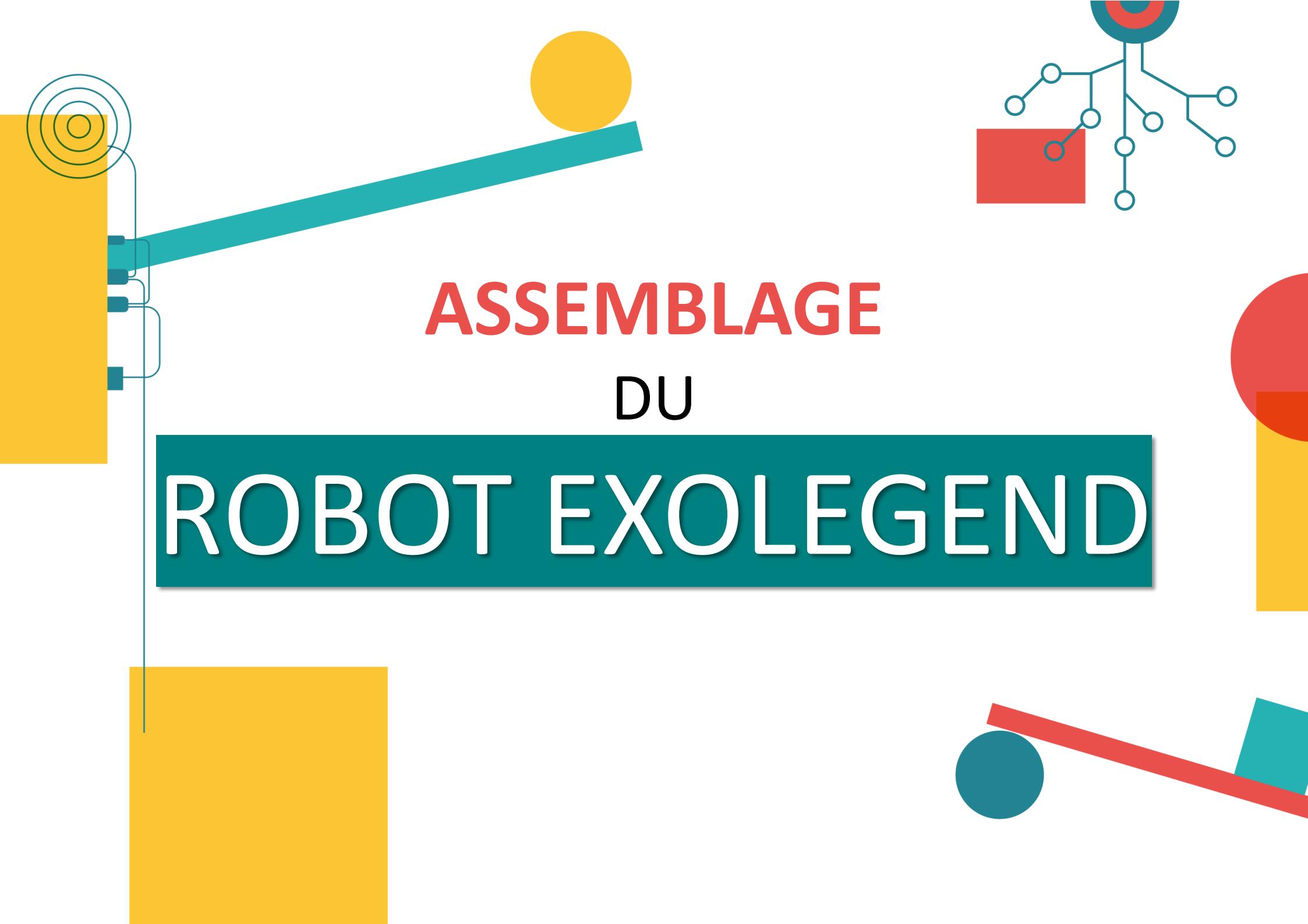


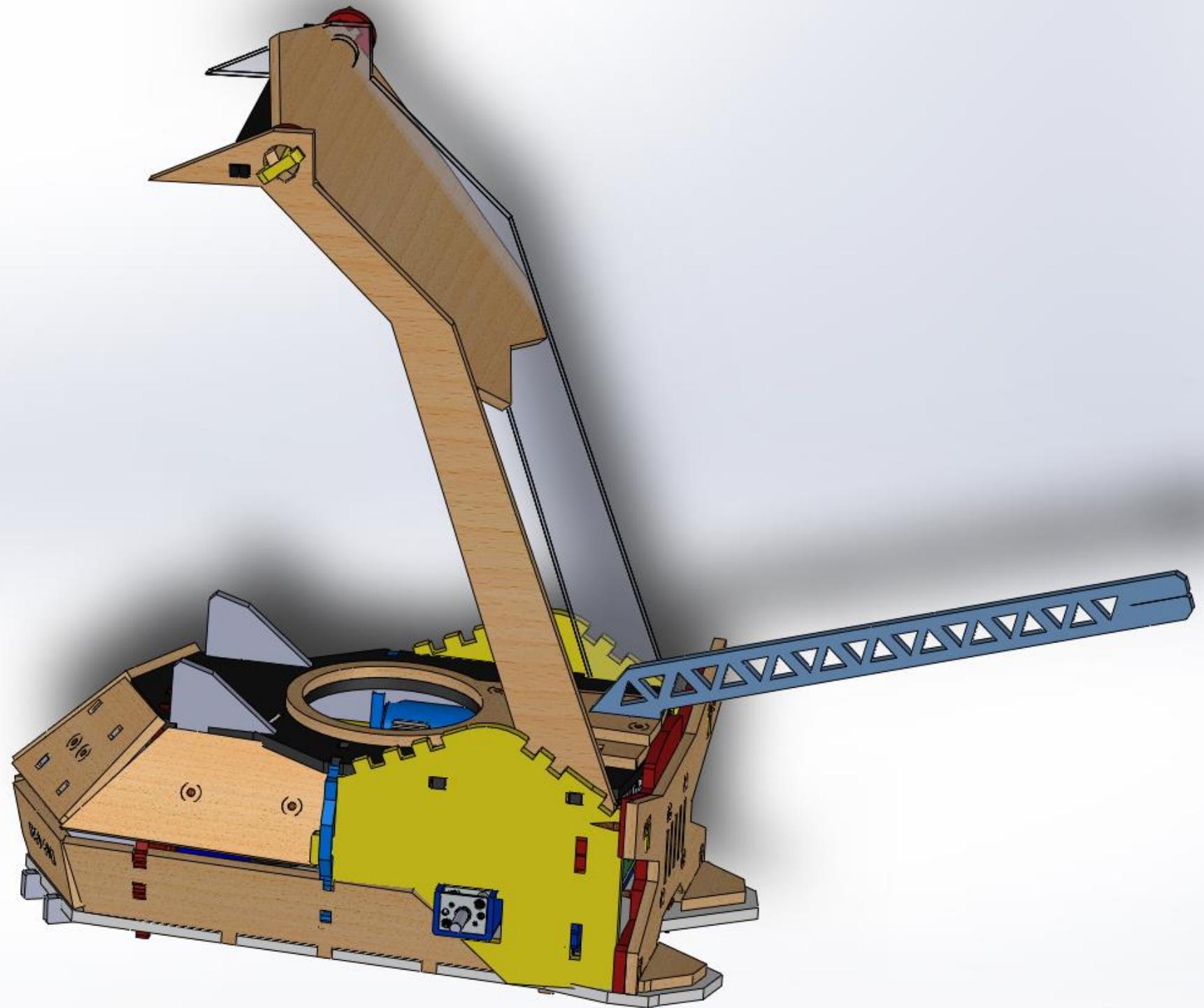
# Exolegend

## HACKTHON

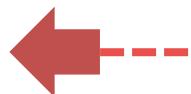
**Hackathon de programmation robotique** organisé  
par EXOTEC  
31/03 – 02/04 2023



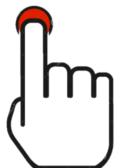
# ASSEMBLAGE DU ROBOT EXOLEGEND



# LEGENDE



Positionner / insérer dans cette direction



Appuyer légèrement



Appuyer fortement



Ne pas appuyer ici : risque de casse.



point de vigilance



Utiliser une pince

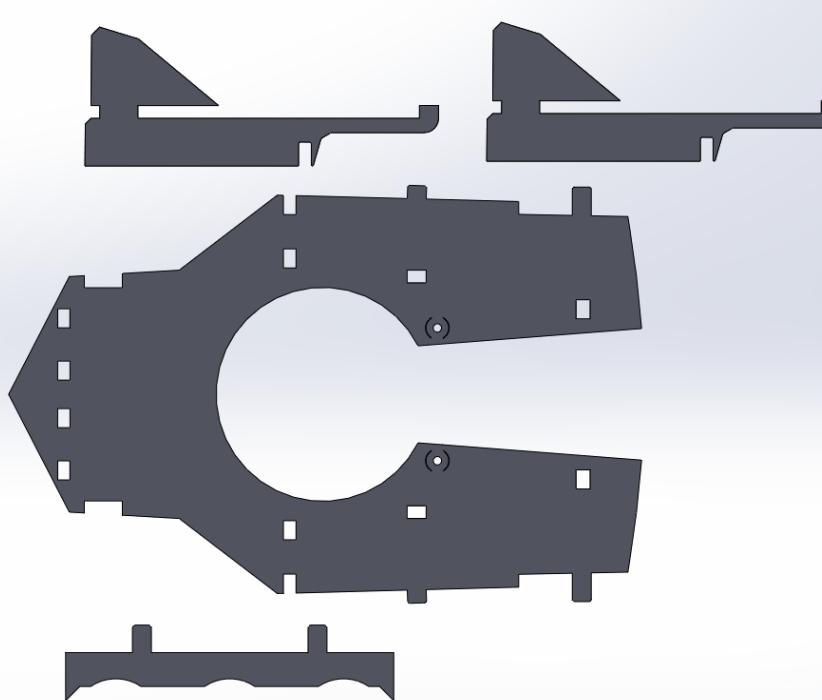


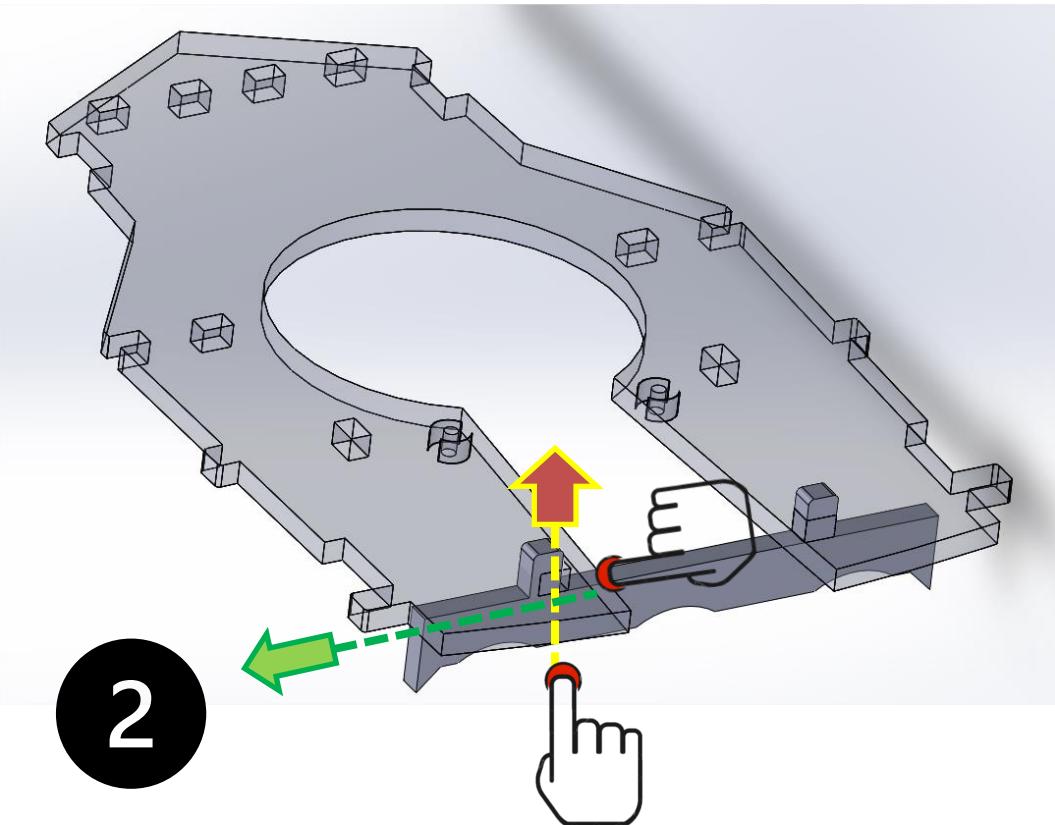
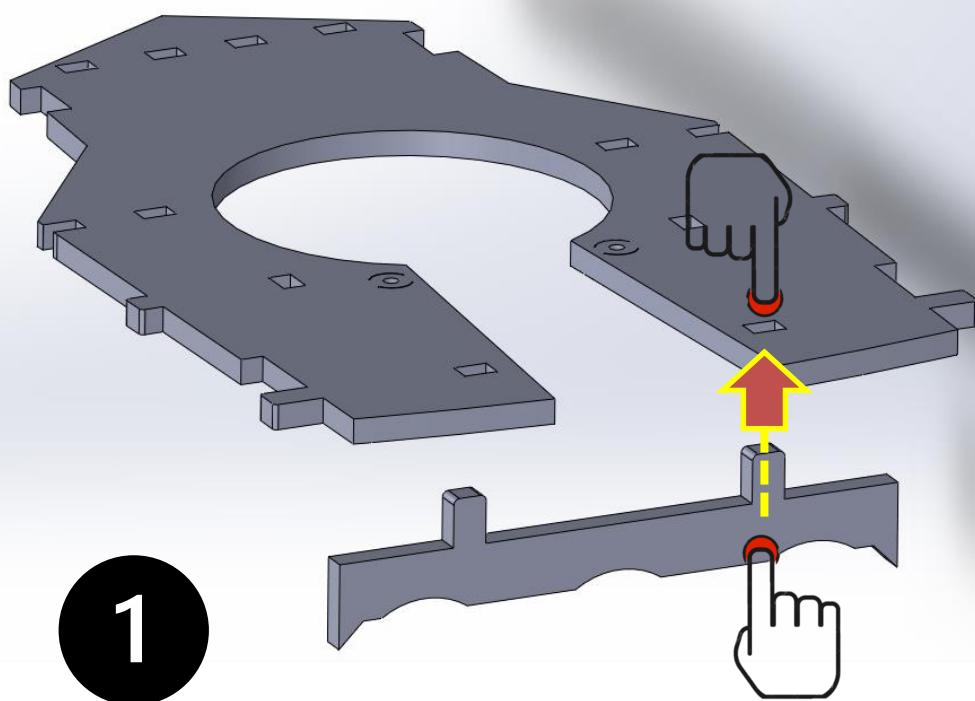
Tips, indication, conseil

