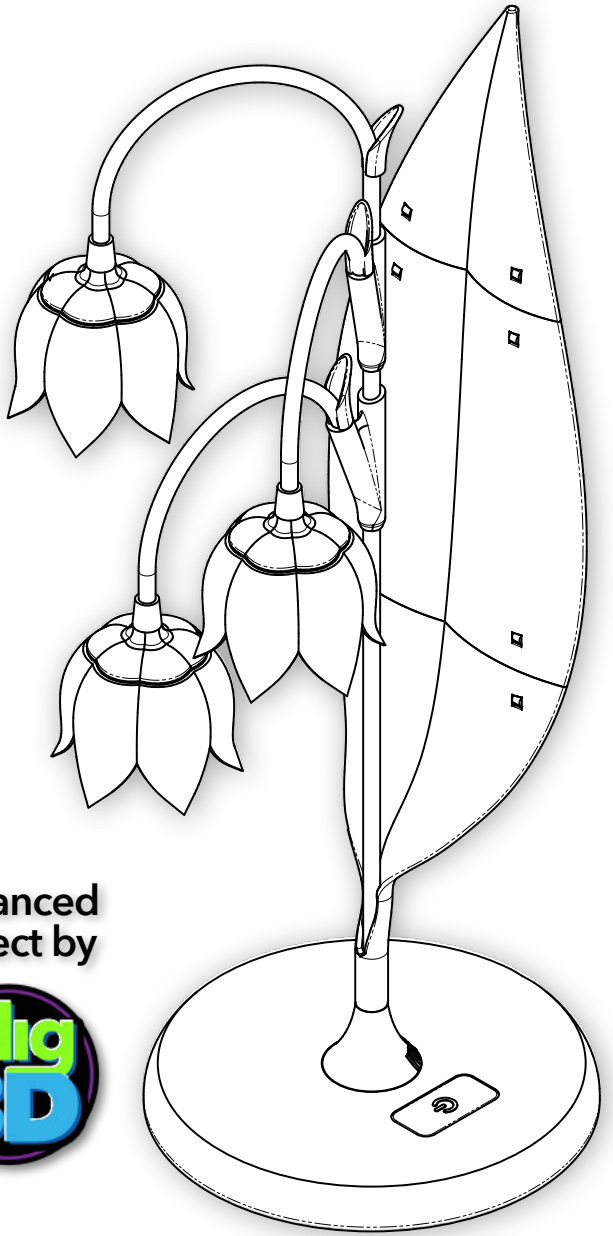
Lily of the Valley Lamp



Advanced Project by

idig 3D

Ready for a challenge?

Let's 3d print something beautiful and useful.

I did my best to make it easy to print, look great, and work well.

Thank you for buying my first 3D printable project.

Russ Taber and Charlie

(My personal alarm clock, security consultant, and best fuzzy buddy for over 15 years)

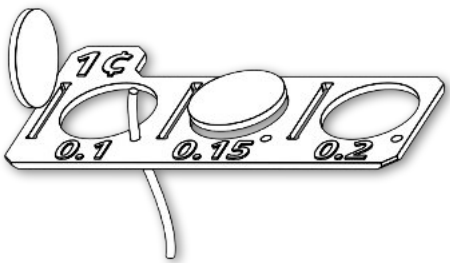
What you need:

- ☐ A *calibrated** **3D printer** with at least a 180mm x 180mm bed and 180mm print height.
- ☐ Roughly 400g of **filament,** including 60g of white filament for the shades. PLA+ or PETG works well for this project. *Use what prints best for you.*
- ☐ Small **screwdriver** to tighten the screw terminal wires.
- ☐ Wire **strippers**, scissors (but not Mom's good ones), hobby knife, or sharp thumbnail—if they'll strip wire.
- ☐ Some **patience**. Should take about 22 hours of print time, and a couple hours for trimming the parts, and assembly.

