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POD TOP COVER FOR SNAPMAKER U1

POD FOR SNAPMAKER U1

POD IS A TOP COVER DESIGNED FOR YOUR SNAPMAKER U1, TURNING IT INTO A FULLY ENCLOSED 3D PRINTER. IT COMES WITH A RANGE OF THOUGHTFUL FEATURES:

- DUAL FRONT DOORS WITH A FULL 270° OPENING FOR EASY ACCESS
- MODULAR DESIGN FOR FLEXIBLE ASSEMBLY
- INTEGRATED INTERNAL LED STRIP FOR BETTER VISIBILITY INSPECTION
- WINDOWS ON EVERY SIDE
- COMPATIBLE WITH THE HEATER OF YOUR CHOICE

A SIMPLE UPGRADE THAT ADDS BOTH FUNCTIONALITY AND A CLEAN, PROFESSIONAL LOOK TO YOUR SETUP.



KEY CHARACTERISTICS SNAPMAKER U1 - POD COVER



B.O.M.

REQUIRED FILAMENTS:

DOOR HANDLES
AND
WIRE GASKET

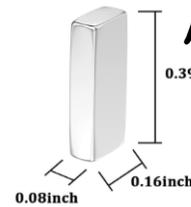


PRINT TIME:
3D 1h 58m

REQUIRED HARDWARE:



SCREW M4 x 14mm 70 UNITS



MAGNETS

10 x 4 x 2
mm mm mm

6 UNITS



GASKET
6 x 3
mm mm

3 METERS

ACRYLIC SHEET
100 x 50 cm

1 UNIT

LED STRIP

1 UNITS



FILAMENTS	24 KG	43 €
SCREWS	70 UNITS	7 €
FOAM GASKET	2 M	4 €
MAGNETS	6 UNITS	2 €
PLEXIGLASS 1MM 100x50 CM	1 UNIT	15 €
		<hr/>
		71 €

THE FILAMENT COST USED FOR THESE CALCULATION
IS 13 € PER KG.

ALL PRICES FOR FILAMENT AND HARDWARE ARE
ON THE EUROPEAN MARKET.



BUILD PLATES

SNAPMAKER U1 - POD COVER

THIS IS HOW THE PLATES LOOKS



TIPS 4 FLAWLESS PRINTS SNAPMAKER U1 - POD COVER

FOLLOW THESE SIMPLE TIPS AND YOU'RE GOLDEN:

1. STICK WITH REGULAR PETG

USE STANDARD PETG, AND SKIP THE HIGH FLOW (HF) STUFF. HF MIGHT SOUND COOL, BUT IT CAN'T HANDLE HEAT AS WELL, AND THAT CAN MESS WITH YOUR PRINT'S DURABILITY. YEAH, REGULAR PETG IS SHINIER — I GET IT — BUT HERE'S A TRICK: SPRAY IT WITH A MATTE CLEAR COAT LIKE I DID. BOOM! PROBLEM SOLVED.

2. DON'T USE PLA FOR SUPPORTS

IF YOU ARE USING A SINGLE NOZZLE PRINTER WITH A COLOR CHANGE SYSTEM, VOID USING PLA AS SUPPORT MATERIAL. SERIOUSLY. EVEN IF YOU SWITCH FILAMENTS, LEFTOVER PLA IN THE NOZZLE CAN MESS WITH LAYER ADHESION, AND THAT'S NO FUN. AND DON'T STRESS — THE SUPPORTS COME OFF EASY, I PROMISE. **YOU GOT THIS.**

3. KEEP IT SLOW AND STEADY

RESIST THE URGE TO CRANK UP THE PRINT SPEED. GOING TOO FAST CAN LEAD TO WEIRD-LOOKING CORNERS AND WARPED PARTS. STICK TO STANDARD SPEED — YOUR PRINT WILL THANK YOU.

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4. USE A GRIPPY PRINT BED

THESE PARTS ARE ON THE BIGGER SIDE, SO BED ADHESION IS EVERYTHING. MAKE SURE YOUR BUILD PLATE'S GOT A GOOD GRIP TO AVOID WARPING OR LIFTING. TRUST ME, A SOLID FIRST LAYER MAKES ALL THE DIFFERENCE.

SLIPER PRINT SETTINGS:

- 2 WALLS & 2 BOTTOMS & 2 TOPS
- INFILL: WALLS 9% - HINGES 20% - LED BAR 10%
- SUPPORTS: MANUAL TREE, THEY SHOULD BE ALREADY APPLIED IN THE PRINT FILE.



GLASS PREP

QUESTION OR ANYTHING ELSE

IN THE FILE PACKAGE YOU RECEIVED, YOU'LL FIND A FILE SVG NAMED "GLASSES". YOU CAN USE IT TO LASER CUT THE PLEXIGLASS, OR SEND IT OUT TO AN ONLINE SERVICE THAT CAN DO IT FOR YOU.

IN THE FILE PACKAGE YOU RECEIVED, YOU'LL FIND AN SVG FILE NAMED:
"GLASS - POD .SVG"

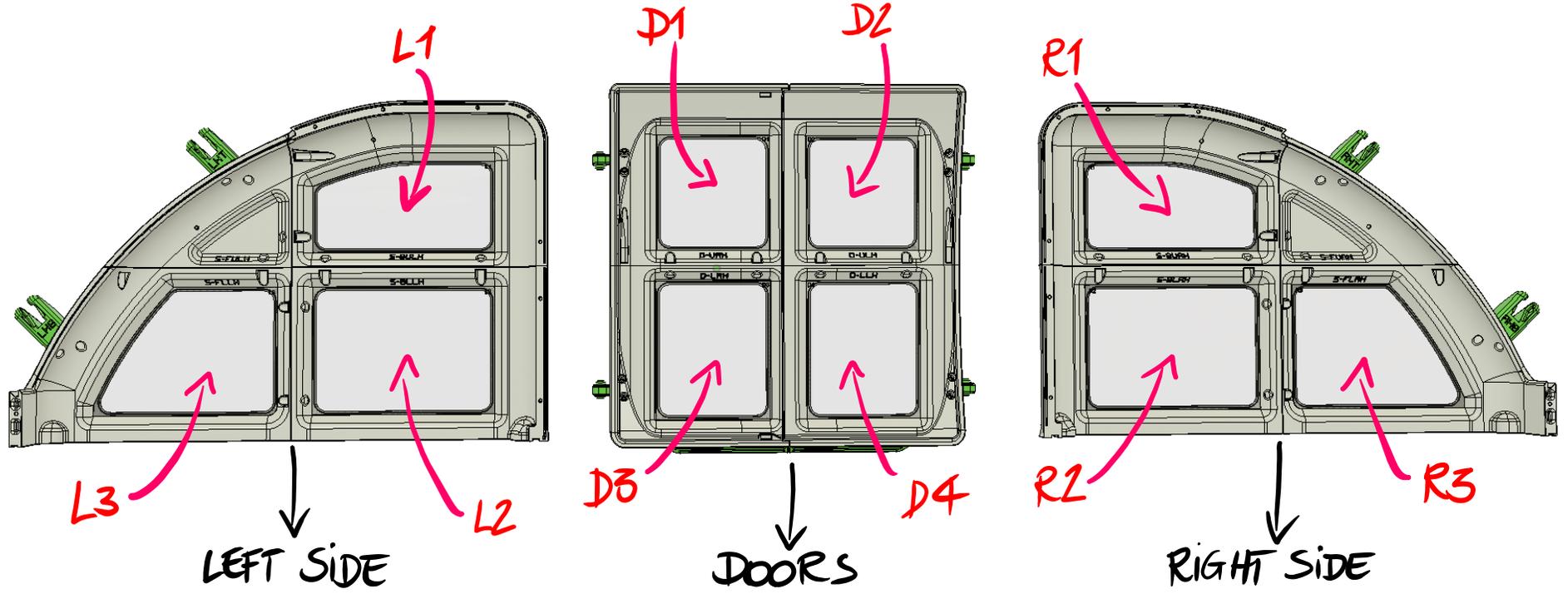
YOU CAN USE IT TO LASER-CUT THE PLEXIGLASS OR SEND IT TO AN ONLINE SERVICE THAT CAN DO IT FOR YOU

BESIDE THE CUTS, THE GLASS ARE NUMBERED SO YOU KNOW WHERE EACH ONE GOES!
ON THE NEXT PAGE YOU'LL FIND THE SCHEME.



GLASS PREP

HERE'S THE GLASS LAYOUT - THE VIEW IS FROM INSIDE

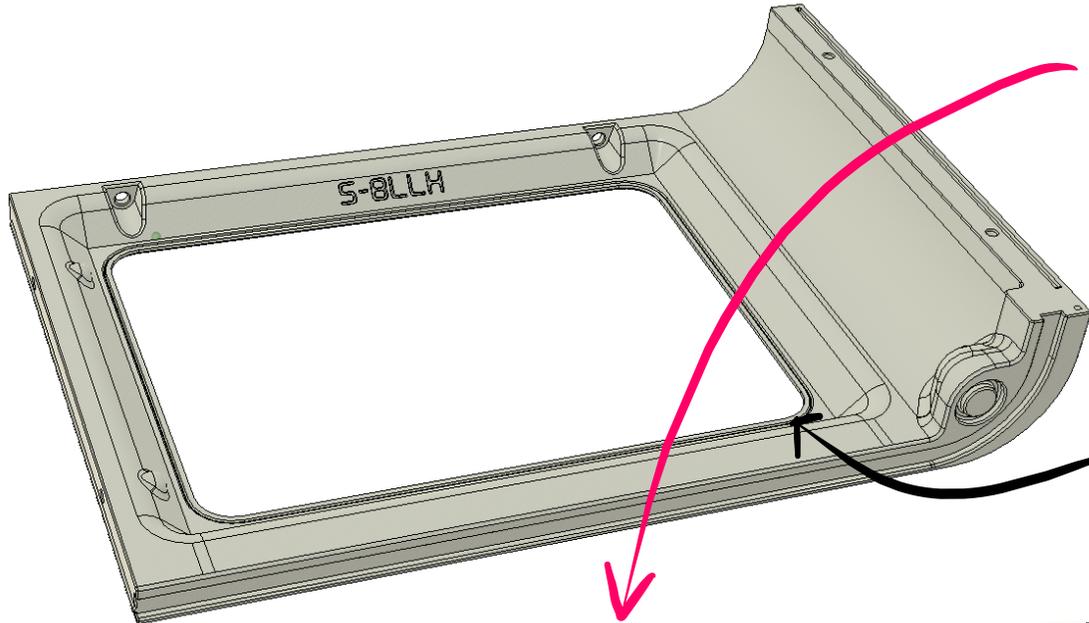


FRAME PREP

SNAPMAKER U1 - POD COVER



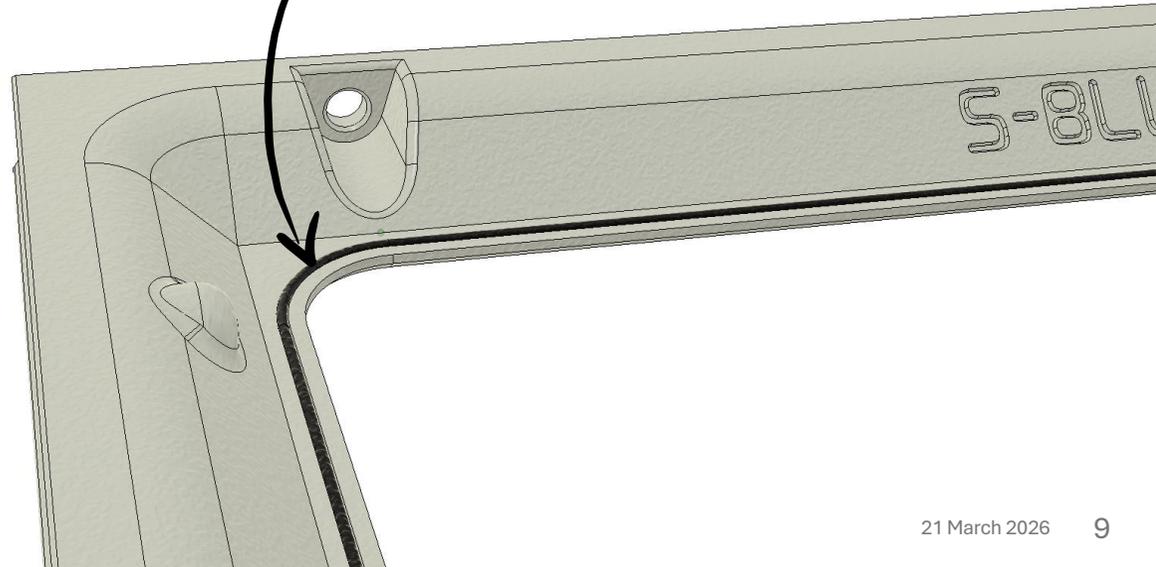
QUICK TIP: INSTALL THE GLASS BEFORE ASSEMBLY THE ENTIRE POD.
IT'S A DELICATED JOB AND CAN EASILY MESS UP YOUR PARTS.



FOR GWE, I USE KID MADE FOR PHONES.
IT'S FLEXIBLE, NON FAST-SETTING, AND ENDS UP
ACTING LIKE A GASKET.

APPLY ENOUGH SO IT SLIGHTLY SQUEEZES OUT
OF THE CHANNEL IN THE PART.

GENTLY PLACE THE GLASS WITHOUT MOVING IT
TOO MUCH, PUT SOME WEIGHT ON TOP, AND LEAVE IT
ALONE FOR AT LEAST AN HOUR.