ASSEMBLAGE

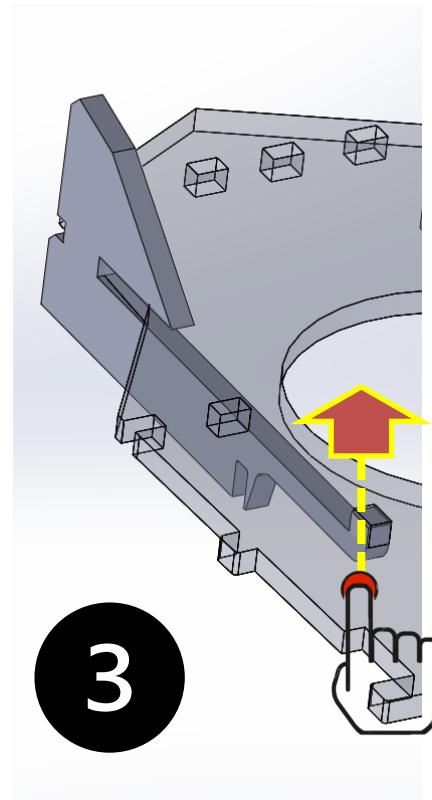
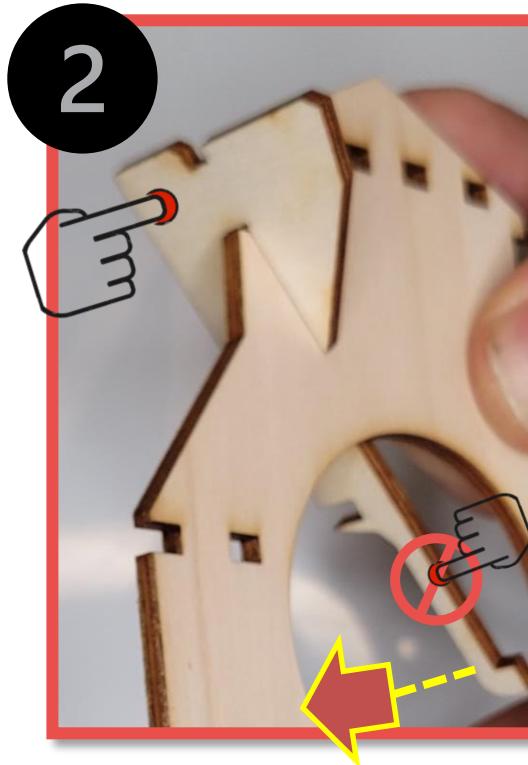
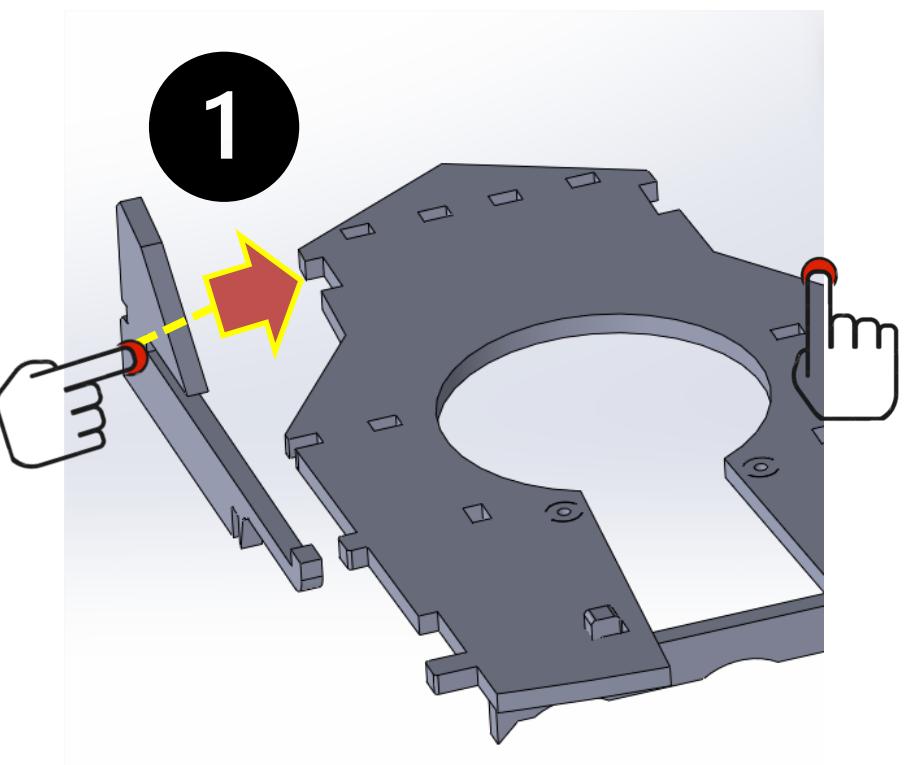
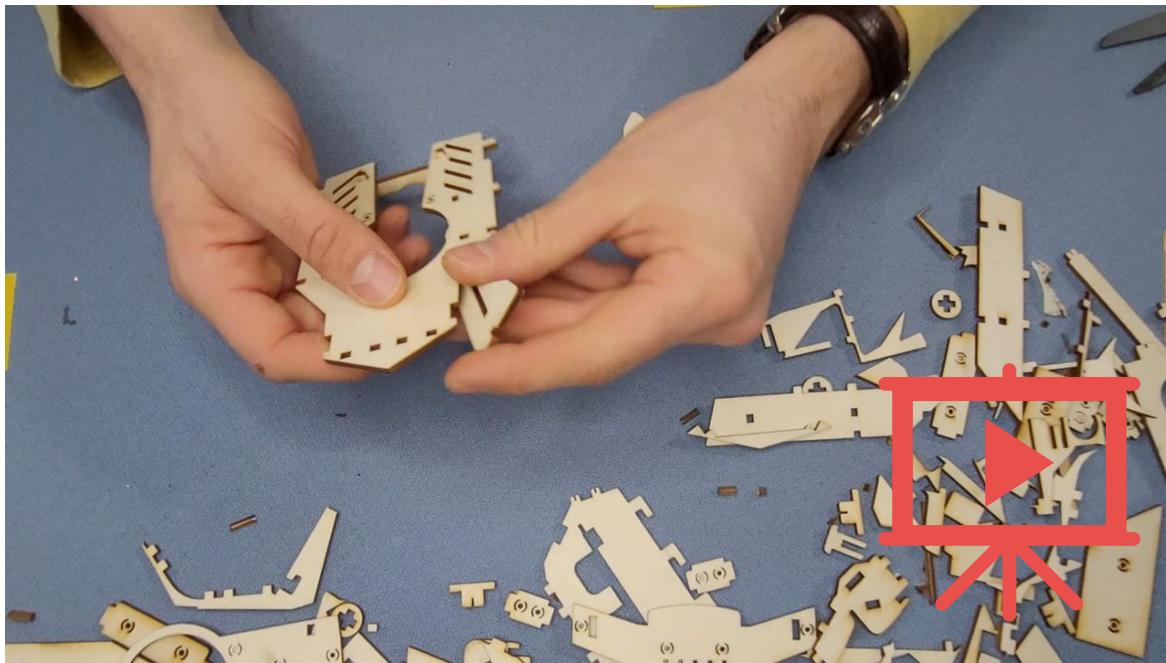
DU

# CAPOT SUPERIEUR



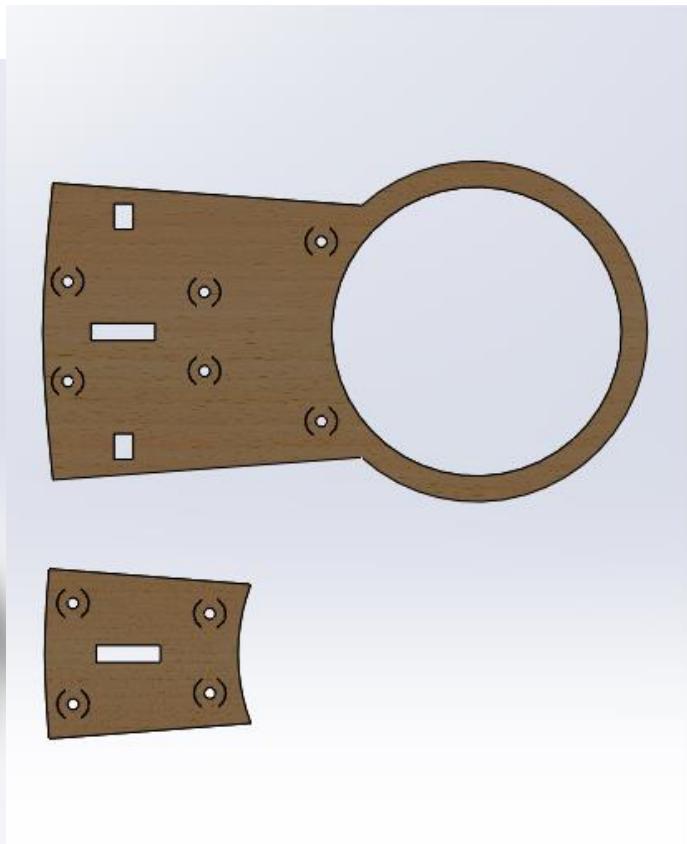
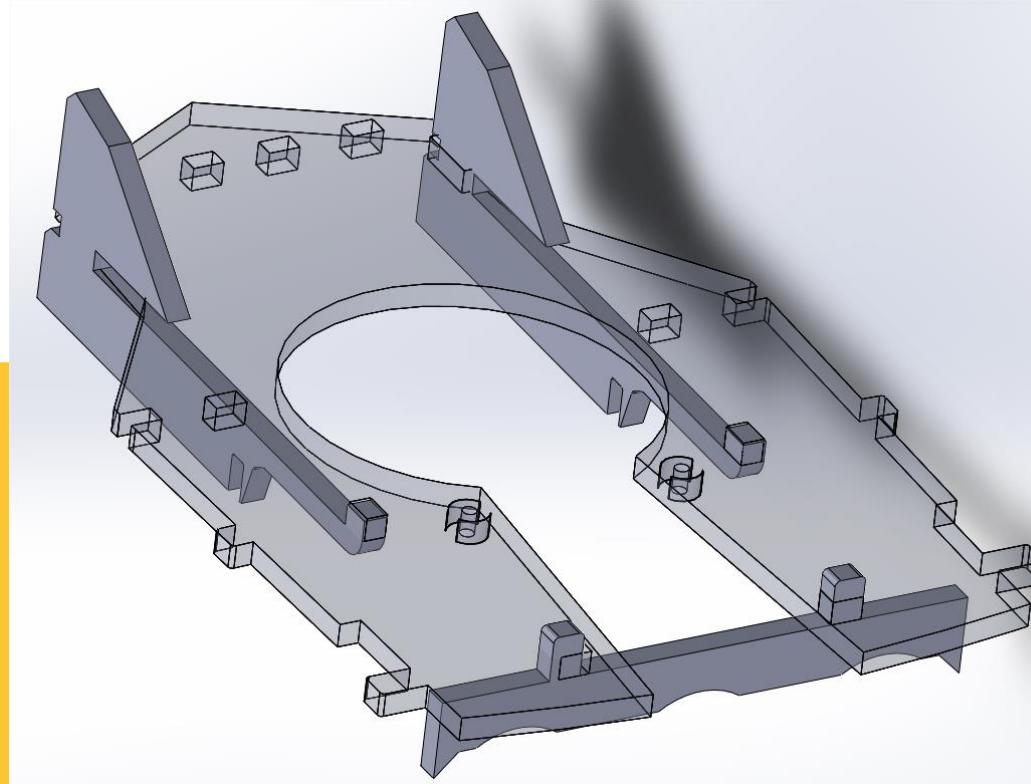


ne pas forcer, juste décaler  
pour que ca rentre (flèche  
verte)



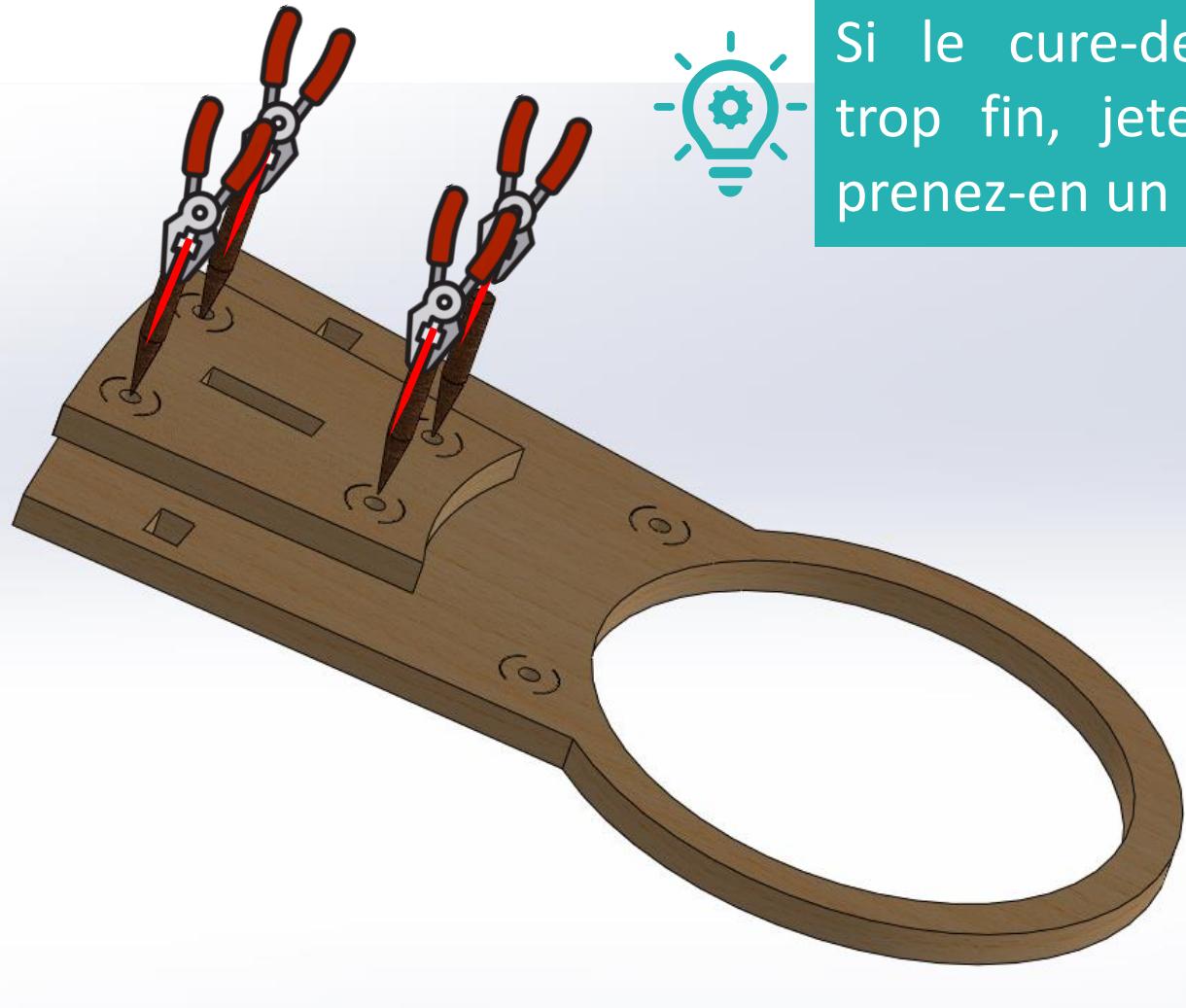
Faire pivoter

# ASSEMBLAGE DU SUPPORT BALLON

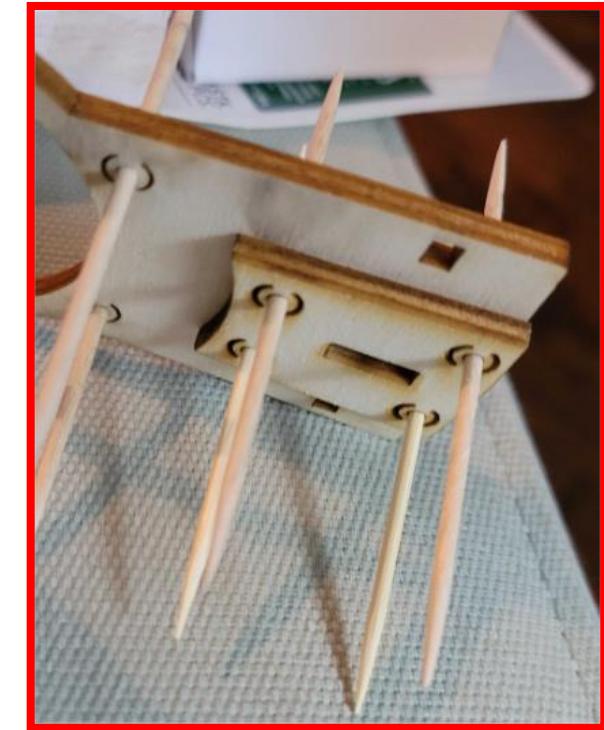


1

Enfoncer les 4 cure-dents à la moitié  
à l'aide de la pince



Si le cure-dent est  
trop fin, jeter-le et  
prenez-en un autre !



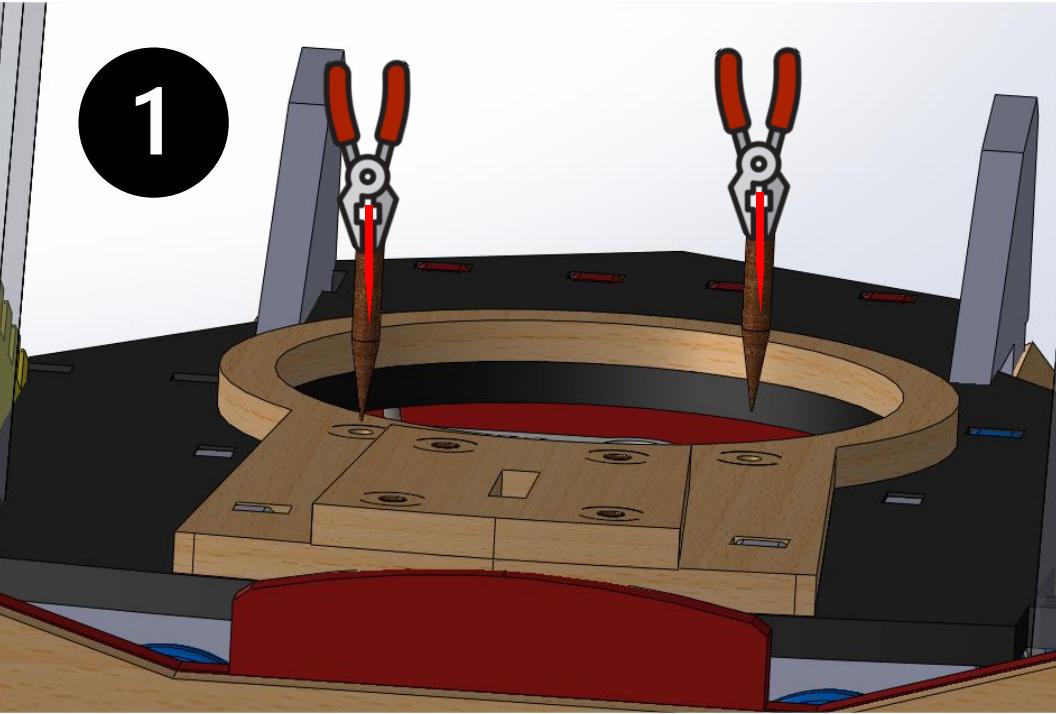
2

Couper les 4 cure dents  
de part et d'autre



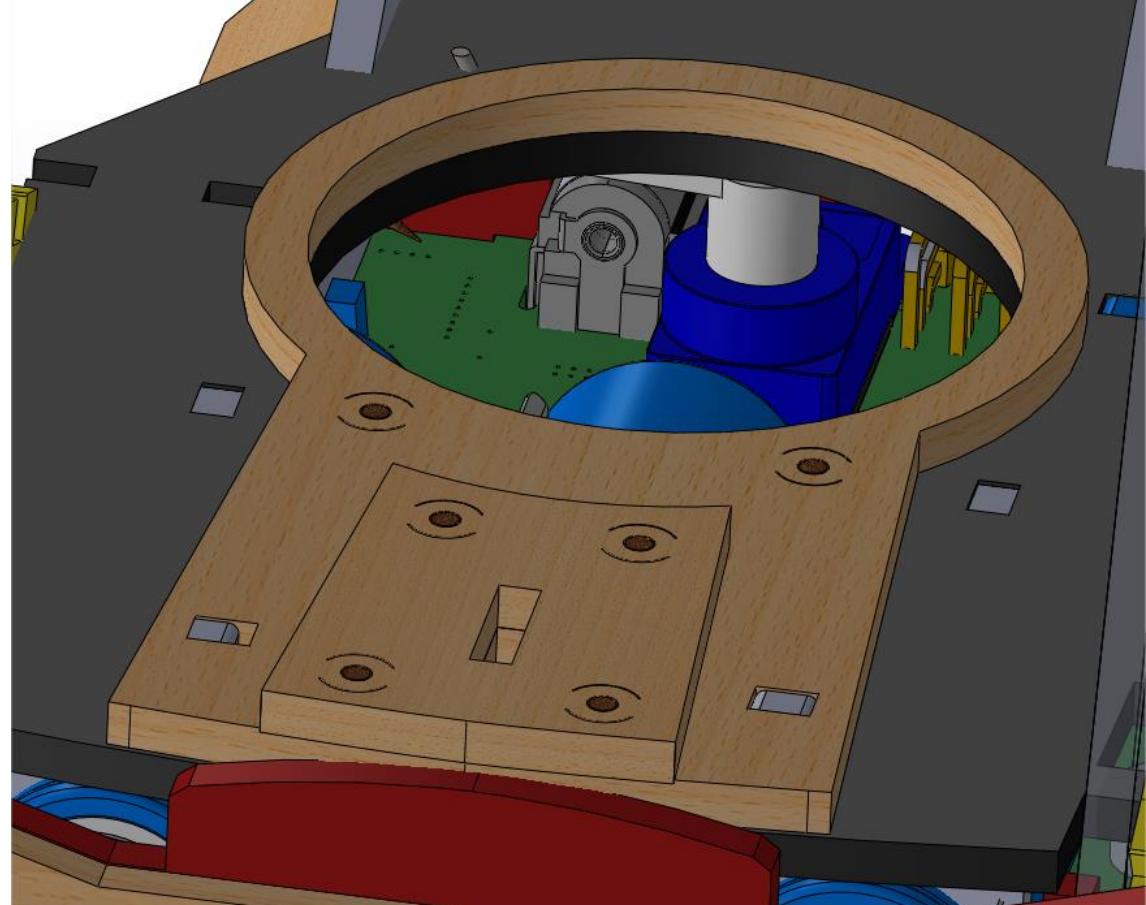
Tenir la  
partie qui  
sera coupée  
pour ne pas  
se blesser.





