

Serene arm installation instructions for Easyrig 2.5/3 medium and long arm V0.8

Congratulations you just got your Serene spring arm! Since we are dealing with very strong torque and forces for the spring itself, we want you to read all the instructions carefully before using it. It is very important to follow the instructions, since handling these units in a non-safe manner can cause injuries and broken camera equipment. Following the guide lines will ensure that everything is set up correctly and in a safe way.

Before, you can use the Serene arm, you have to prepare the Easyrig 2.5/3/Vario 400 arm. These instructions shows how to prepare a medium +130mm arm or a Easyrig long +230mm arm. If you have a standard arm, please follow the correct documentation!

IF you feel slightest worried about the procedure, take your arm to a local workshop, that can help you or a rental place that has a service center. However dont be scared since this is a very easy installation, and it gets you to know the ins and out better of the Easyrig as well!

1. Prepare your Easyrig arm, by moving the Easyrig hook as far from the front as possible, so its not in the way.



2. Remove the front cup by unscrewing the two screws with a Allen tool. Standard arms might not have these two screws, instead use a knife or other sharp object to pry the front cup from the Easyrig arm.



3. Pull out the cord until you can wire it around the Easyrig arm a couple of times, and then use a clamp to secure it, so the string doesn't want to go back into the Easyrig.



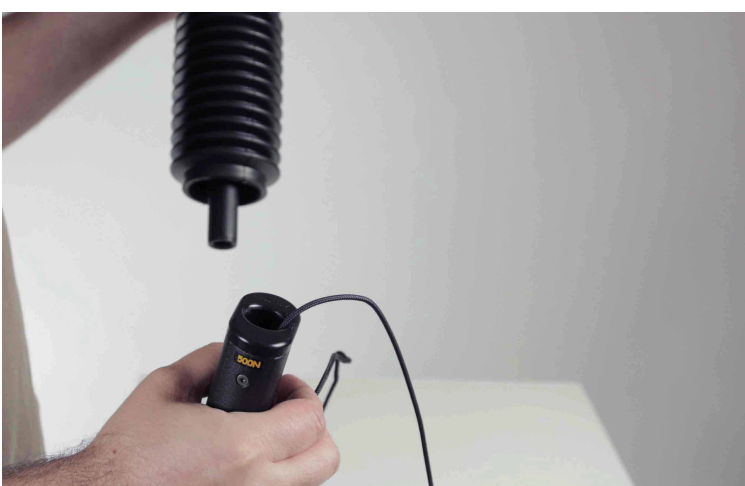
4. Loosen the plastic cup from the hook, and remove the tape that covers the knot. Untie or cut off the knot, and remove the hook and the cup from the string. We won't need the original Easyrig cord anymore.



5. Grab the cord, and remove the clamp. Slowly release the cord into the Easyrig arm, until you feel there is no more force dragging it inwards, and then let go.



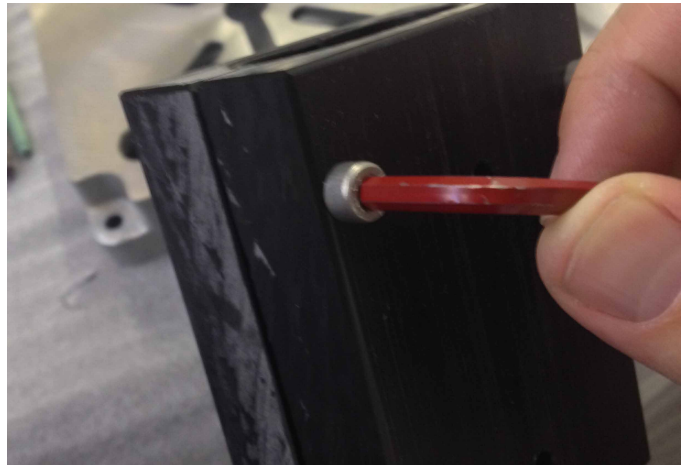
6. Separate the L-tube from the lower tube that contain the shock absorber.



