100 Modular
Lamp
Collection

Advanced

ASSEMBLY GUIDELINES

A comprehensive assembly guide for creating unique modular lighting designs with interchangeable components.

Created by
Nuone Design

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Thank you for being part of the 100 Modular Lamp Collection!

This guide was created to help you understand and get the most out of the collection. Inside, you'll find everything you need to know about the different Lamp Shades, Bases, Common Parts (CPs), and how they work together.

Take your time, explore the different components, and don't be afraid to experiment. The system is designed to be flexible and give you plenty of possibilities to create your own combinations.

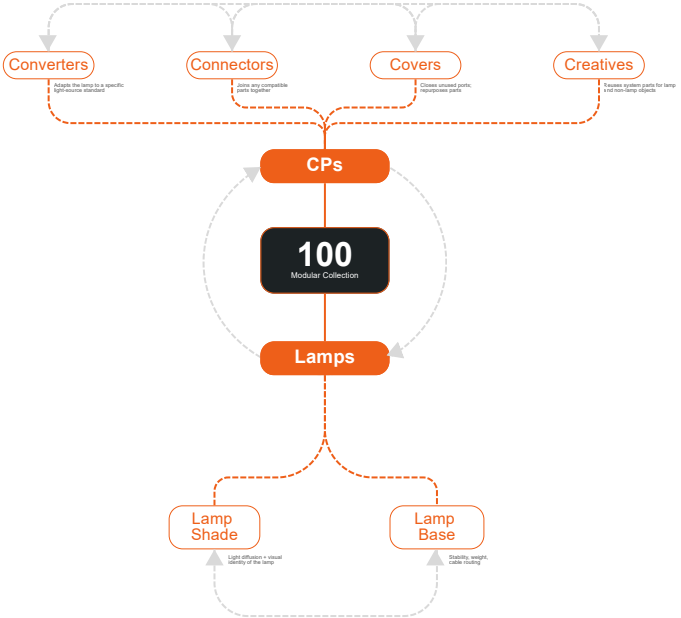
I hope this guide makes the process easy to understand and helps you enjoy the collection even more.

Thanks again, and let's get started!

System Overview

This overview shows how the different elements of the 100 Modular lamp collection relate to each other and how they work together as one modular system.

The system is built around a simple modular structure that brings all parts of the collection together. **Lamps** form the foundation, while **CPs** (common parts) expand how they can be used, connected, and configured.



3D Printing Recommendations

The modular system is designed to be easy to print, assemble, and customize. Each component has been developed with practical 3D printing in mind, while maintaining the fit and functionality needed for the modular connections. For the best printing results and reliable assembly, follow the recommendations below and use the provided print profiles whenever available.

Printer & Slicer
The models are tested with Bambu Lab printers and Bambu Studio. Where available, use the provided Bambu Studio print profiles for the recommended settings.

Materials
PLA is recommended for most structural components, bases, connectors, and accessories.
PETG can be used for compatible shades and other parts where greater flexibility or a different appearance is desired.

Print Orientation
Whenever possible, print the models in the recommended orientation provided in the print profile. This helps achieve the intended strength, surface quality, and fit of the modular connections.

Supports
Almost all of components are designed to print without supports. If a model requires supports, this will be indicated in its corresponding print profile or model description.

Adjust Settings to Your Needs
The recommended settings are a good starting point, and you can adjust them based on your printer, filament, desired quality, strength, and specific purpose. Feel free to experiment and find the settings that work best for your setup and needs.

Check the Fit
The modular locking system is designed to push in and twist gently.
Do not force or overtighten the components, as this can affect the fit over time.

Safety & Usage

Please read the following guidelines before assembling or using a printed lamp.

Check the printed parts before use
Make sure all parts are fully printed, properly assembled, and free from cracks, damage, or excessive deformation before use.

Use LED light sources
Use a suitable LED light source with low heat output. Do not use halogen, incandescent, or other high-temperature bulbs unless specifically stated for a particular design.

Keep the light source at a safe distance
Make sure the light source does not come into direct contact with the printed parts. Maintain sufficient clearance between the light source and the shade or other printed components.

Keep away from excessive heat
Do not place the lamp near heaters, open flames, or other sources of excessive heat.

Electrical components
Use electrical components that are suitable for the intended application and follow the manufacturer's instructions when installing or connecting them. Always disconnect the power before working on the socket, light source, or electrical components.

Do not force the connections
The modular locking system is designed to be assembled with gentle pressure and twisting. Do not force or overtighten the connections, as this may damage the printed parts.

Regularly check your lamp
After assembly and during use, occasionally check the printed parts and connections for signs of heat, deformation, damage, or loosening. Stop using the lamp if you notice anything unusual.

Design, Materials & Testing
For safety, I focus on three main areas: the material, the electrical components, and the design itself.

The printed parts are designed with suitable materials and print settings in mind. Always use the recommended material and printing settings when possible.

I use commercially available components and LED light sources, and check that the manufacturers provide the relevant safety and conformity information.

The designs are developed with sufficient space around the light source for ventilation and to help reduce unnecessary heat build-up. I also use and test the lamps myself for extended periods during development to observe how the printed parts and overall design behave during use.

These tests are part of my own design and development process and are not a substitute for professional testing, certification, or conformity assessment. For anyone planning to use these designs commercially, especially for selling finished lighting products in the EU, I recommend having the finished product professionally tested and assessed according to the applicable requirements and standards, such as IEC/EN 60598 where applicable.

Standard External Components

Some parts of the 100 Modular Collection require a few standard external components. This page lists the required parts, with reference images and links to help you find the right ones.