1

Insérer 2 cure dents



2

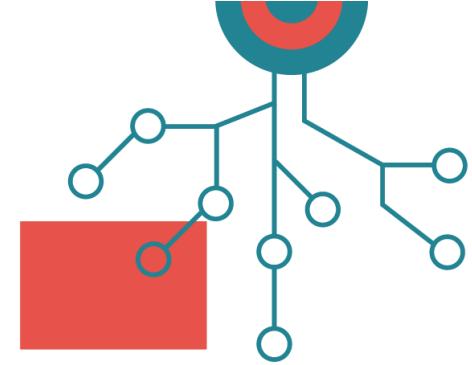
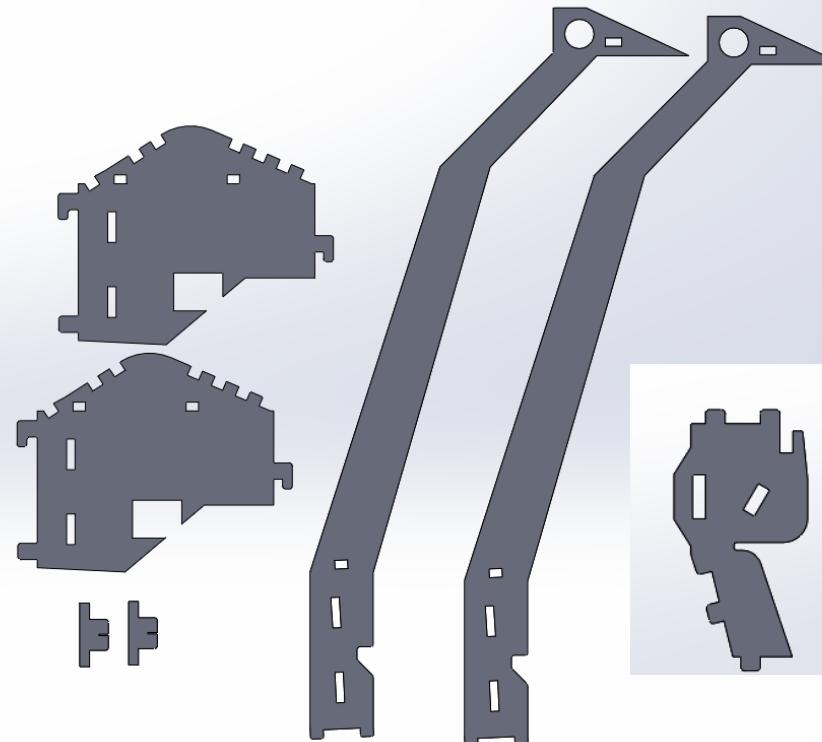
Couper les cure dents à raz pour ne pas faire éclater le ballon lors du contact avec le ballon



# PREPARATION

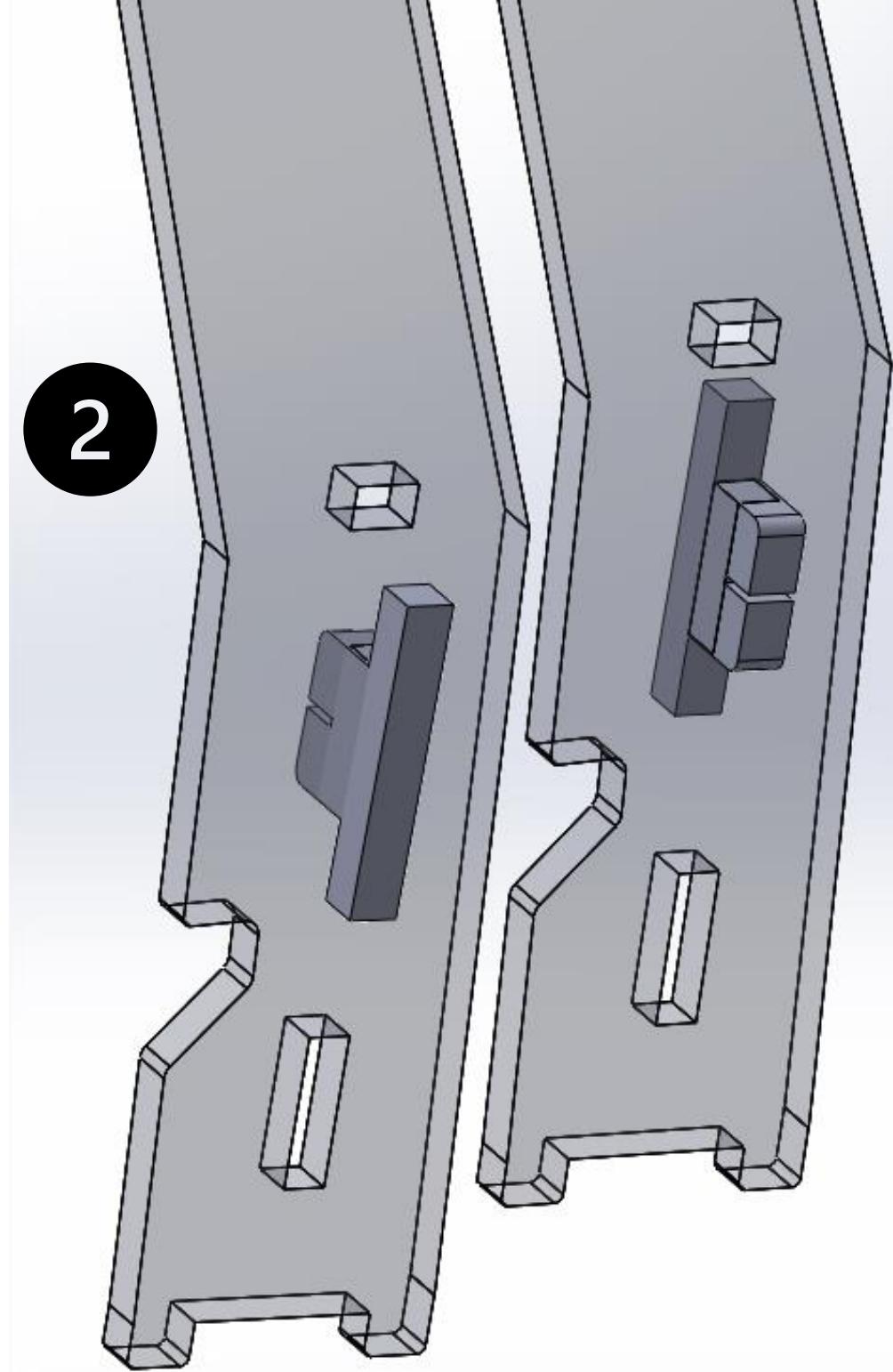
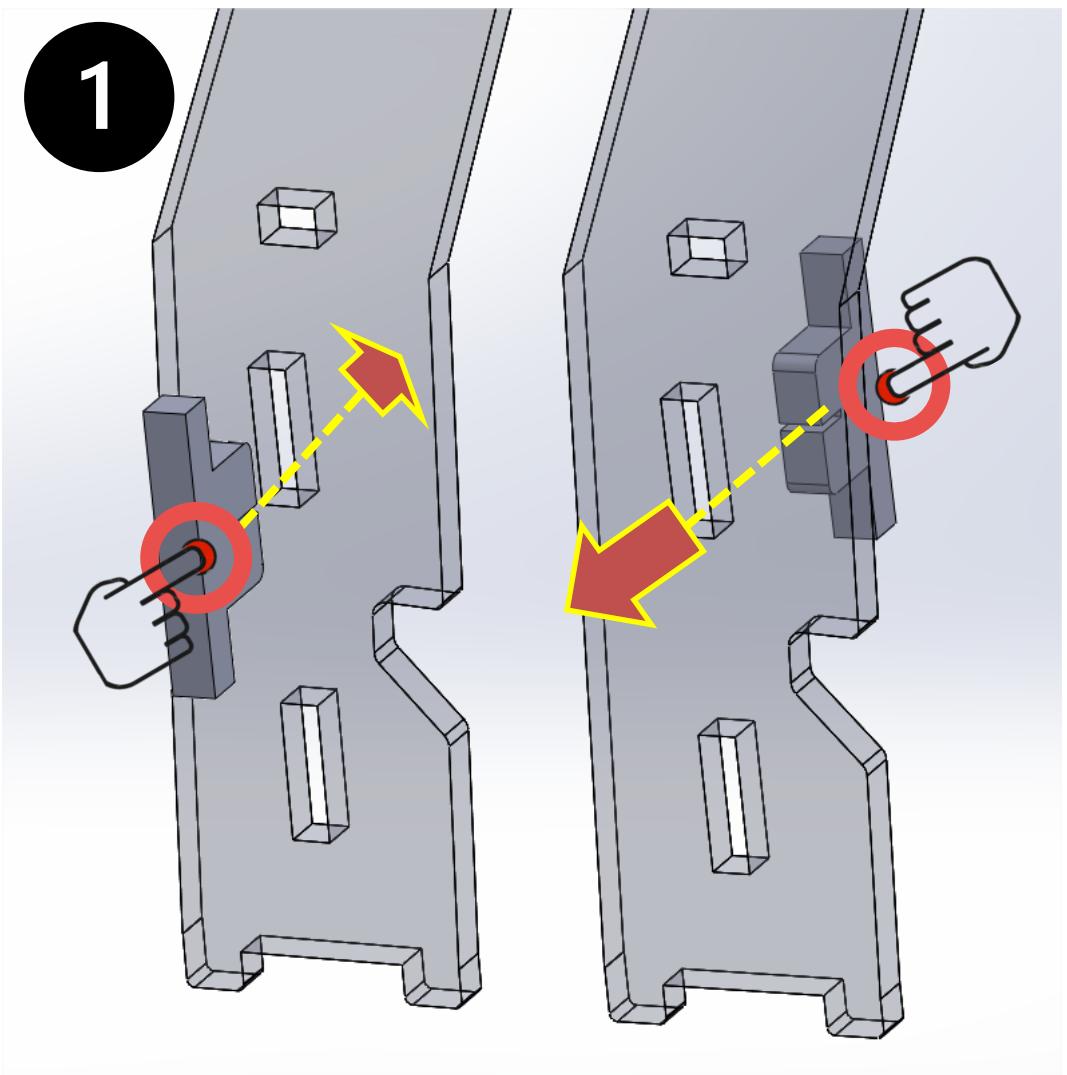
DES

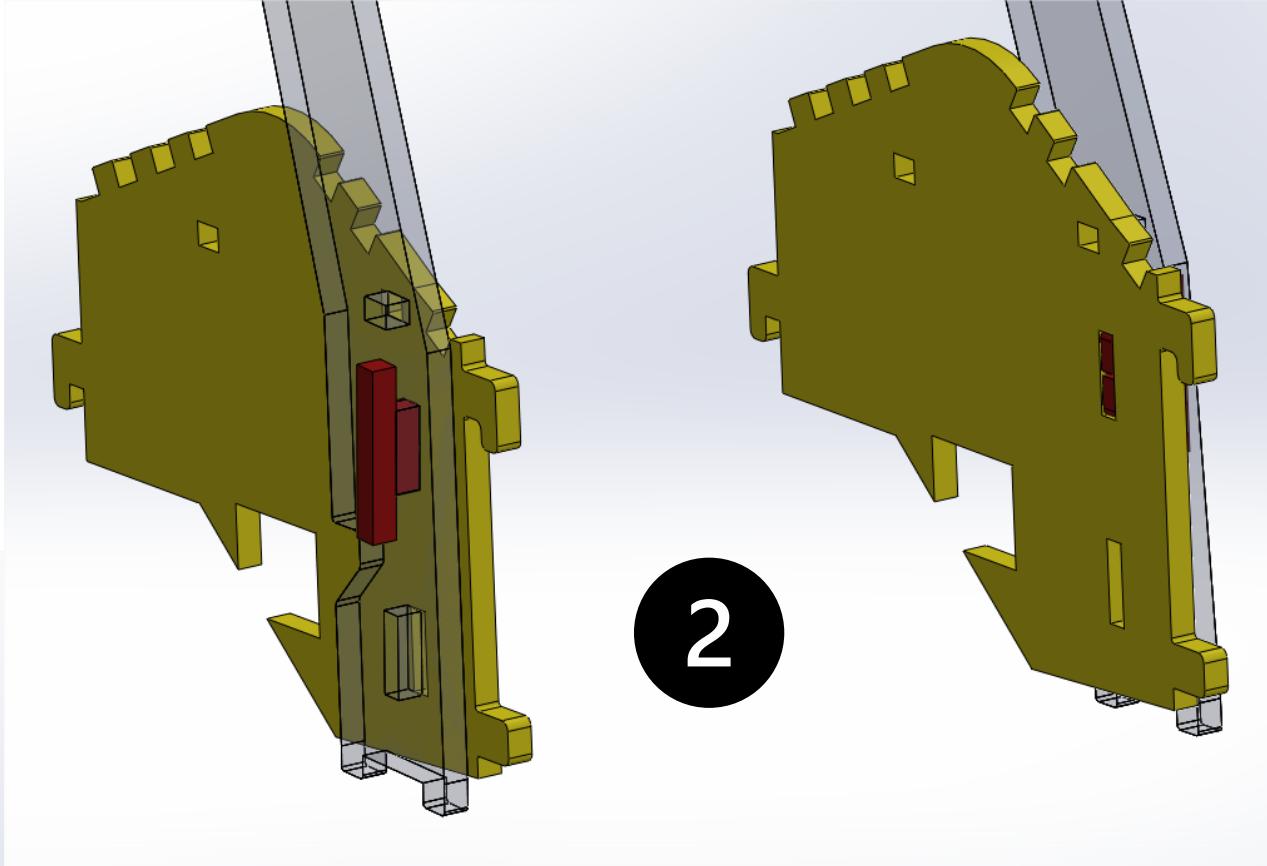
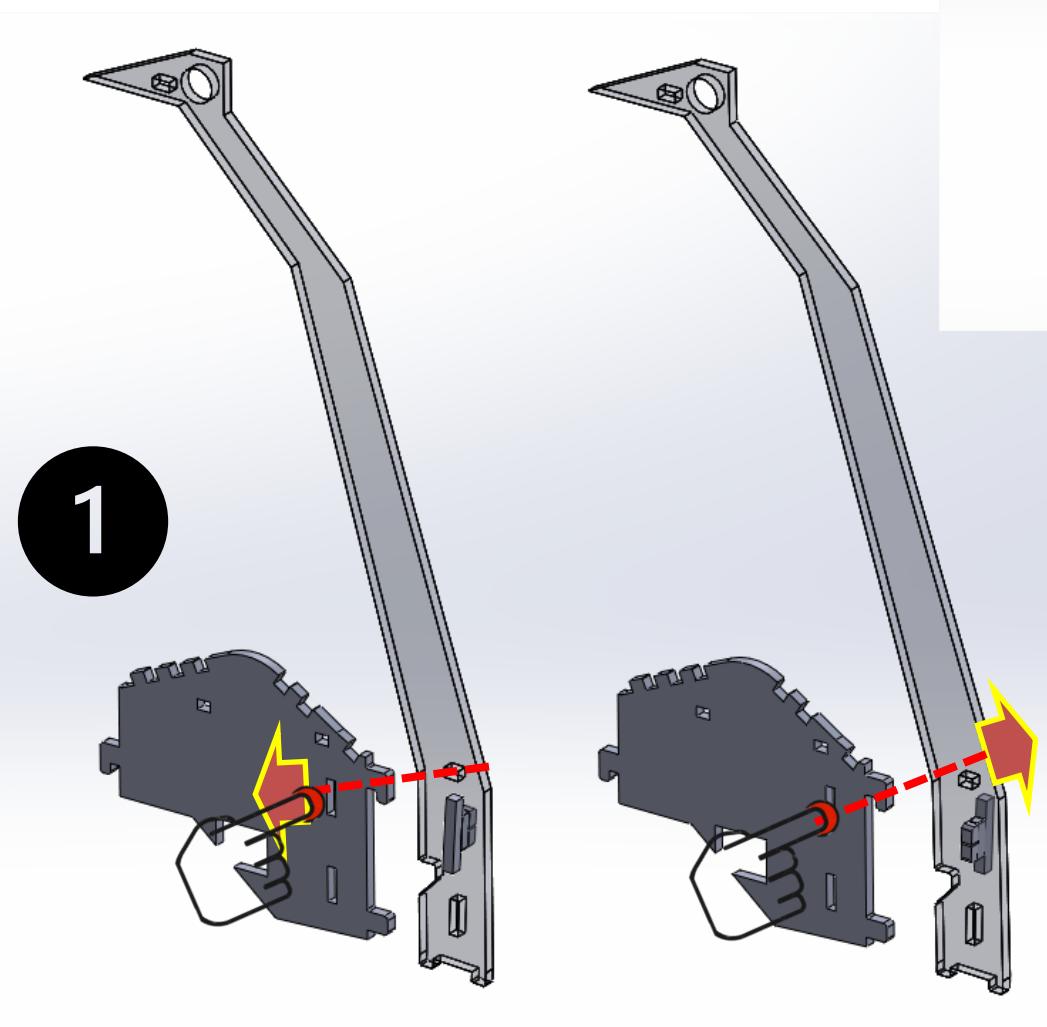
## TAG HOLDER