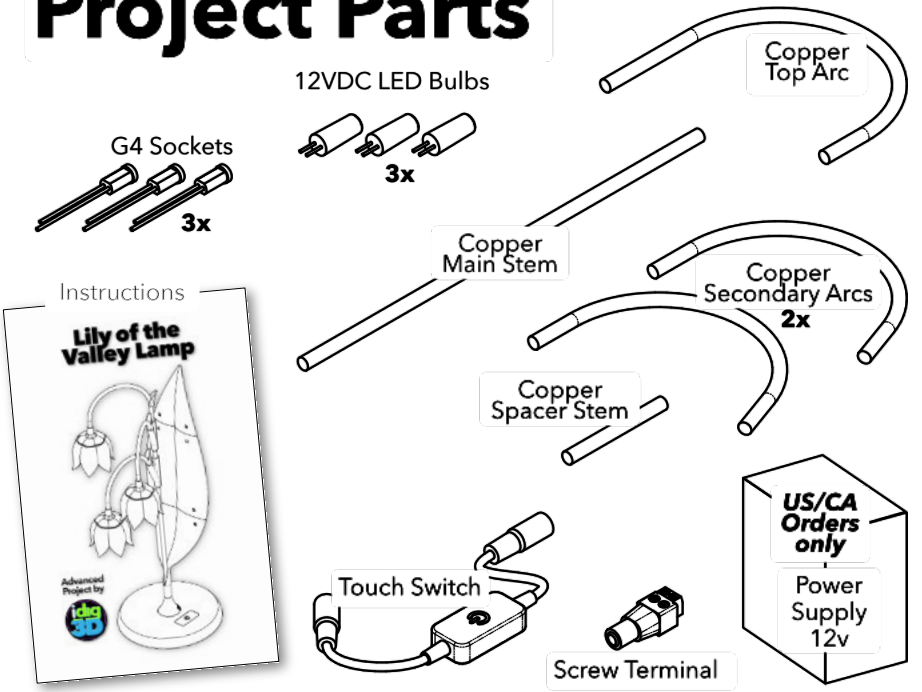
- ☐ *INTERNATIONAL ORDERS ONLY:* A 12v 1A **power supply** with a CCTV jack (2.1mm x 5.5mm plug).

Grab the calibration test STL here
www.idig3d.com/3d-printer-coin-test/

*****Your printer should be able to print this coin test with proper clearance for the coin.

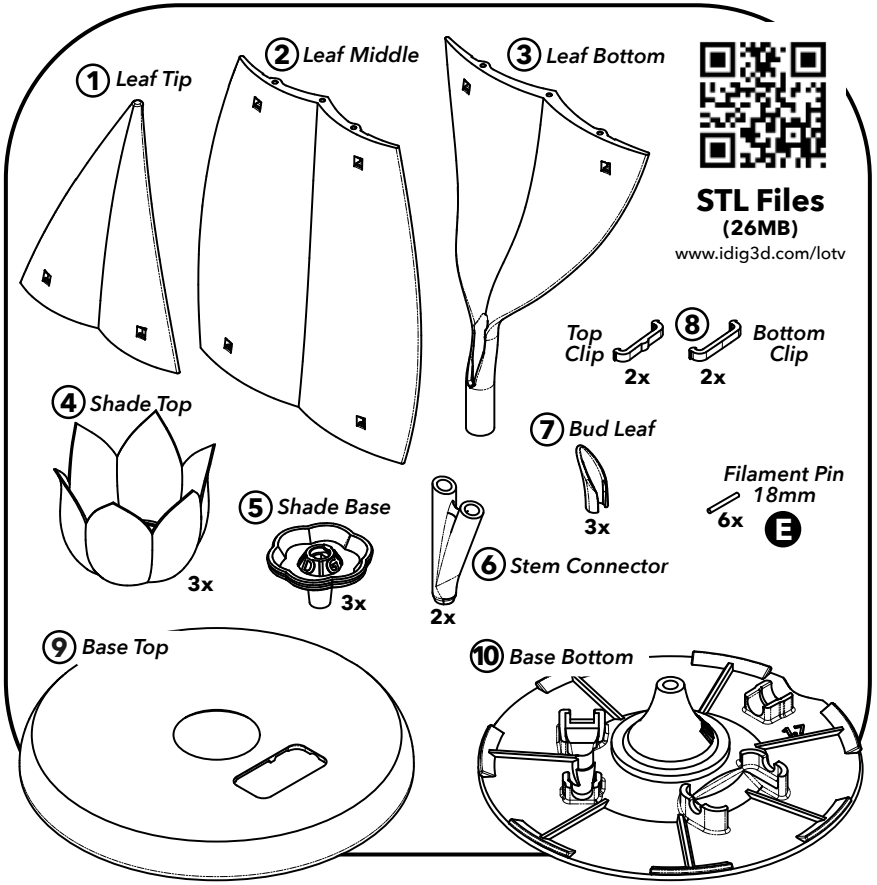


Project Parts

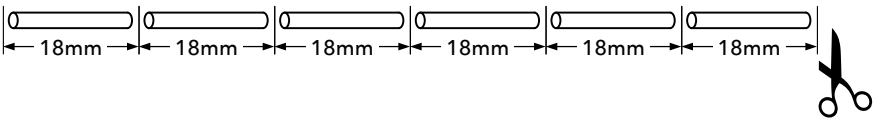


Qty	Part Name	Description
1	Instructions	Guide for building your lamp
3	G4 Socket	bulb socket with long wires
3	Bulb	12v G4 LED
1	Touch Switch	black with plug ends
1	Main Stem	long straight copper tubing
1	Top Arc	long curved copper tubing
2	Secondary Arc	shorter curved copper tubing
1	Spacer Stem	short copper tubing
1	Power Supply *(US/CA only)*	12v to 110v power adapter
1	Screw Terminal	black and green plastic end
4	Feet (not shown)	Self-adhesive rubber pads

Parts Needed To 3D Print



☐ *And cut six (6)18mm long Filament Pins for Step* **E**



Use the QR code or link (www.idig3d.com/lotv) to find and download the STL files if you don't have them yet.