E27 LED Bulb	E14 LED Bulb	E27 Socket	E14 Socket	MH001 / Bambu Lab LED Kit
				
Product Link	Product Link	Product Link	Product Link	Product Link

Portable LED Puck	Rubber Bumpers (100 mm)	Bambu Lab Clock 011	M4*40 Screw
			
Product Link	Product Link	Product Link	Product Link

Note: External parts are not included with the 100 Modular Collection.
The links are provided as references for compatible components and may be replaced with equivalent parts.

If new external components are required or added in the future, they will be added to this list accordingly.

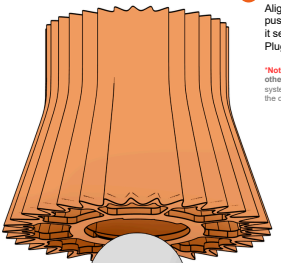
100 Modular
Lamp Collection

Lamps	Shade	Base
CPs	Converters	Covers
	Connectors	Creatives

This section covers the assembly of shades and bases, as well as their compatible configurations within the modular system.

Lamp Assembly

This section provides a overview of the lamp assembly process, covering the installation of the socket, bulb, and shade. Follow the instructions carefully to ensure a secure and proper assembly.



5 Lamp Shade

Align the shade with the locking system, push it into place, and gently twist to lock it securely. That's it!
Plug in the lamp and turn it on.

*Note: **Do not force or overtighten the shade and other parts**. Excessive twisting can damage the locking system, especially when printed in PLA, and may cause the connection to become loose over time.

E27 Light Bulb 4

Install the bulb into the socket.

Lamp Base 1

Place the base on a stable surface or hold it securely in your hand.

E27 Socket 2

Insert the lamp socket into the base and secure it in place.

⚠ Safety: Make sure the lamp is unplugged and disconnected from the power supply before handling or installing the socket.

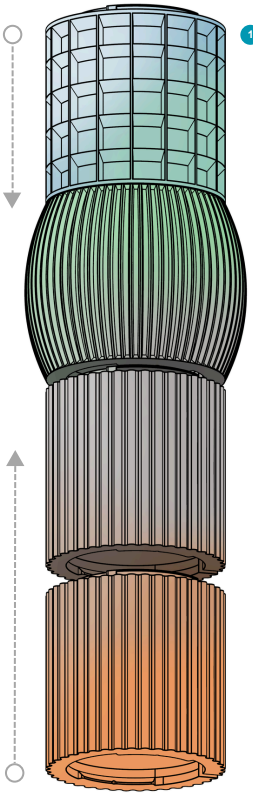
3 Cap Base

Attach the bottom cap to the base and lock it into position.

Optionally, add 4x **Rubber Bumpers** to the bottom for added stability and surface protection.

Stackability

The locking system is designed to securely connect and stack components, allowing multiple bases to form stable and reliable structures.



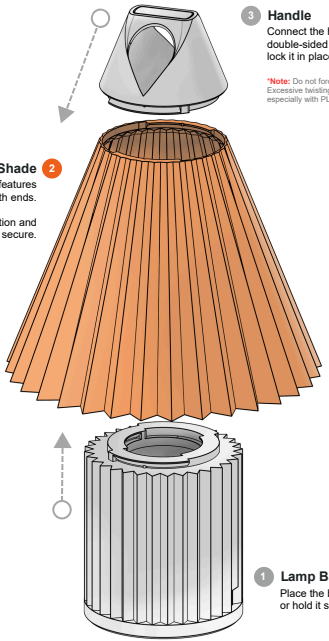
1 Lamp Base

Bases and can be stacked and connected from any vertical direction. Align the locking system, push the components together, and gently twist to secure the connection.

***Note:** **Do not force or overtighten the shade and other parts**. Excessive twisting can damage the locking system, especially when printed in PLA, and may cause the connection to become loose over time.

Double-Sided Shades / Portable Shades

Double-Sided Shades feature the modular locking system on both the top and bottom, allowing them to connect with compatible components from either direction.
This enables flexible configurations, stacking options, and portable setups.



3 Handle
Connect the handle to the top of the double-sided shade and gently twist to lock it in place.

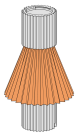
*Note: Do not force or overtighten any connection. Excessive twisting can damage the locking system, especially with PLA prints.

Double-Sided Shade 2
The double-sided shade features locking connections on both ends.

Align the locking connection and gently twist to secure.

1 Lamp Base
Place the base on a stable surface or hold it securely in your hand.

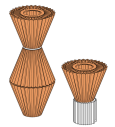
Basic Application Examples



The shade can be from both sides securely **stacked and locked with bases.**

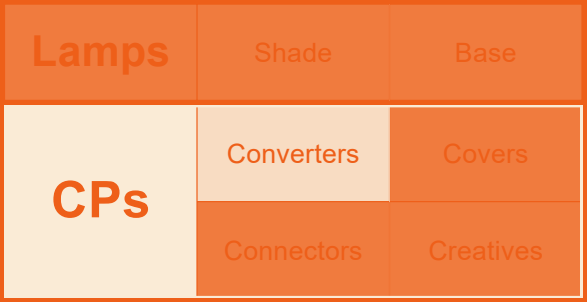


With the right CPs, such as the portable LED base and handle, **the shade can be transformed into a portable lamp.**



The shade can be connected from the top or bottom and stacked with compatible Connectors, opening up **new configurations**.