ATTENTION AU SENS DE MONTAGE :  
les 2 bras se montent en symétrique  
et non à l'identique



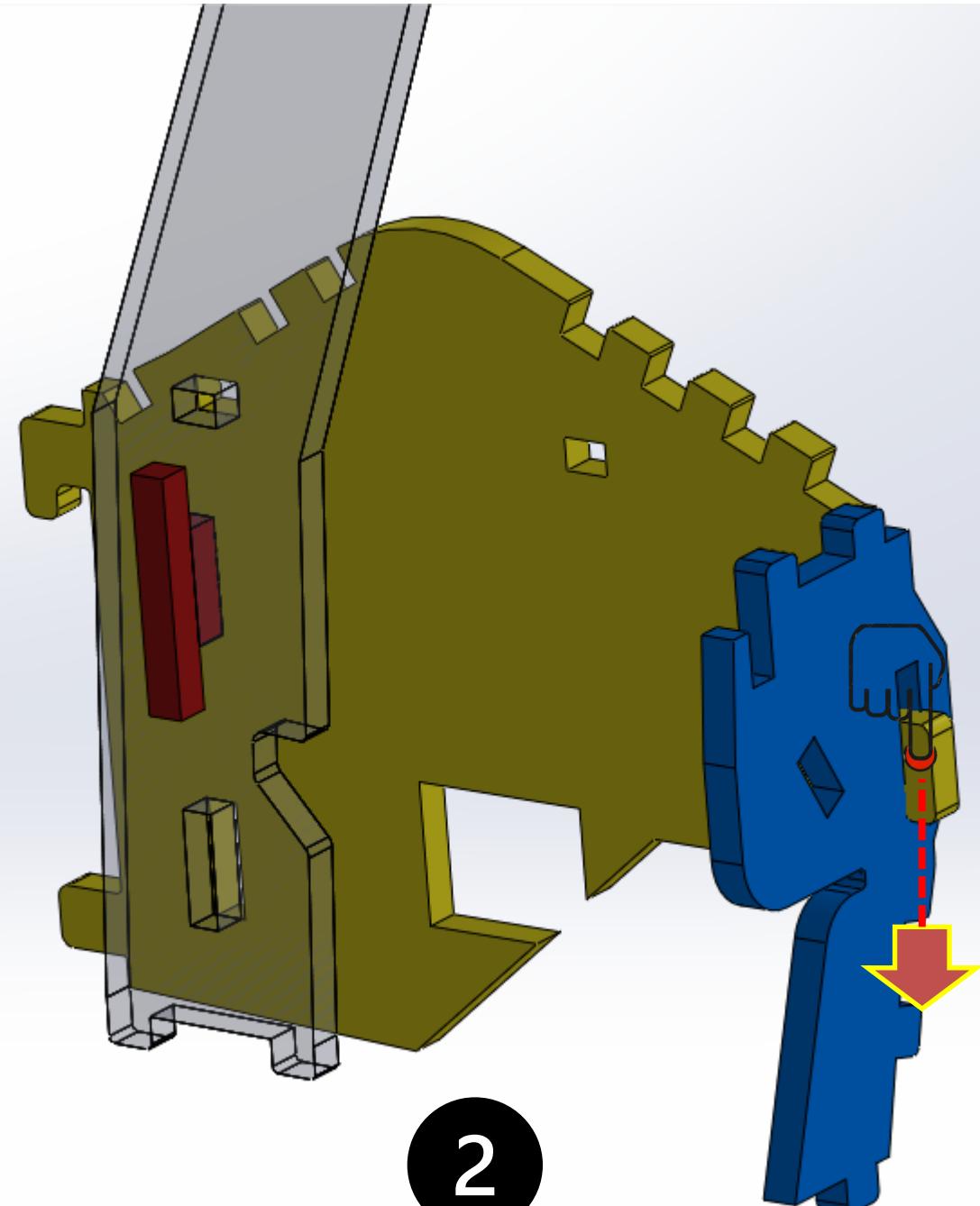


A ne faire qu'avec ce bras :



1

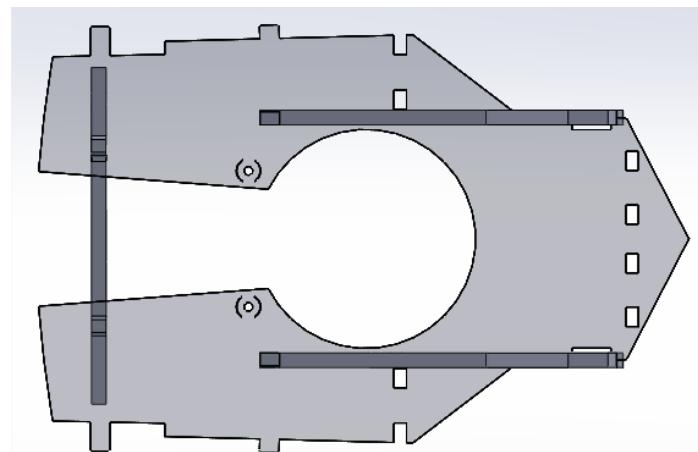
Insérer

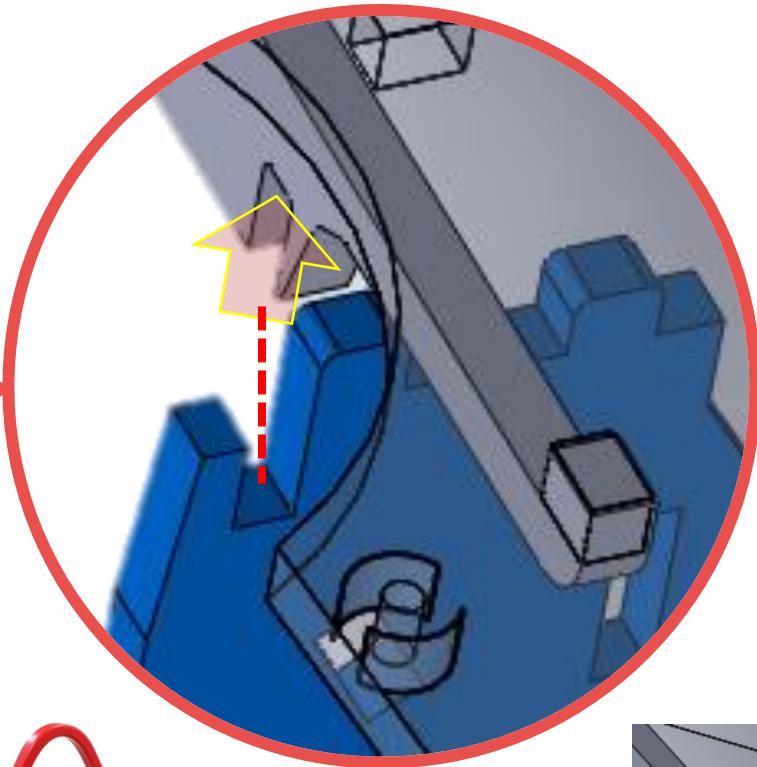
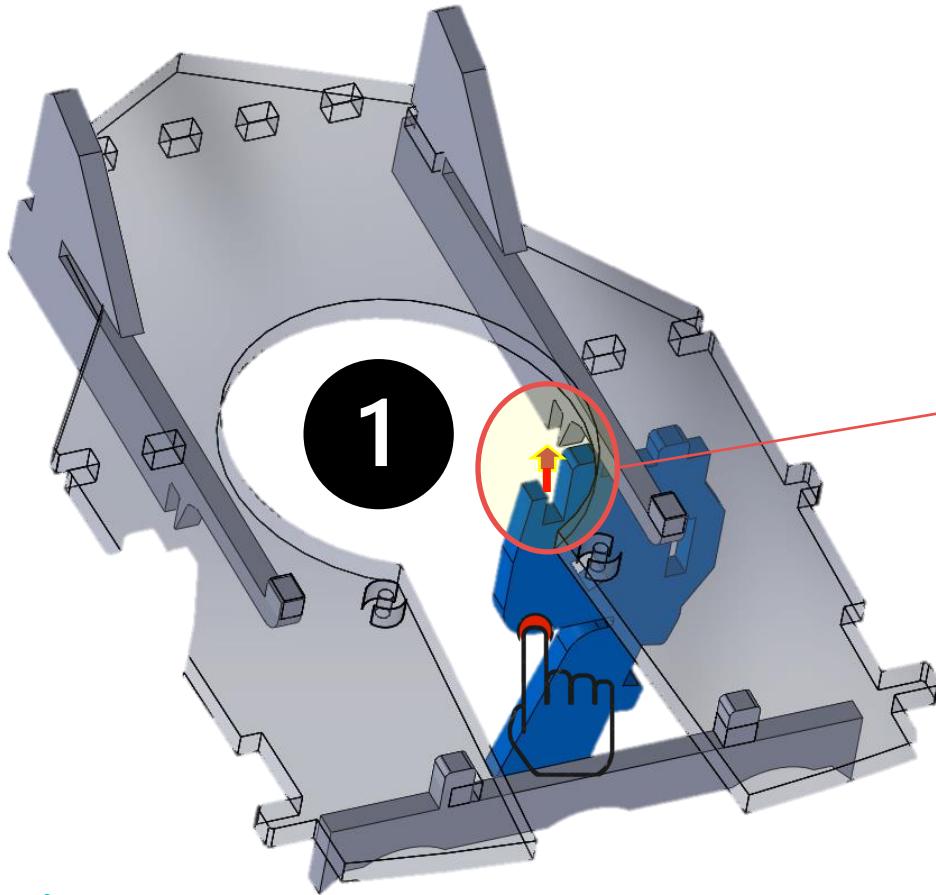


2

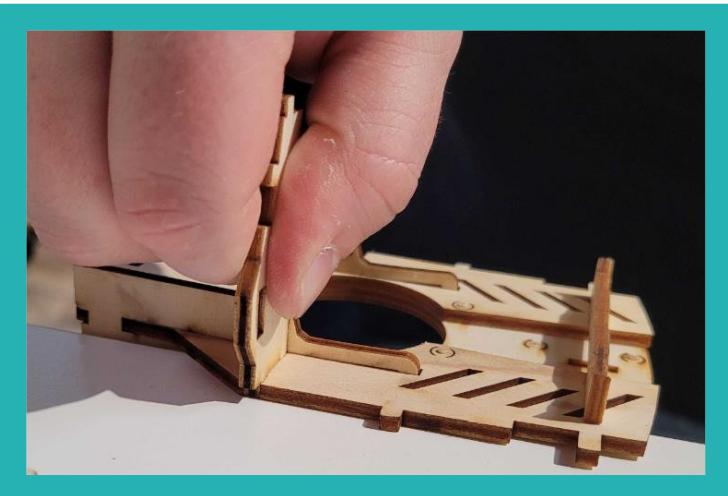
puis glisser vers le bas

# ASSEMBLAGE DU MAIN SQUELETTE

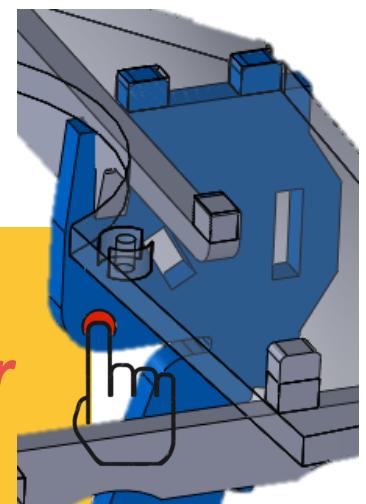




Conseil : presser retourné contre le rebord de la table

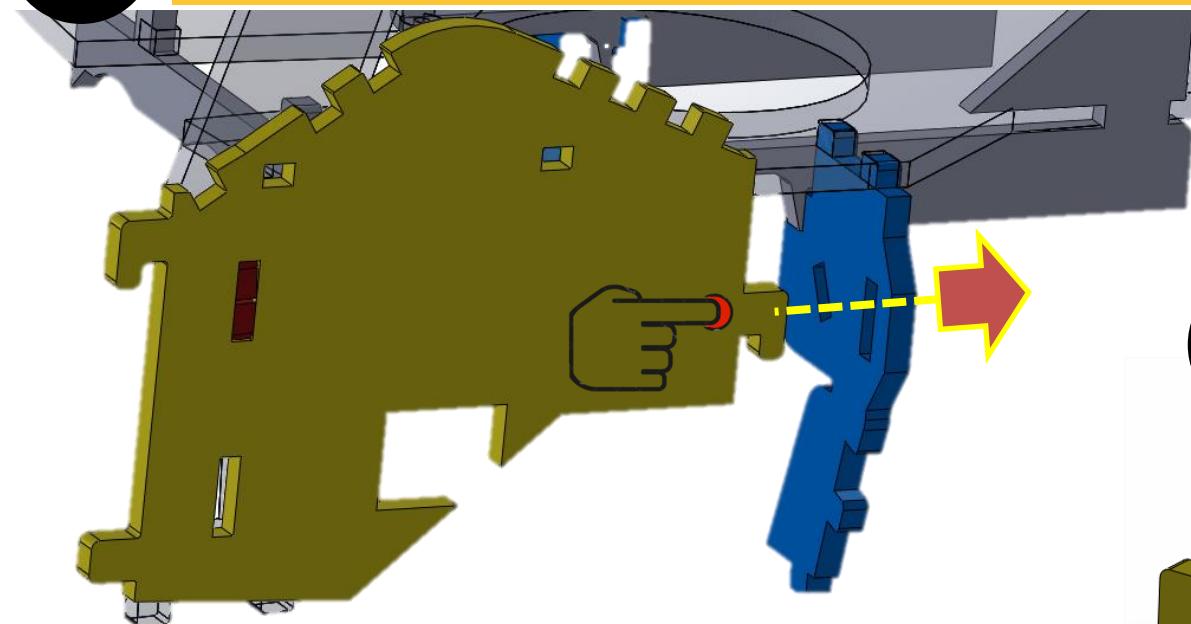


*Monter en force  
SANS appuyer sur  
l'extrémité du  
squelette: risque de  
casse*