The printed parts have tight tolerances matching the hardware. Make sure your printer is dialed in for accurate prints. *I had bargain filament that was 1.90-1.98mm instead of 1.75mm. None of my parts fit right, so had to reprint them. Be aware and use the good stuff.*

Lily of the Valley Lamp Print Table

	printed parts	quantity	total time*	filament*	brim
①	**Leaf Tip**	☑ Check off as you print	3h	25g	☑
②	**Leaf Middle**	☐	6h	80g	☑
③	**Leaf Bottom**	☐	4.5h	40g	☑
⑥	**Stem Connectors**	☐☐	2.1h	15g	☑
⑦	**Bud Leaf**	☐☐☐	0.7h	5g	☑
⑧	**Leaf clips**	☐☐☐☐	0.2h	5g	☐
	Green total	**12 parts**	**16.5h**	**170g**	
④	**shade - top**	☐☐☐	2.5h	30g	☐
⑤	**shade - bottom**	☐☐☐	2.5h	25g	☐
	White total	**6 parts**	**5h**	**55g**	
⑨	**base - top**	☐	6h	80g	☐
⑩	**base - bottom**	☐	7h	85g	☐
	Base total	**2 parts**	**13h**	**165g**	
	Grand Total	**18 parts**	**21.5h**	**390g**	

*Estimates based on PrusaSlicer defaults on a Prusa Mini.
0.4mm nozzle / 0.2mm layers / 20% infill / no supports

Print ALL THE PARTS!

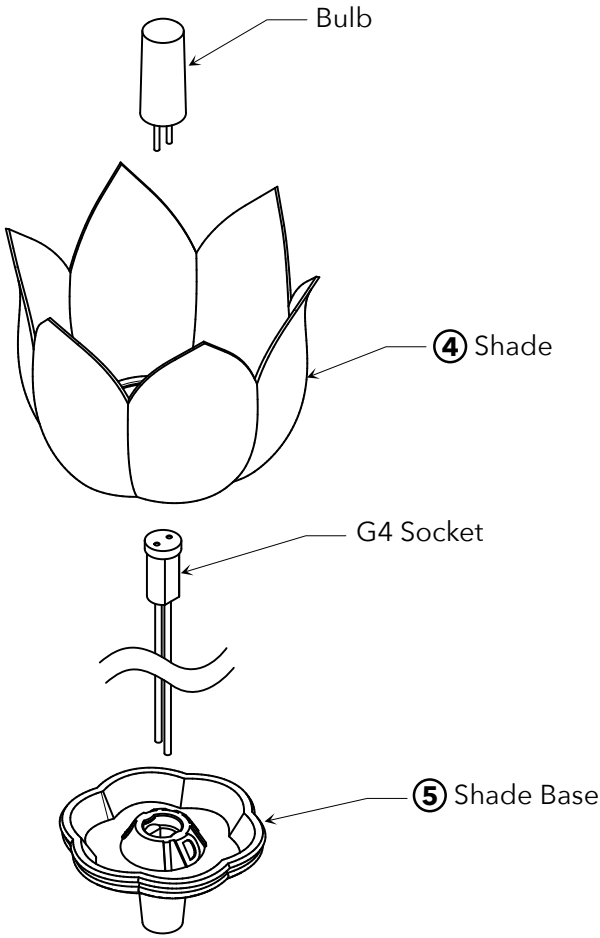
It's an advanced project challenging your 3D printing skills.

Add a wide brim to the parts with ☑ checks above to help keep them attached to the print bed. Make sure your bed is clean and prepared to stick.