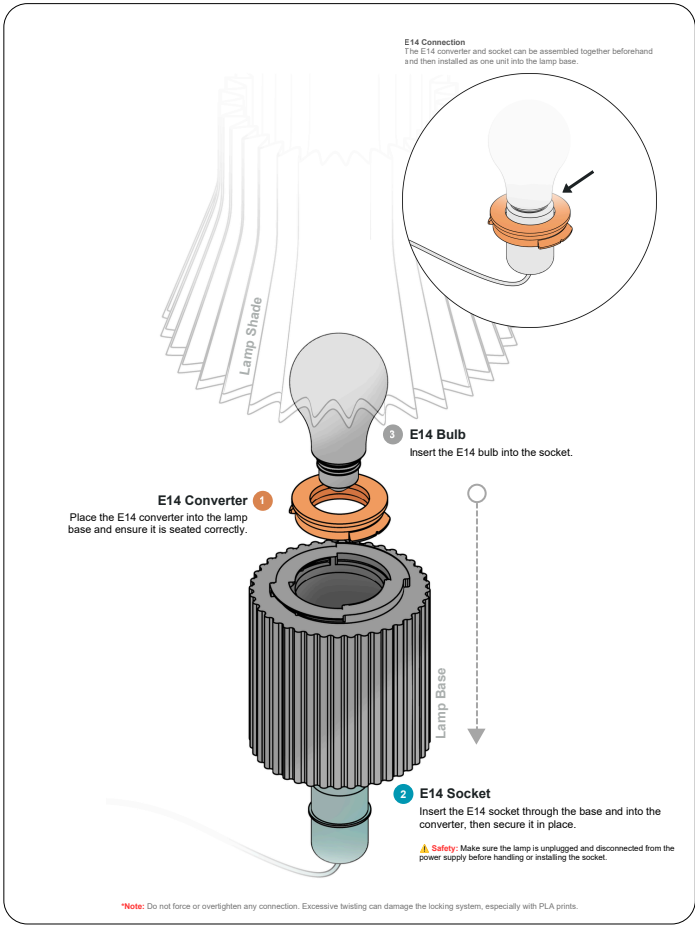
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This section covers how to use converters with compatible light sources and lamp components.

Converters / E14 Converter

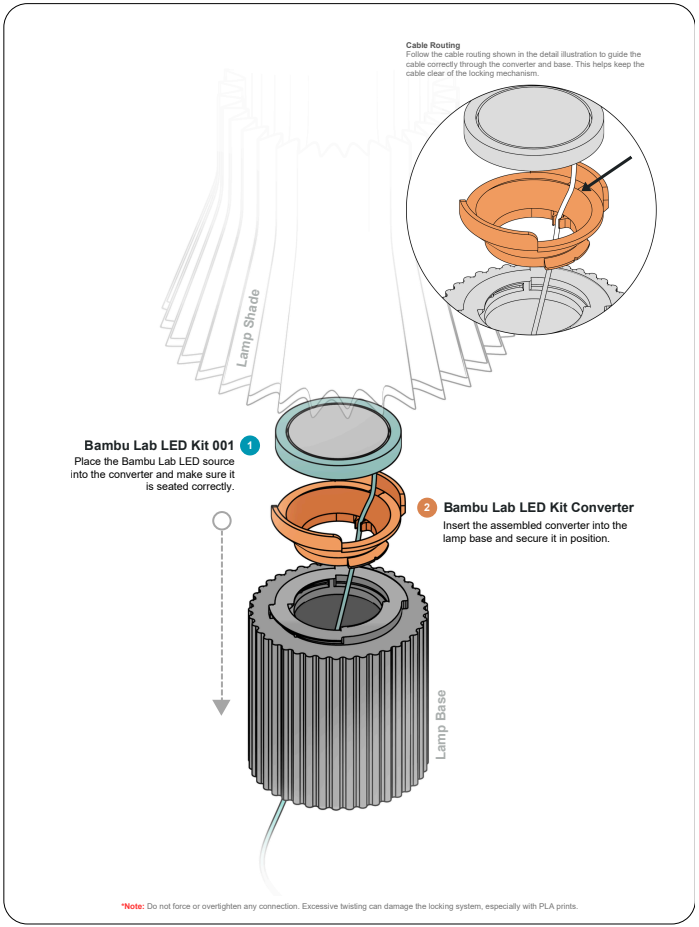
This converter allows the Bambu Lab LED Light Kit to be used with the 100 Modular Collection. It adapts the existing lamp base to the LED system while maintaining compatibility with the modular locking system.



*Note: Do not force or overtighten any connection. Excessive twisting can damage the locking system, especially with PLA prints.

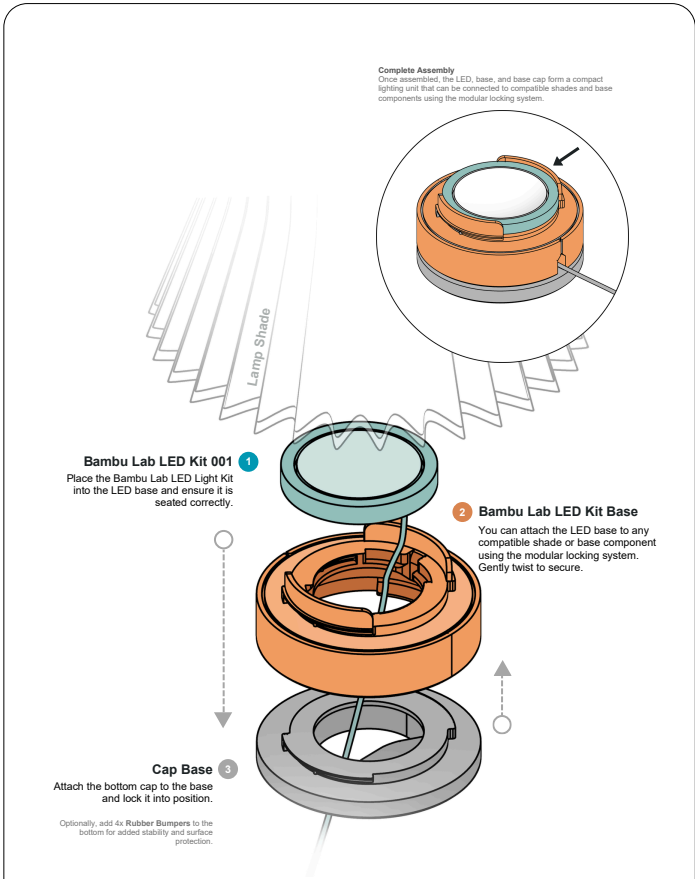
Converters / Bambu Lab LED Kit 001 Converter

This converter allows the Bambu Lab LED Light Kit to be used with the 100 Modular Collection. It adapts the existing lamp base to the LED system while maintaining compatibility with the modular locking system.