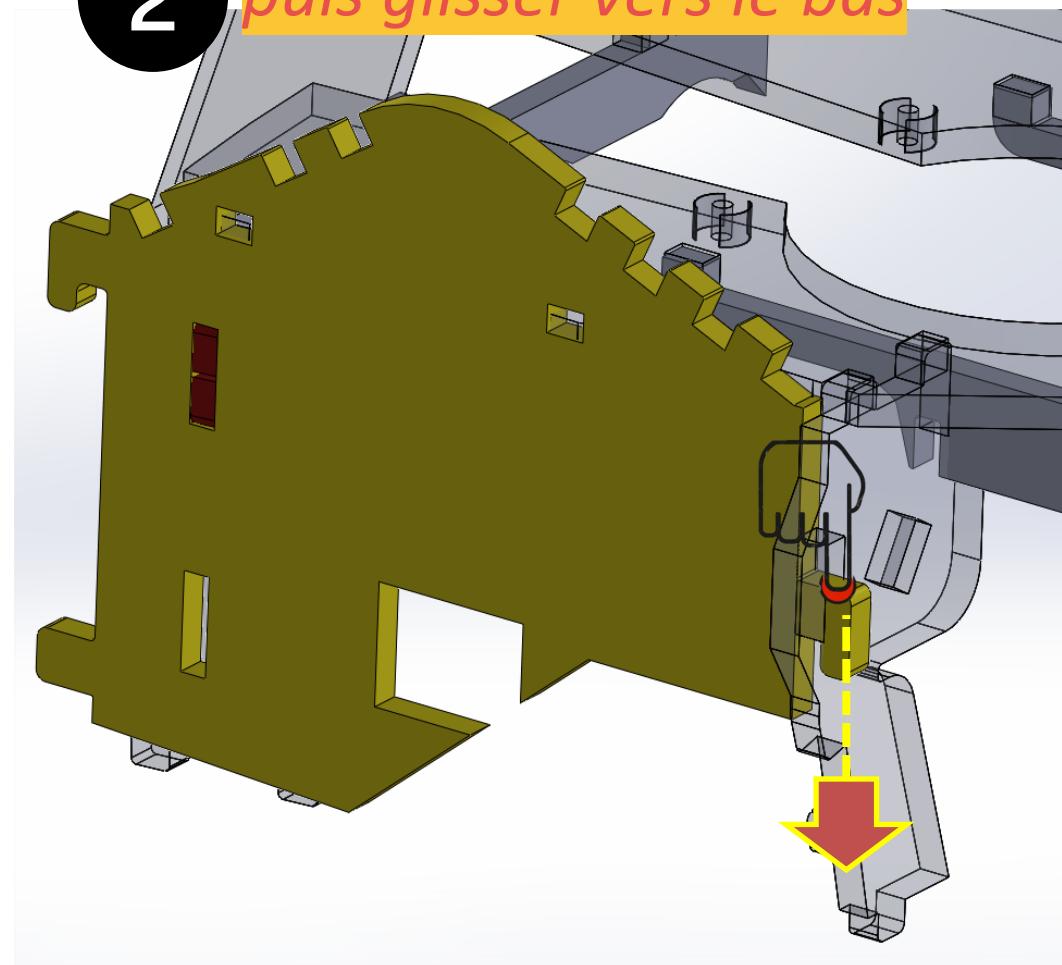
1

*Insérer le bras (jaune)*



2

*puis glisser vers le bas*

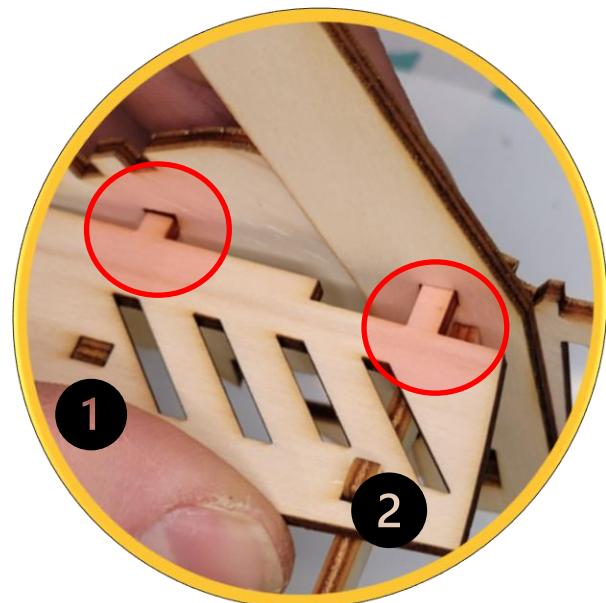
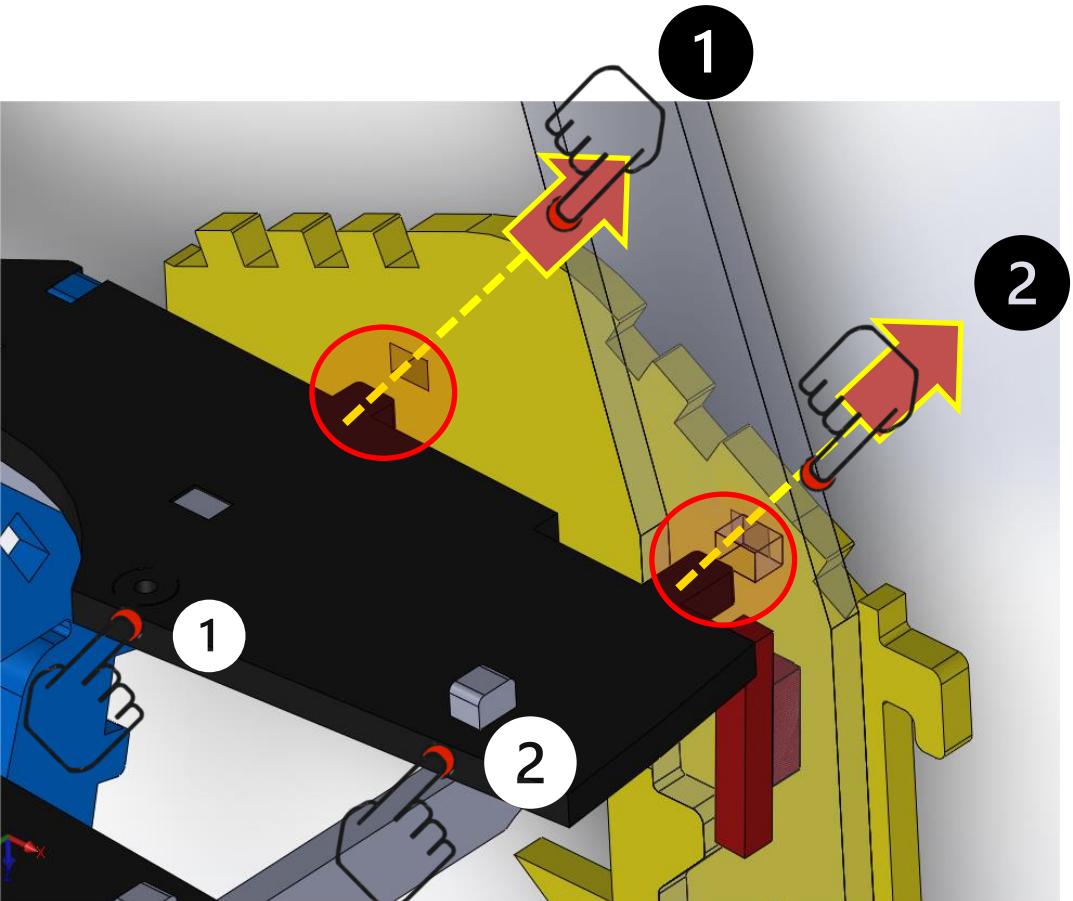
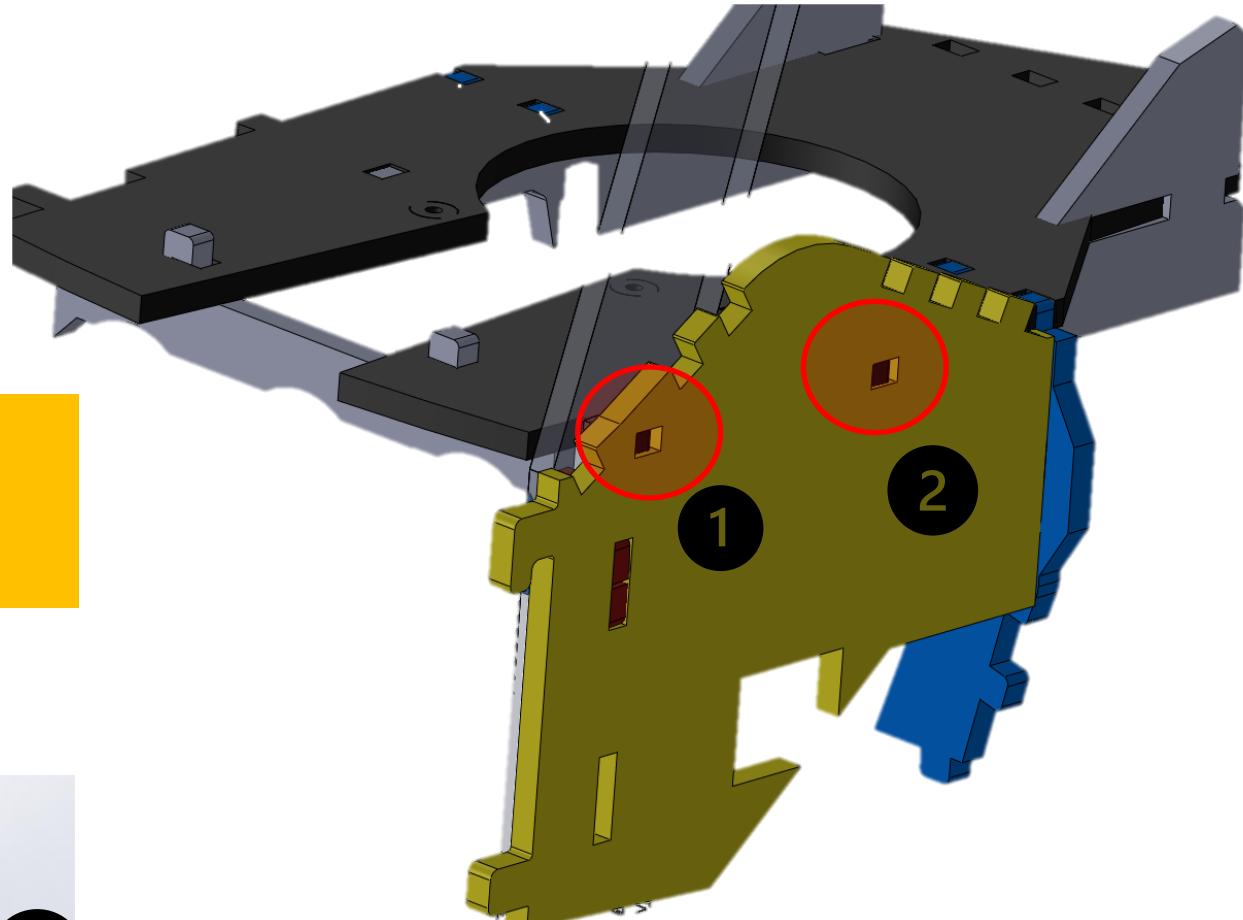




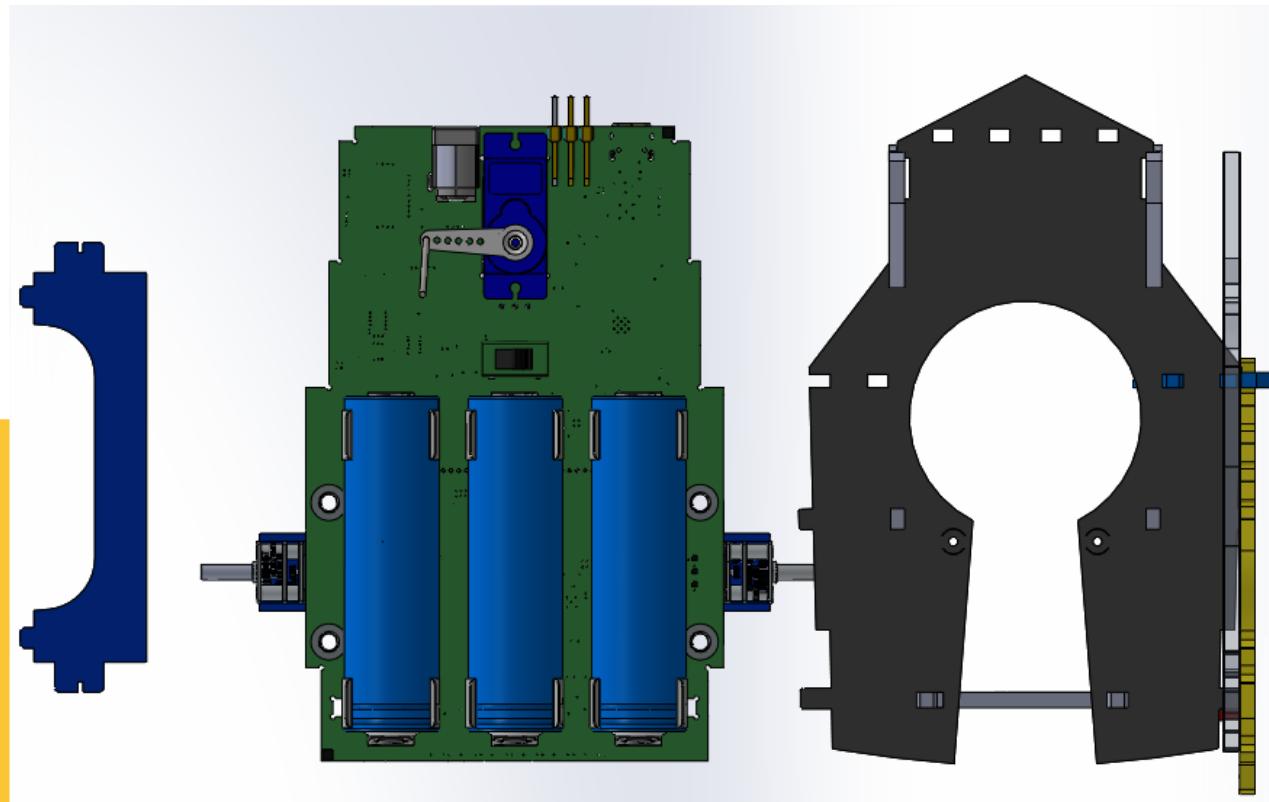
Ne faire qu'un bras :  
Le 2<sup>ième</sup> bras sera à mettre  
après l'insertion de la carte  
électronique

Pincer ensuite le capot avec :

- une 1<sup>er</sup> main entre \*1 et \*1
- une 2<sup>ème</sup> main entre \*2 et \*2



# AJOUT DE LA CHICKBOARD





# Attention

*Manipuler la carte électronique avec  
grand soin et ne pas la déposer sur des  
objets métalliques etc.*

*Il y a de la graisse sur les moteurs.*

*Ne pas enlever le scotch des batteries .*



# Attention

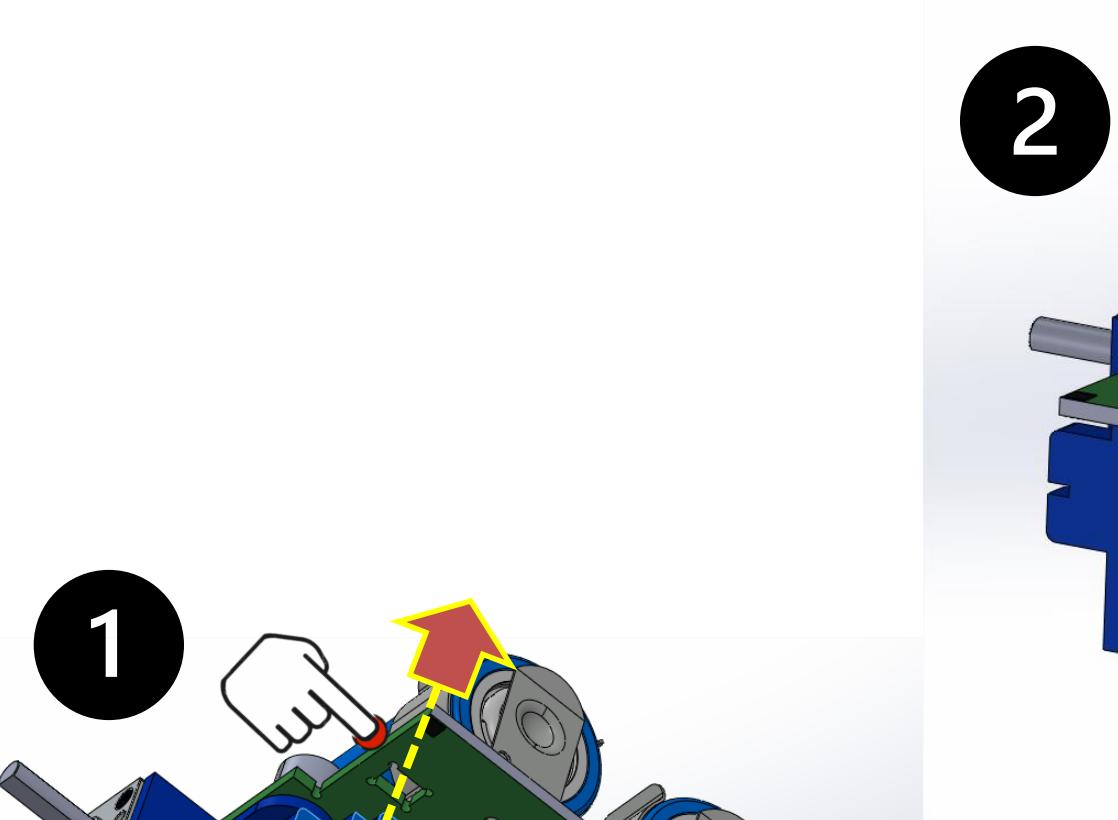
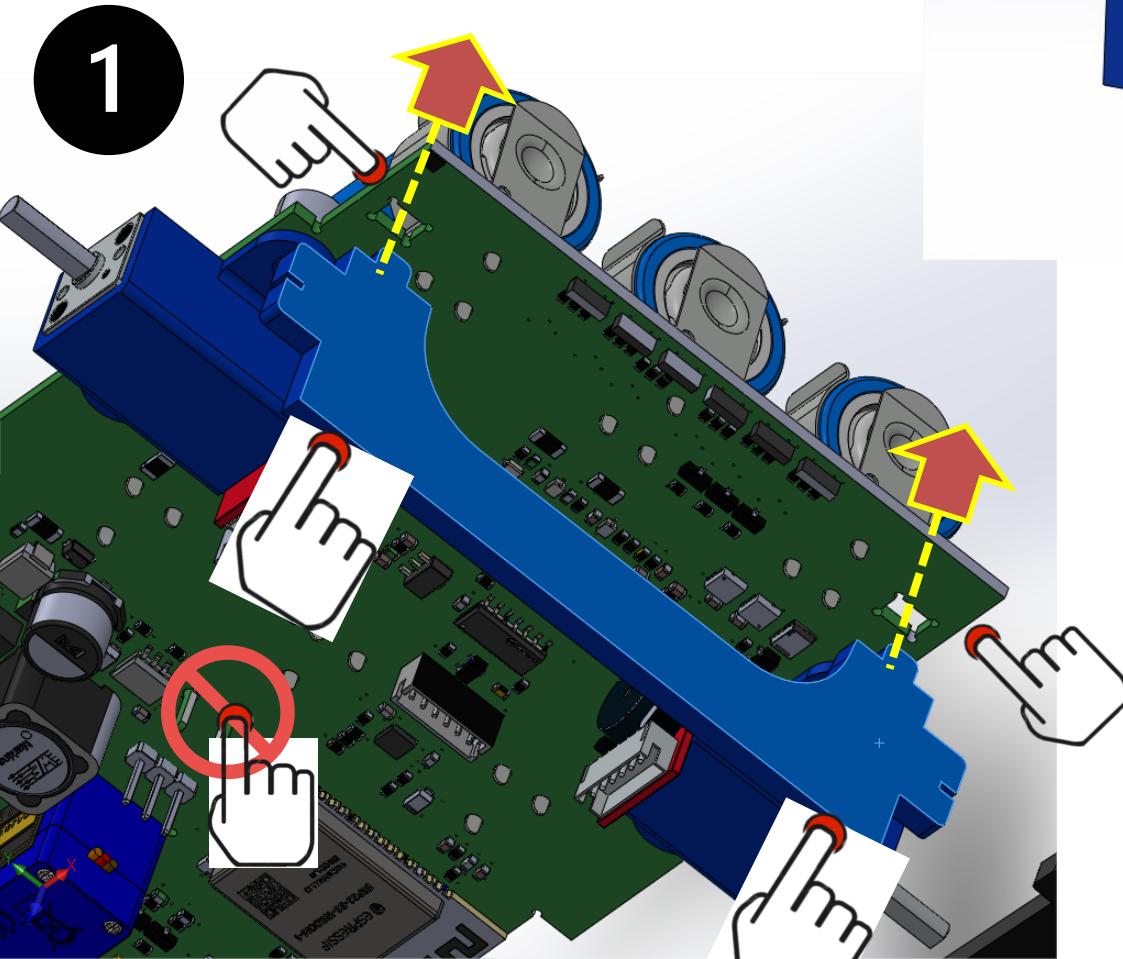
*Ne pas jeter la boite en carton de la carte électronique ni la mélanger aux autres :*

*il y a un numéro unitaire associé à chaque carte et elle vous servira de poubelle à la fin.*