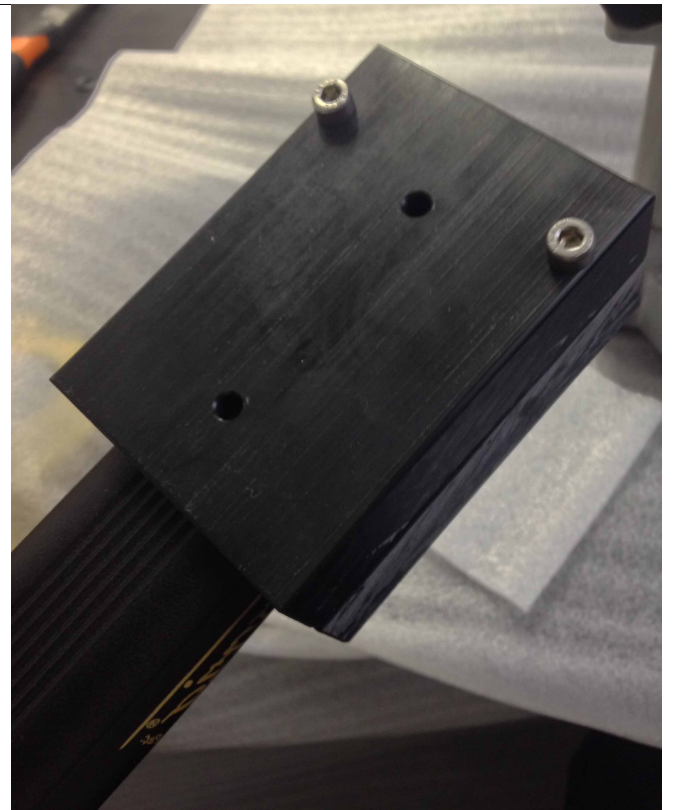
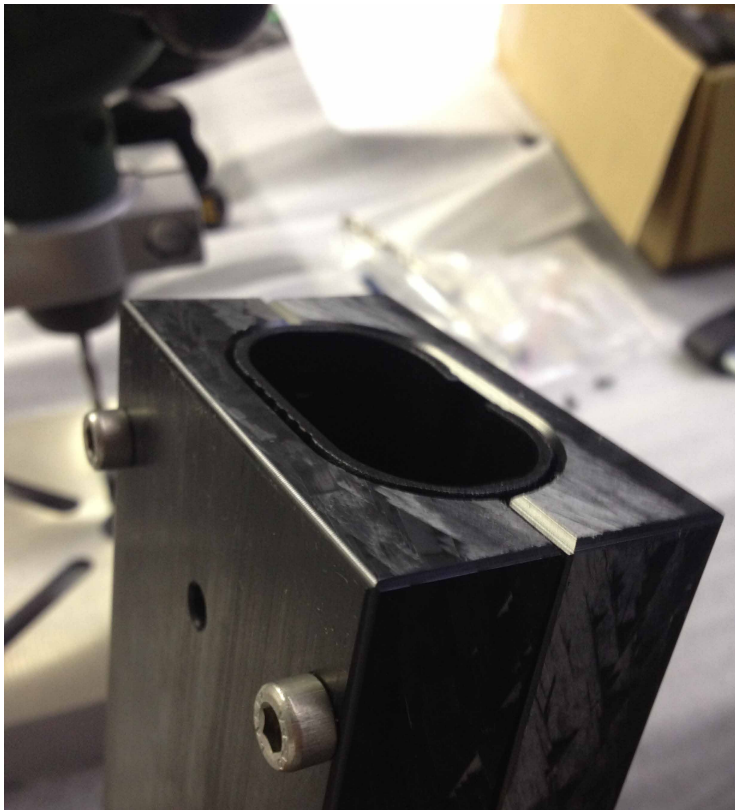
7. Unscrew and slide of the slider from the arm.