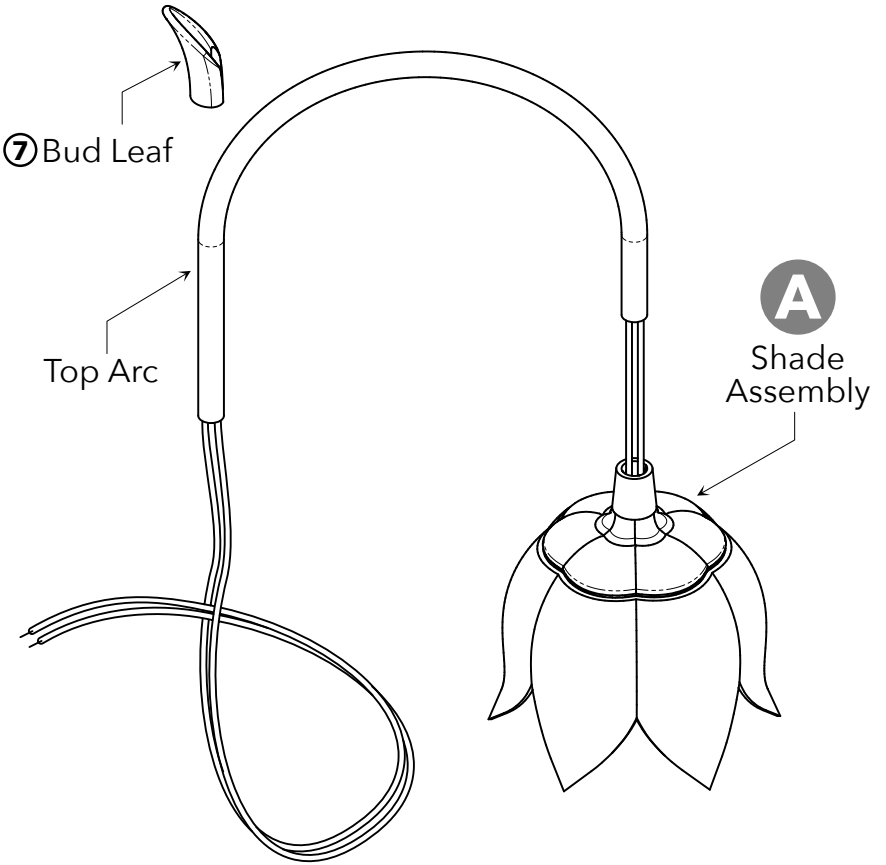
Check the website for troubleshooting help and a cool way to curl up the shades edges.

