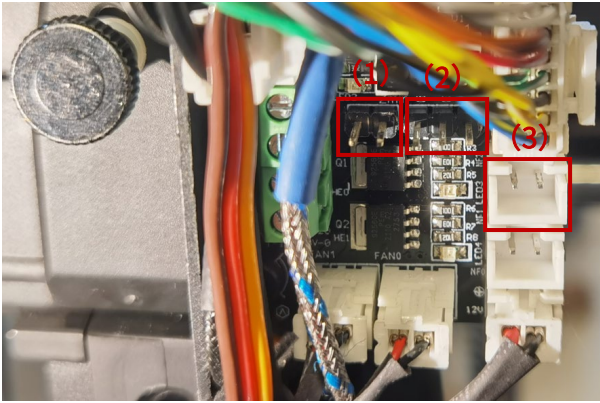
4. Connect the three connectors of the auto-leveling assembly respectively to the three terminal blocks shown in Step 3. As outlined in red below, connect the brown wire to the 2-pin terminal block (1), the white wire to the 3-pin terminal block (2), and the red and black wires to the white terminal block (3).
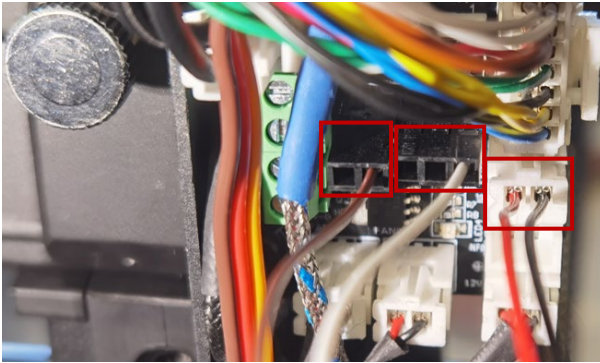
5. Open the side door of the printer, and then open the electronic box cover at the bottom of the printer to expose the motion controller board inside the electronic box. Locate the extruder signal cable on the motion controller board, as outlined in red in the following image.
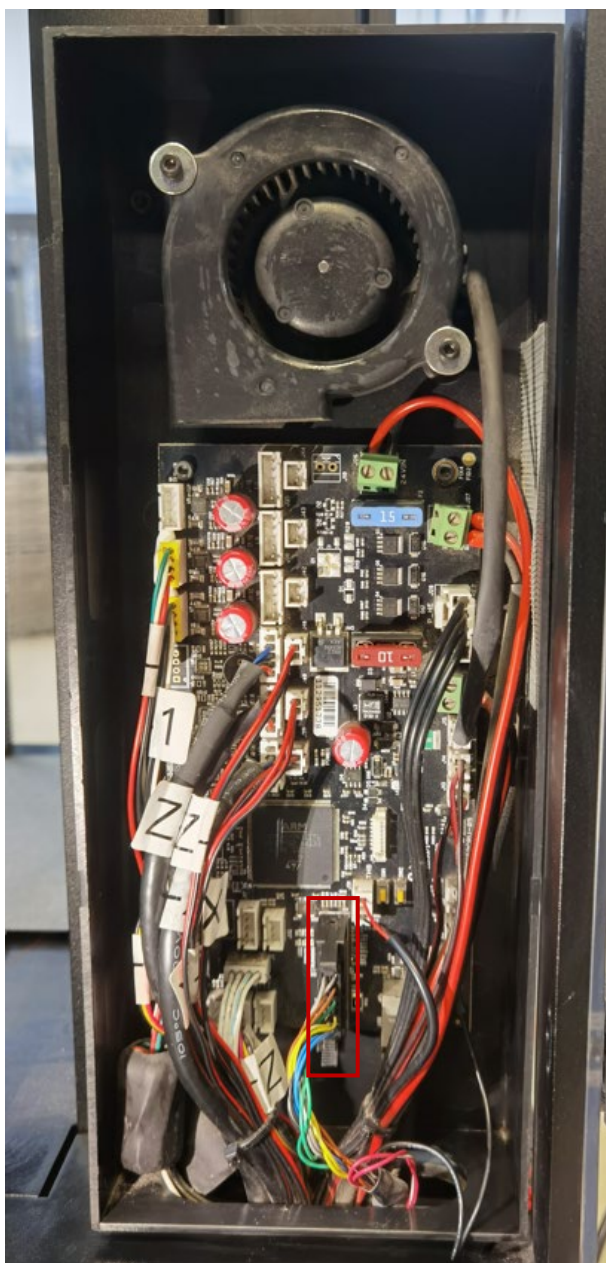
6. Disconnect the extruder signal cable from the motion controller board, connect it to the gray connector of the extruder signal adapter cable, and close the gray connector buckle so that the black connector of the extruder signal cable can be fixed to the gray connector buckle. The finished result is outlined in red in the following image.
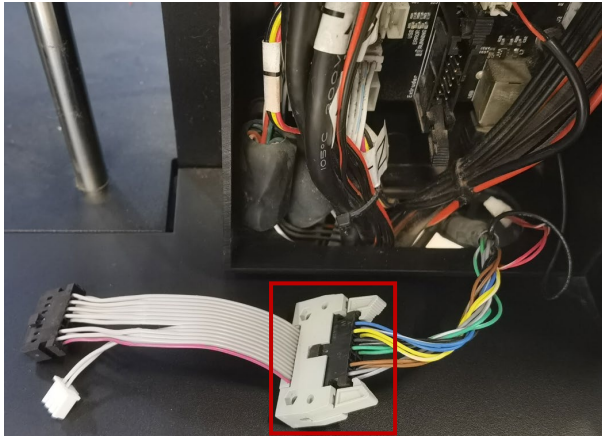
7. Connect the black connector of the extruder signal adapter cable to the terminal block where the extruder signal cable was plugged in Step 5. The finished result is outlined in red in the following image.
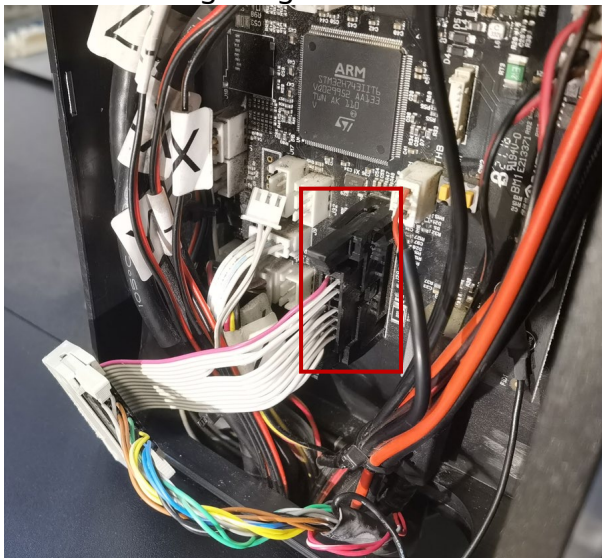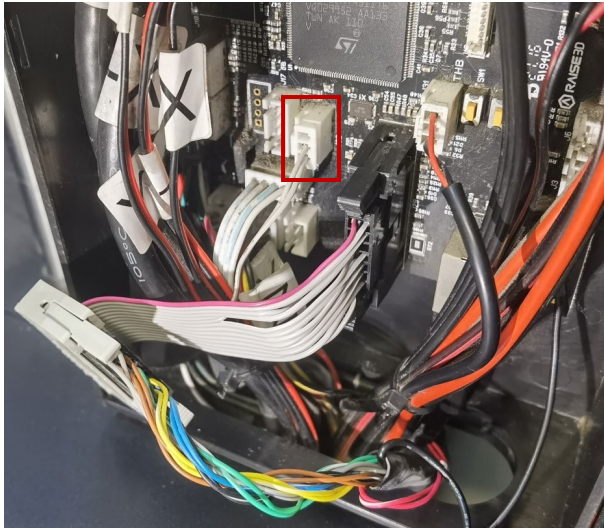