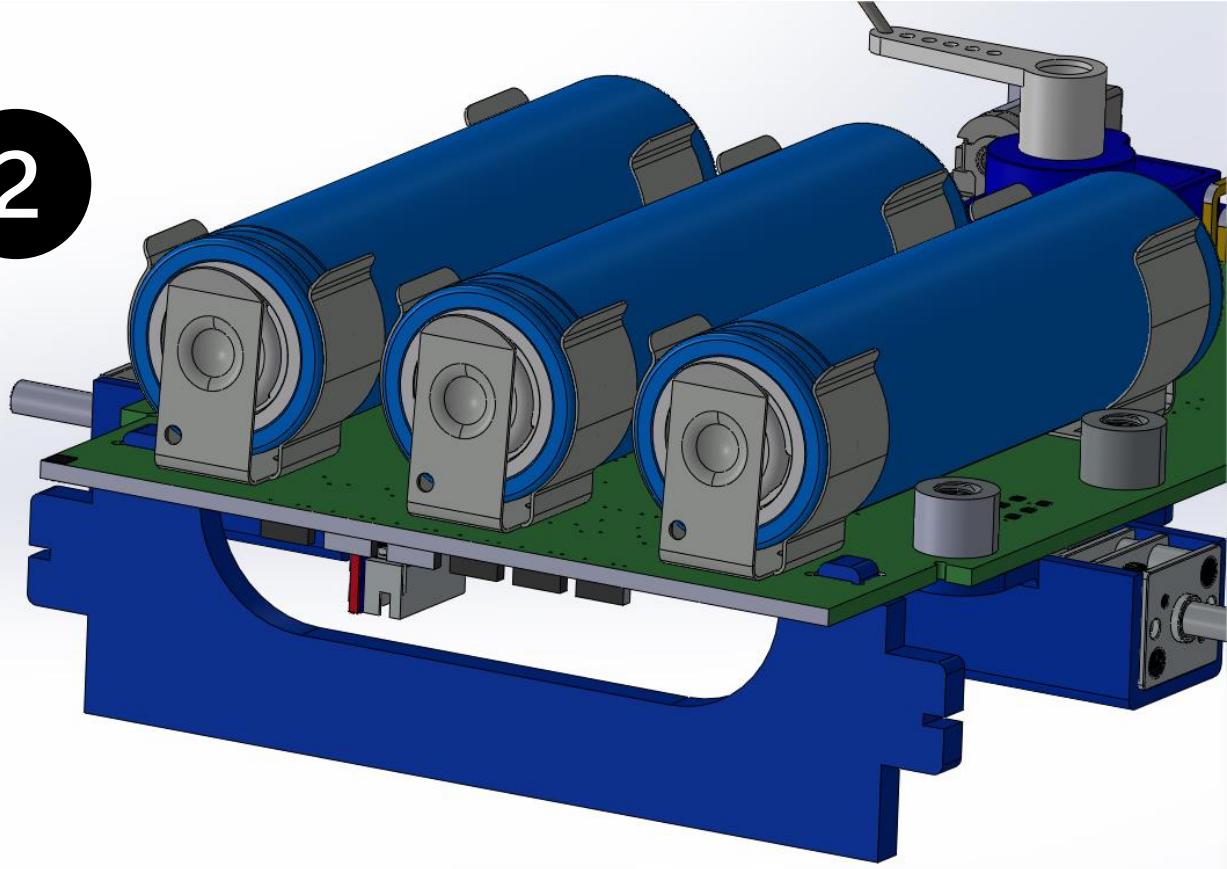


# Attention

*Ne jamais exercer de  
pression contre les axes  
des moteurs.*



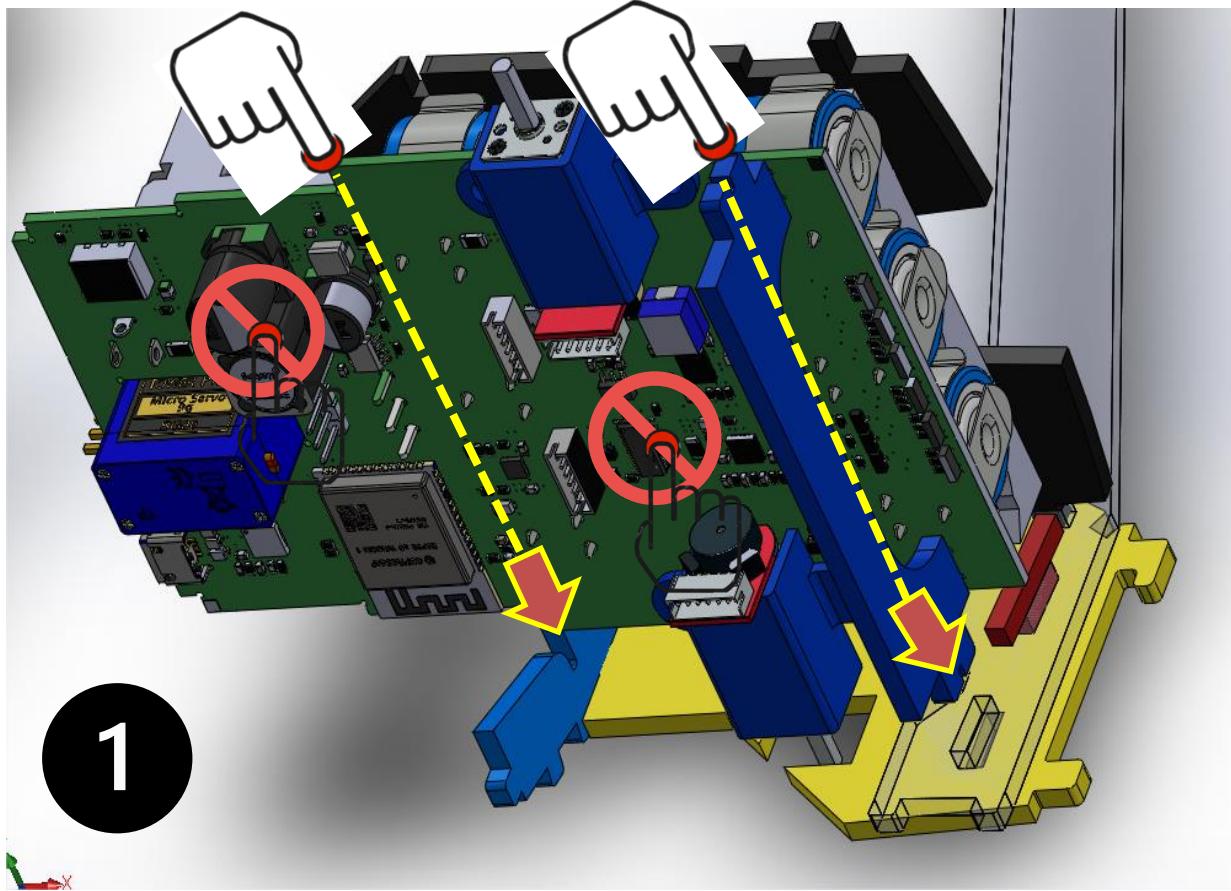
2



Bien tenir la pièce en bois :  
cela tombe sinon



*Ne pas mettre ces doigts  
sur la carte, bien la tenir  
sur les cotés*

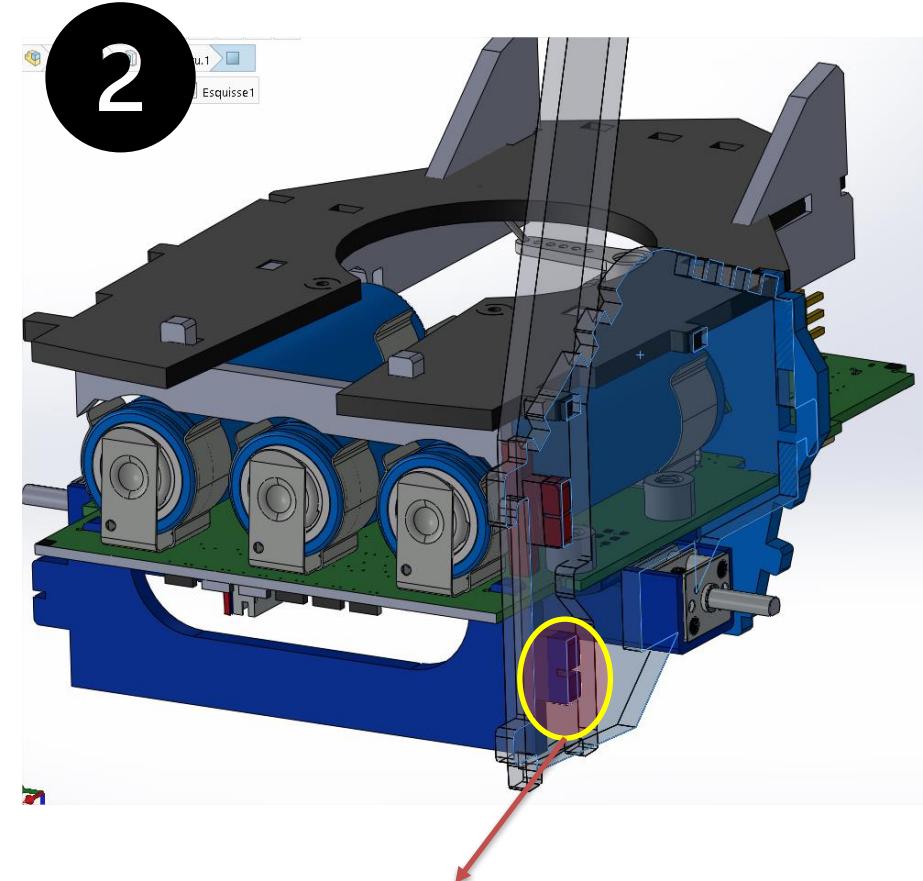


1

***Ne pas mettre ces doigts  
sur la carte, bien la tenir  
sur les cotés***



Pencher l'ensemble de coté  
comme sur la 3D

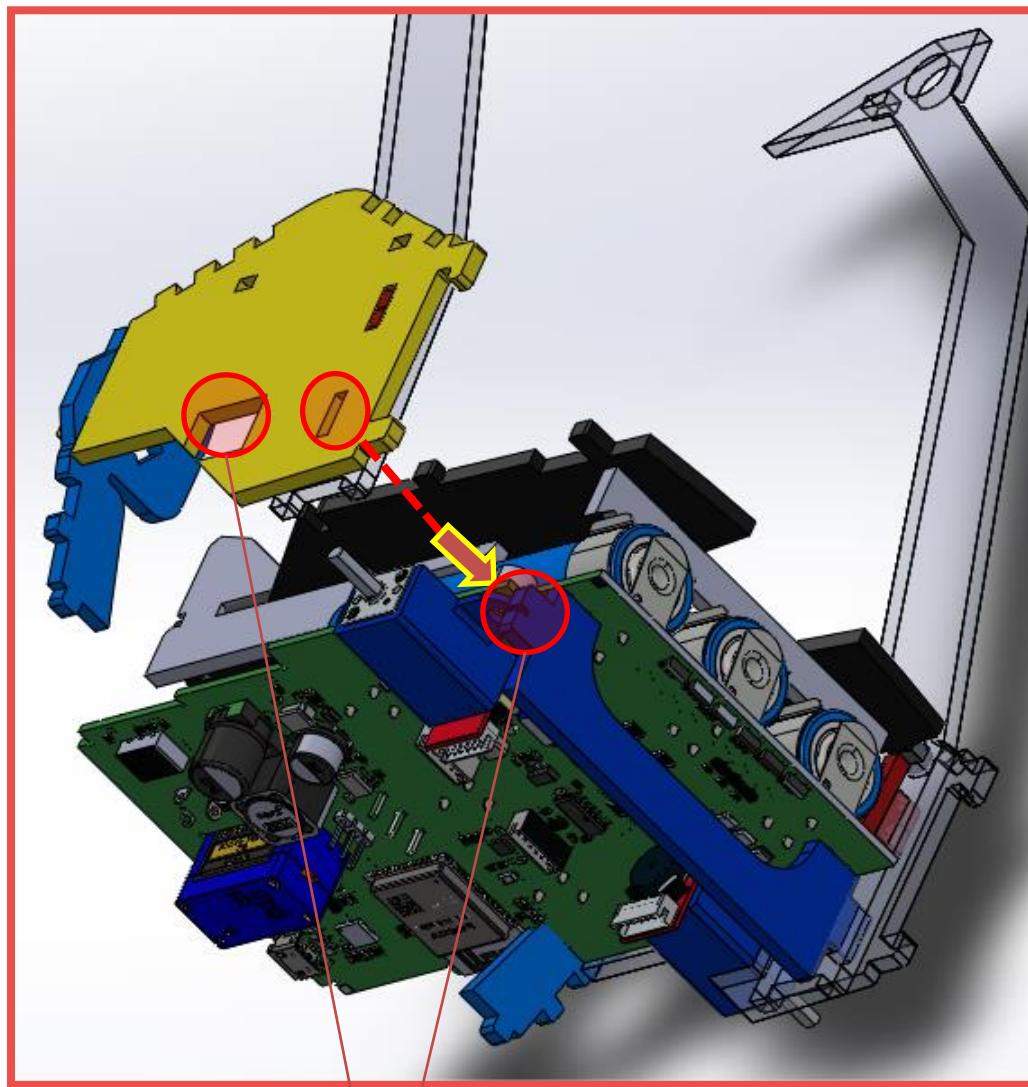


2

***Insérer jusqu'au bout la  
pièce bleue***

1

Insérer ici en 1<sup>er</sup>



Passer le moteur  
Puis insérer la barre bleue

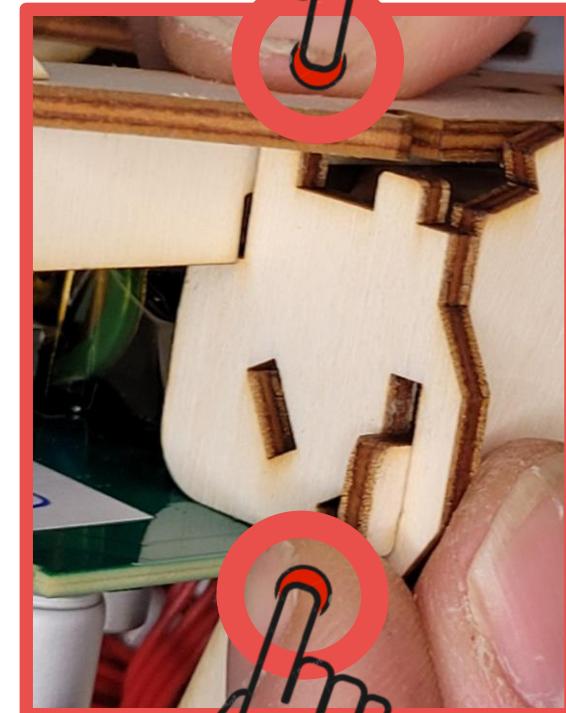
2



Soulever légèrement  
le capot  
(flèche verte)

pour pouvoir  
commencer à serrer

3

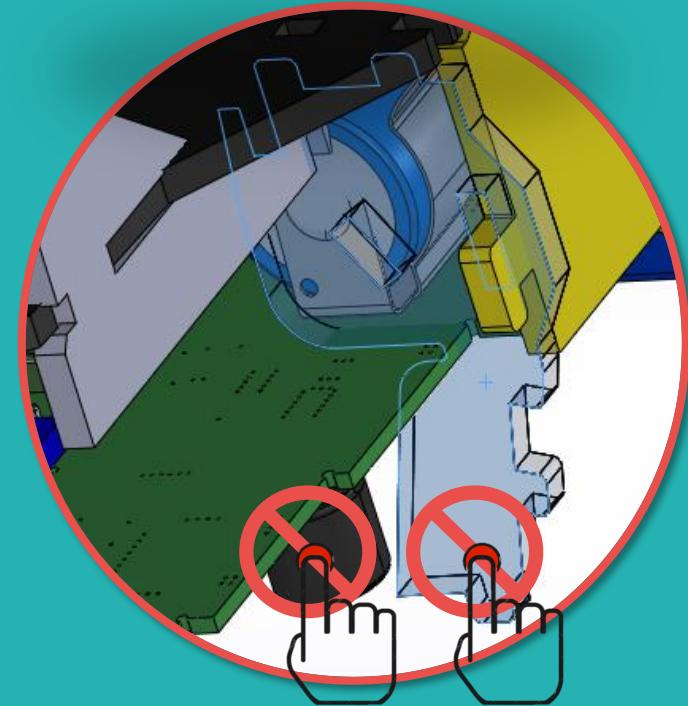
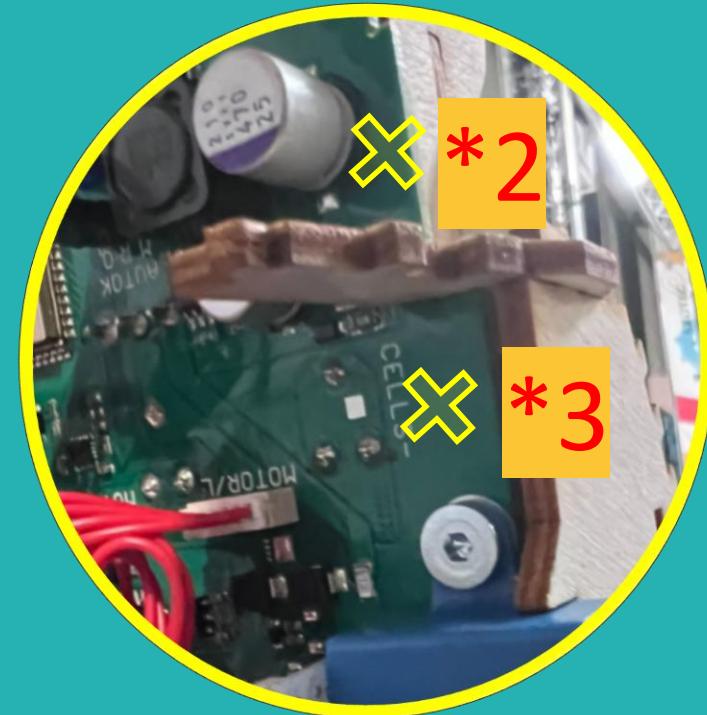
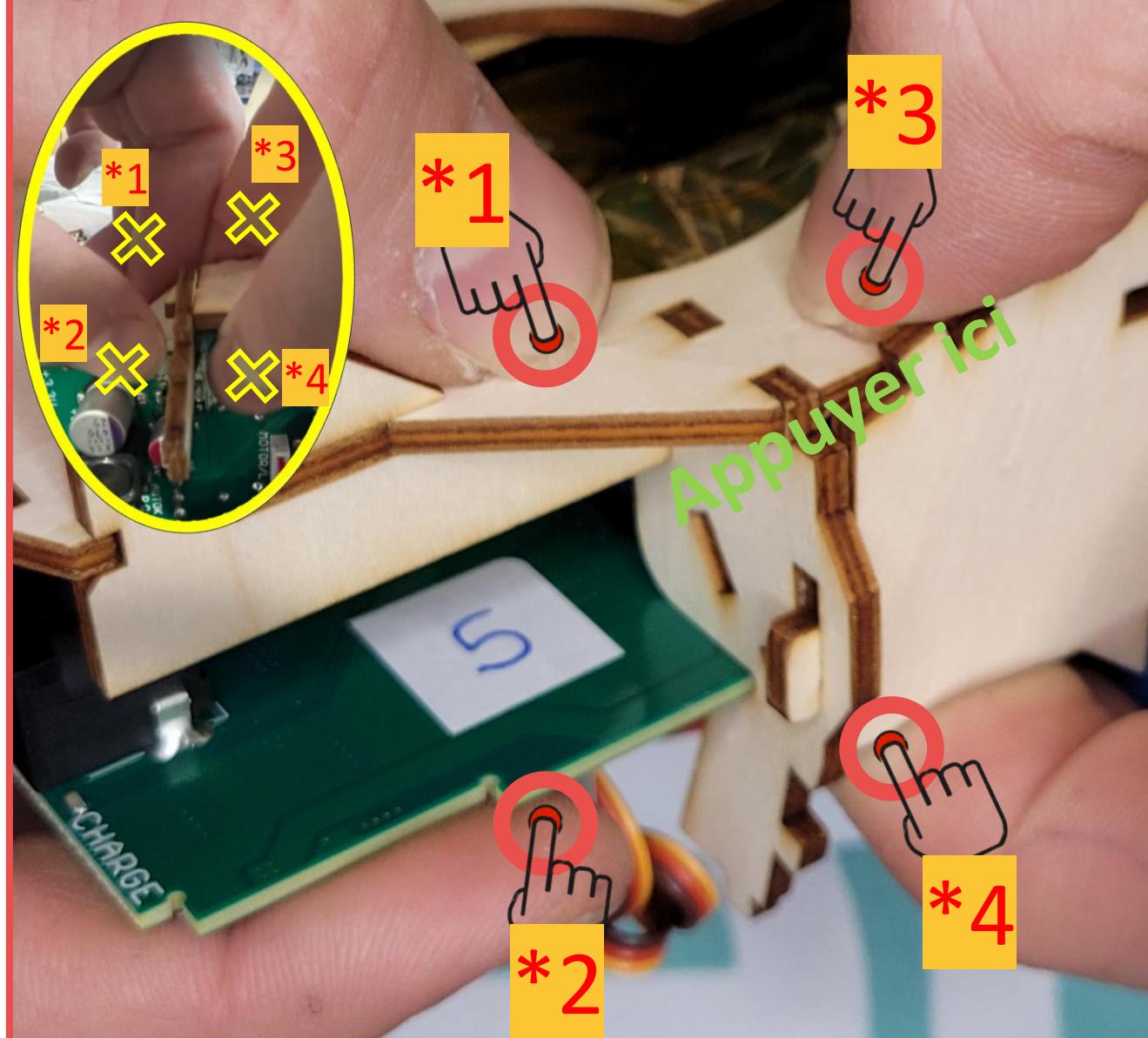