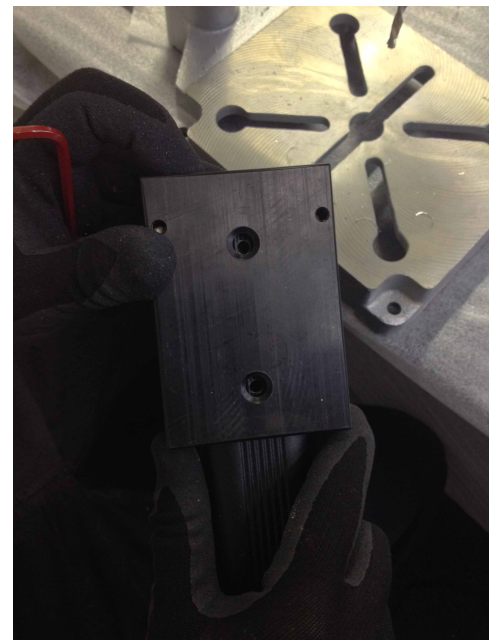
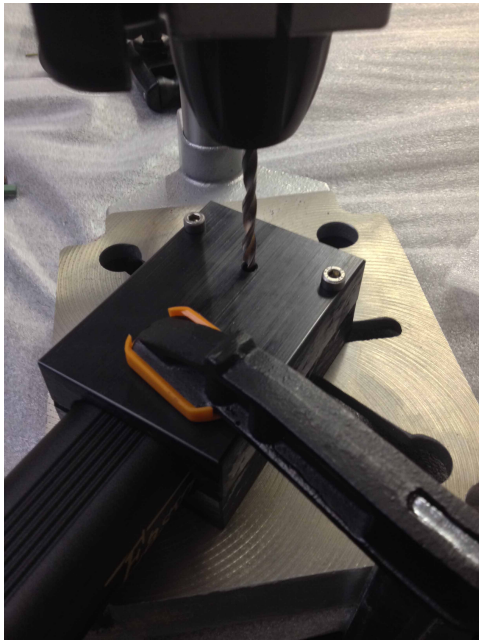
8. Take out the drill stencils and the two supplied M5 allen screws. Place the stencils so they align with the front edge of the Easyrig arm, and the two smaller holes facing upwards.



9. Insert the two M5 screws, and use a Allen tool to tighten it. Very important is to make sure the two M5 holes are facing the front of the Easyrig arm!



10. Fasten the Easyrig arm securely preferably on a table top drill and secure the stencil in place. Use a 5mm (0.2") diameter drill, and drill in the centre, until your just through. After drilling the front centre hole, please drill the next one as well. This is where you will later place the Easyrig knob.

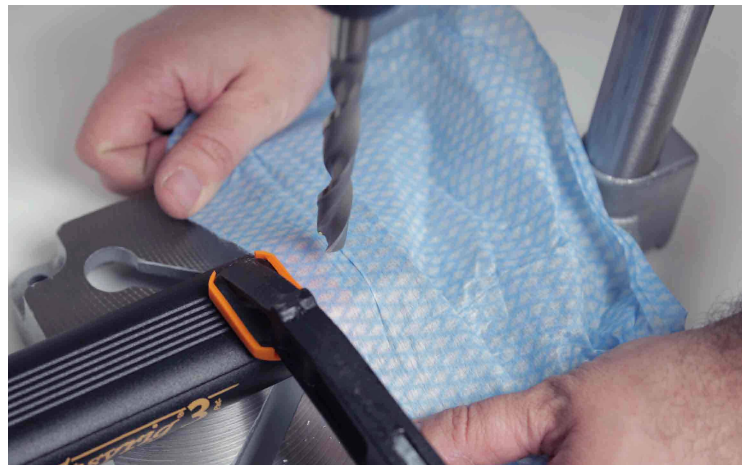


11. After you've created the 5mm (0.2") diameter hole, loosen up the M5 screws on the drill stencil, and remove the stencil from the Easyrig arm. Rotate it 180 degrees so the larger holes are facing you and push the stencil back again on the Easyrig arm and tighten the M5s again. Be sure to align everything. Replace the drill with a 8mm (0.315") diameter one, and slowly drill a larger hole straight over the first ones.

12. Finish off with a 12mm (0.47") diameter drill in the outer guides. Remember to take it slowly and remove plastic spill from the guide, and gradually go downwards when using the final 12mm size.



13. In order to clear the hole from any unwanted sharp aluminium bits, you can use a thin piece of cloth over the hole, and drill it again with the 12mm diameter drill. This will sand down the now exposed aluminium edges, and make the hole smoother.