Converters / Bambu Lab LED Kit 001 Base

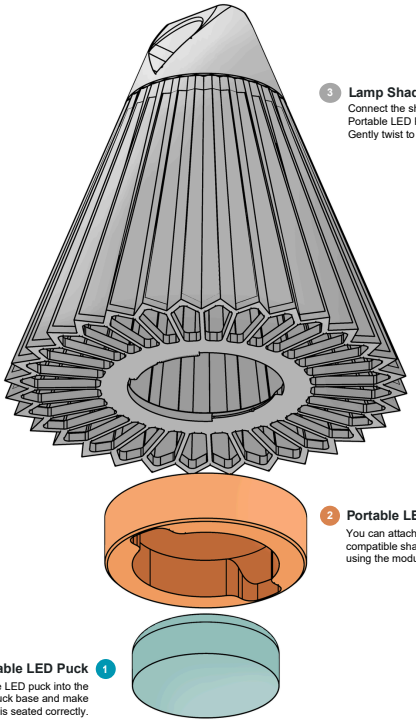
The Bambu Lab LED Base is designed to hold the Bambu Lab LED Light Kit and connect directly to the 100 Modular Collection. Unlike a simple converter, it functions as a base with the modular locking system, allowing it to be used on its own or combined with other compatible components.



*Note: Do not force or overtighten any connection. Excessive twisting can damage the locking system, especially with PLA prints.

Converters / Portable LED Puck Base

The Portable LED Puck Base is designed to hold a Portable LED Puck and connect it to compatible shades within the 100 Modular Collection.



3 Lamp Shade
Connect the shade to the Portable LED Puck base. Gently twist to secure.

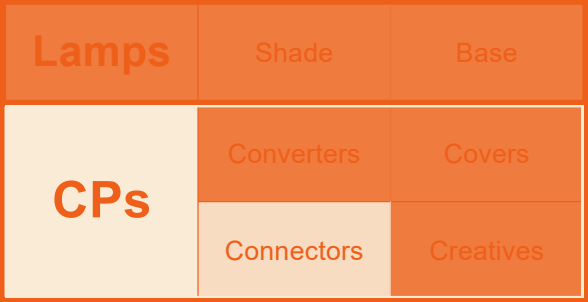
2 Portable LED Puck Base
You can attach the LED base to any compatible shade or base component using the modular locking system.

Portable LED Puck 1
Place the Portable LED puck into the Portable LED puck base and make sure it is seated correctly.

The Portable LED Puck requires AAA batteries.

***Note:** Do not force or overtighten any connection. Excessive twisting can damage the locking system, especially with PLA prints.

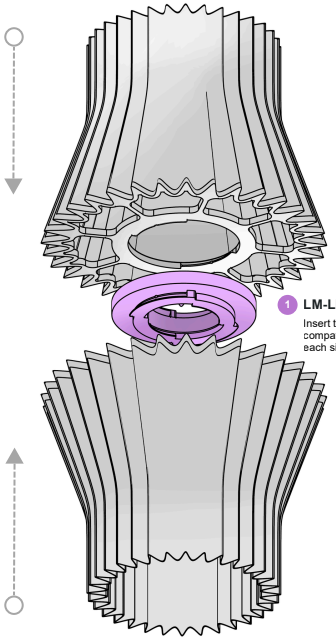
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This section covers how to use connectors to join and combine compatible components in different configurations.

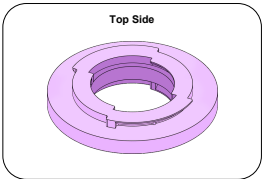
Connectors / LM-LM Connector

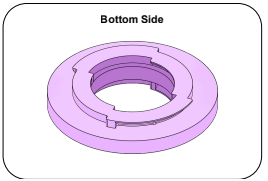
The LM-LM Connector (Large Male to Large Male Connector) allows two compatible large female connections to be securely joined together. It makes it possible to connect components in different directions.



1 LM-LM Connector

Insert the LM-LM connector into a compatible large female connection on each side, then gently twist to lock.

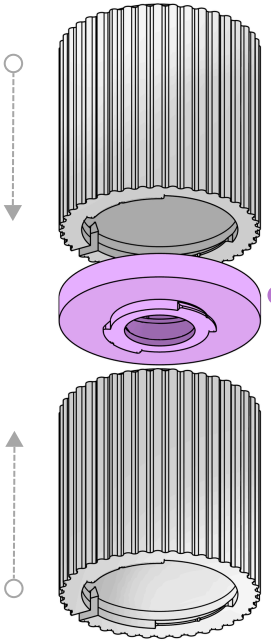




***Note:** Do not force or overtighten any connection. Excessive twisting can damage the locking system, especially with PLA prints.

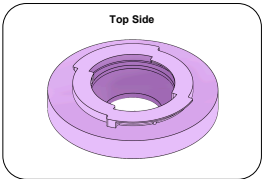
Connectors / LM-SM Connector

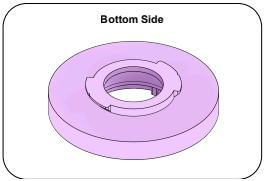
The LM-SM Connector (Large Male to Small Male Connector) allows compatible components with large and small female connections to be joined together.



1 LM-SM Connector

Insert the large male side into a compatible large female connection and the small male side into a compatible small female connection.
Gently twist to secure.