Le serrage  
complet se fait  
à la slide suivante

4

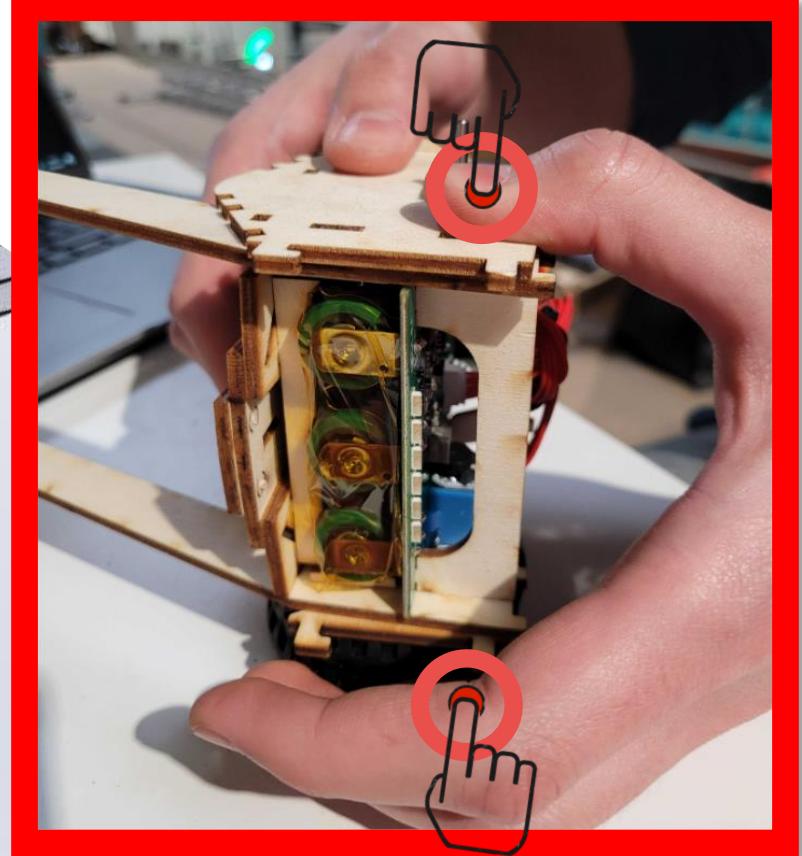
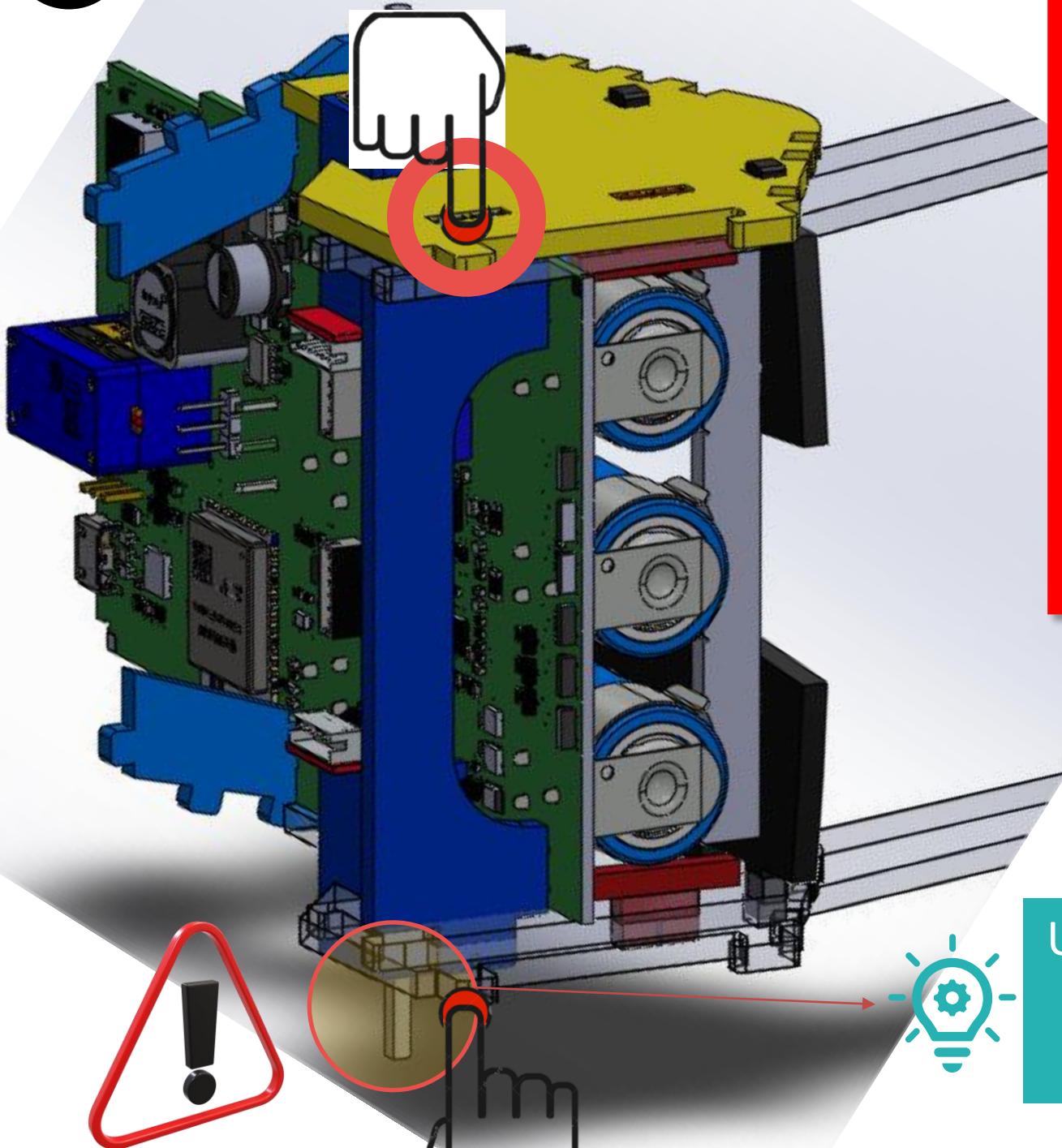
Pincer ensuite le capot avec :

- une 1<sup>er</sup> main entre \*1 et \*2
- une 2<sup>ème</sup> main entre \*3 et \*4

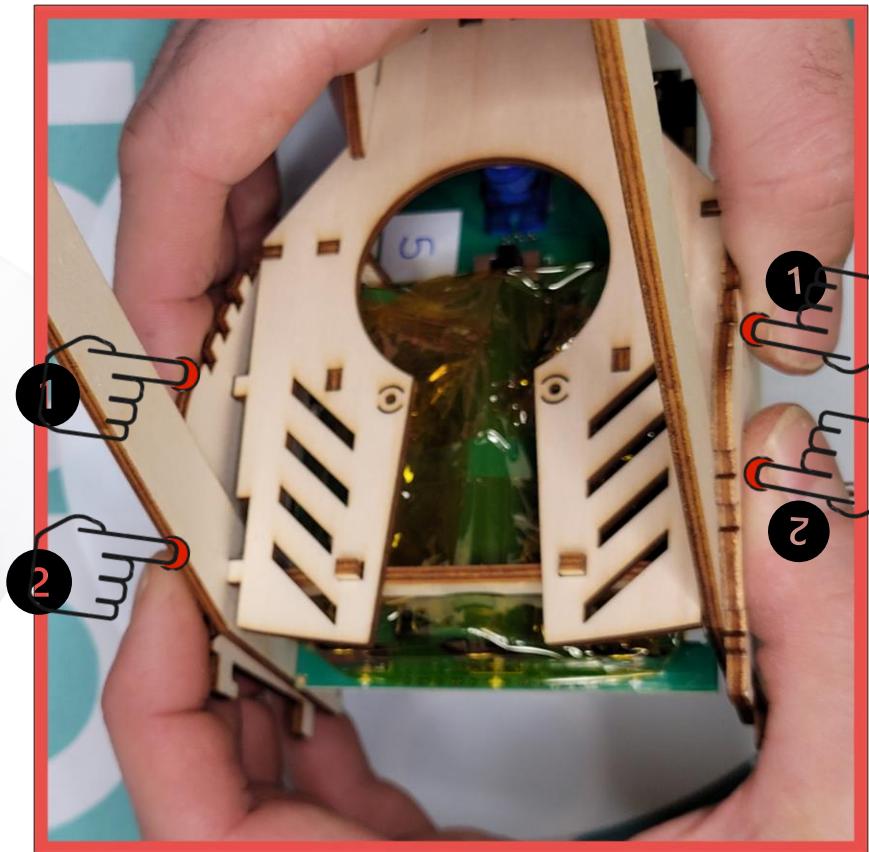
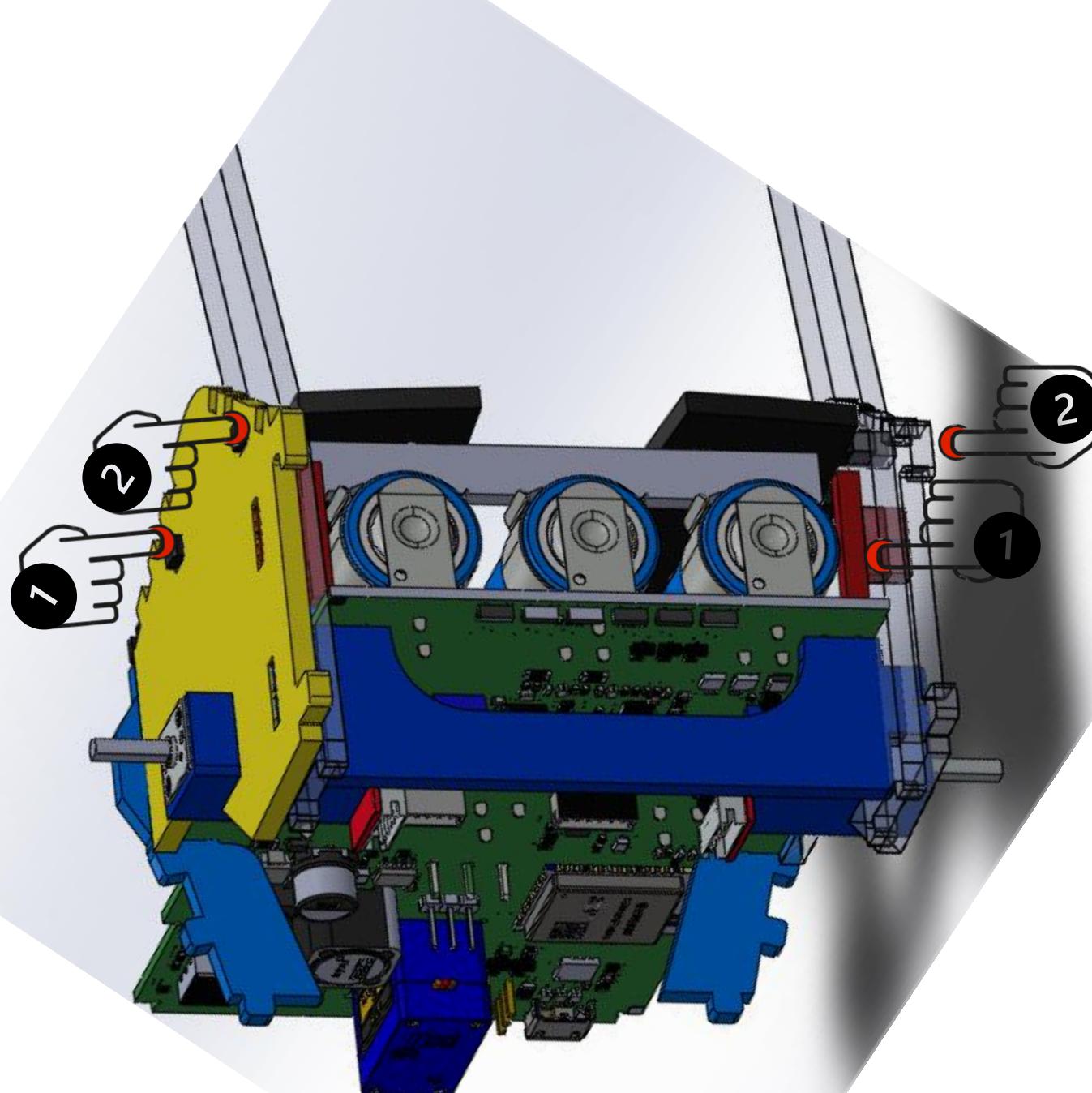


1

Appuyer fortement ici

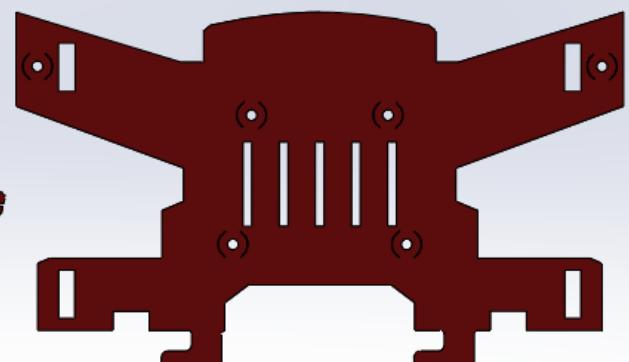
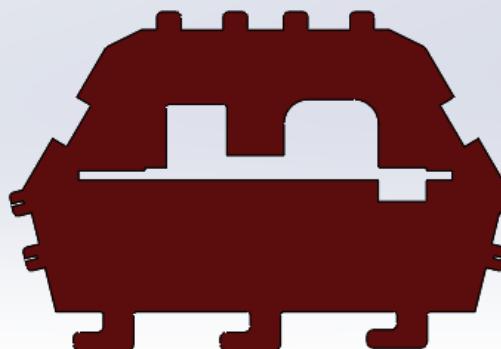
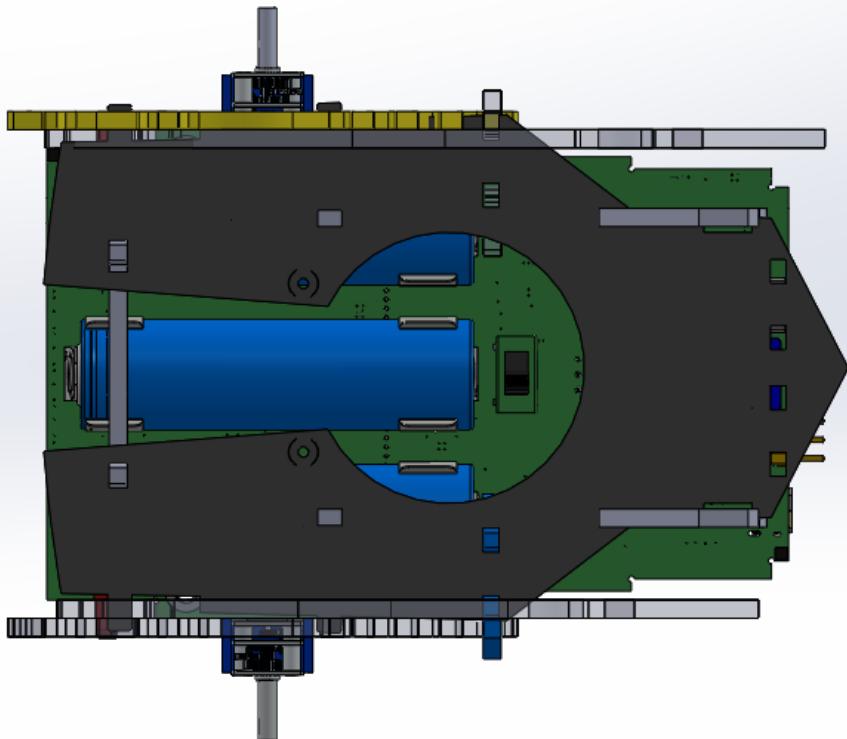