Ⓐ Make Shade Assemblies

3x

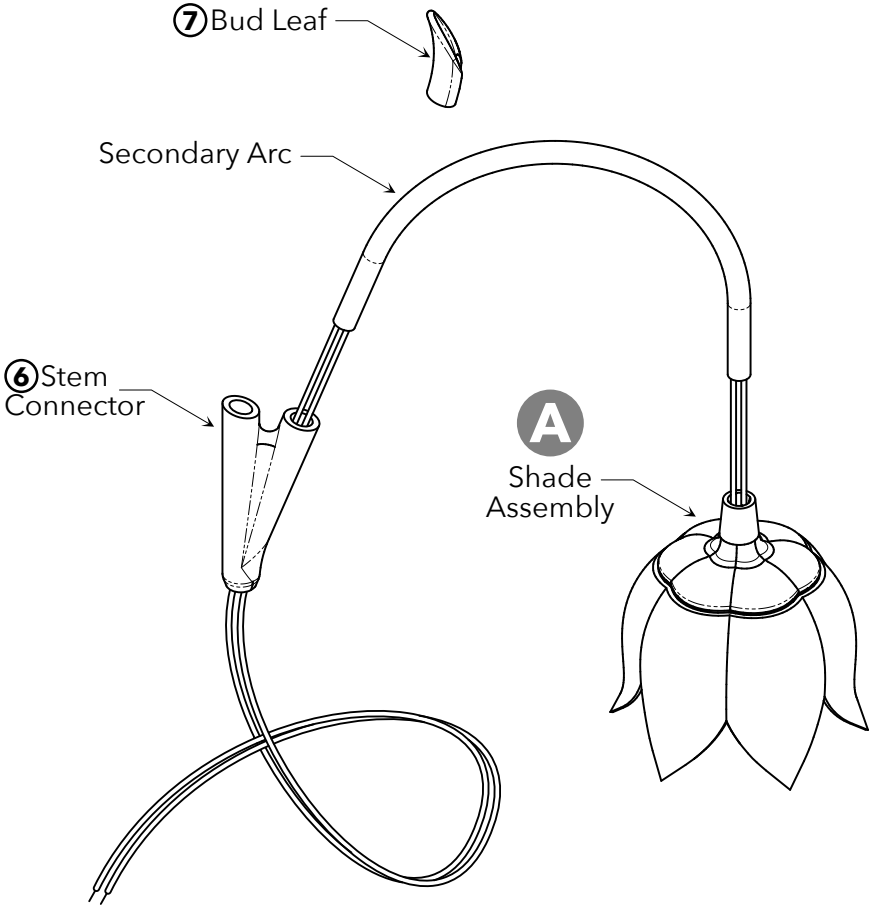


Ⓑ Make Top Section

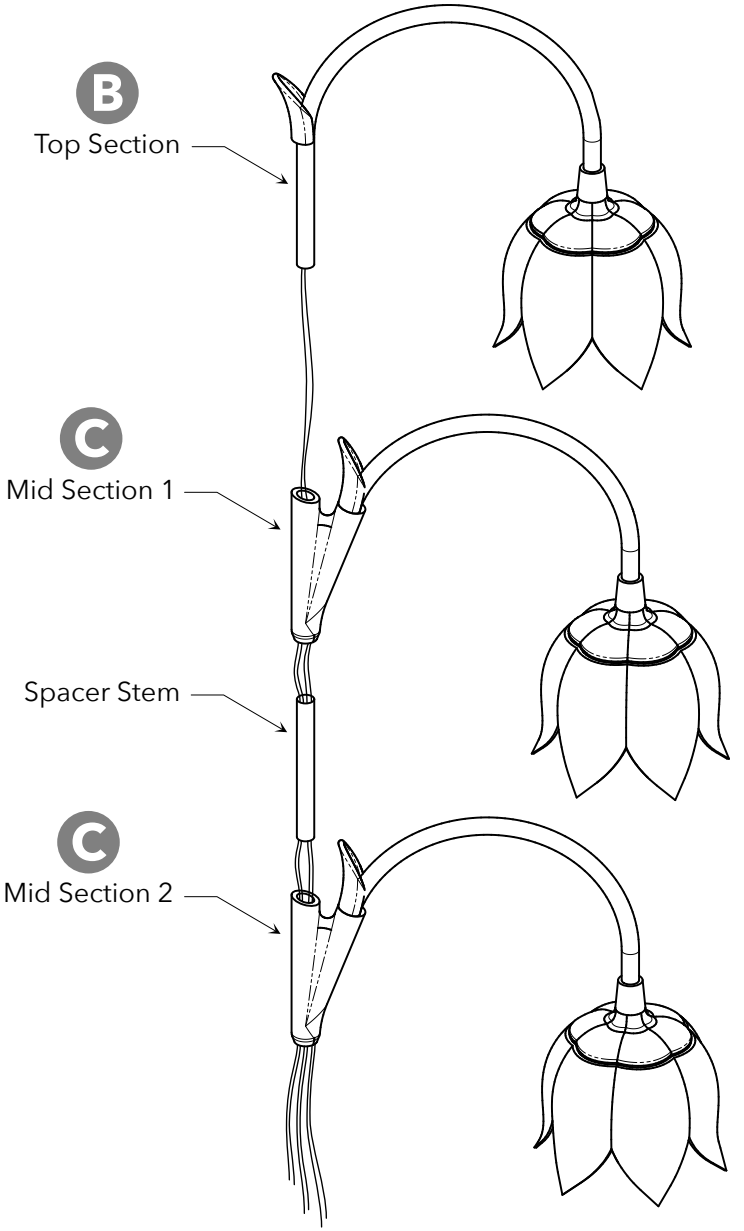


C Make Mid Sections