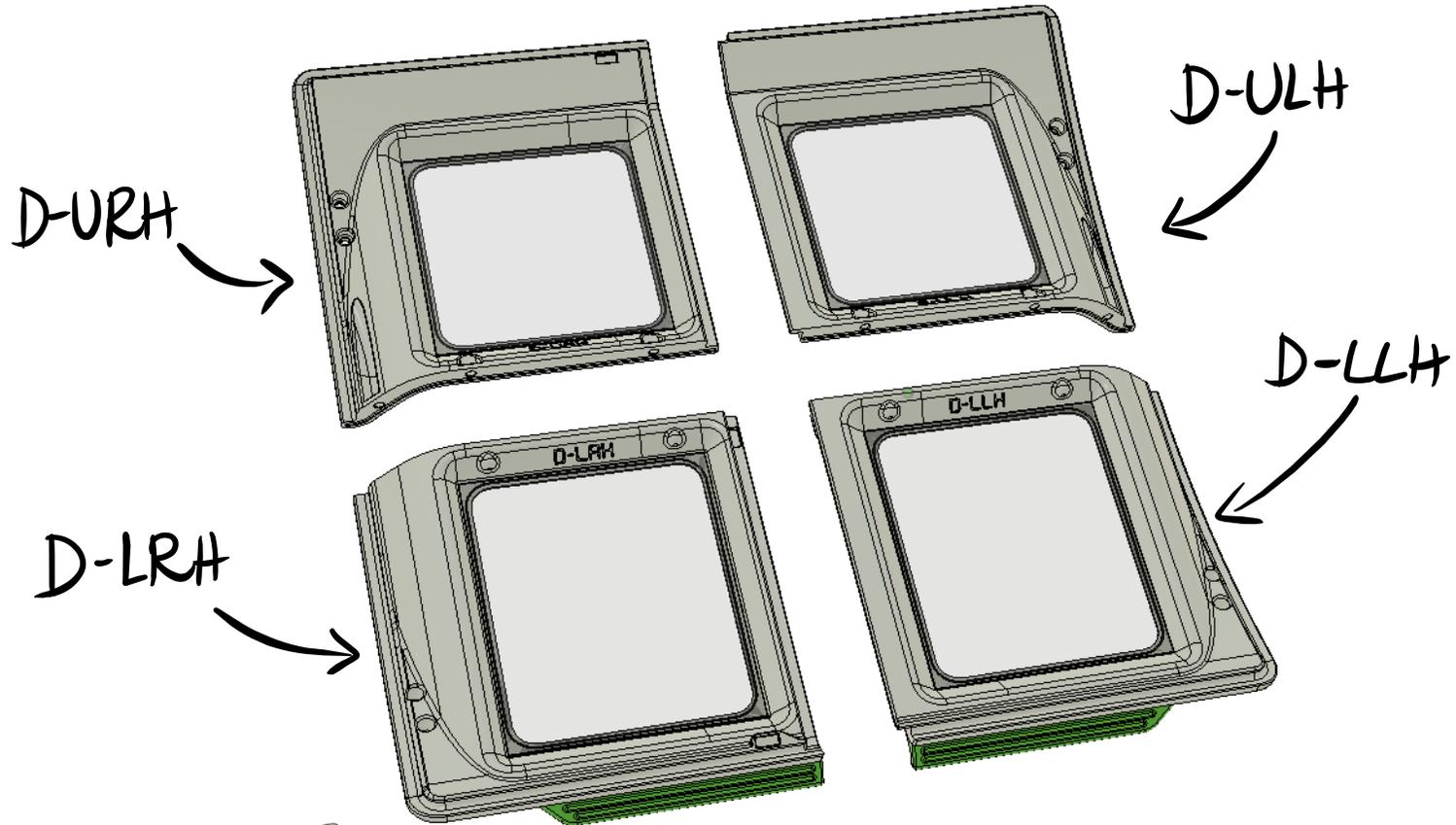


DOOR PREP

SNAPMAKER U1 - POD COVER

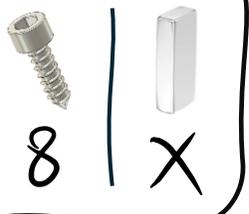


JUST LIKE THE WALLS, IT'S BEST TO INSTALL THE GLASS IN THE DOORS BEFORE MOUNTING THEM.



SAME GLUE, SAME STEPS NEEDED!

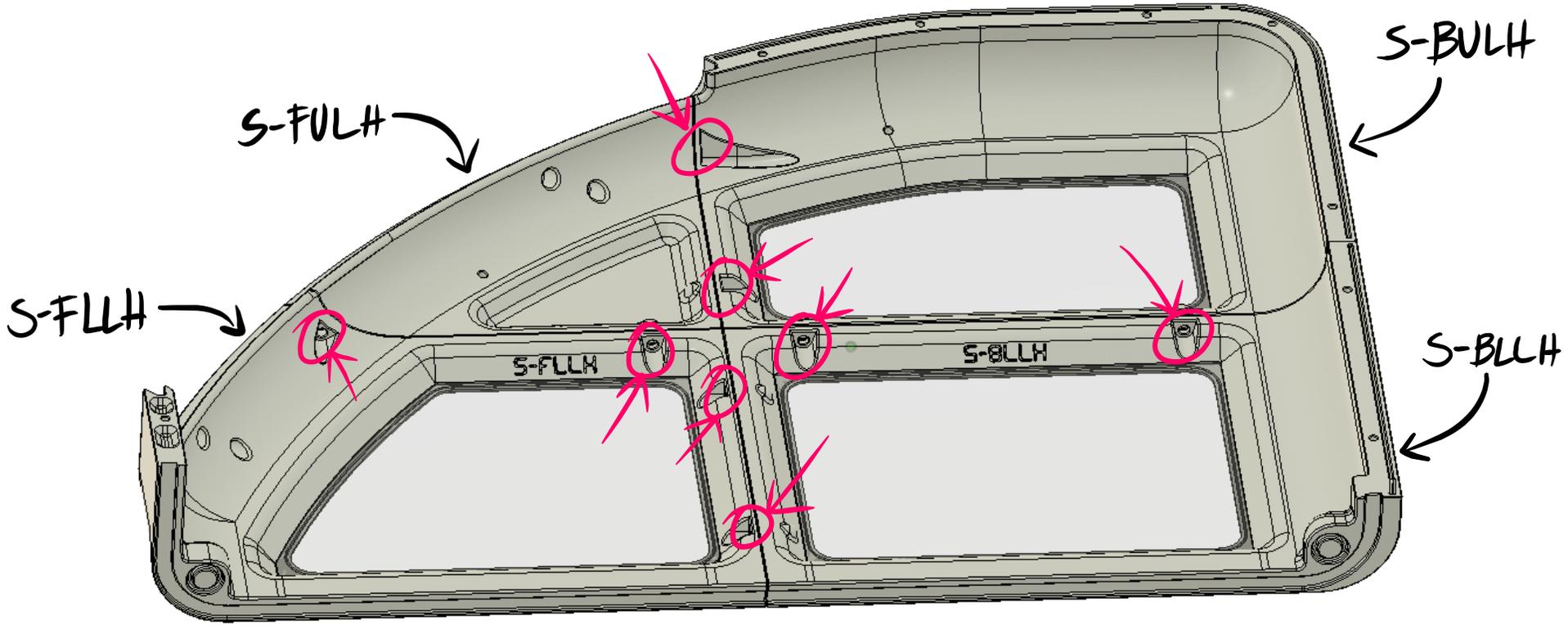




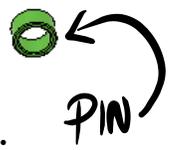
FRAME ASSEMBLY SNAPMAKER U1-POD COVER

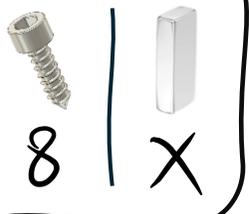
LEFT SIDE

PUT THE PARTS TOGETHER AND SECURE THEM WITH SCREWS USING THE HOLES MARKED IN RED.



FOR THE BOTTOM PINS, YOU'LL JUST NEED A DROP OF SUPER GLUE.

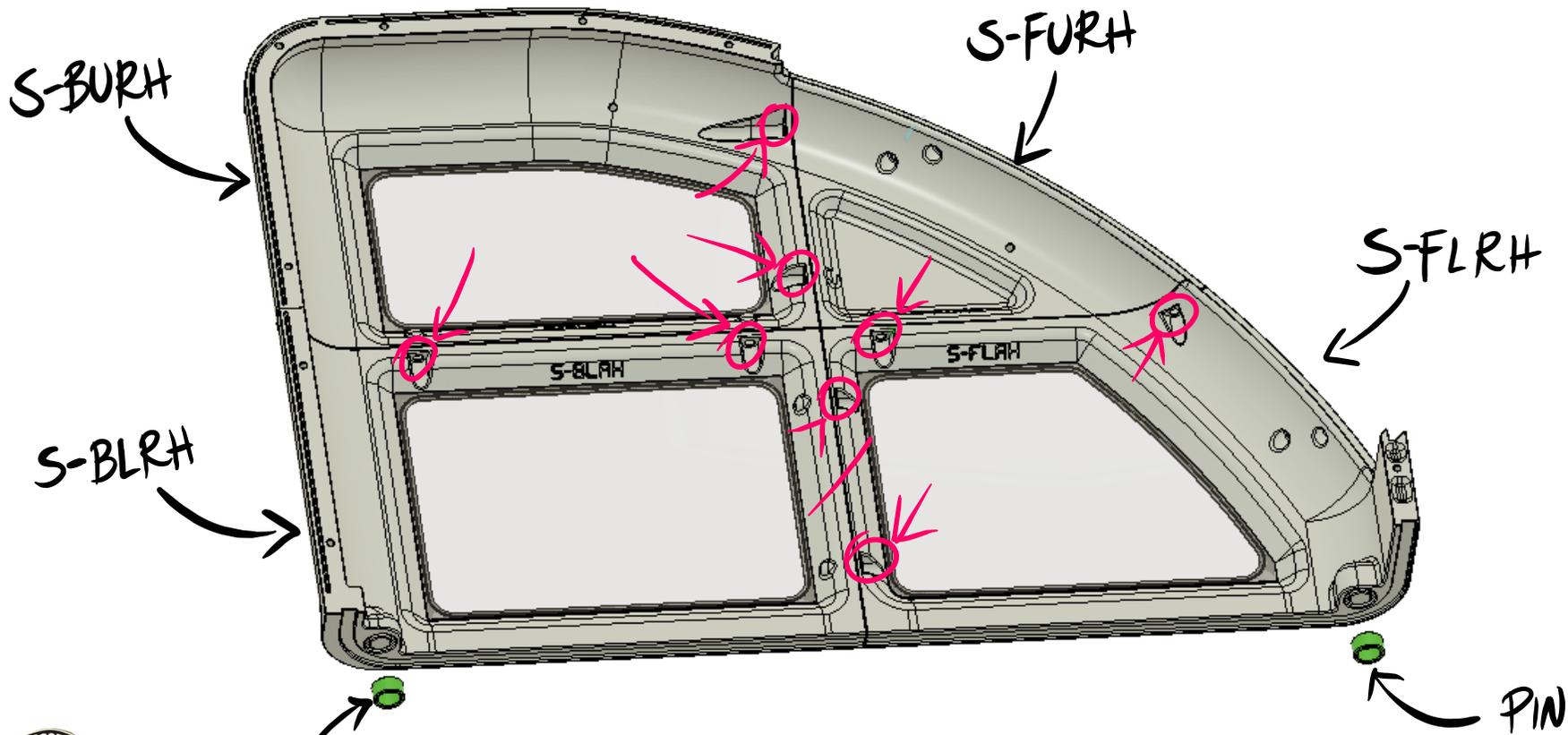




FRAME ASSEMBLY SNAPMAKER U1 - POD COVER

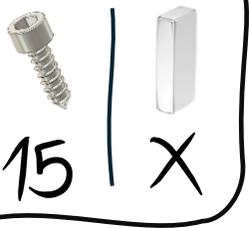
RIGHT SIDE

PUT THE PARTS TOGETHER AND SECURE THEM WITH SCREWS USING THE HOLES MARKED IN RED.



PIN FOR THE BOTTOM PINS, YOU'LL JUST NEED A DROP OF SUPER GLUE.

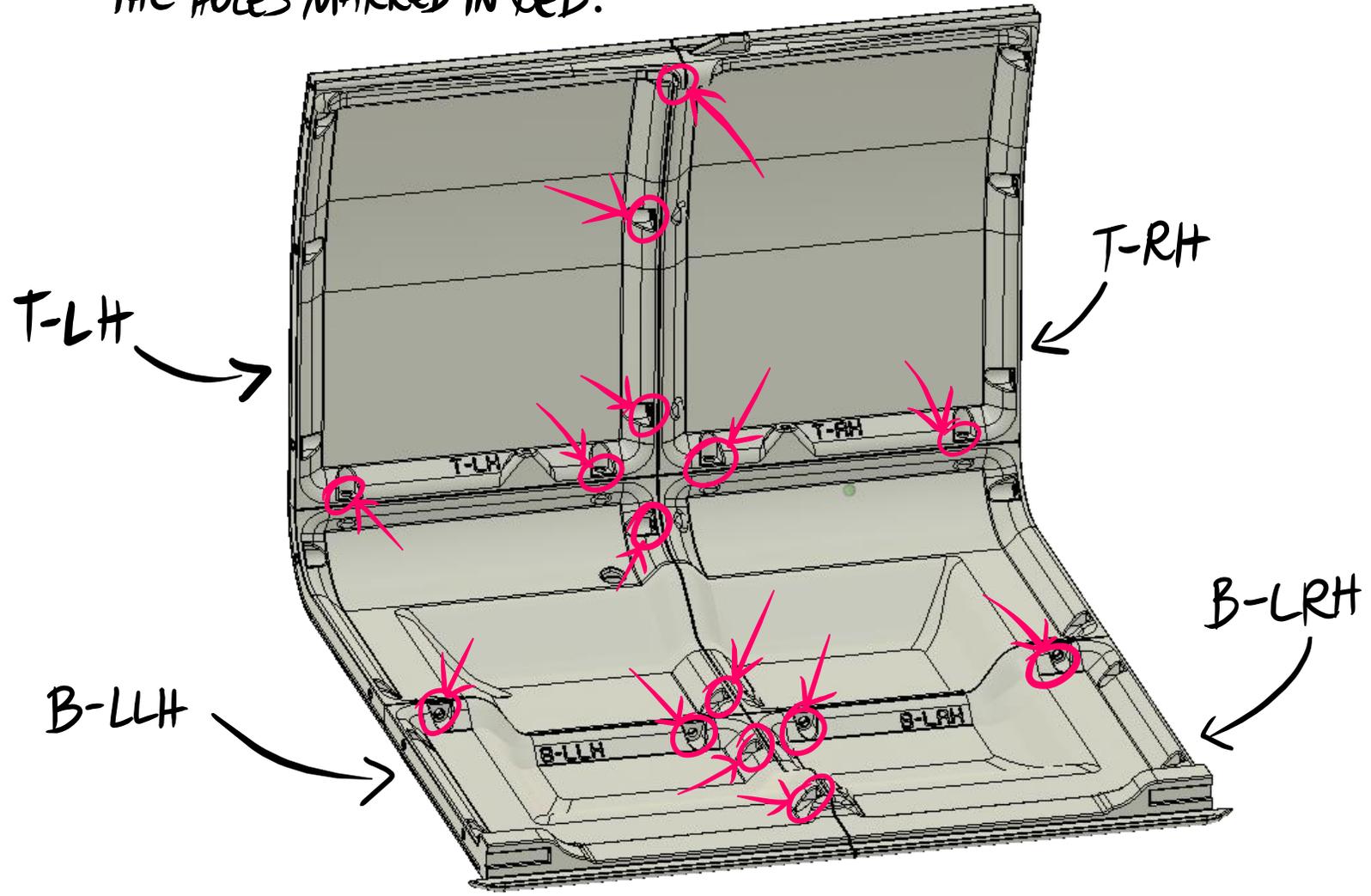




FRAME ASSEMBLY SNAPMAKER U1 - POD COVER

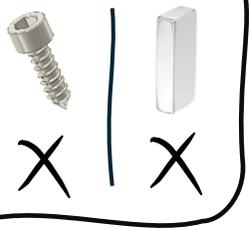
BACK-TOP SIDE

PUT THE PARTS TOGETHER AND SECURE THEM WITH SCREWS USING THE HOLES MARKED IN RED.

