

# KAMERAKRAFT FSC PRO V2 35MM & 120

## FIRST SET UP

**This document will explain and show you how to set up your FSC PRO V2.**

The FSC PRO V2 is composed of various parts that you will need to assemble to get a functional product. Please follow these easy steps to be sure it is all ready and safe to use.

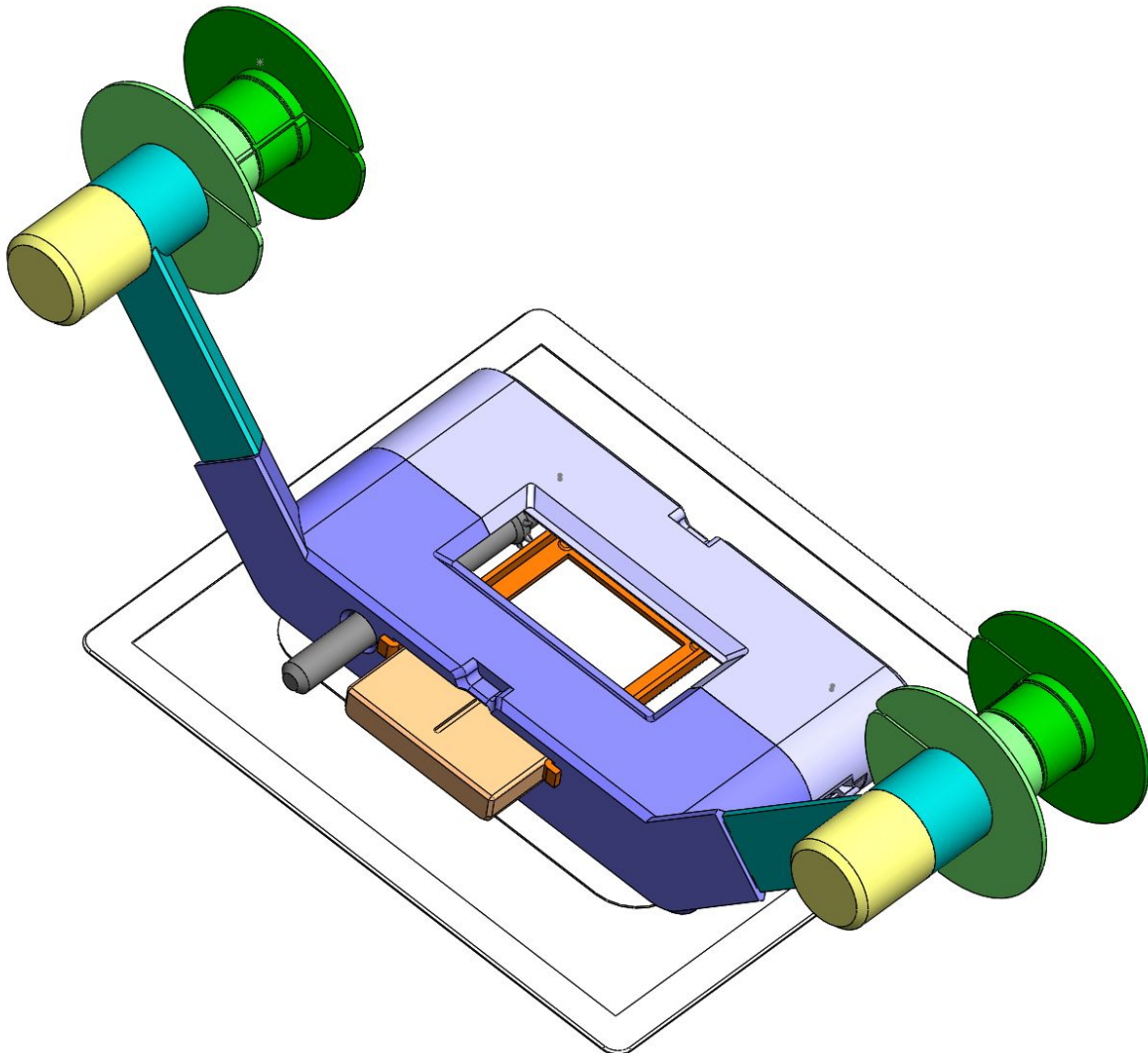
### Parts list

The FSC PRO 2 35mm and 120 share these main components:

- **BODY FRONT** and **BODY BACK** parts that compose the main body frame.
- Two **ARMS**.
- Two **KNOBS**.
- Two **SPOOL A** and **SPOOL B**.
- One **BASE**.