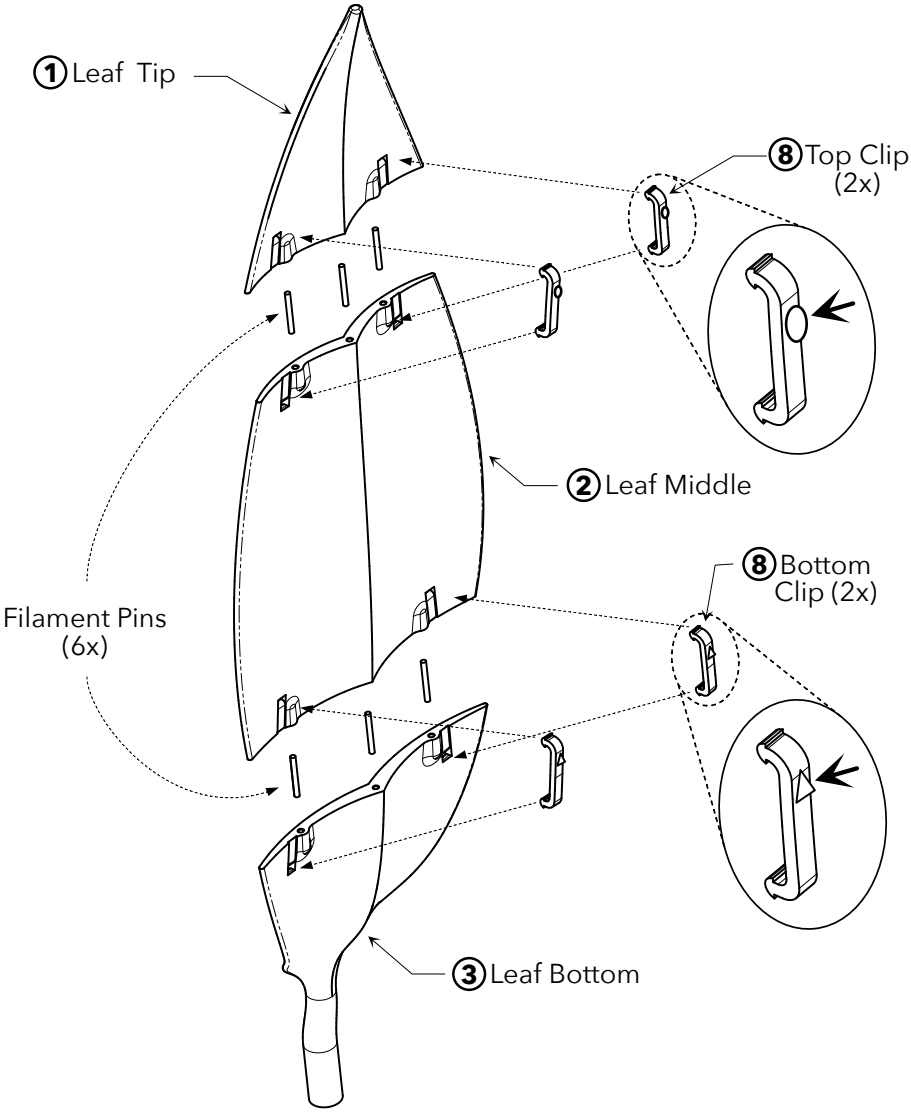
2x



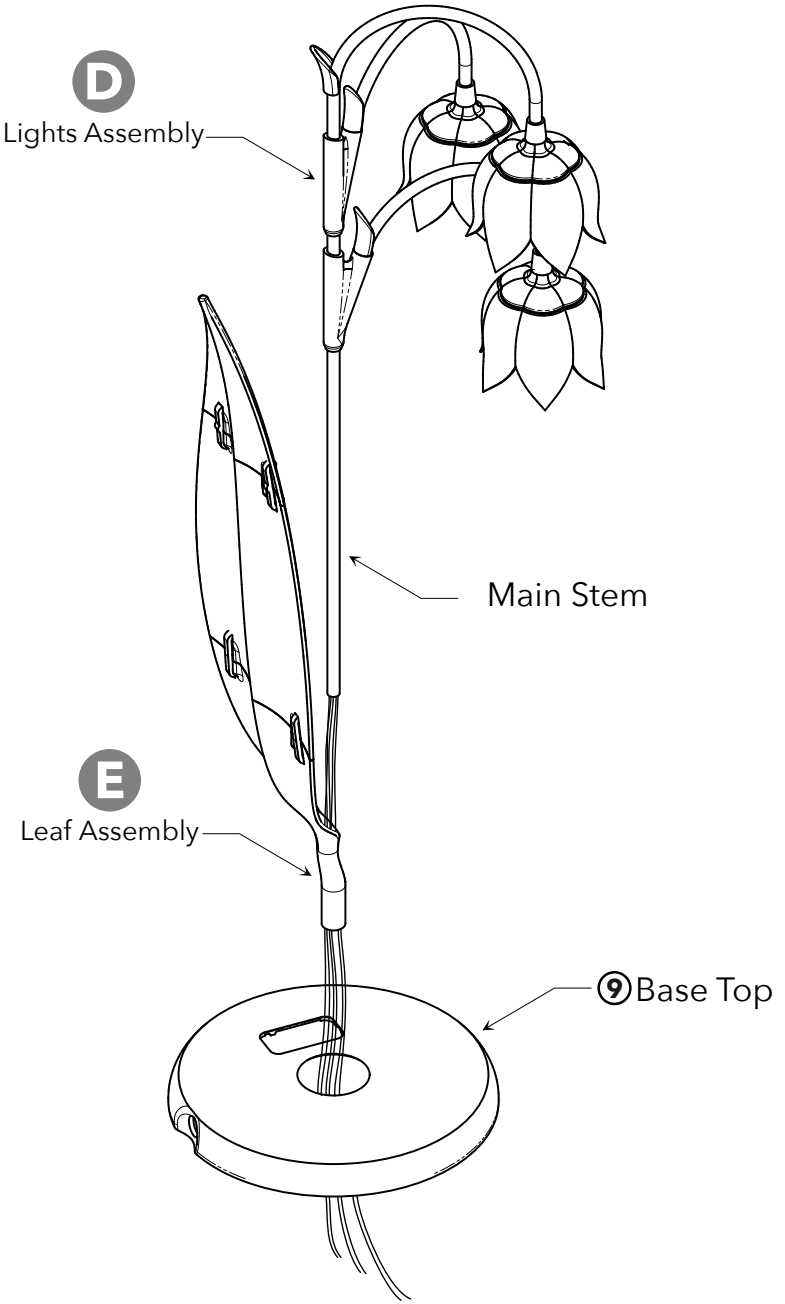
D Make Lights Assembly



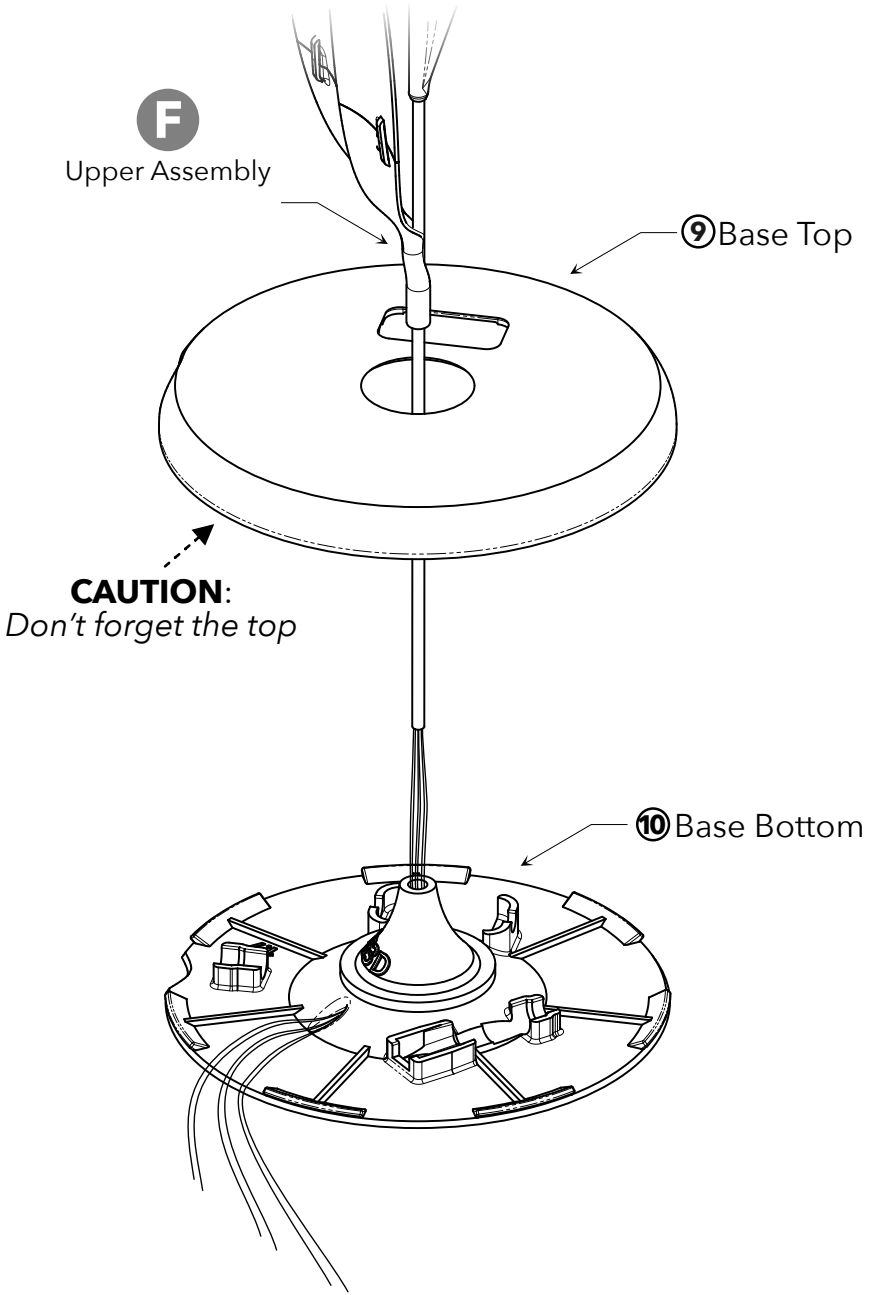