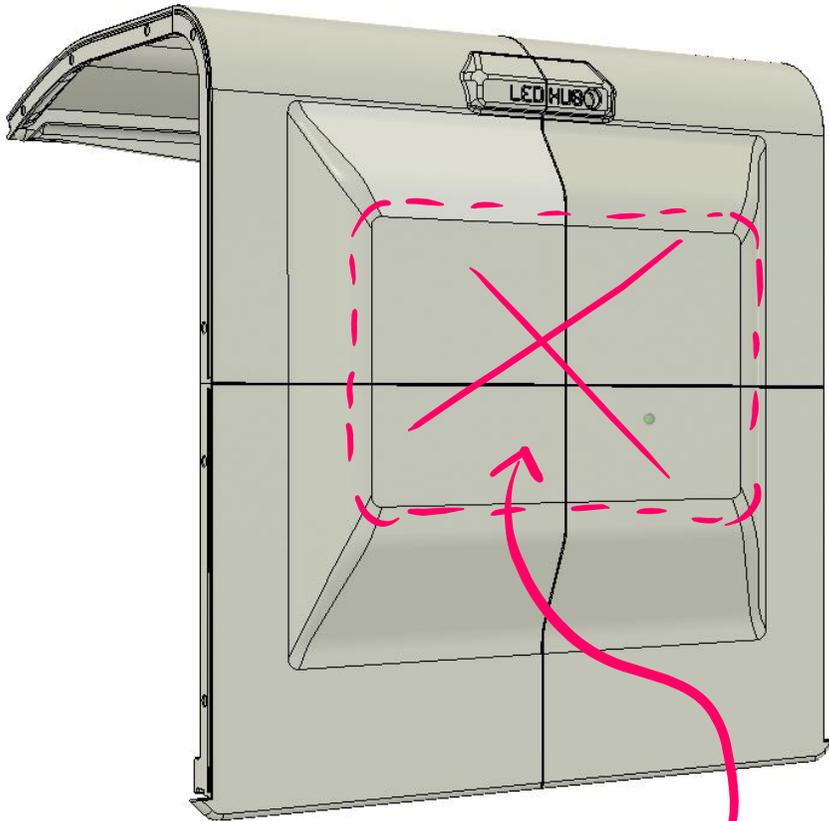


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BACK SIDE OPTIONS SNAPMAKER U1 - POD COVER



LET'S TALK ABOUT THE POD HEATER!



THIS IS THE DRYER SPACE

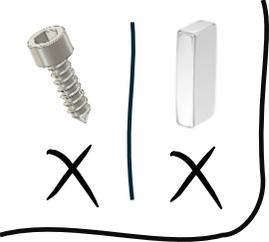
THIS TIME I DIDN'T PICK ONE, BUT FIGURED EVERYONE MIGHT WANT SOMETHING DIFFERENT DEPENDING ON WHAT IS AVAILABLE AND BASED ON A SPECIFIC BUDGET.

I'M DOWN TO REDESIGN FOR FREE THE BACK PANELS TO FIT FEW HEATERS, SO WE CAN COVER MORE SETUPS AND MAYBE SAVE SOME MONEY!

WORKS FOR YOU?



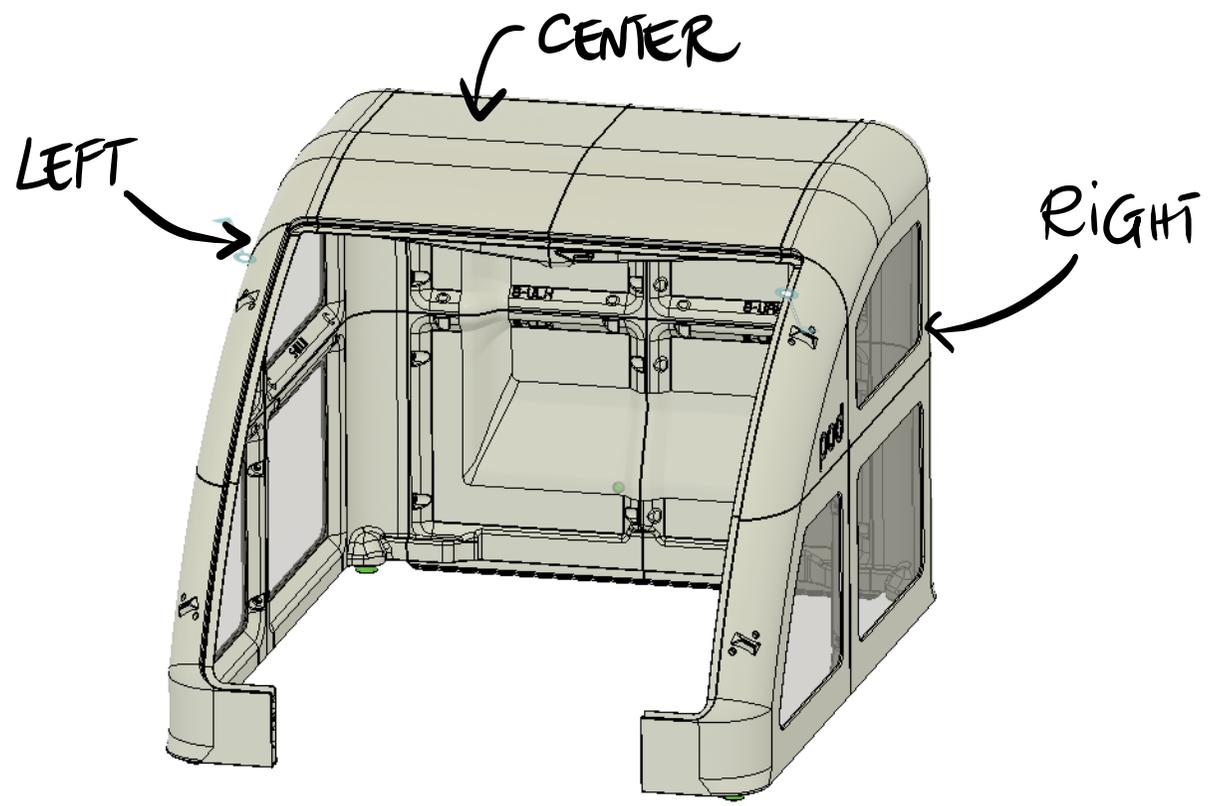
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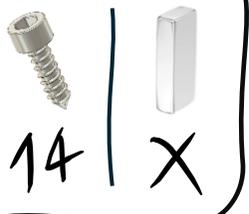
FRAME ASSEMBLY SNAPMAKER U1 - POD COVER



LET'S PUT ALL THE SIDES TOGETHER.

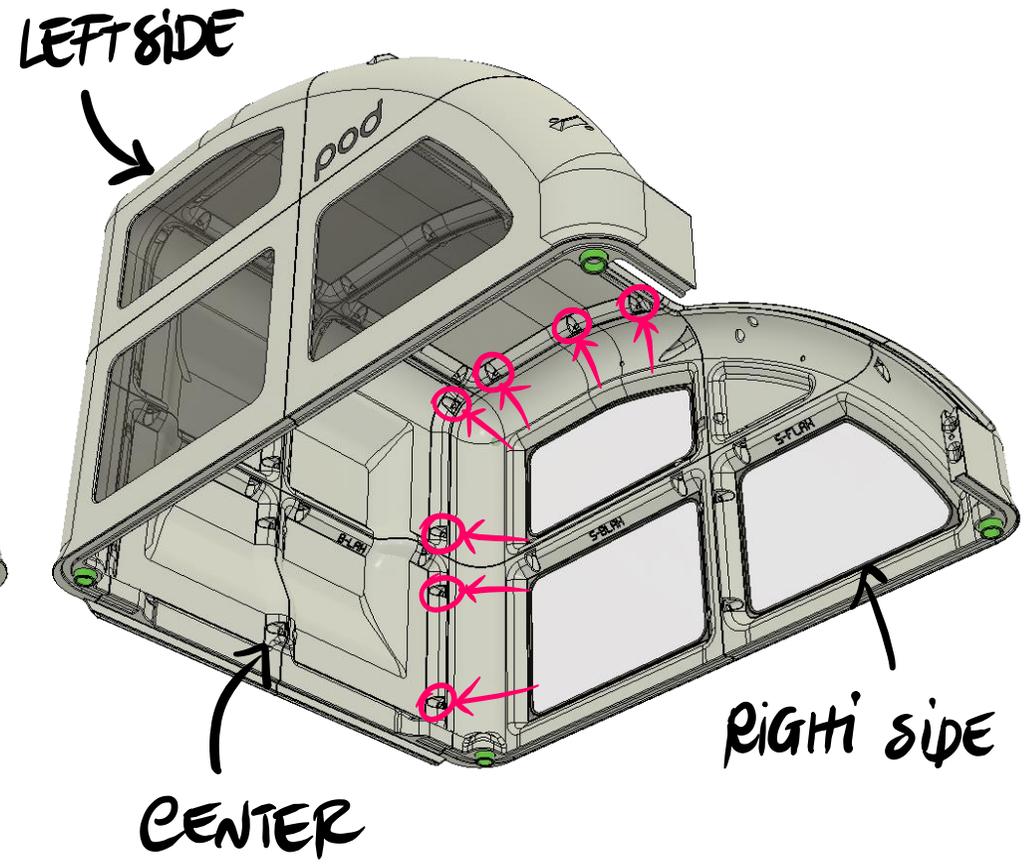
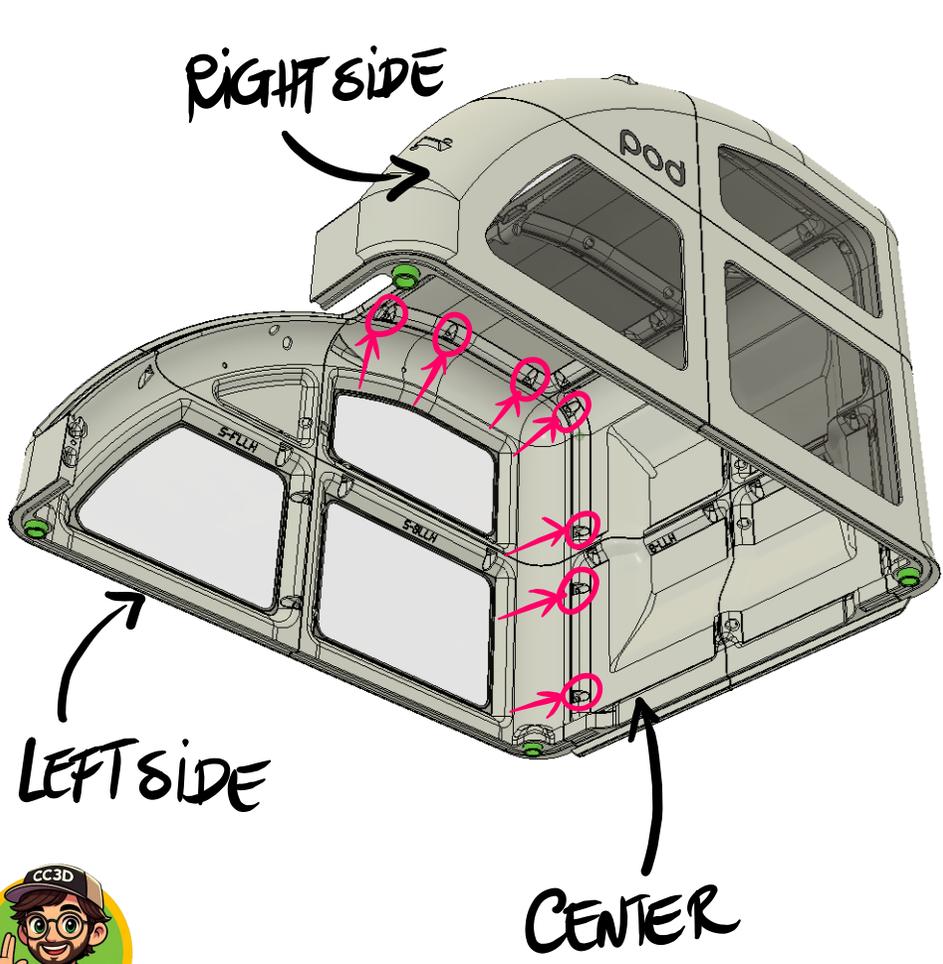


