



Custom Lightsaber Assembly (No glue, No Supports)



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Summary

To become a Jedi, you must assemble your lightsaber. Print the parts and make your first steps to becoming a Jedi Master

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Introduction

This is a **no-glue-required** build. The parts are threaded to make for easy assembly. Perfect as a gift or to make a fine addition to your collection.

Parts list

- 1x Pommel
- 1x Hexacore Diatium Power Cells
- 3x Palladium Vortex Rings
- 1x Power Casing
- 1x Leather Wrap
- 1x Midgrip
- 1x Cycling Energy Fields
- 1x Kyber Crystal
- 1x Magnetic Stabilization Ring
- 1x Emitter
- 1x Emitter Shroud

1x Activation Input
1x Giftbox (optional) fits a prusament box
1x Doubleblade adapter (optional) - Only part that requires supports.

Assembly

Important note: Do not screw too tightly or risk popping the screw off the part.

Note: nothing is needed other than the printed parts.

1. Screw the Pommel and the Hexacore Diatium Power Cells together.
2. Place the three Palladium Vortex Rings on the shaft of the Hexacore Diatium Power Cells.
3. Screw the Power Casing to the Pommel
4. Slide the Leather Wrap onto the Power Casing.
5. Screw the Midgrip onto the Power Casing.
6. Push the Kyber Crystal into the Cycling Energy Field.
7. Friction fit the Magnetic Stabilization Ring onto the Cycling Energy Field.
8. Screw the Cycling Energy Field into the Midgrip.
9. Place the Emitter loosely into the Emitter Shroud.
10. Screw the Emitter onto the Magnetic Stabilization Ring.
11. Screw the Shroud onto the Magnetic Stabilization Ring.
12. Press the Activation Input onto the Midgrip.

Now you are ready to become a Jedi Master.

UPDATE 12/24/23

Power Cycling Fields - by increasing the prongs for additional stability.

Magnetic Stabilization Ring - Modified to accommodate the PCF change and reduced the tolerance between the two parts for a better fit.

Kyber Crystal - slightly down for better tolerance with the Magnetic Stabilization Ring.

UPDATE 12/11/23 - Adjusted the Box Inserts to accommodate the 12/9/23 changes.

UPDATE 12/9/23 - I took in feedback and redesigned parts to make every part supportless (except the optional doubleblade adapter). Test-printed and assembled the parts for QA. See details below.

Pommel - Removed the dubious ring that was to act as a stop for the wrap

Power Cells - No change

Vortex Rings - Reduced height to create room for modified midgrip base

Power Casing - No change

Leather Wrap - Made it thicker to better align with the Midgrip and for cleaner printing

Midgrip - Modified the base to eliminate a floating piece and for strong print stability

Activation Input - Changed the insert pattern.

Cycling Energy Fields - Adjusted model to make bridging possible and added a top

Kyber Crystal - No change

Magnetic Stabilization Ring - Adjusted print base and changed screw orientation

Emitter - Changed screw orientation

Shroud - No change

Doubleblade adapter - Removed the dubious ring.

This is part of a friendly competition with my buddy
@TheTrueMzungu_65757, so please give his saber a look as well!

Model files



pommel.stl



hexacore-diatium-power-cells.stl



palladium-vortex-rings.stl



power-case.stl



leather-wrapped-handle.stl



midgrip.stl



activation-input.stl



cycling-energy-field.stl

📄 1-5-24 Update to correct the thread orientation



kyber-crystal-v2.stl



magnetic-stabilization-ring.stl

📄 1-5-24 Update to correct the thread orientation



emitter.stl



shroud.stl



box-insert-v4.stl

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