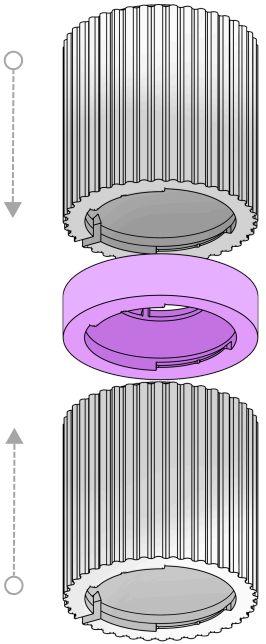




***Note:** Do not force or overtighten any connection. Excessive twisting can damage the locking system, especially with PLA prints.

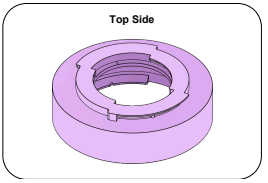
Connectors / LM-LF Connector

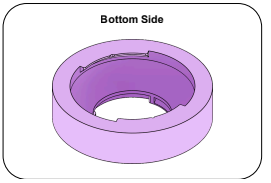
The LM-LF Connector (Large Male to Large Female Connector) allows compatible components with large male and large female connections to be joined together.



1 LM-LF Connector

Insert the large male side into a compatible large female connection, then connect the large female side to a compatible large male connection. Gently twist to secure.

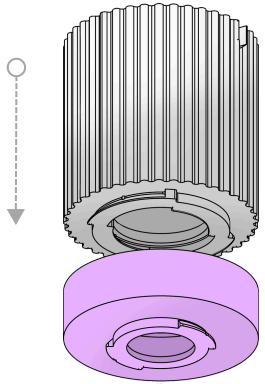




***Note:** Do not force or overtighten any connection. Excessive twisting can damage the locking system, especially with PLA prints.

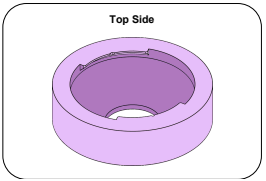
Connectors / SM-LF Connector

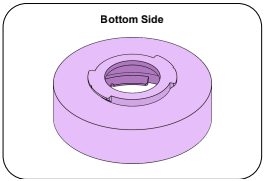
The SM-LF Connector (Small Male to Large Female Connector) allows compatible components with small and large connections to be joined together.



1 SM-LF Connector

Insert the small male side into a compatible small female connection, then connect the large female side to a compatible large male connection. Gently twist to secure.

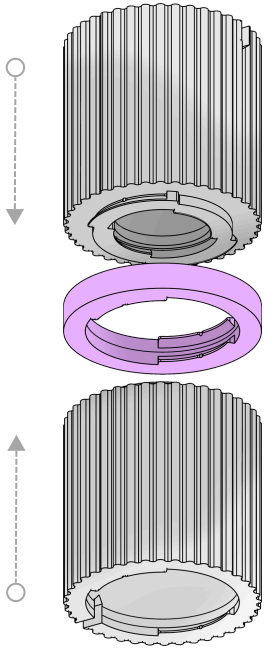




***Note:** Do not force or overtighten any connection. Excessive twisting can damage the locking system, especially with PLA prints.

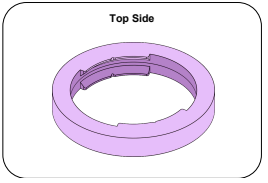
Connectors / LF-LF Connector

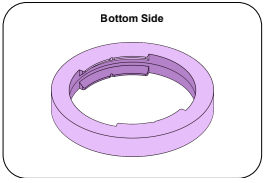
The LF-LF Connector (Large Female to Large Female Connector) allows compatible components with large male connections to be joined together.



1 LF-LF Connector

Insert one large male side into a compatible large female connection, then connect the other large male side to a second compatible large female connection.
Gently twist to secure.

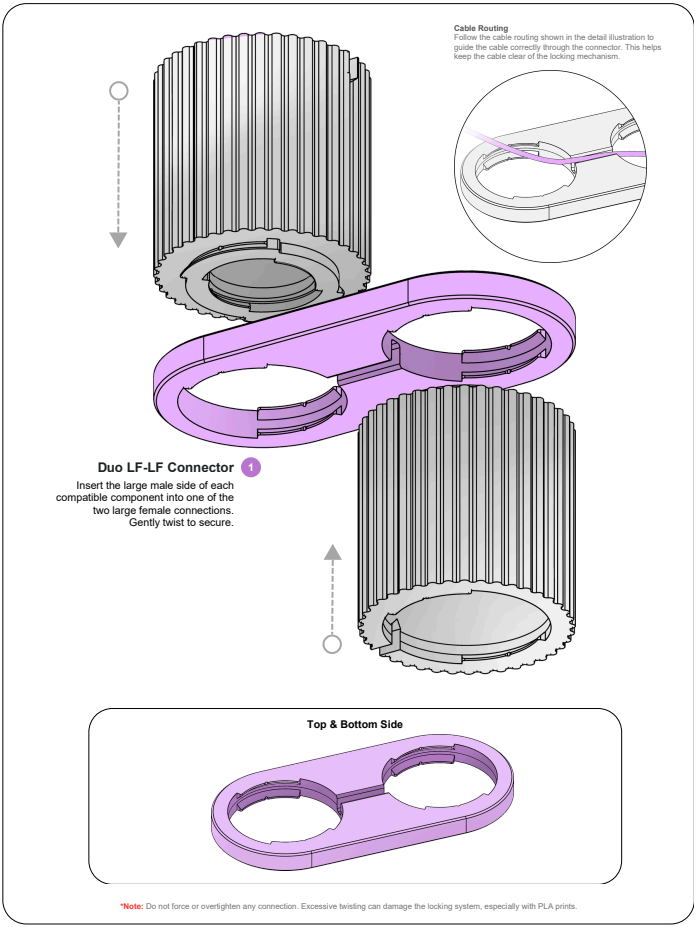




***Note:** Do not force or overtighten any connection. Excessive twisting can damage the locking system, especially with PLA prints.