Ⓔ Make Leaf Assembly



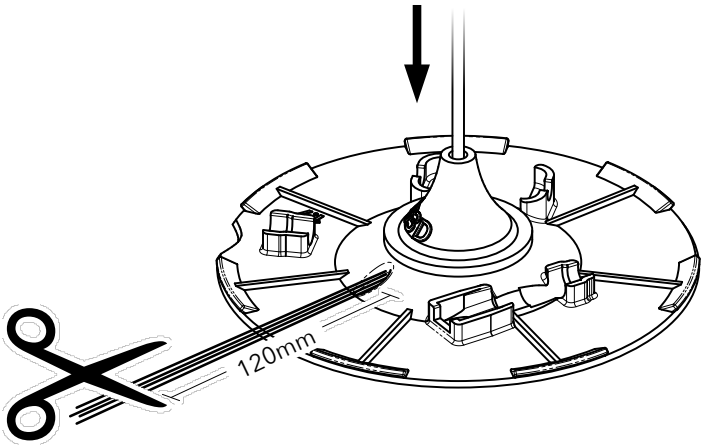
Ⓕ Finish Upper Assembly

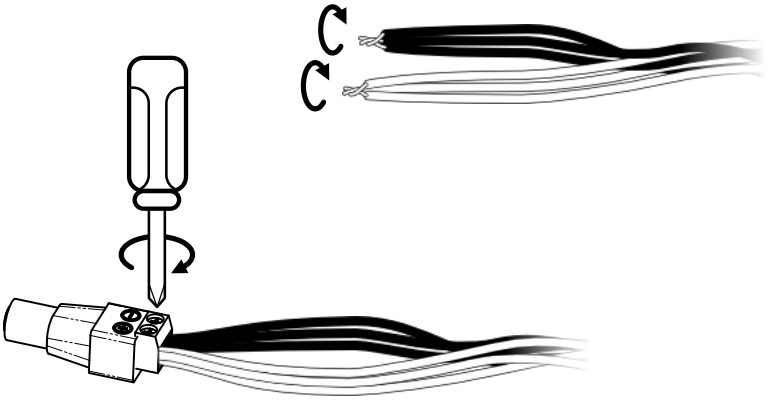


G Attach to Base



