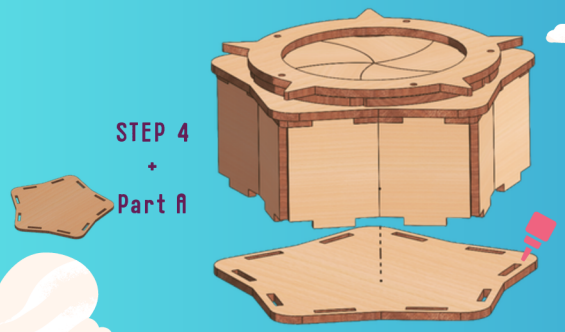
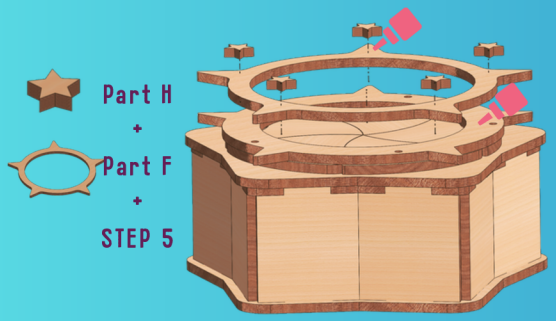
BUILD MODE: CONTINUE...

STEP 5



STEP 6



COMPLETE!

NOW, PERSONLISE IT, IF YOU HAVEN'T!

ZAPPY FACTS & RESOURCES

What's an Iris Mechanism?

It's a cool invention that opens and closes in a circle – kind of like the pupil in your eye! A bunch of overlapping blades slide to make a hole bigger or smaller.

Where It's Used

📸 **Cameras**
Let in just the right amount of light for a photo – not too dark, not too bright!

❤️ **Diaphragm Pumps**
Used in science labs and hospitals to move liquids cleanly.

⚡ **Hydro Power Turbines**
Francis and Kaplan turbines use iris-style gates to control how water flows and spins big blades to make electricity!

🎬 **Spotlights & Sci-Fi Doors**
Stage lights, lasers, and even movie doors use iris shutters!

FUN FACT

- "Iris" is named after the Greek goddess of rainbows – colourful like your eyes!
- Some cats, geckos, and octopuses have iris-shaped pupils.
- First camera irises were made of thin brass, over 150 years ago!

Want to See It Move?

Watch how an iris opens, closes, and powers real machines!

SCAN HERE

SHOW US YOUR ZAP!

Built your kit? Zapped it?
We LOVE seeing what you build!

Tag us: @shesgotlasers
Use: #ZappKit
Snap a pic, share it online
- we might feature you!

HOW ZAPPY WAS IT?

★★ Tell us what you think! ★★

hello@shesgotlasers.co.nz

READY FOR ANOTHER BUILD?
CHECK OUT MORE ZAPP KITS

ZAPP KIT

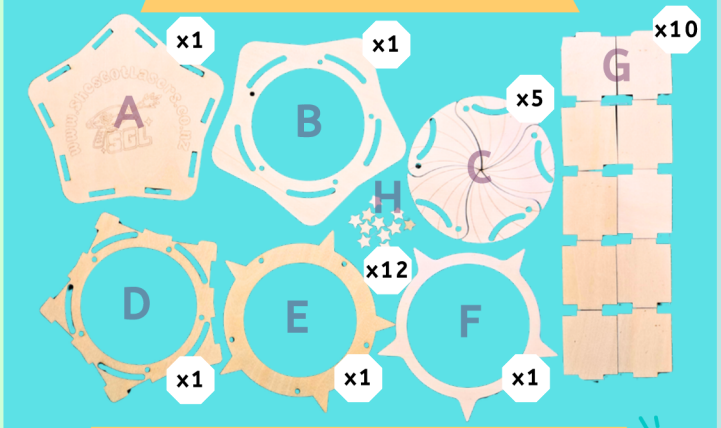
ZAP GUIDE

MECHANICAL IRIS BOX

(STAR EDITION)

WHAT'S IN THE BOX

LASER CUT PARTS



TOOLS & CONSUMABLES

Set in 5-10mins. Clean up with water.