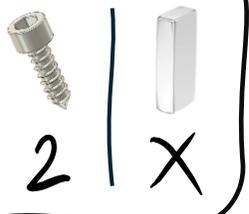
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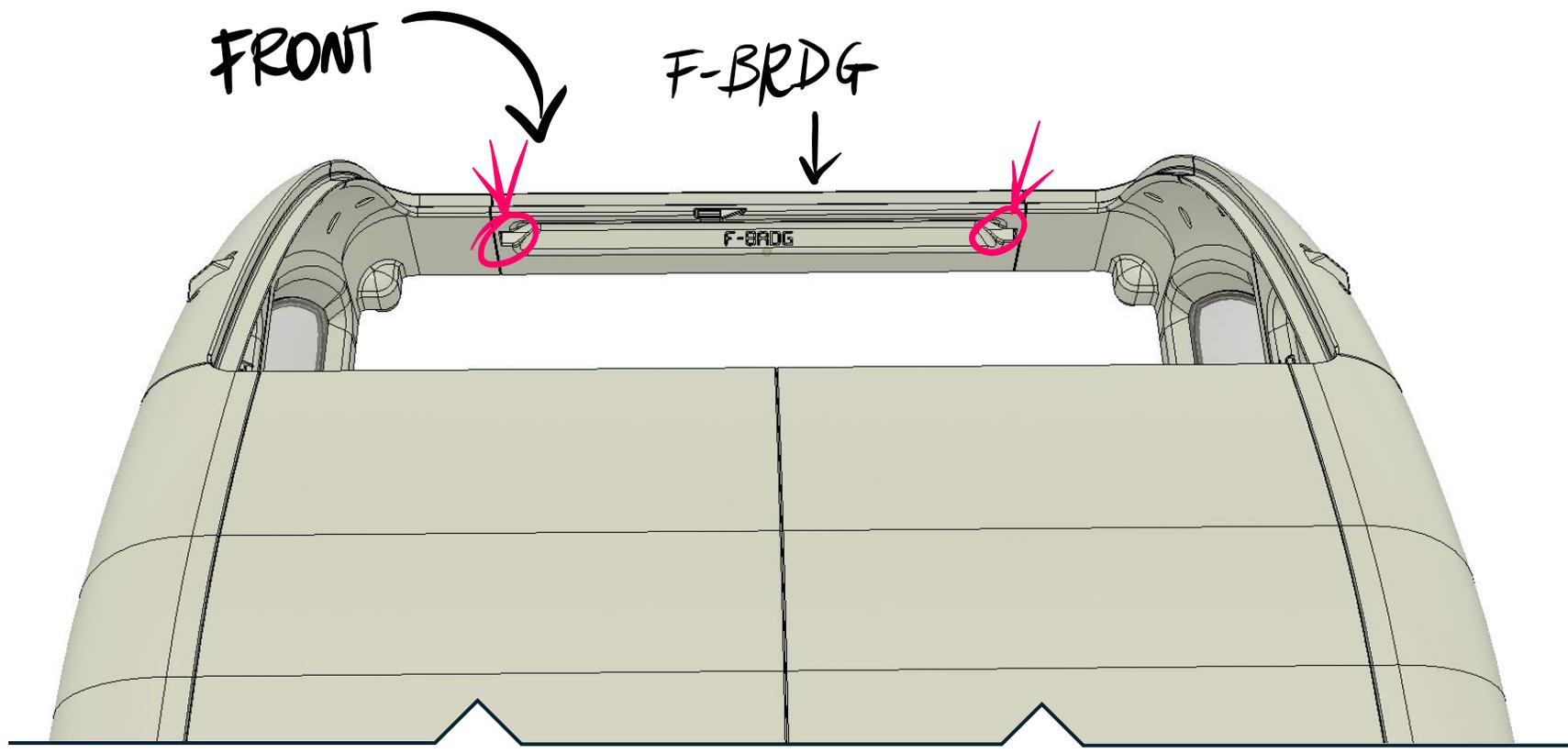
SECURE THEM WITH SCREWS USING THE HOLES MARKED IN RED.





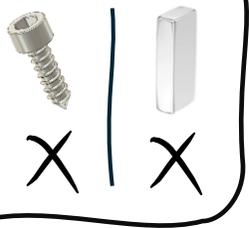
FRAME ASSEMBLY SNAPMAKER U1 - POD COVER

SECURE THEM WITH SCREWS USING THE HOLES MARKED IN RED.



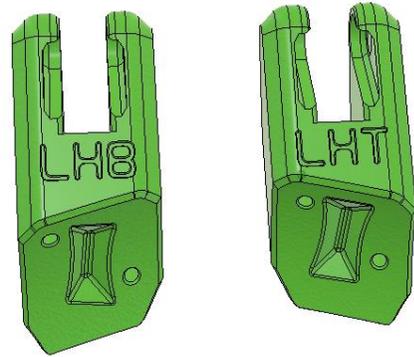
BACK TOP VIEW





FRAME ASSEMBLY SNAPMAKER U1 - POD COVER

LET'S INSTALLE THE HINGES ON THE FRAME



LHB
THIS CODE MEANS
LEFT BOTTOM

SO

THIS IS THE BOTTOM
FEMALE HINGE

LEFT SIDE

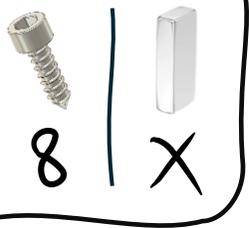
LHT

THIS CODE MEANS
LEFT TOP

THIS IS THE TOP
FEMALE HINGE

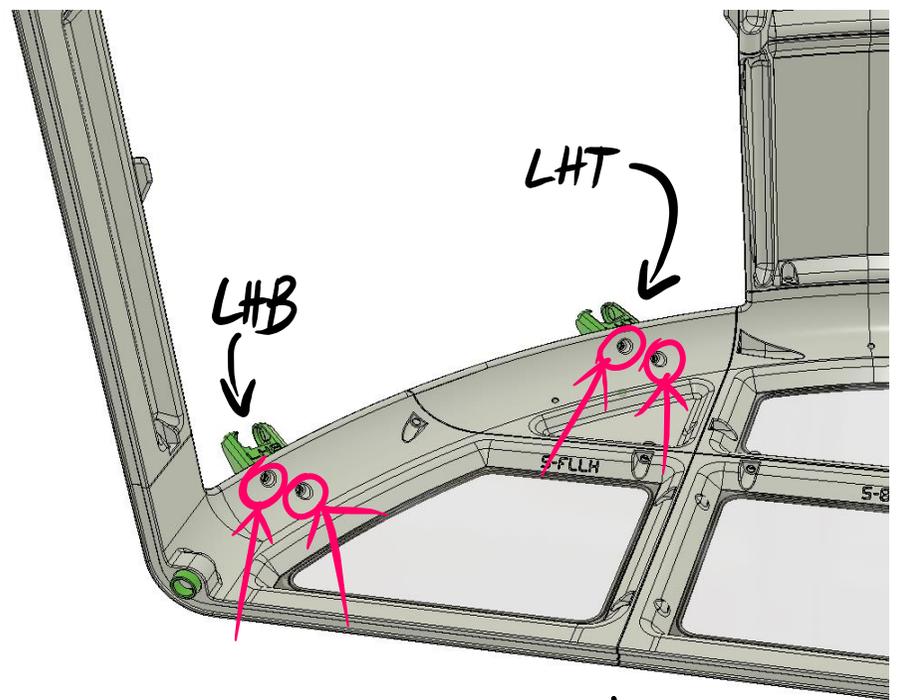
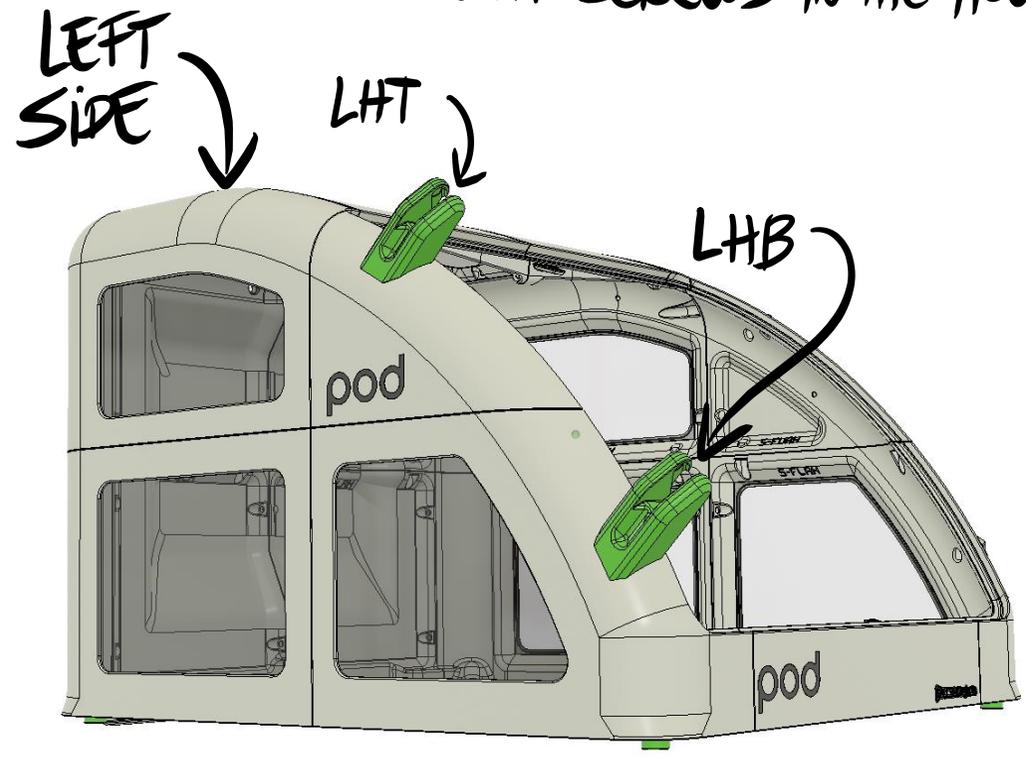
“ RHB & RHT
ARE THE CODE FOR THE
RIGHT SIDE ”





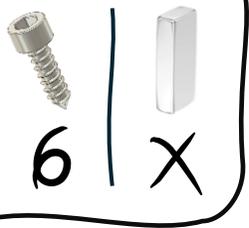
FRAME ASSEMBLY SNAPMAKER U1 - POD COVER

PLACE THE HINGES AS SHOWN IN THE PICTURES AND SECURE THEM WITH SCREWS IN THE HOLE HIGHLIGHTED IN RED.



REPEAT THE SAME STEPS FOR THE RIGHT SIDE!

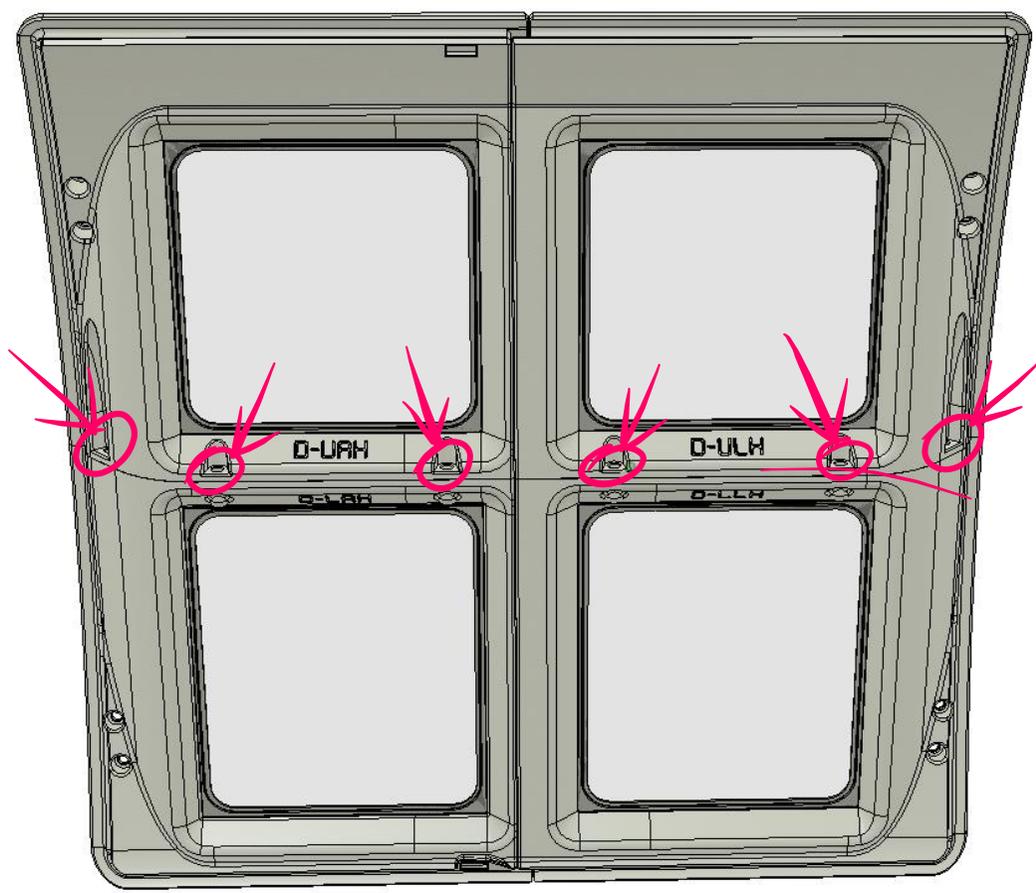




DOOR ASSEMBLY SNAPMAKER U1 - POD COVER

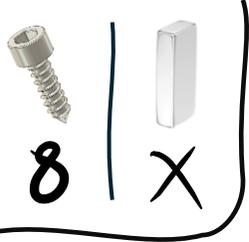
SECURE THEM WITH SCREWS USING THE HOLES MARKED IN RED.