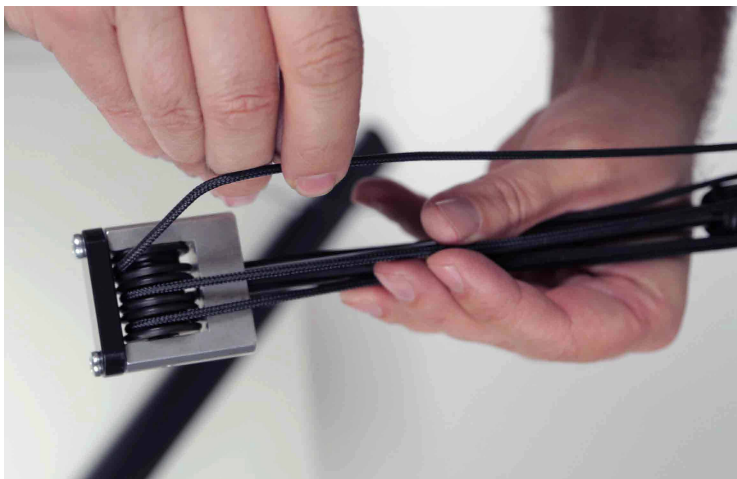


14. If needed, trim down any leftover spill carefully with a file, making sure everything is nice and smooth!



15. Now replace the cord, with the provided longer one. Be sure to follow Easyrig tutorial how to re-string the cord at: <http://vimeo.com/83685316>

NOTE! You must match the absorber strength in the same way you would do without the Serene, matching camera setup weight!



17. Take out the cord from underneath the slider, so it goes under the pulley. And then attach the slider with the knob from above. The same is true for standard arm users. First pull the string out on the bottom, then attach the pulley back into the Easyrig, and secure it with the two screws simultaneously.



19. While pulling the string a little against you, secure the two M5 screws on the bottom. Make sure the brackets are exactly behind the two screw holes at the front!



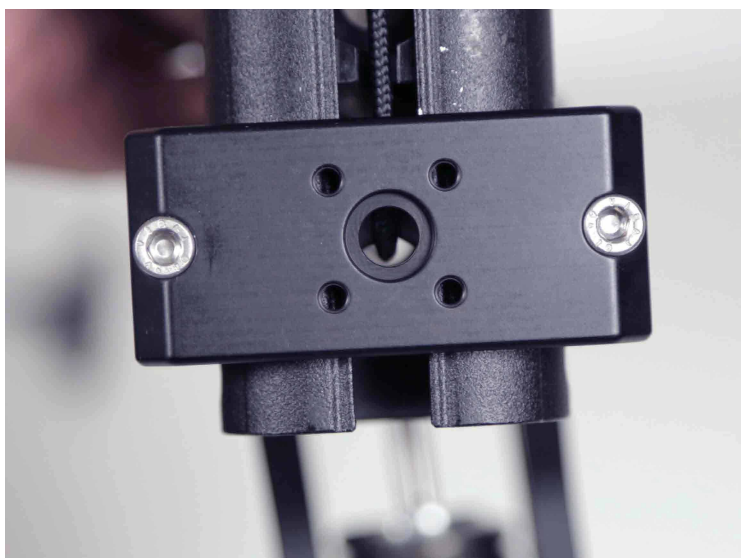
17 Attach the slider upside down, so the groove on the slider where the line is passing, is facing downwards. You will attach the adjustment knob from the upside, in the hole furthest away from the front, turning this into a static position.



18. Open up the two brackets on the Serene arm, by unscrewing the two M5 screws at the bottom. Push the cord through the upper front hole of the Easyrig arm, and into the hole on the upper of the two brackets, so it comes out on the other side.



