

The Introduction of the Flexible Steel Plate

Parts List :

Sovol 3D

Flexible build plate

Hairline finish on one side, 2 lift tabs(handles)

Magnetic Base

Soft material, strong magnetism, 3M adhesive with good stickness.

Installation Notes :

Before installation, please check if the size of the product fit your build plate, If yes, please continue the steps below.

1 Clean your build plate with isopropyl alcohol to make sure there is no any resin or dust left on the surface, It must be clean and dry, that's very important, otherwise, the magnetic base doesn't work. The most suitable temp to install the magnetic base is supposed to be 21°C-38°C, the most suitable humidity is supposed to be 40-60%. If the temp below 10°C, the adhesive will be too hard to stick on the stuff. If the temp in your city is low, please heat the magnetic base a little bit and then install. If it is already stuck, you can continue to use it, it will still have good stickness under the low temp.

2 After confirming the build plate is cleaned completely, then you can install the magnetic base on the build plate. Before installing, please check the most suitable position to place the magnetic base in case it is shifted. Once it is shifted, you may need to install again. And tear off the magnetic base carefully in case the adhesive fall off. After confirming the most suitable position, you need to tear off the 3m adhesive about 20mm and install. At the same time, press the magnetic base to make it stick on the build plate well. And follow this step to install it slowly, when one side is stuck, press another side, try not to let it have bubble. After installing, you need to press back and forth again to ensure that there is no gap between the build plate the magnetic base.

72 hours later, it will achieve the best effect.

3 Now, you can apply the the flexible steel plate on the magnetic base, please look the direction of those two handles, they should face you.

4 **You may need to adjust the z limit switch after installing**, it will be 2.7mm higher, that means the printing height will be reduced about 2.7mm. If you can find some replacement like the nuts and put them under the z limit switch to compensate the difference. But the printers are different, some may not have problem with it, so no need to adjust z limit switch.

5 Please level the build platform after installation to make sure there is no problem, then you can start to print.

Maintenance:

1. If the flexible steel plate is obviously bend and it doesn't work with the magnetic plate, you need to have a new flexible steel plate.
2. If there are some scratches on the fixible steel plate as well as the model, then you can wipe it back and forth with sandpaper to remove the scratches and clean it with isopropyl alcohol. If it is very obvious and deep, we suggest to replace it.
3. Before using, please check if there are fragments or residues between the flexible steel plate and the magnetic base, if there are, please clean that.

Use:

- Before using, please check if the magnetic base and the flexible steel plate are clean. If they are clean, you can apply the flexible steel plate to the magnetic base.
- You need to relevel, and make sure those two handles won't hit the resin vat, and the edge of flexible plate won't scratch the resin vat. If that happens, you need to replace the flexible plate or adjust the resin vat to solve this problem.
- If you print like before, use the side with hairline finish, then it will improve the stickness of the model a lot. If you found that the model doesn't stick on the plate well or it fall off, you may need to adjust your slicing, for example, to increase the exposure time, or reduce the time and speed distance of z up and down, if you found that the model is difficult to remove, we suggest you to reduce exposure time or use another side which has no hairline finish to print.
- After the print finished, you can catch that two handles to remove the flexible steel plate. If the model is too small, we suggest to wear the groves to push the model off. If it doesn't work, we suggest to remove it with spatula. But be careful, do no leave scratches on the plate and do not get hurt. If your model is large, we suggest you to bend the flexible plate lightly to take off the model, if some parts are still stick on the flexible plate, you can remove it with spatula carefully.
- If you have two flexible steel plates, after you remove one, you can clean the magnetic base then take another flexible steel plate to print.
- After removing the model, please clean the flexible steel plate and dry it, so you can use it next time.

Support:

If you have any other question, please watch our video about how to install Sovol flexible steel plate or contact us on facebook sovol3d or email info@sovol3d.com, we will help you. Thanks for purchasing from us!



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