TOP SIDE



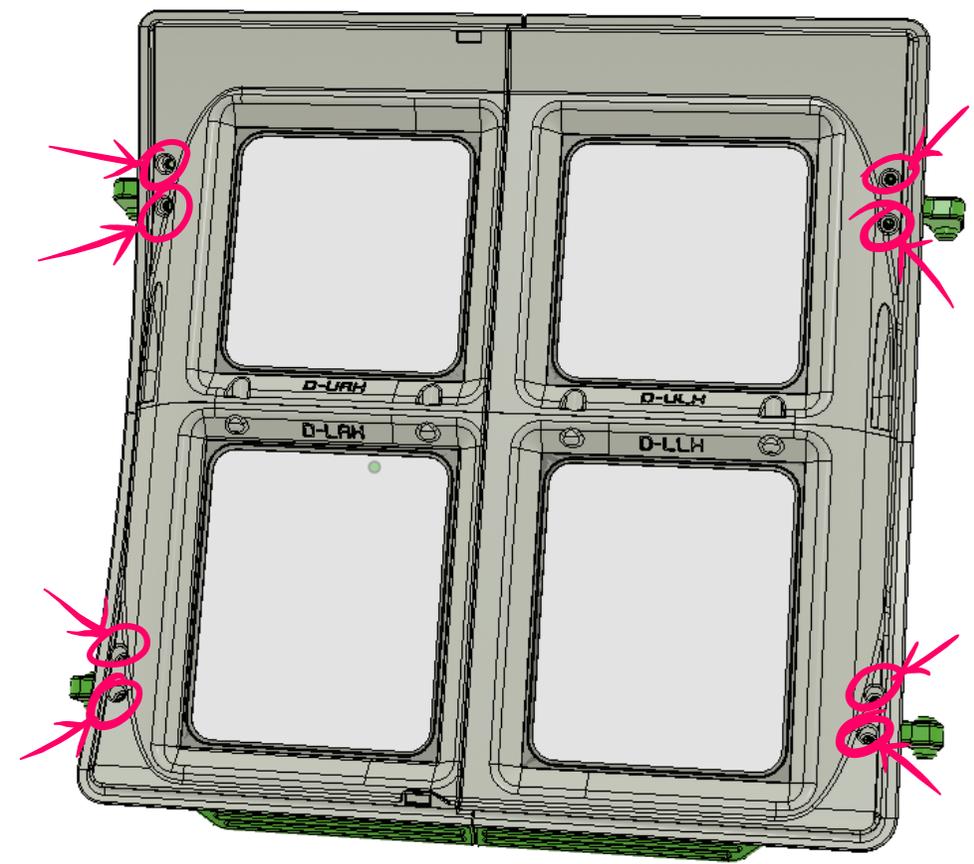
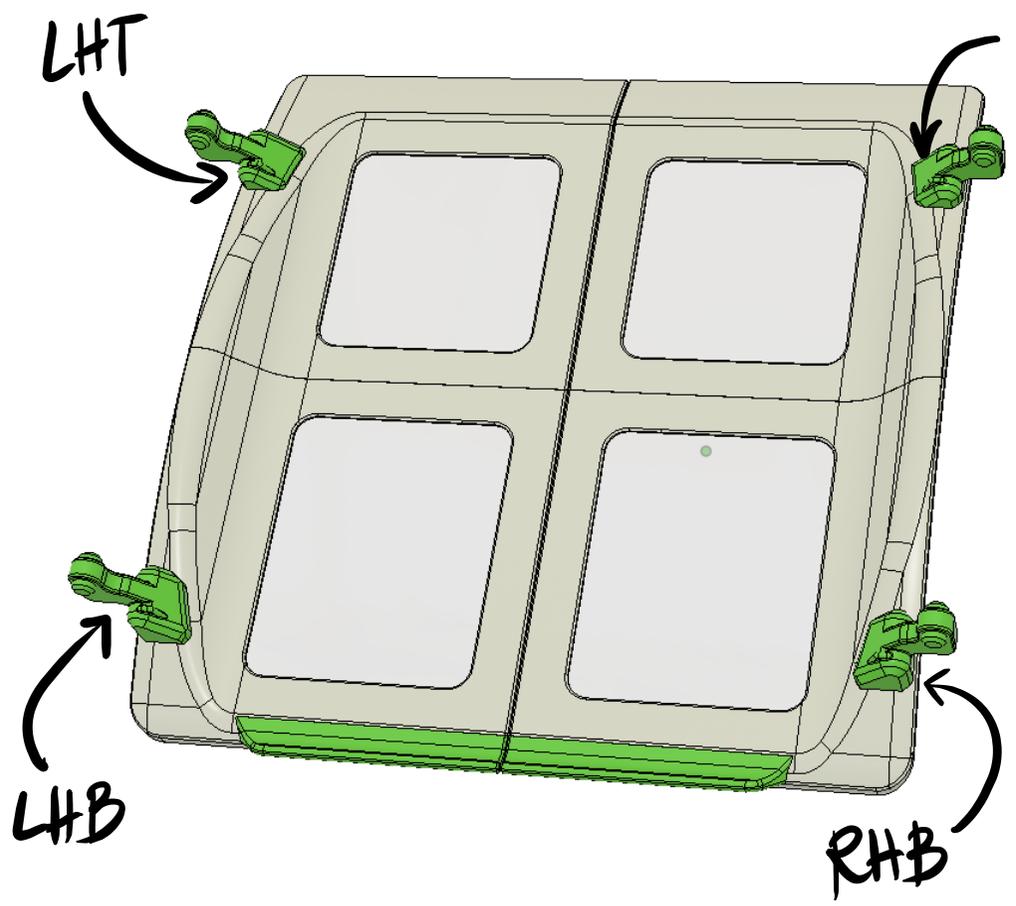
BOTTOM SIDE





DOOR ASSEMBLY SNAPMAKER U1 - POD COVER

SECURE THEM WITH SCREWS USING THE HOLES MARKED IN RED.



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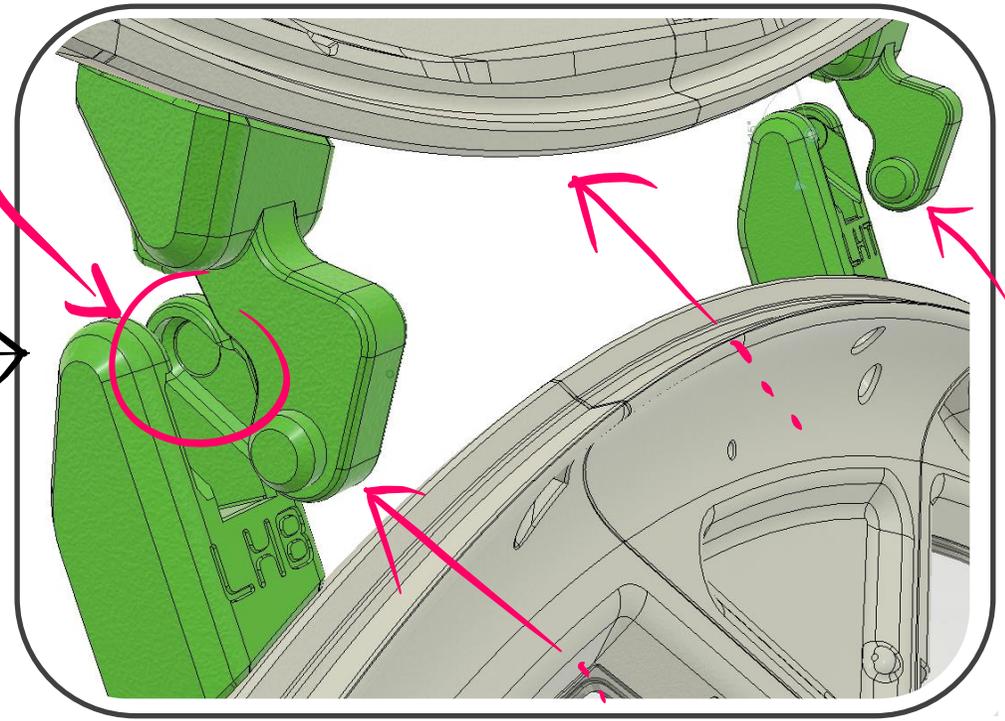
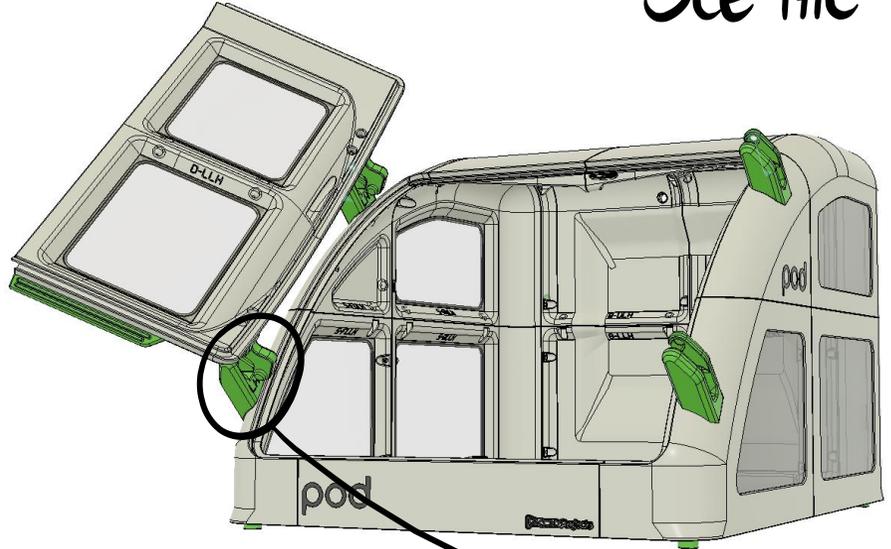


DOOR INSTALLATION

SNAPMAKER U1 - POD COVER



SEE THE TRACKS INSIDE THE FEMALE HINGES?



SLIDE THE ONES ON THE DOORS ALL THE WAY IN UNTIL THEY CLICK INTO PLACE!



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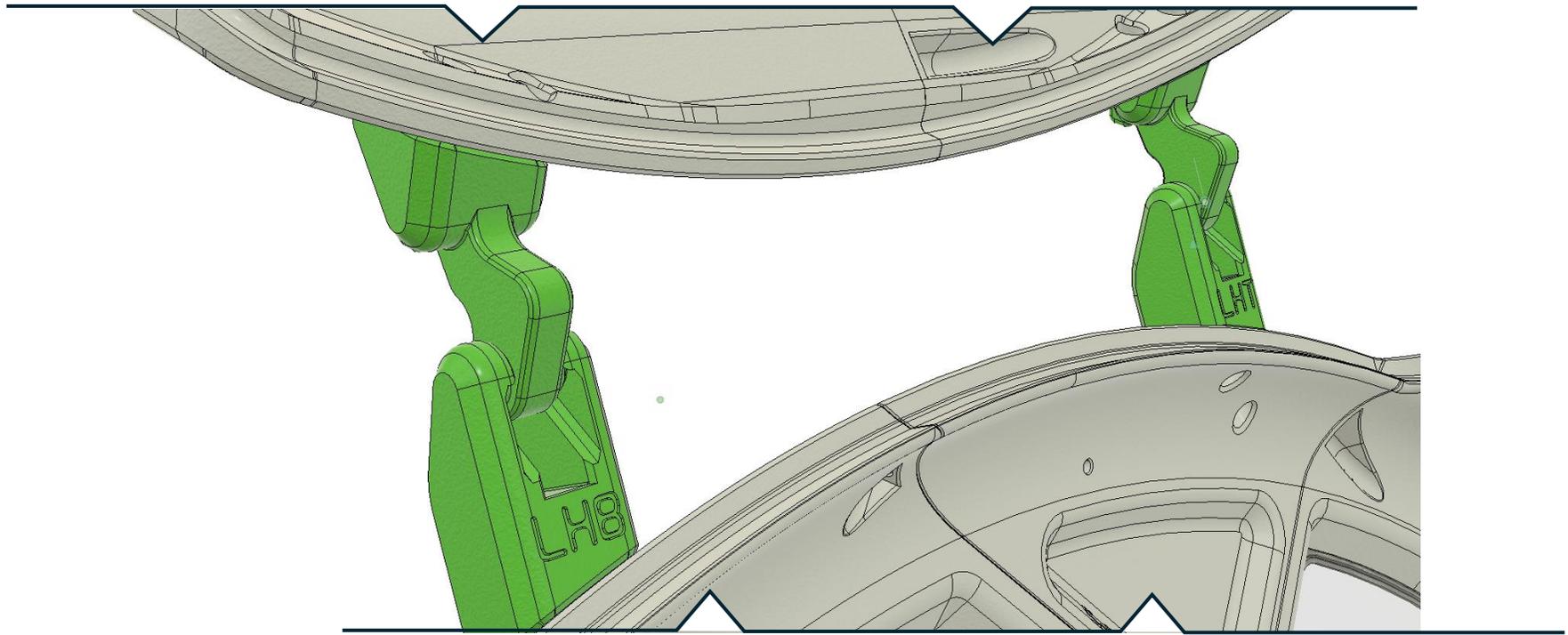


DOOR INSTALLATION

SNAPMAKER U1 - POD COVER



WHEN THE HINGES ARE PROPERLY IN PLACE, THEY SHOULD LOOK LIKE THIS.



NOW ALL THAT'S LEFT IS TO TRY CLOSING THE DOOR...
... AND OF COURSE, DO THE SAME THING WITH THE OTHER DOOR!