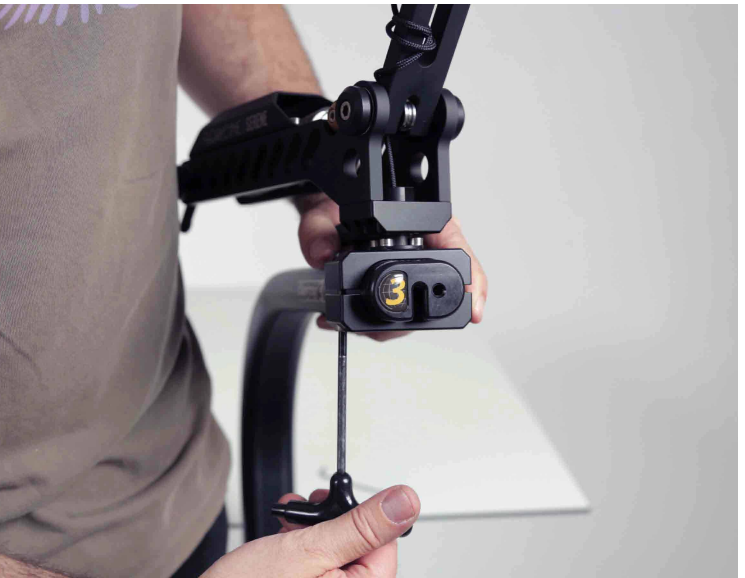
20. Looking from the below, make sure that the cord is going exactly in the centre, up into the hole of the Serene arm. If you have a medium arm, you can slightly reposition the Easyrig slider, if the pulley isn't exactly centered.



21. Seen from the front, you should clearly see the cord going into the Serene in the centre if you pull the cord so its tightened.



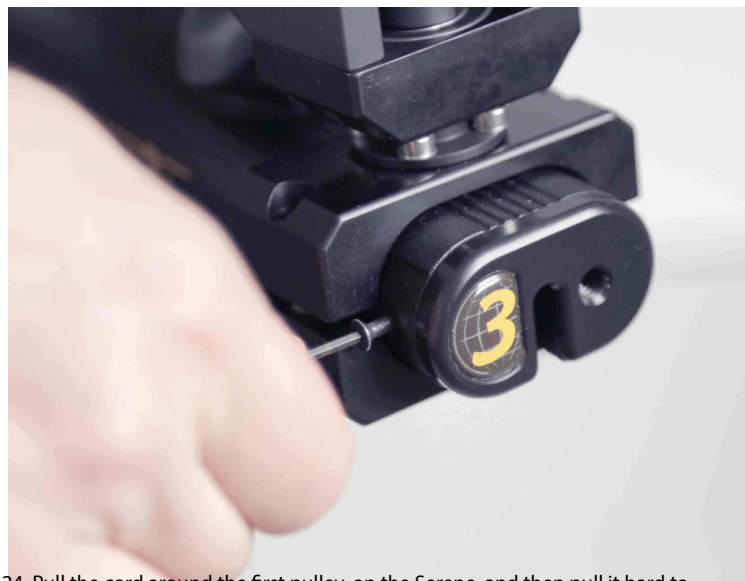
23. Tighten the two M5 screws properly, to secure that the Serene is properly fastened. No need to overdo it though! The Easyrig arm is relatively thin, and can get deformed if you go into "extreme hulk mode".



25. Remove the small m3 secure screw in the fonn, and pull the hook over the pulley to the underside of the spring arm. The cord should pull the hook against the underside. If everything feels correct and you can feel the tension from the absorber, you can now cut away extra cord if its too much to fit inside the plastic cap and seal the end with a lighter.



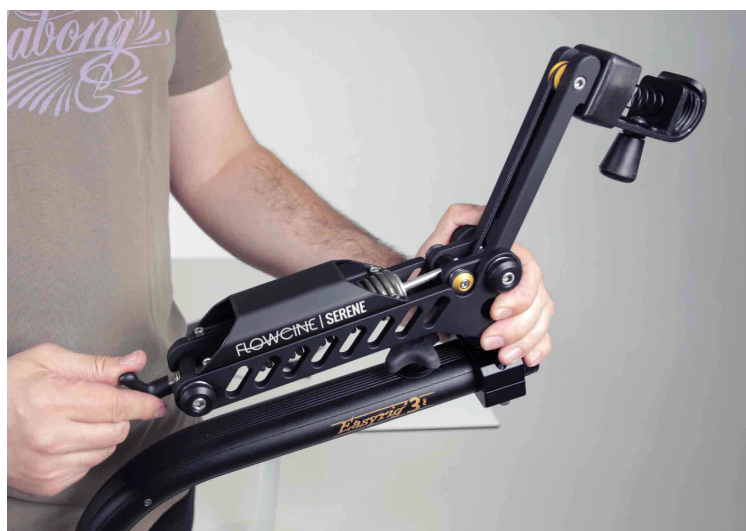
22. Put back the front cap, either by screwing the two screws if you got a medium arm, or just push in the front cap if you got a standard Easyrig arm.