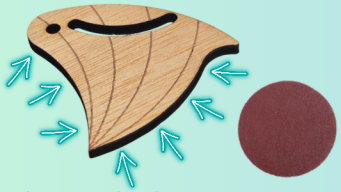
- Screwdriver x1 — Phillip PH01
- PVA Glue x1 — Selleys Aquadhere Quick Set 5ml
- Screws x5 — M3 x 8mm
- Sanding pad x1 — 120 Grit
- Screws x5 — M3 x 14mm

BEFORE YOU BUILD...

PRE-ZAP PREP

- [x] Sand edges on ALL Part C **(SUPER important!)** like this:

sand these two edges until no more burnt edges, take care not to round the pointy bits



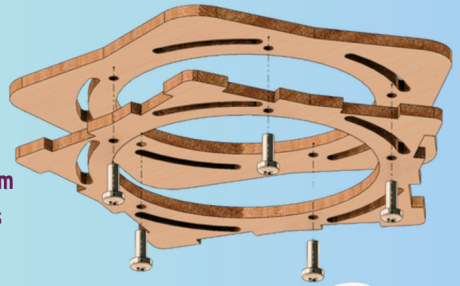
- [x] Wipe parts clean with damp cloth
- [x] Paint before assembly (optional)

QUICK TIPS — Painting before building is easier! Acrylic paint or colouring pencil work best!

BUILD MODE: ACTIVATED

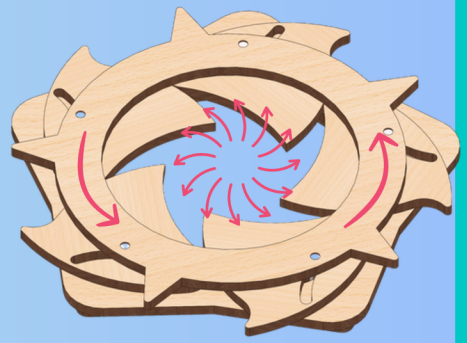
STEP 1

Part B + Part D + M3x 8mm screws



CHECKPOINT

TEST THE MECHANISM before moving to next step.

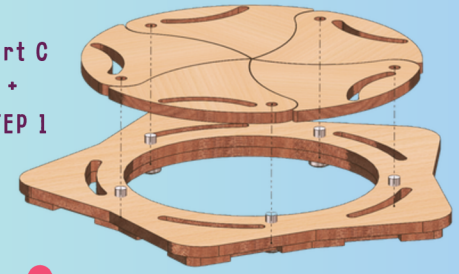


If you cannot rotate the mechanism freely, check if you leave enough clearance in STEP 3, else, undo STEP 3 and sand Part C more.

QUICK TIPS — You can light sand or rub some candle wax on surfaces that's touching Part C (Part B & E) to help reduce friction.

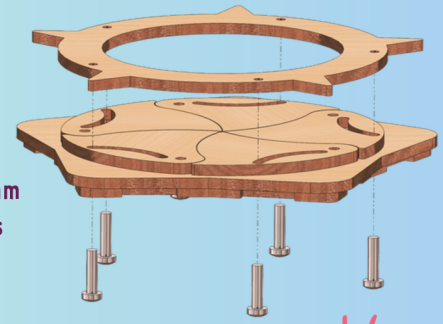
STEP 2

Part C + STEP 1



STEP 3

Part E + STEP 2 + M3x 14mm screws



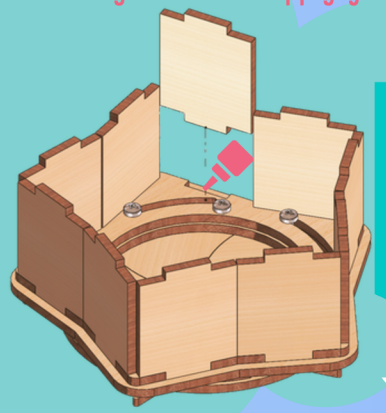
Do not wind the screws all the way in

The bottom of the screws should be **flush** with top surface of Part E, and ample of **clearance** between Part C & E.

STEP 4

shows where you need to apply glue

Part G + STEP 3



QUICK TIPS — A small drop of glue goes a long way