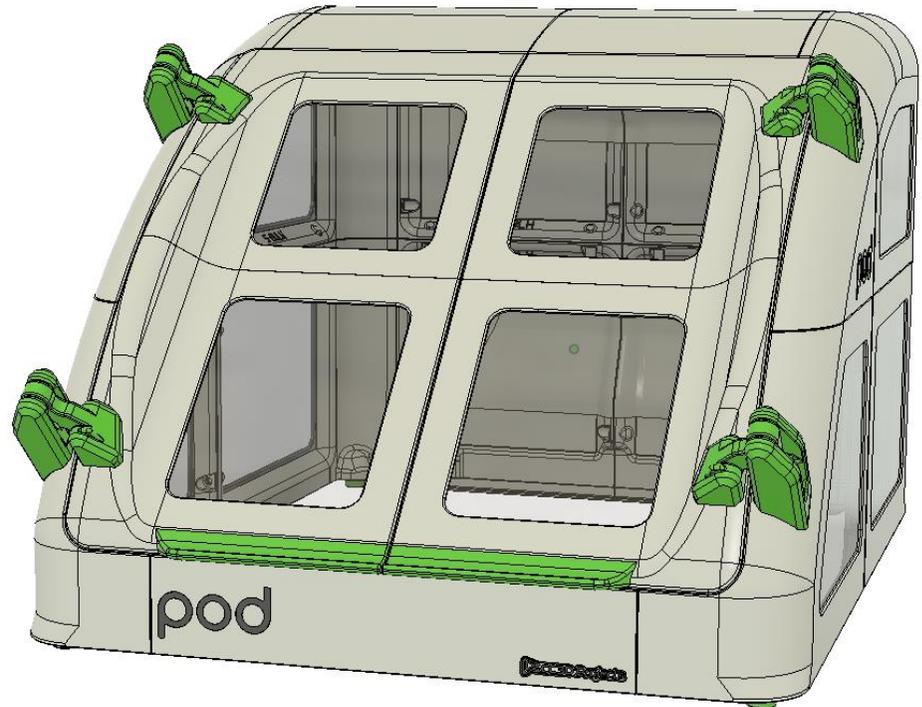


DOOR INSTALLATION

SNAPMAKER U1 - POD COVER



IN THE END, YOU SHOULD END UP WITH SOMETHING LIKE THIS, IT MIGHT NOT WORK PERFECTLY ON THE FIRST TRY THOUGH!



PARTS WARPED OR BENDED CAN EFFECT HOW WELL THE DOORS LINE UP.

IF YOU RUN INTO ISSUES, CAREFULLY CHECK ALL THE PANELS AND HOW THEY LINE UP. IF YOU NOTICE ANY WARPING OR DEFORMATION, REPRINT THAT PART.

YOU CAN ALSO TRY TO LOOSE THE FEMALE HINGES SCREWS A BIT, CLOSE THE DOORS AND TIGHTENING THE SCREWS ONCE AGAIN.



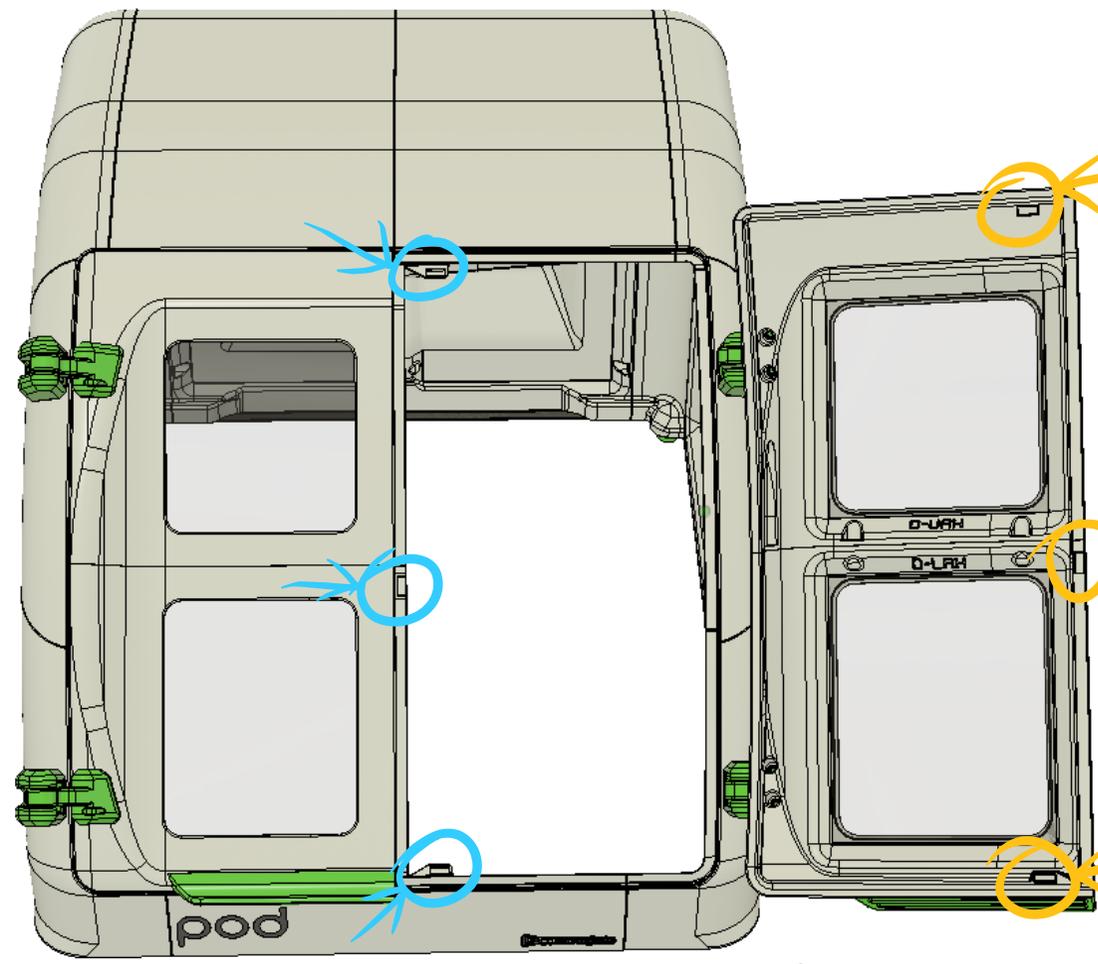
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GLUING MAGNETS SNAPMAKER U1 - POD COVER

LET'S GET OUR HANDS DIRTY WITH SUPER GLUE AND FIT THE DOOR MAGNETS!

MAGNET IN BLUE
USE
MAGNET INSTALLER
"B"



MAGNET IN
YELLOW
USE

MAGNET
INSTALLER
"A"



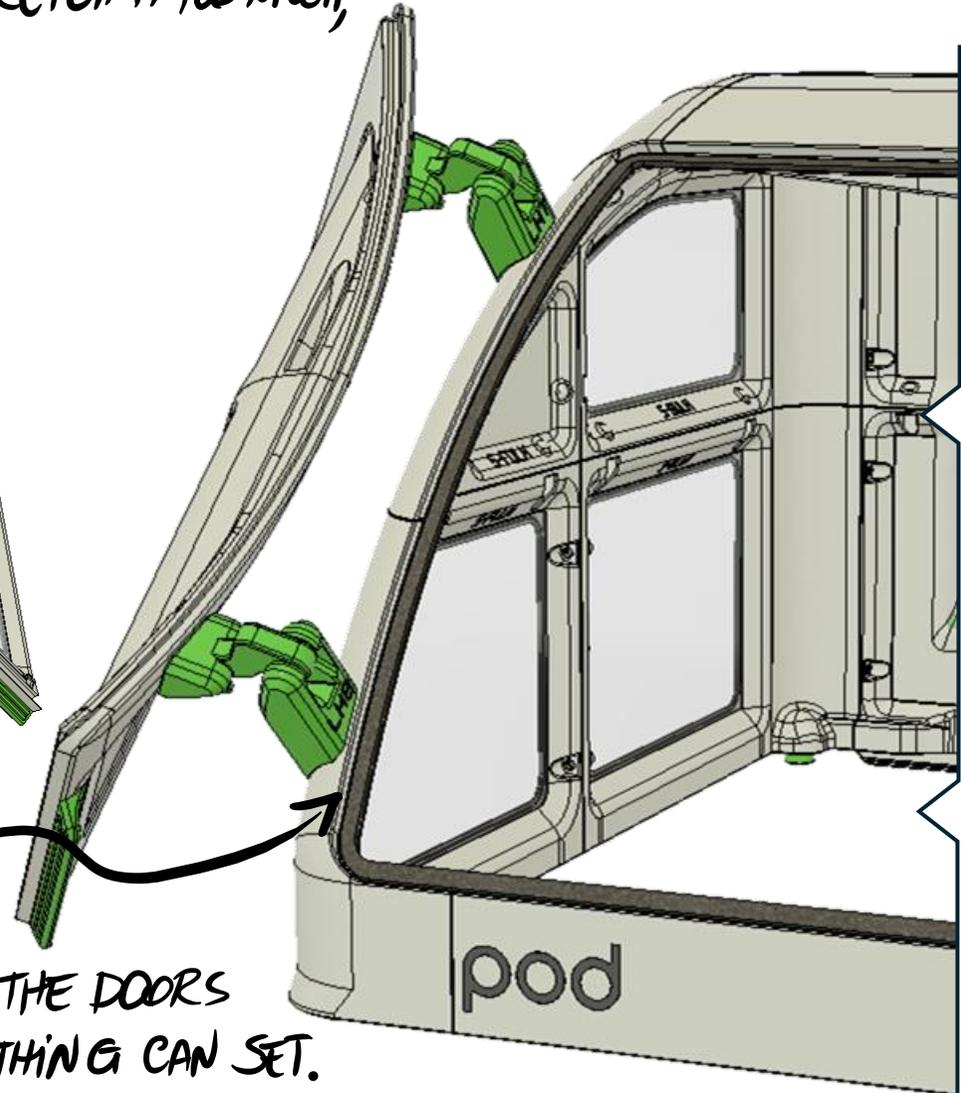
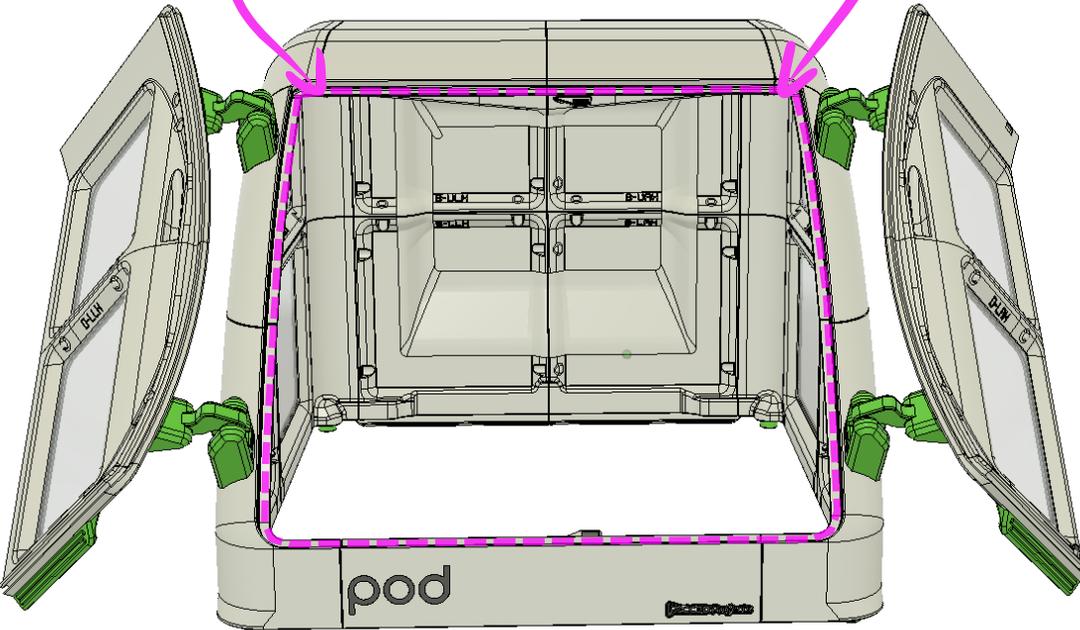
NOT SURE WHAT "MAGNET INSTALLERS" ARE?
NO WORRIES - YOU CAN FIND THEM RIGHT HERE!

[CLICK HERE](#)

GASKET INSTALLATION SNAPMAKER U1 - POD COVER



SEE THAT INNER FRAME AROUND THE DOOR OPENING?
STICK THE GASKET ONTO IT - DON'T STRETCH IT TOO MUCH,
JUST BE GENTLE WITH IT!



YOU SHOULD END UP WITH SOMETHING LIKE THIS.

TO HELP IT TO STICK PROPERLY, KEEP THE DOORS CLOSED FOR ABOUT AN HOUR SO EVERYTHING CAN SET.