24. Pull the cord around the first pulley, on the Serene, and then pull it hard to extend it at its maximum. Put back the Easyrig hook, right before the second orange pulley, and tie the knot there. The knot should be about aligned with the front pulley after tightened.



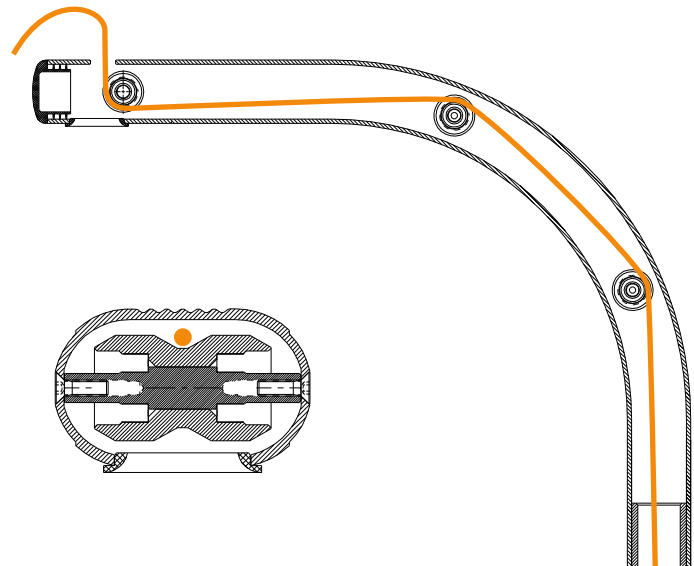
26. Adjust the tension on the spring with the kipp lever at the back. Now your ready for your first experience with the Serene arm!



27. Congratulations! You now got a very cool adaption to your Easyrig, and will be envied by all the others on set ;) To adjust the tension properly, put on your camera, and adjust the kipp, until the arm is just above horizon level! The Serene arm is shipped with a light spring installed and is tensioned to about 8-10kg strength.



fig 1. The correct way to string the cord inside the Easyrig arm.



28. The Serene has two springs. One heavy duty for weights between 14kg and 20kg and one light spring for between 6kg and 14kg. To change springs, remove the protection cover with the four M4 allen screws. Unwind the kipp lever, so the long M6 screw is going out of the spring plug. Hold the spring while doing this so it doesn't fall and damage anything. Then simply unwind the spring from the black cylinder that is connected to the sprice. Hold firmly under this black cylinder on the two long M4 screws, so they don't get bent while unwinding it. Then put the other spring in place. You can use some non-permanent loctite on this M6 so the spring doesn't unwind itself when tightening the spring later on in the back. The light spring already is shipped with some loctite on the M6 screw. There will be a video tutorial on how to change springs on the website very soon.

29. Note of caution!

Please check so spring always is attached to the front and doesn't unscrew itself, when adjusting the kipp lever in the back. If it does, please add a little non-permanent Loctite to the front screw while putting on the spring.

Please check if the plugs on the spring starts to unscrew themselves when adjusting the kipp lever. Please let us know if that ever happens!

The spring should ALWAYS be under some pretension, unless you're changing springs. Tension it at least 10mm (so you can visible see some air between all coils on the spring) before you do anything.

Always release the Easyrig hook, gently close to the arm. If you let it go from far below, it might go up and over the pulley in the front.

Be sure the Easyrig cord is routed like the illustration above. If the cord isn't in the center on each pulley, it will create friction, and the string will stutter. It also has to go over the first two pulleys (closest to the absorber) and under the last closest to front, otherwise the cord will scratch on the Easyrig arm, and sooner or later snap off!

Be careful when you take on/off your Easyrig! The Serene arm adds some extra length you aren't used to, and since the arm swivels it comes with quite a force if you bend forward. We don't want any injuries on set! So better ask for some help, than doing everything on your own! Use the shock cord at the back on the Serene arm to avoid the Serene arm swinging around.

Don't forget that the absorber in your Easyrig must match the weight of your camera+gimbal setup.