



Kenobi Lightsaber (Ep. IV)



Daniel Josvai

VIEW IN BROWSER

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Summary

This is the Ep. IV version as seen in 1977. For the 2022 Disney+ Mini Series version check my other model.

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UPDATE 2022.07.27.:

This model is the Ep. IV version as the original prop looked in 1977. Recently I've designed a new one based on the 2022 Disney+ Mini Series prop. You can check it here: <https://www.printables.com/model/247387-kenobi-lightsaber-2022-series>

Happy (post) Star Wars day everyone!

This year I've decided to do another iconic weapon from the Original Trilogy and so I've remixed the lightsaber model of Jacky Wan aka Valcrow of Redicubrics (one of the first things, I've ever 3D printed).

The original model is pretty amazing with technical solutions that should be taught, however it has a bit of a weak spot at the clamp-pin connection that tends to break while playing with the hilt or wearing it for cosplay unless you glue it together.

First I've decided to only implement the connections, I've used for my

graflex lightsaber, but then I got carried away in the process and remodeled other parts of the hilt too.

As Jacky's original model this one is also optimized for support free fdm printing and easy assembly that requires no glue. I've printed most parts at 0,15 mm layer height with Fillamentum PLA on my Ultimaker 2+.

Happy printing and may the sticking force be with your buildplates!

Original model by Jacky Wan: <https://www.youmagine.com/designs/starwars-lightsaber-complex-version>

Post processing tips also by him: <https://ultimaker.com/en/blog/82-painting-3d-printed-models>

Graflex Lightsaber: <https://cults3d.com/en/3d-model/gadget/graflex-lightsaber>

Print instructions Category: Toys & Games Post-Printing

Behold the improvised assembly figure! :)

Assembly instructions:

-> I. Assemble the three emitter pieces in the orientation and order seen on the photo. They should friction fit nicely. This is also a good test for the other parts too. If they fit together easily, you won't have problems assembling the rest of the hilt, but if they don't try adjusting your horizontal offset/compensation values in your slicer.

-> II. Put the pinwheel on the threaded axle and tighten it. The wider part of the pinwheel should face the wider part (bottom) of the axle. Attach the axle on one end to the riflegrenade and on the other end to the emitter assembly. Both connections use the same twist-lock mechanism.

-> III. Place the knobs into the clamp. The bottom side of the knobs should be flush with the inner side of the clamp.

-> IV. Insert the matching ends of the riflegrenade and the heatsink (the end WITHOUT snap fits) into the clamp and turn them clockwise. The smaller one of the knobs should be closer to the riflegrenade.

IMPORTANT: Notice the angular window on the clamp! Both the riflegrenade and the heatsink has a specific groove on them, that matches the corresponding end of the window. The groove on the heatsink is rectangular, while the one on the riflegrenade is chamfered. Make sure, that AFTER you have turned the parts the grooves are aligned with the window!

-> V. Place the washer on the side pin of the lever and insert it into the hole on the side of the clamp. You should see the pin through the window. The lever should point towards the bottom of the hilt.

-> VI. Push the latch into the window on the clamp until its flush with the

surrounding surface.

-> VII. Slide the lightbulbs into the rail on the clamp.

-> VIII. Slide the pommel onto the heatsink and turn it clockwise until you hear a satisfying click. :)

For the D-ring you have three options:

Model files



kenobi_clamp_lever.stl



kenobi_clamp_lever_washer.stl



kenobi_knobs.stl



kenobi_riflegrenade.stl



kenobi_clamp_latch.stl



kenobi_d-ring.stl



kenobi_pinwheel.stl



kenobi_heatsink.stl



kenobi_lightbulbs.stl



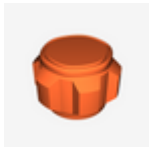
kenobi_emitter_bearing_outer.stl



kenobi_clamp.stl



kenobi_emitter_bearing_inner.stl



kenobi_pommel.stl



kenobi_emitter_lens.stl



kenobi_d-ring_jig.stl



kenobi_axle.stl

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