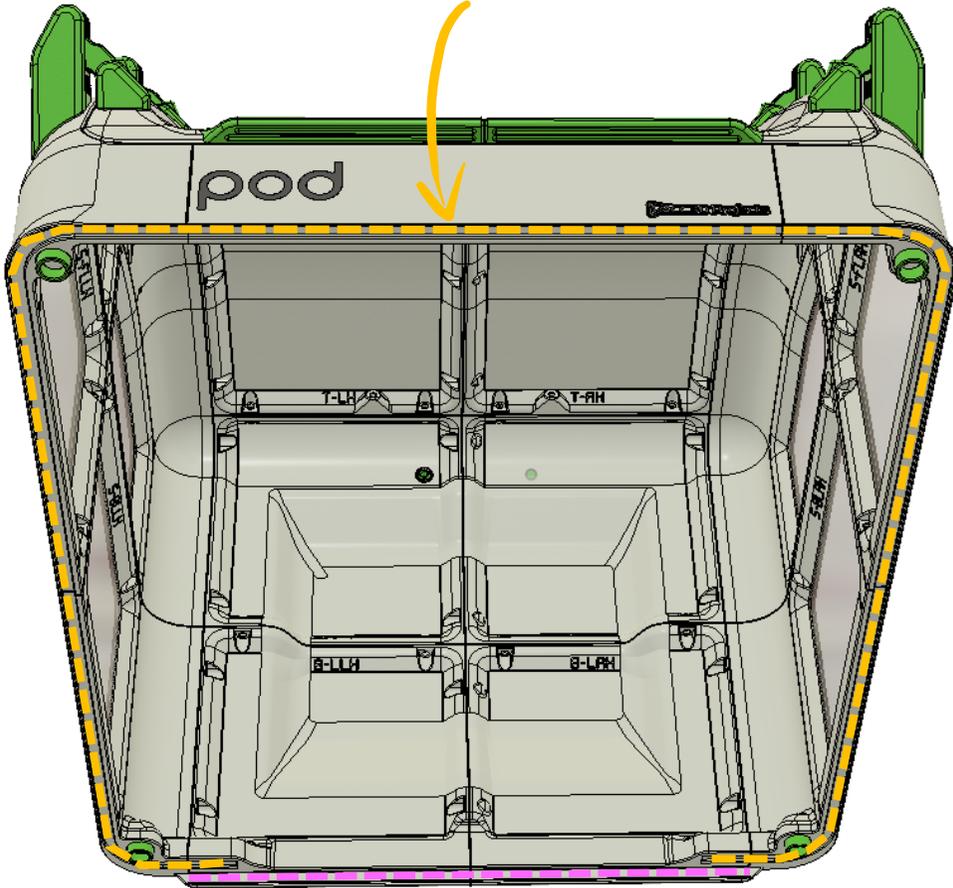




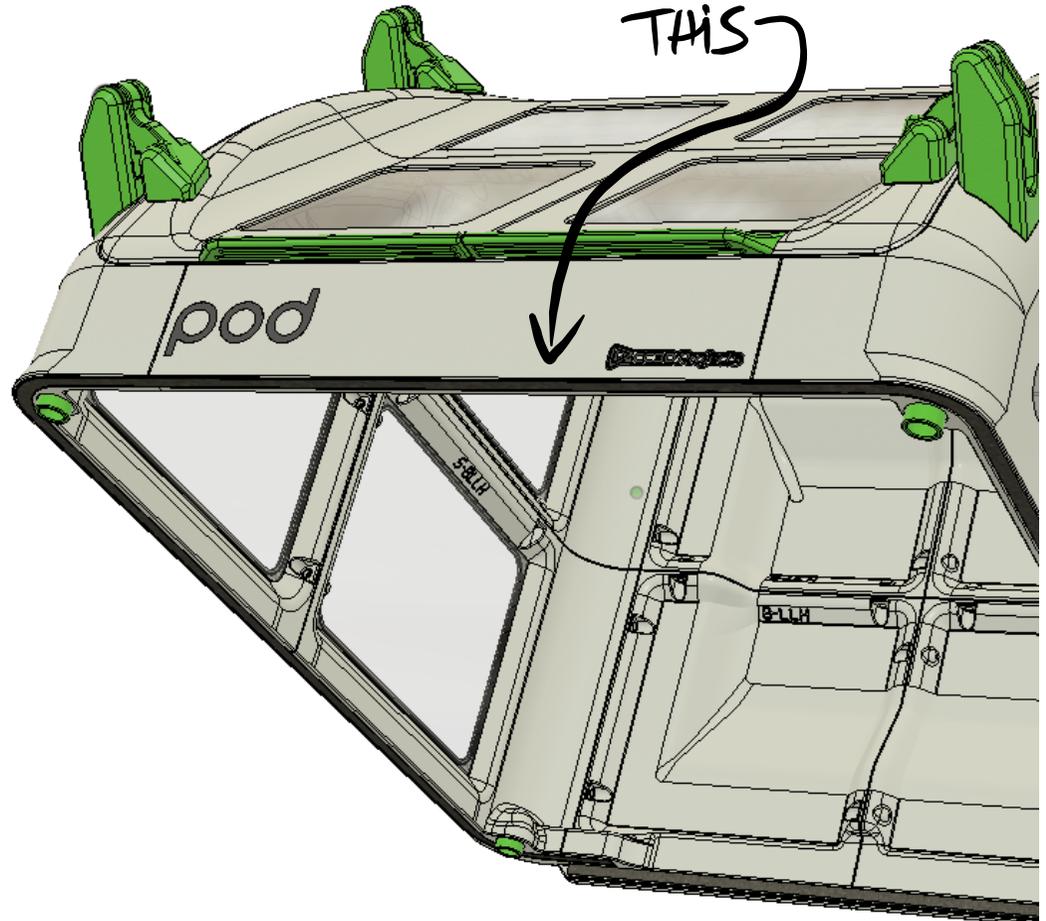
GASKET INSTALLATION SNAPMAKER U1 - POD COVER

LET'S INSTALL THE BOTTOM GASKETS.

YOU'LL HAVE ONE PERIMETER GASKET



IN THE END, YOU SHOULD GET SOMETHING LIKE THIS



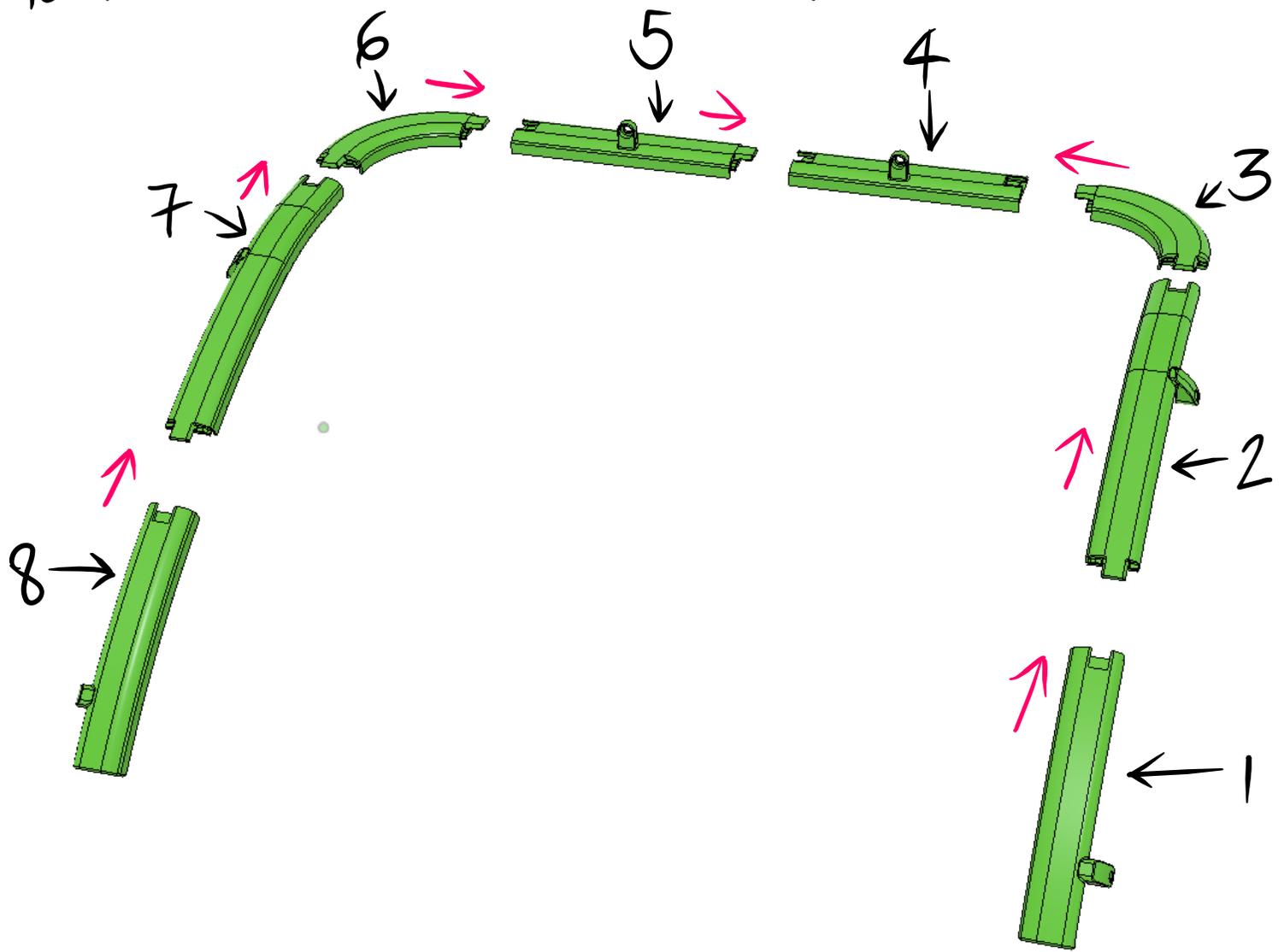
AND A SEPARATE REAR ONE

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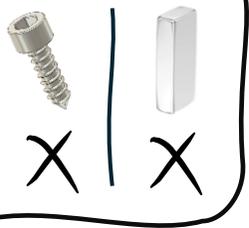


LED BAR ASSEMBLY SNAPMAKER U1-POD COVER

IF YOU STILL HAVE THE SUPER GLUE NEARBY, GRAB IT AND USE IT TO GIVE ALL THESE PARTS TOGETHER!



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LED STRIP INSTALLATION

HERE IS HOW I INSTALLED THE LED STRIP.

DISCLAIMER:

I'M NOT AN ELECTRICIAN, SO PROCEED AT YOUR RISK!

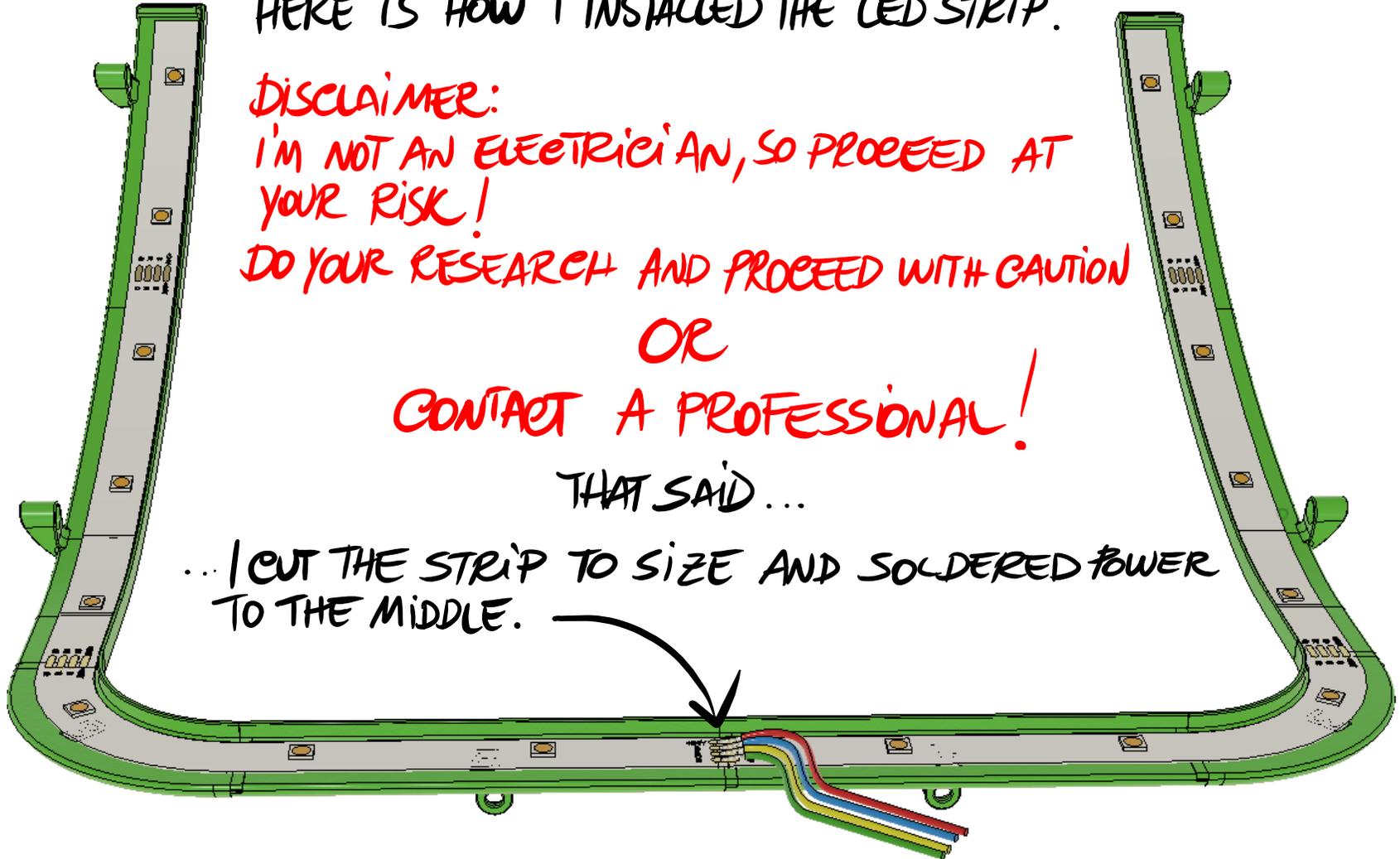
DO YOUR RESEARCH AND PROCEED WITH CAUTION

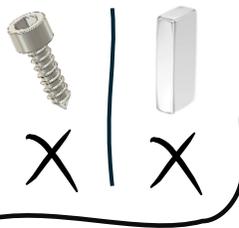
OR

CONTACT A PROFESSIONAL!

THAT SAID...

... I CUT THE STRIP TO SIZE AND SOLDERED POWER TO THE MIDDLE.