Connectors / Duo LF-LF Connector

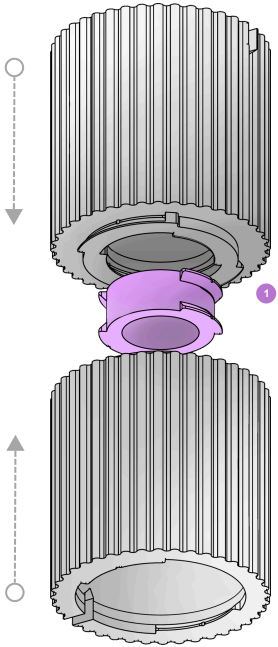
The Duo LF-LF Connector (Dual Large Female Connector) provides two large female connections, allowing two compatible components with large male connections to be connected at the same time.



*Note: Do not force or overtighten any connection. Excessive twisting can damage the locking system, especially with PLA prints.

Connectors / SM-SM Connector

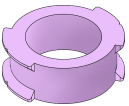
The SM-SM Connector (Small Male to Small Male Connector) allows compatible components with small female connections to be joined together.



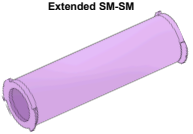
1 SM-SM Connector

Insert one small male side into a compatible small female connection, then connect the other small male side to a second compatible small female connection.
Gently twist to secure.

Top & Bottom Side



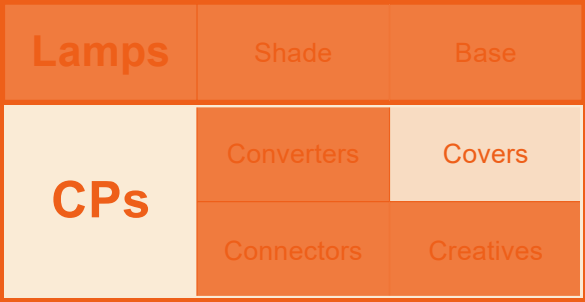
Extended SM-SM



It can be used when additional distance or spacing is needed between two compatible components

***Note:** Do not force or overtighten any connection. Excessive twisting can damage the locking system, especially with PLA prints.

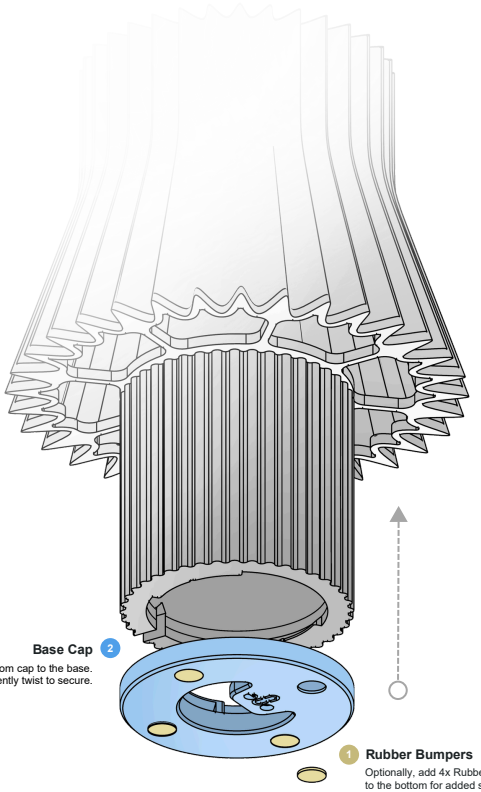
100 Modular
Lamp Collection



This section covers how to use covers to finish, protect, and adapt different parts of the modular system.

Covers / Base Cap

The Base Cap finishes the bottom of the lamp base, giving it a clean and complete appearance while providing a stable foundation for the lamp.



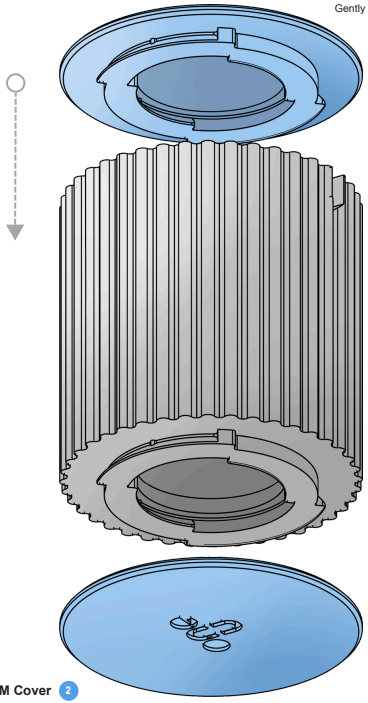
*Note: Do not force or overtighten any connection. Excessive twisting can damage the locking system, especially with PLA prints.

Covers / All Covers

Covers are functional finishing parts that close, protect, or complete open connections and exposed areas of the modular system. They can also be used for storage, protection, and other practical needs.

💡 **Tip:**
Different cover variations are available, including with or without a logo, so you can choose the option that best fits your design and intended use.

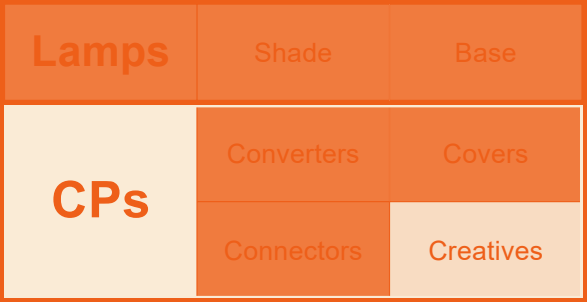
1 LM Cover
Attach the cover to the base.
Gently twist to secure.