8. Connect the small white connector of the extruder signal adapter cable to the terminal J32 on the motion controller board, as outlined in red in the following image. Finally, close the electronic box cover. The installation of the auto-leveling assembly upgrade kit has been complete.

9. After installing the auto-leveling assembly upgrade kit, please check if your current version of Pro2 series printer supports Hyper Speed printing mode or not.
   a) If the Pro2 series printer does not support Hyper Speed printing mode:
      i. Please first visit the Raise3D official website https://support.raise3d.com/hs-ot.html to register and apply for the Hyper Speed printing upgrade. You will receive an email informing you of the download links for the RaiseTouch (Version 1.9.1) software upgrade package, a user manual and an hs key file (.hsactivekey). Please click on the links to download the software upgrade package and the hs key file to the root directory of your USB disk, and prepare your printer for the Hyper Speed printing upgrade according to the downloaded user manual.
      ii. Then, visit https://s1.raise3d.com/2025/01/use_probe.key to download a use_probe.key file, which is used to identify the printer that has installed the auto-leveling assembly upgrade kit, and save it to the root directory of the same USB disk.
      iii. Insert the USB disk into the USB interface of the printer. Power off the printer, and then restart it to complete the software configuration for the auto-leveling function.
   b) If the Pro2 series printer supports Hyper Speed printing mode, but the RaiseTouch has not been upgraded to Version 1.9.1:
      i. Please first visit https://www.raise3d.com/download/ to download RaiseTouch Version 1.9.1 and save it to the root directory of your USB disk.
      ii. Then, visit https://s1.raise3d.com/2025/01/use_probe.key to download a use_probe.key file and save it to the root directory of the same USB disk.
      iii. Insert the USB disk into the USB interface of the printer. Power off the printer, and then restart it to complete the software configuration for the auto-leveling function.
   c) If the Pro2 series printer supports Hyper Speed printing mode, and the RaiseTouch has been upgraded to Version 1.9.1:
      i. Please visit https://s1.raise3d.com/2025/01/use_probe.key to download a use_probe.key file and save it to the root directory of a USB disk.
      ii. Insert the USB disk into the USB interface of the printer. Power off the printer, and then restart it to complete the software configuration for the auto-leveling function.

10. On the printer's touchscreen after the upgrade, tap 🔧 (Settings) > **Machine** > **Maintenance** > **Offset Calibration**, and follow the on-screen prompts to complete the five-step calibration to achieve the auto-leveling function.
11. If you have any question, please contact Raise3D after-sales service engineer.

[13.120-EN.1.0.20241218-Pro2 Series-How to Install the Auto-Leveling Assembly Upgrade Kit]

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