The FSC PRO 2 35mm has these additional special components:

- **SLIDE PUSHER** and **SLIDE CARRIER**.
- **GEAR**.
- **LENS TUBE**.



## Assembly steps of the main body (120)

Please follow these steps to assemble your carrier. Notice that I am using glue for permanently assembling my parts. You must ensure that the glue you are using is recommended for glueing plastic parts and that it has totally dried before inserting any film in it. I recommend waiting at least 24h to be sure the glue dries to the core.

### **STEP 1**

Check all your parts and verify your own kit is complete. Here is the 120 version. The 35mm version will have at least four parts more: the gear, the slide pusher, the slide carrier, lens tube elements not shown in the following pictures. Identify each part and be sure to know them before starting.

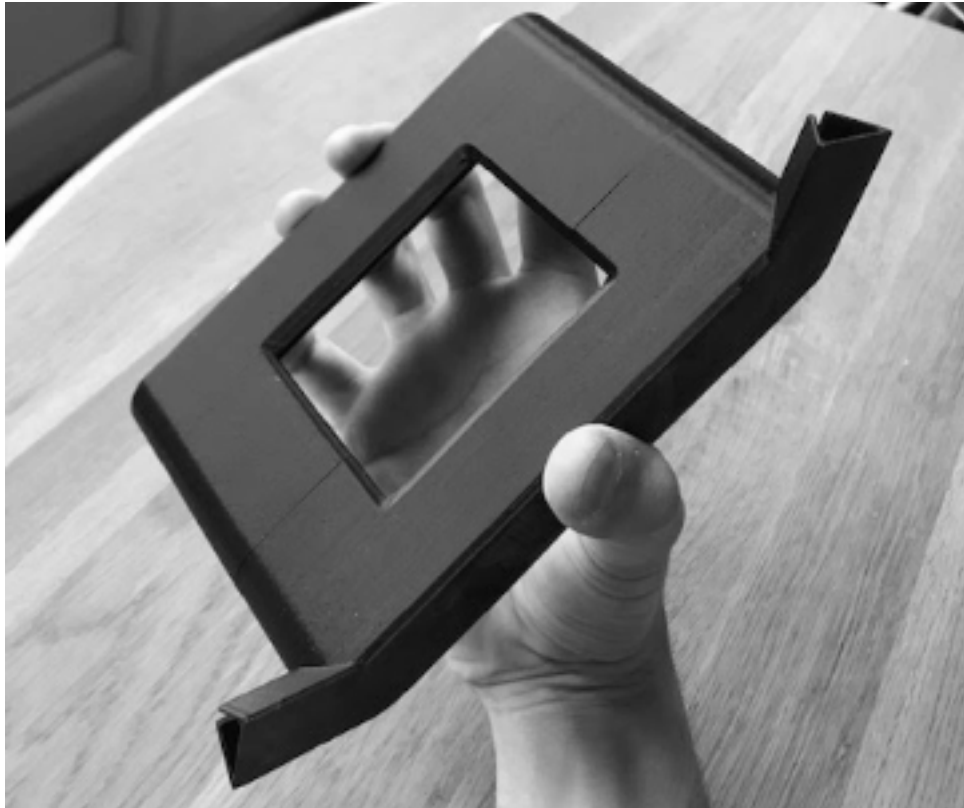


## **STEP 2**

Start assembling BODY BACK and BODY FRONT parts. Use some small drops of glue on the surface shown below. No need to put too much glue. It will only take longer to dry and possibly look ugly.

Once ready, slide the two parts against each other and apply pressure for some time. If you own the 35mm assembly version, you have to insert the GEAR part **before** gluing the two BODIEs parts together. Read your glue recommendations. In my case, I left a weight on that sub assembly for around 5 - 10 minutes. Use that time to glue the following parts.