SM Cover 2
Attach the cover to the base.
Gently twist to secure.

*Note: Do not force or overtighten any connection. Excessive twisting can damage the locking system, especially with PLA prints.

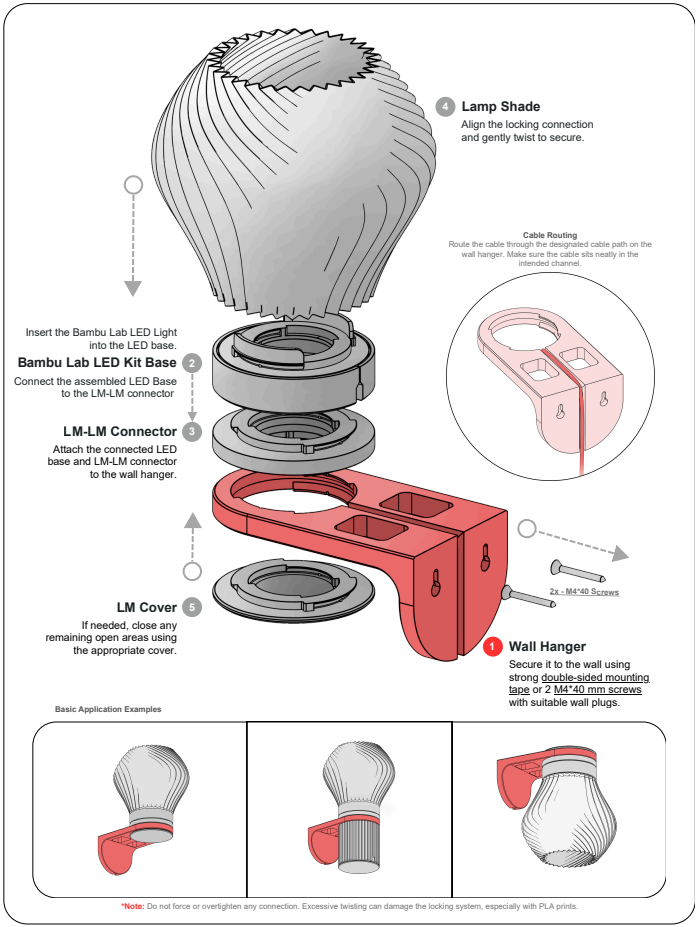
100 Modular
Lamp Collection



This section covers additional components that provide alternative functions and new ways to use the modular system.

Creatives / Wall Hanger

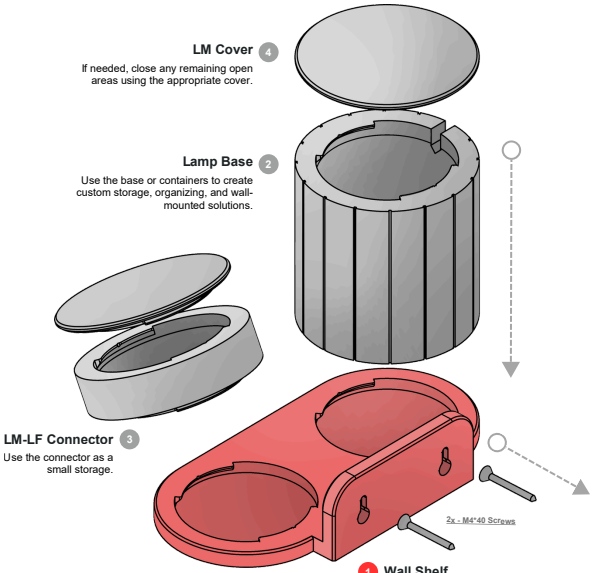
The Wall Hanger allows compatible lamp shades to be mounted on a wall, creating an alternative way to use the modular lamp system.



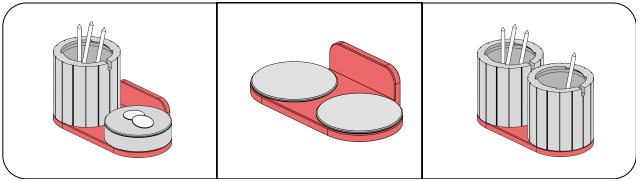
*Note: Do not force or overtighten any connection. Excessive twisting can damage the locking system, especially with PLA prints.

Creatives / Wall Shelf

The Wall Shelf expands the modular system beyond lighting, allowing compatible bases and connectors to be used for storage, organization, and display solutions.



Basic Application Examples



***Note:** Do not force or overtighten any connection. Excessive twisting can damage the locking system, especially with PLA prints.

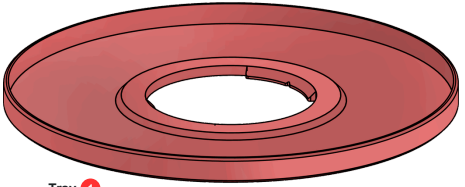
Creatives / Tray

The Trays add another way to use the modular system for storage, organization, and everyday use. Use them to keep small items organized or combine them with compatible modular components to create custom solutions.



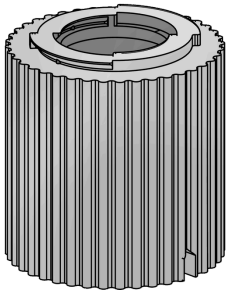
SM Cover 3

If needed, close any remaining open areas using the appropriate cover.



Tray 1

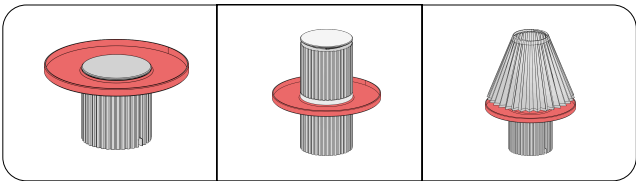
Select the tray that best fits your needs and the items you want to organize.