LED BAR INSTALLATION

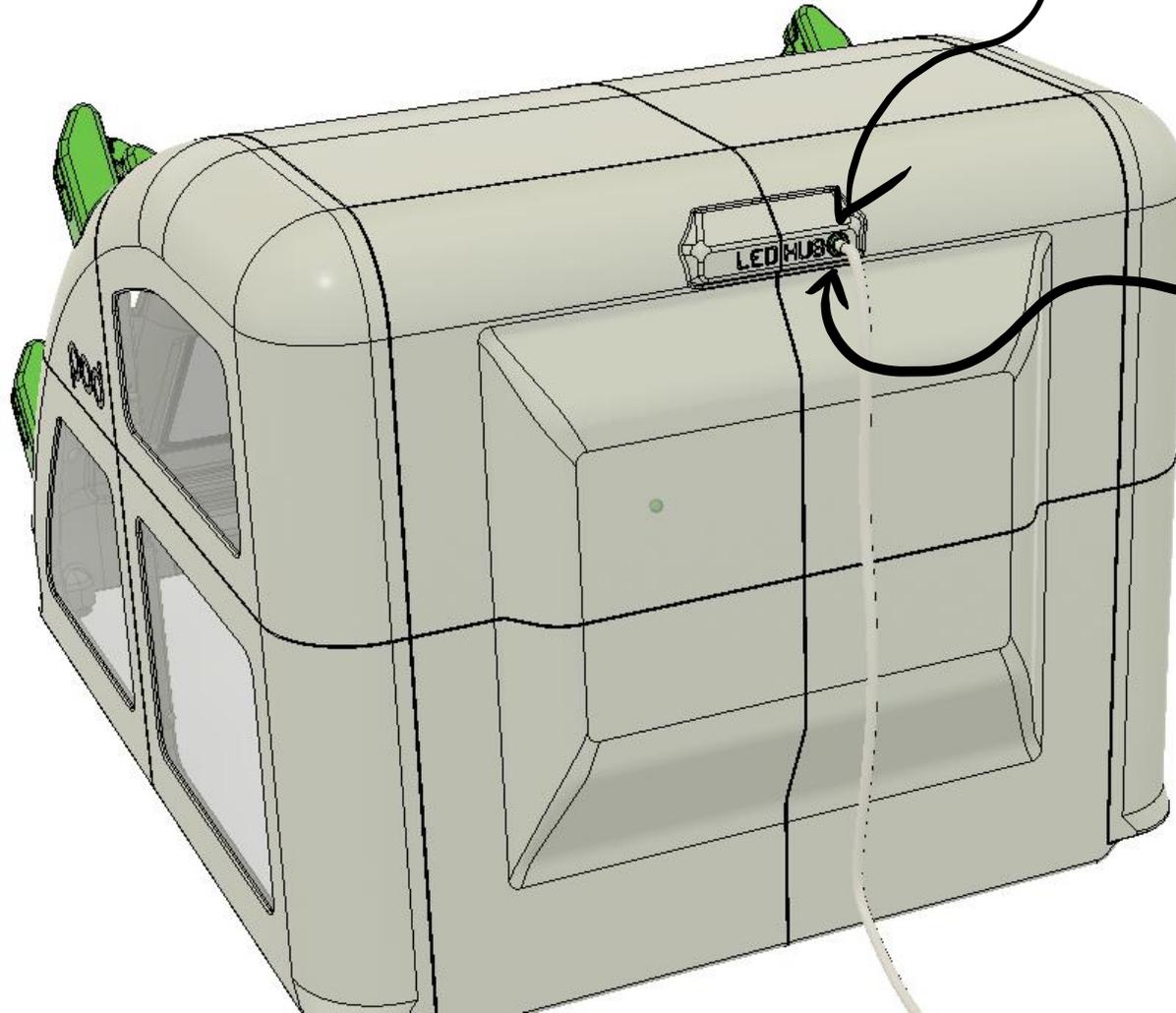
YOU MIGHT BE WONDERING WHICH LED STRIP I USE AND HOW I CONTROL THEM. BELOW ARE FEW EXAMPLE OF PRODUCTS - I PICKED THESE CAUSE THEY ALREADY HAVE BUILD-IN WIFI CONTROL WITH THE MAIN ASSISTANT, SO I CAN INTEGRATE THEM INTO MY SMART HOME SETUP. I'M LAZY I KNOW! LOL BUT I'M SURE YOU CAN DO IT BETTER!!



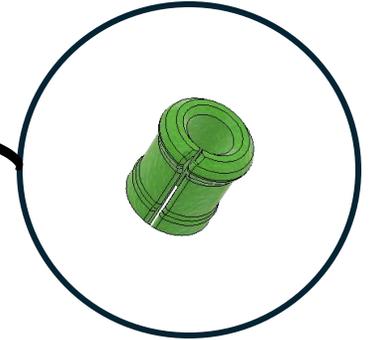
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LED STRIP INSTALLATION

I CUT THE LED STRIP'S POWER CABLE, MARKED THE POLARITY, THEN I ROUTED THE WIRE THROUGH THE TPU GASKET



TPU GASKET

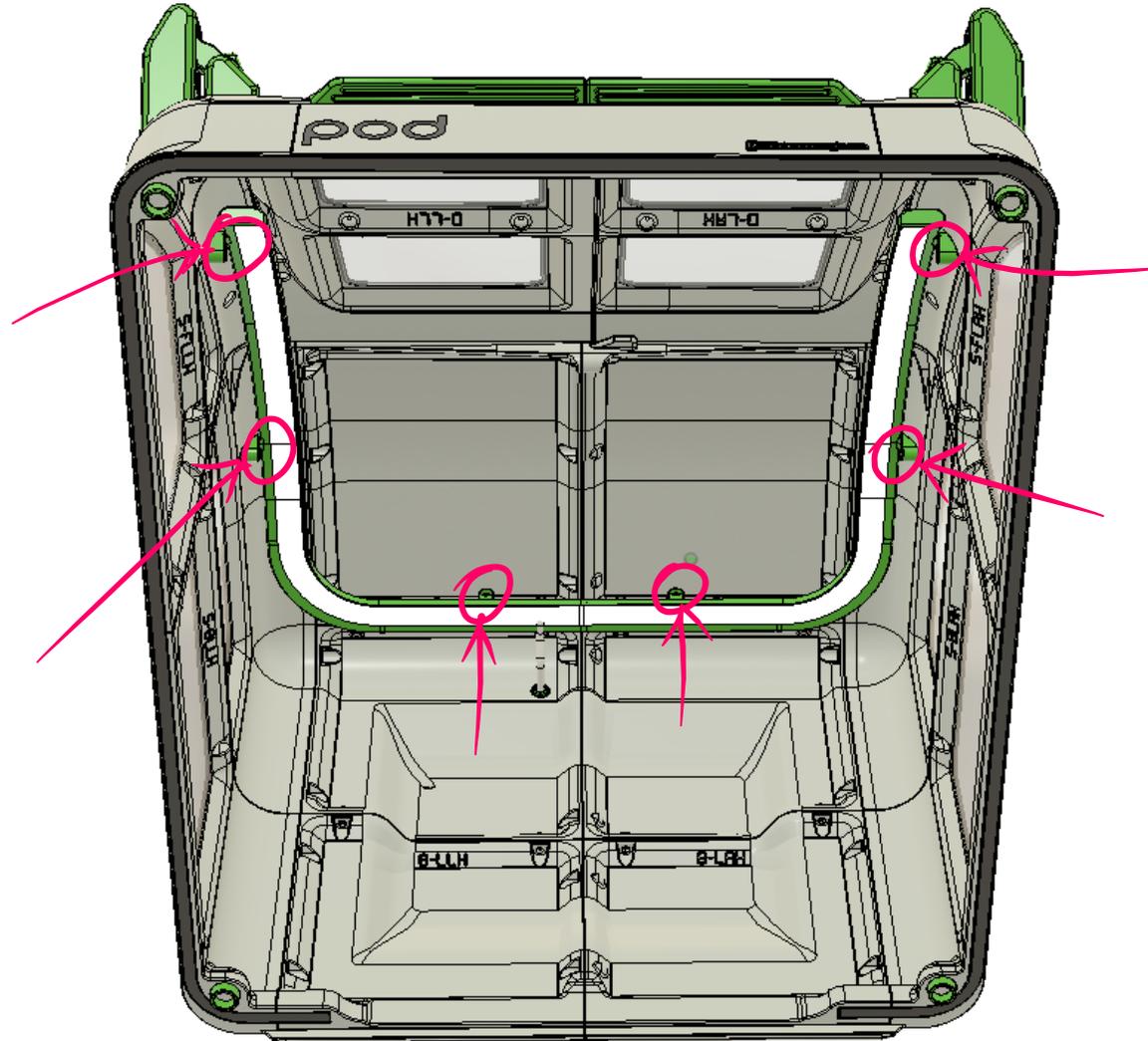




LED BAR INSTALLATION

SNAPMAKER U1 - POD COVER

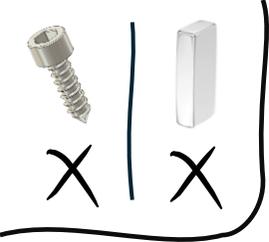
INSERT THE BAR FROM THE BOTTOM AND SECURE IT WITH SCREWS USING THE HOLES HIGHLIGHTED IN RED.



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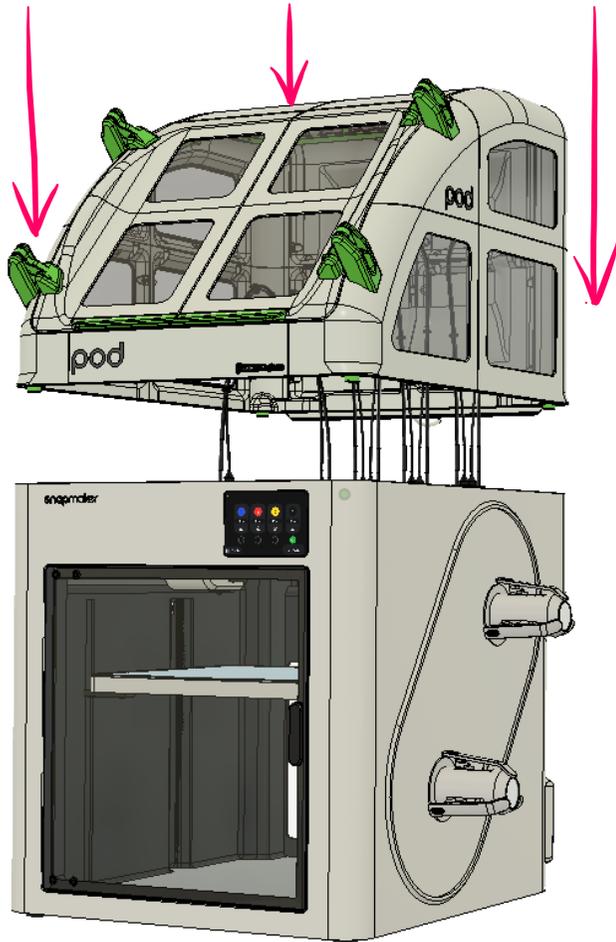
LAST STEP

SNAPMAKER U1 - POD COVER



WE'RE ALMOST THERE - READY?

COME ON, GO AHEAD AND SET THE POD ON TOP OF YOUR AWESOME U1!



ALRIGHT, LOOK LIKE YOU MADE IT TO THE END!
BUT, IF YOUR RESULT DOESN'T LOOKS KINDA LIKE THIS...
... MY FRIEND ...

WHAT ARE YOU DOING WITH YOUR LIFE? 😊
SERIOUSLY THOUGH ...

JUST HIT ME UP, WE'LL FIGURE OUT
WHAT WENT WRONG!!

BUT

IF YOU ARE PROUD OF WHAT YOU BUILD
(AND YOU SHOULD BE) ...

... WELL ...

... HOW ABOUT SNAPPING A COUPLE
OF PICS AND TOSSING THEM ONLINE?

MAYBE TAGGING ME?

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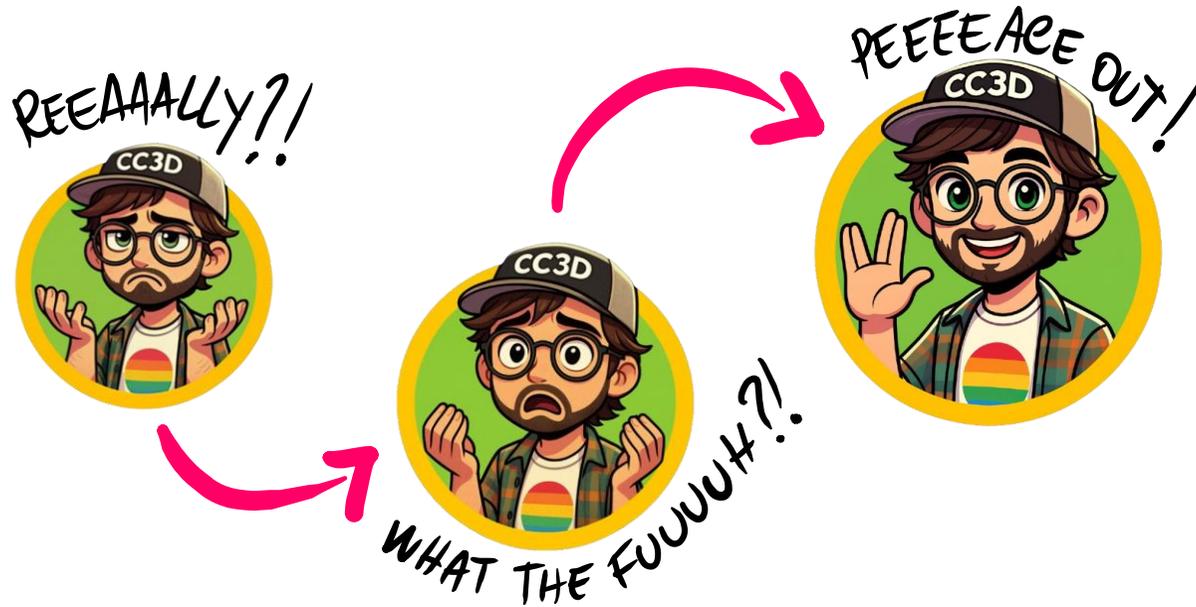
THANKS
Enrico



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THANKS FOR STICKING WITH ME THROUGH THIS ASSEMBLY GUIDE
IT TOOK ME HOURS TO PUT THIS GUIDE TOGETHER, I TRULY HOPE YOU LIKE IT!
IF THERE'S ANYTHING I CAN DO BETTER, PLEASE LET ME KNOW!
I'M ALWAYS HERE TO HELP AND IMPROVE MY WORK AND MY MODELS!

CIAO
Enrico





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