H Trim and Attach Wires

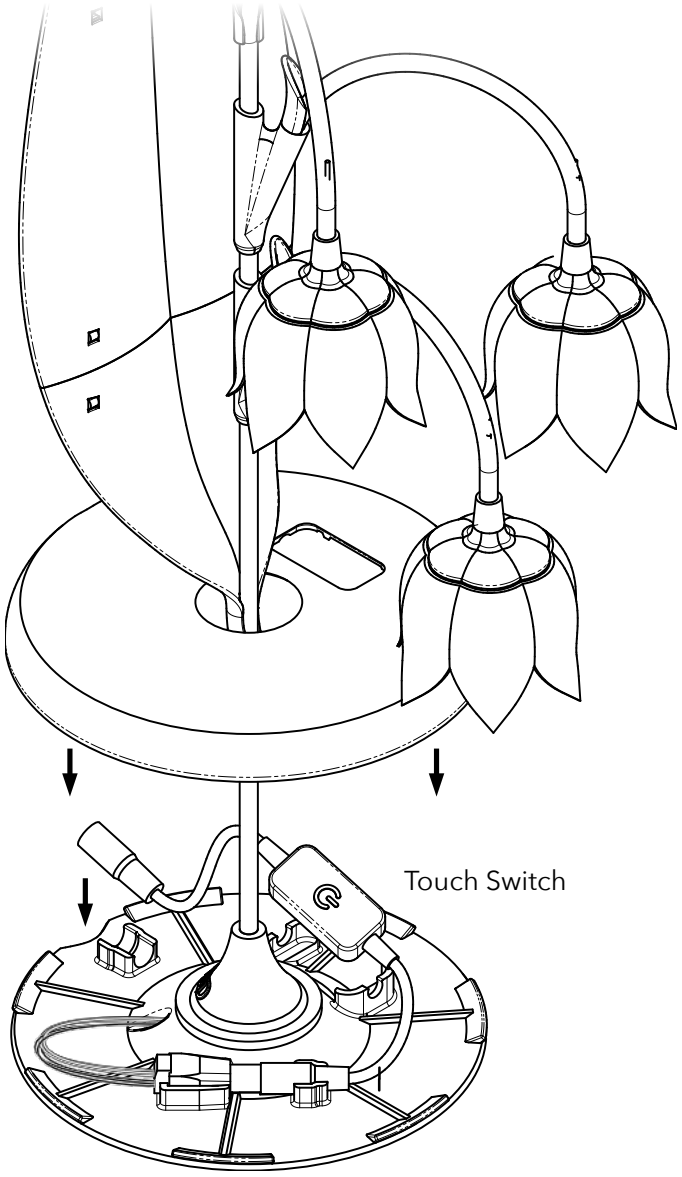




Screw Terminal

120mm

❶ Add Switch and Close Top



J Touch On – Hold to Dim