### **STEP 3**

We will now assemble the SP00L A (x2) and SP00L B (x2) parts. Just like before, apply some glue on the surface shown below. One more time, be gentle with the glue, no need to overdo it.



Once ready press each SPOOL A against each SPOOL B (notice that there is a slot to allow the film to be inserted in it. The slot must be well lined up when you assemble the two parts). Keep pressure on it for some time or apply a weight on it so that you can free your hands. for the coming steps.



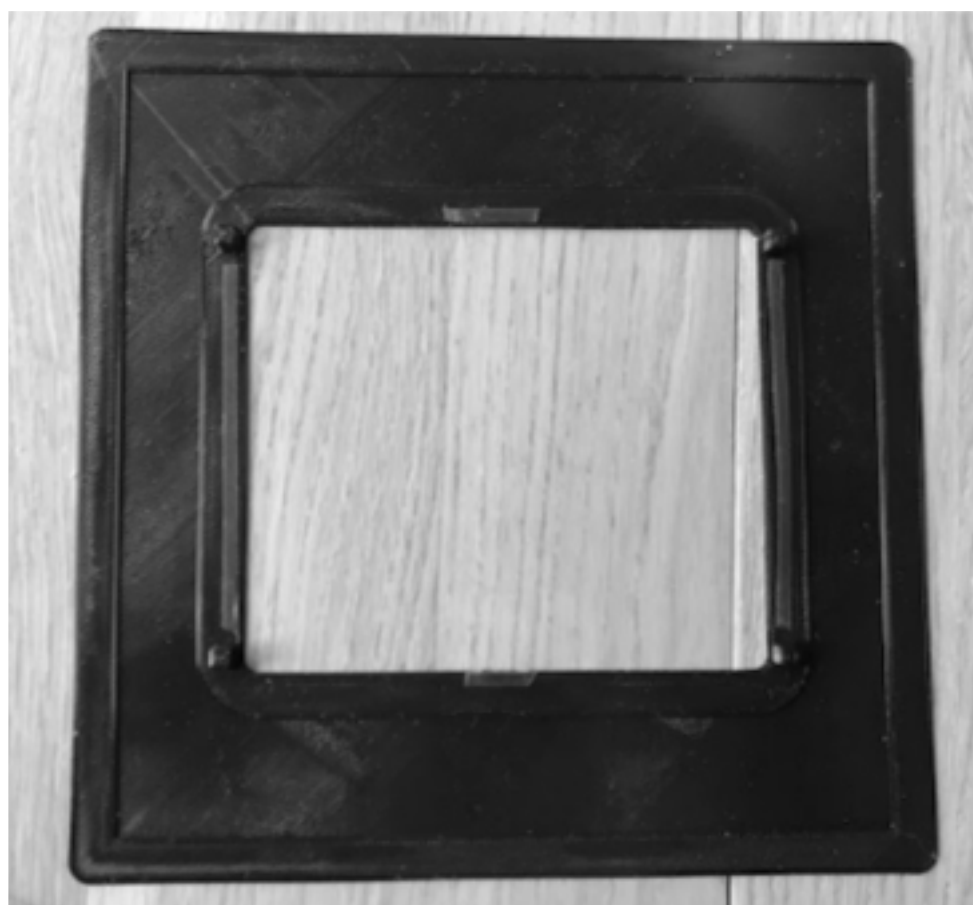
#### **STEP 4**

While the previous parts are now drying, we will prepare the base part. I am using some double sided 3mm wide tape that you can easily find in big distribution websites. Mine is made by 3M and is red colour, very easily recognisable.

We will cut and apply the tape all around the frame window so that the BODY assemble will be solidly held to that part.

You can also use glue for this part, I prefer using tape as it leaves no marks and is totally removable if needed.

No need to peel off the protective tape layer for now. Keep it as is for the moment.