2 Lamp Base

Align the base with the connection point on the tray. Gently twist to secure.

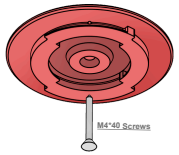
Basic Application Examples



***Note:** Do not force or overtighten any connection. Excessive twisting can damage the locking system, especially with PLA prints.

Creatives / Wall Mount

The Wall Mount allows the modular components to be used as a simple wall-mounted holder for hanging a single lamp, hangers, or combining with other Creatives.



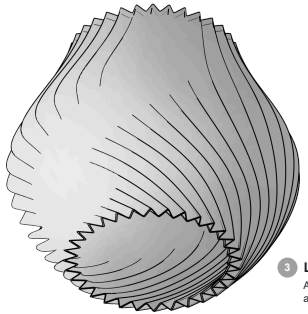
Wall Mount 1

Secure it to the wall using strong double-sided mounting tape or a M4*40 mm screw with a suitable wall plug.

Insert the Bambu Lab LED Light into the LED base.

Bambu Lab LED Kit Base 2

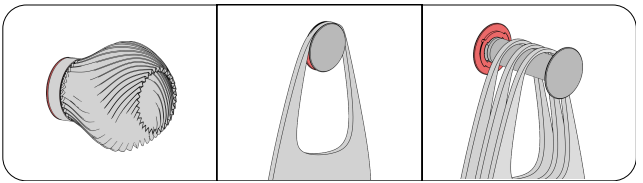
Connect the assembled LED base to the wall mount



3 Lamp Shade

Align the locking connection and gently twist to secure.

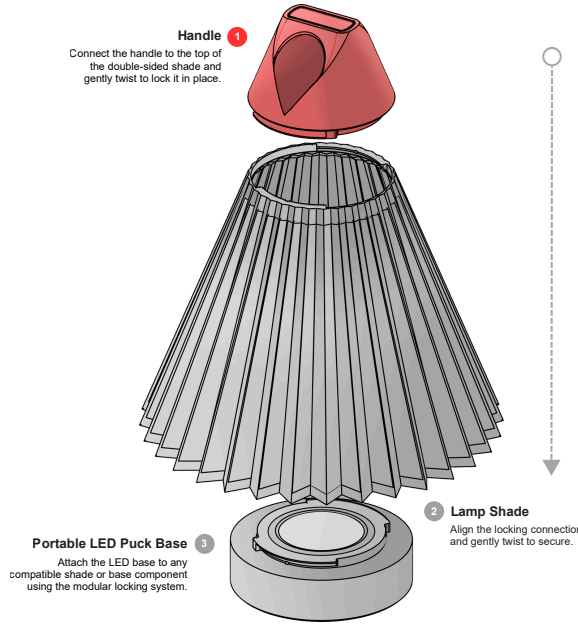
Basic Application Examples



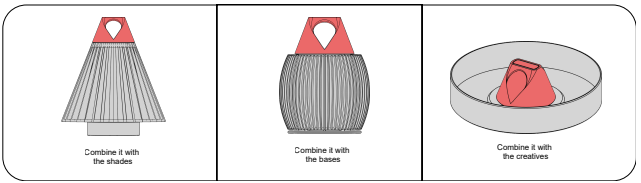
***Note:** Do not force or overtighten any connection. Excessive twisting can damage the locking system, especially with PLA prints.

Creatives / Handle

The Handle adds a portable carrying option to compatible modular components, making it easier to move and use your setup in different places.



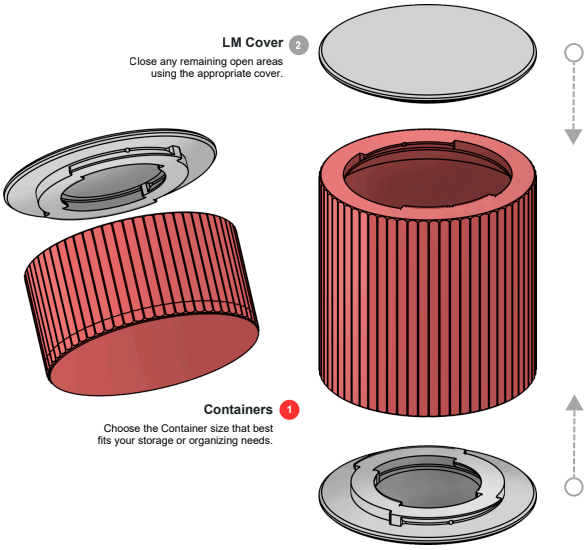
Basic Application Examples



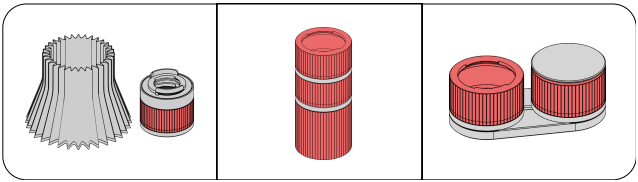
***Note:** Do not force or overtighten any connection. Excessive twisting can damage the locking system, especially with PLA prints.

Creatives / Containers

The Containers are components designed with less material for storage, organization, and modular use. Similar to the Bases, they can also be used as a Base when combined with the appropriate parts.



Basic Application Examples



***Note:** Do not force or overtighten any connection. Excessive twisting can damage the locking system, especially with PLA prints.

Update History

This page keeps track of updates and improvements made to the Assembly Guidelines.

Date	Updates
10.09.2026	Creation of the Assembly Guidelines for the 100 Modular Lamp Collection

About This Guide

The Assembly Guidelines will be updated as new components, and improvements are added to the modular system. Updates versions will be also shared with backers through MakerWorld. Please check the latest version to make sure you are using the most up-to-date information.

Thank you for your support and for being part of the project.

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