## **STEP 5**

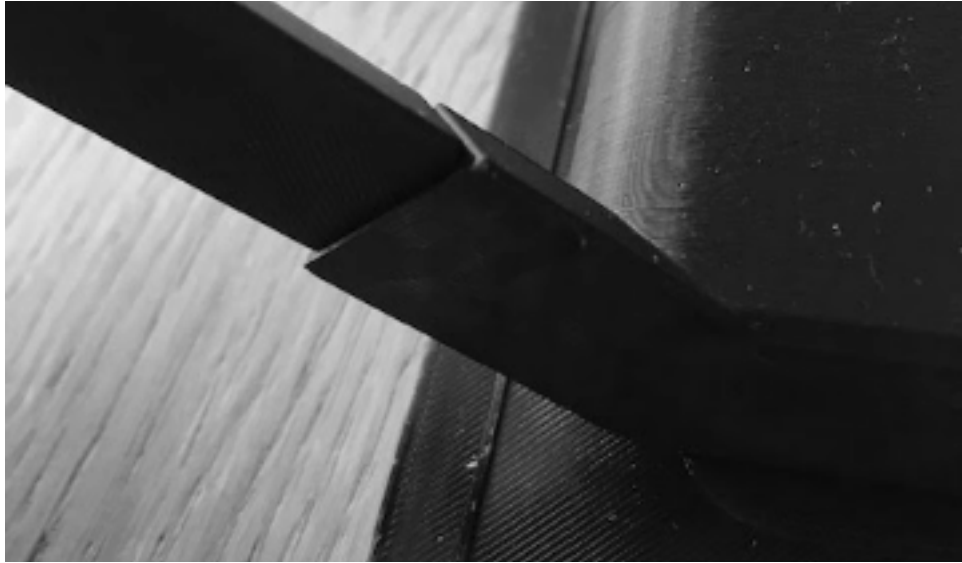
Let's now prepare the arms. For that I am again using my 3mm double sided tape. Cut a small strip of 1cm and apply it on each side of the end of the arm (the side that will be inserted in BODY assembly). Position and fold the end of the tape as shown on the below pictures.





## **STEP 6**

Now that the BODY assembly should be dried (verify the glue had enough time to dry before continuing), we will assemble the arms on it. Simply remove the protective layer of each double sided tape strip and slide the arms until they stop. The double sided adhesive will create some friction, and this is good. To secure the assembly, I am using electric tape and make two or three well tight turns around each junction.





## **STEP 7**

We will now work on the KNOB parts. The knob part will be inserted atop of each arm and SPOOL assemblies should slide and lock on it. To be efficient, you must first check that the hook at the end of the knob is well printed. Prints that are done too fast might end up like this:



If your part looks like this, you will have to use some file to gently make a real step. Be careful with knives as you might accidentally cut the hook. It should look like this once properly reworked:



Once this part is ready, insert it in the arm and then insert a spool in it. Slide it until it stops and verify the hook is holding the spool back.



If the spool is not held correctly (the hook seems to be slightly unlocked for no apparent reason), try first to remove the spool and insert it from the opposite face. Otherwise a simple and quick fix consists in using a hair dryer to very slightly bend the knob hook so that it clicks more firmly. Be extremely cautious with the hair dryer as too much heat could really melt down the part. So be gentle and do it little by little. Once completely cooled down, try again inserting the spool and see how it helps.



Once you finally worked out a position that fits and reworked the part to your will, I like to do some markings on my spools and knobs to remember which knob works with which spool in which position. In my case, I used some coloured acrylic paint but you might actually use anything that sticks on PLA.



## **STEP 8**

Finally, I recommend sticking your assembly with some electrical tape to your lighttable or support. Simply cut two strips all along the edge of the base part. The good thing about electrical tape is that it is very easy to remove in case you have to.



### **EXTRA STEP A (for 35mm setup only)**

The slide carrier is straightforward to install. Simply slides it in. If it requires too much strength to do so, try to determine which dimension has been messed up by the printer and gently sand it down until it is easy enough to insert. For scanning regular 35mm film strips, remove the slides carrier.

### **EXTRA STEP B (for 35mm setup only)**

The lens tube is very straightforward to assemble. You can either use glue or tape to hold all parts together.

Then use some strong glue to glue it on the BODY assembly. Again, apply some pressure on it long enough to be sure the glue has done its job correctly.