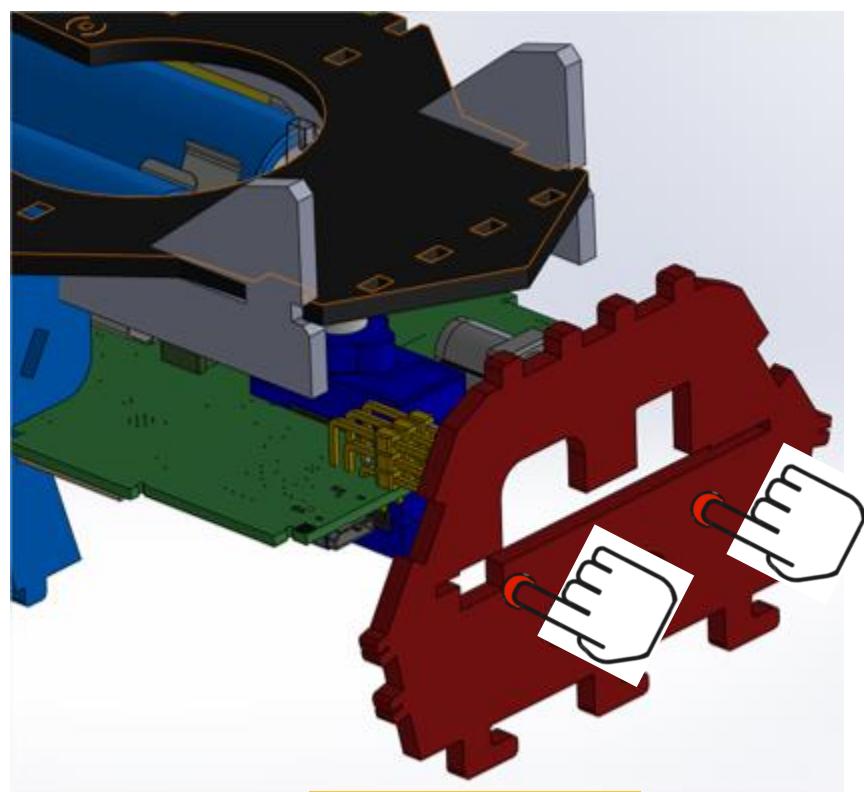
Utiliser 2 pneus pour éviter de faire pression sur l'axe du moteur



Pincer ensuite  
en 1) et en 2)

# ASSEMBLAGE DU PIEDS SQUELETTE



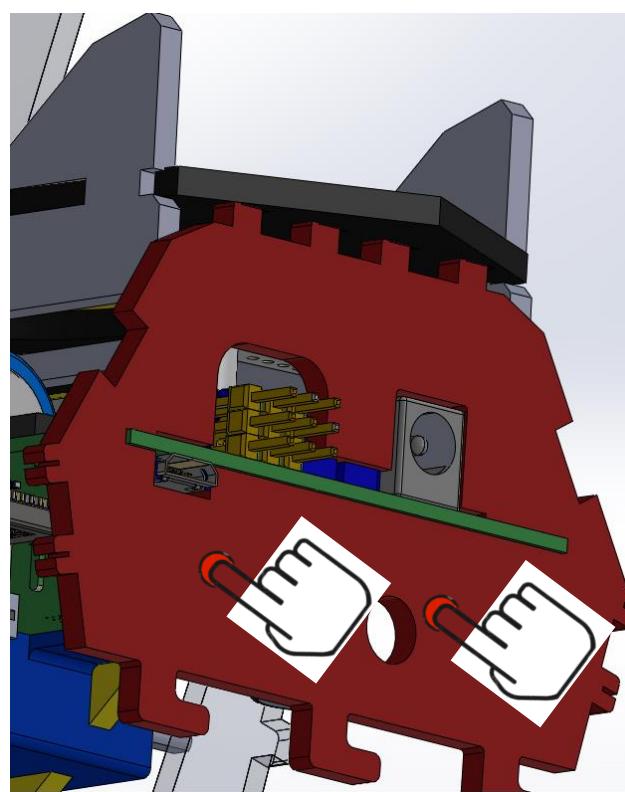
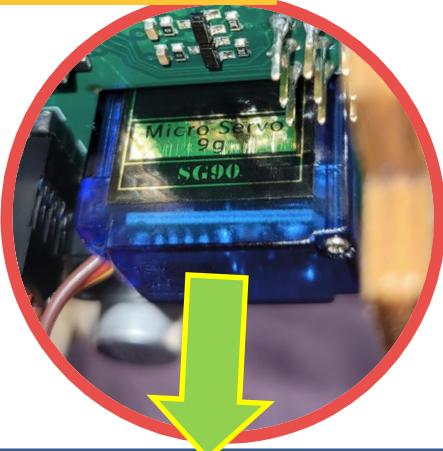


1

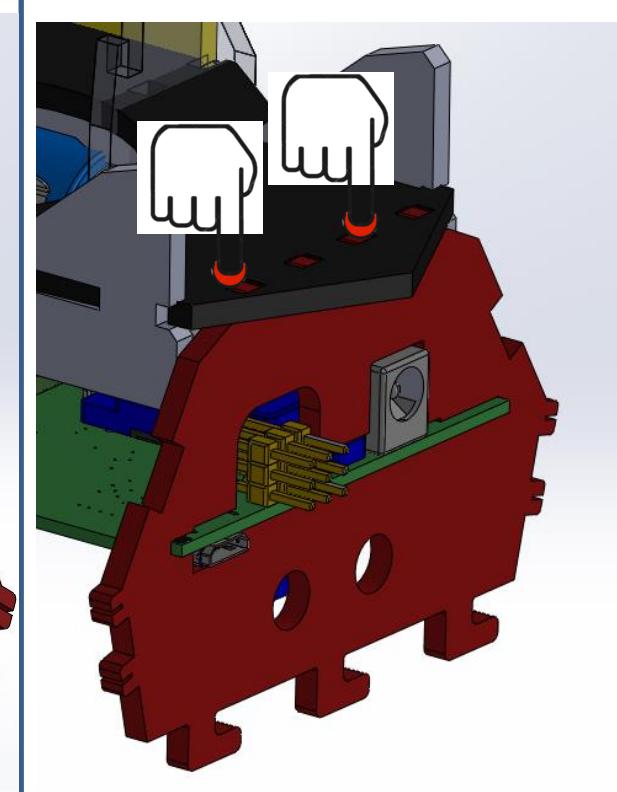
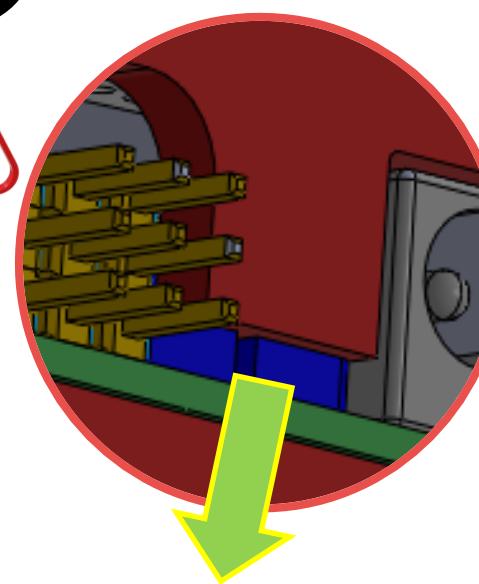
Maintenir le servomoteur BLEU vers le bas et insérer la partie ROUGE



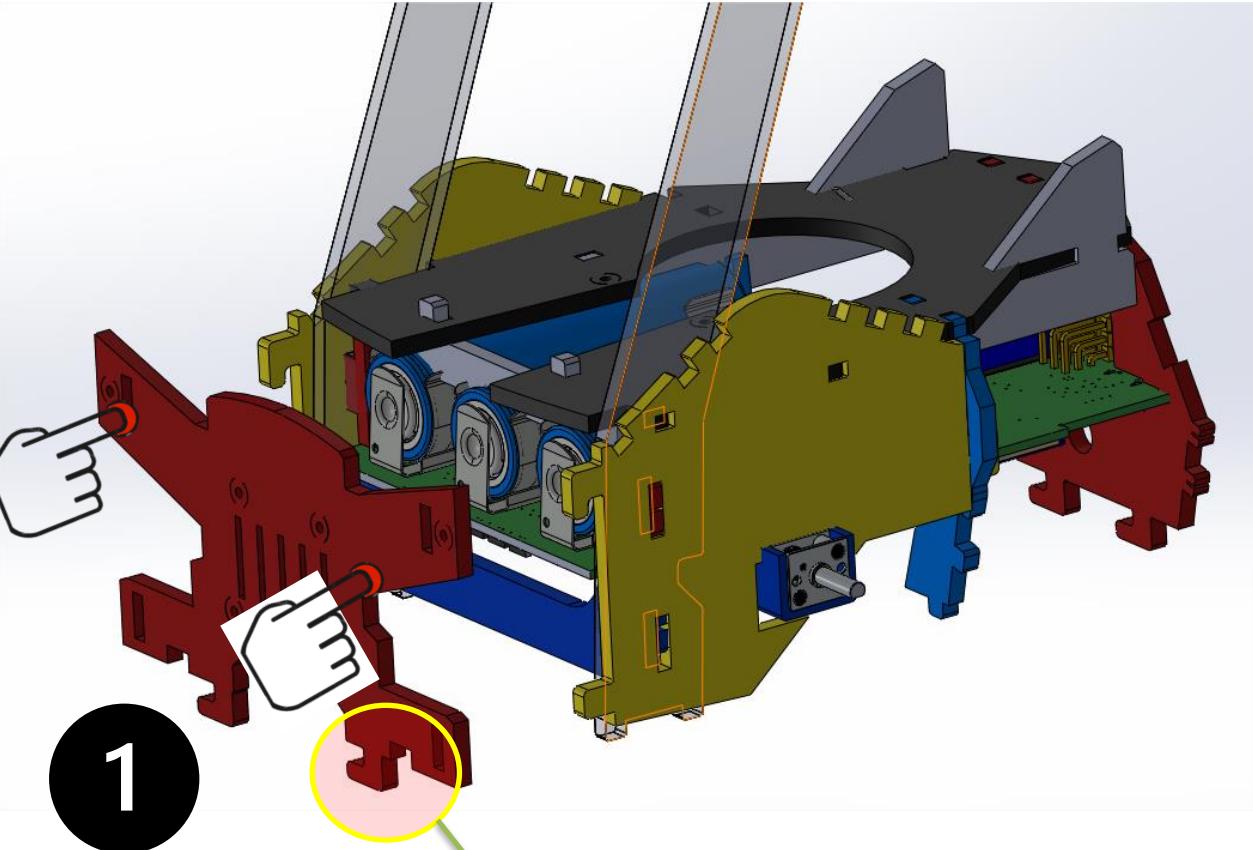
(sert à caler le moteur)



2

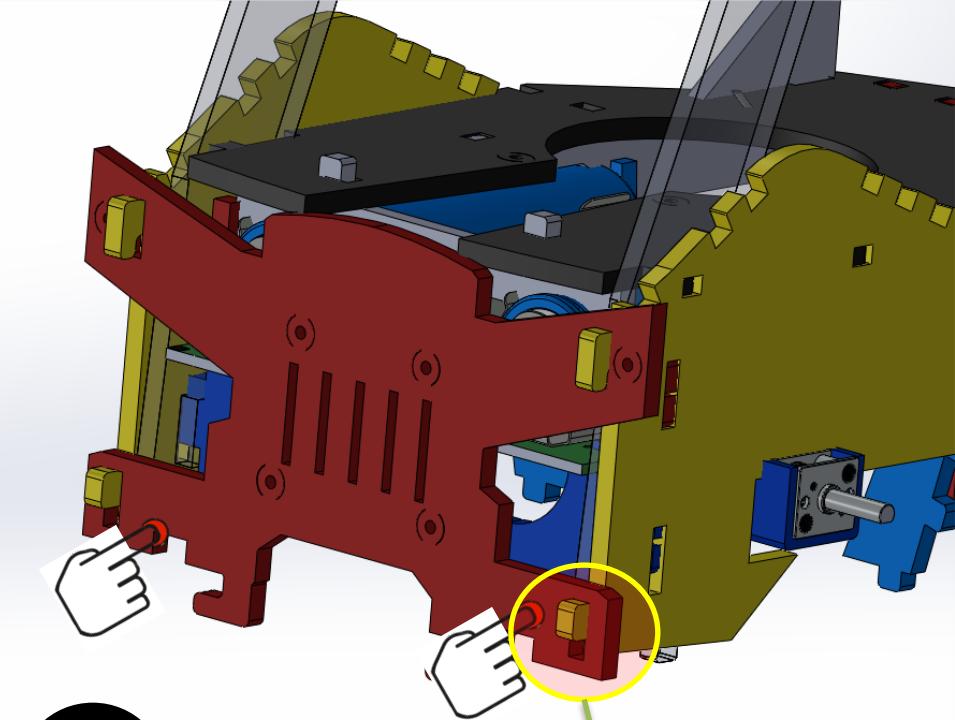
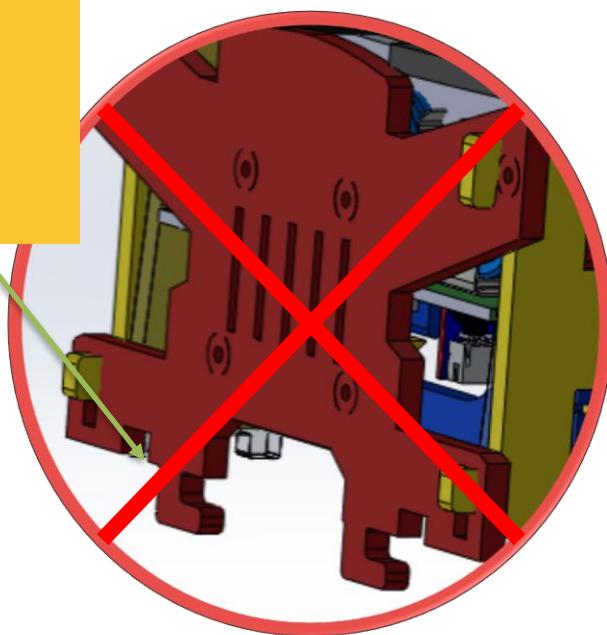


3



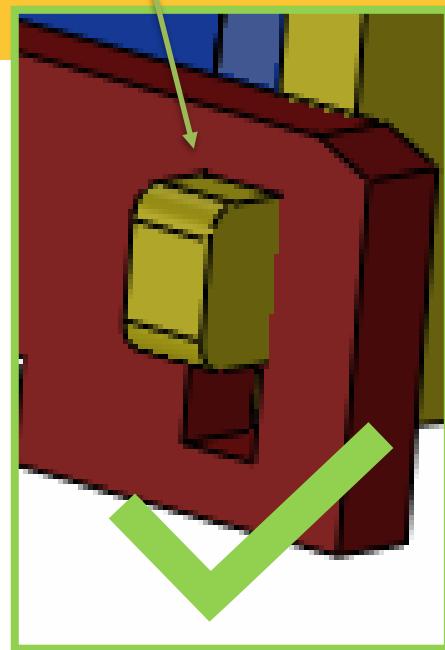
1

**Attention les pieds doivent être vers la gauche et non vers la droite :**



2

**La pièce ROUGE doit être le plus basse possible vis à vis à la pièce JAUNE**



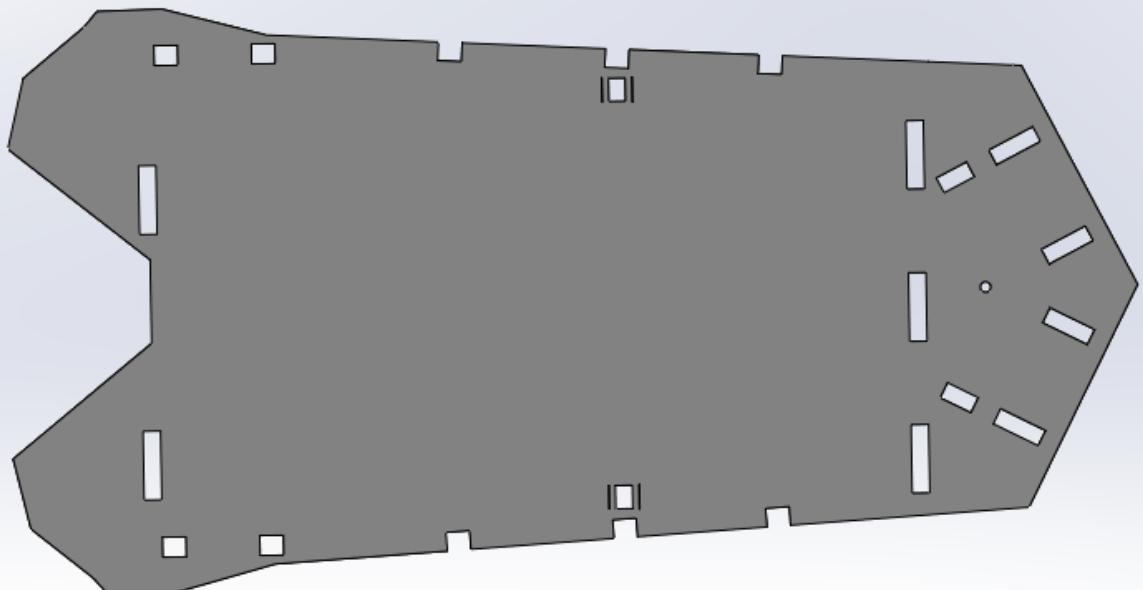
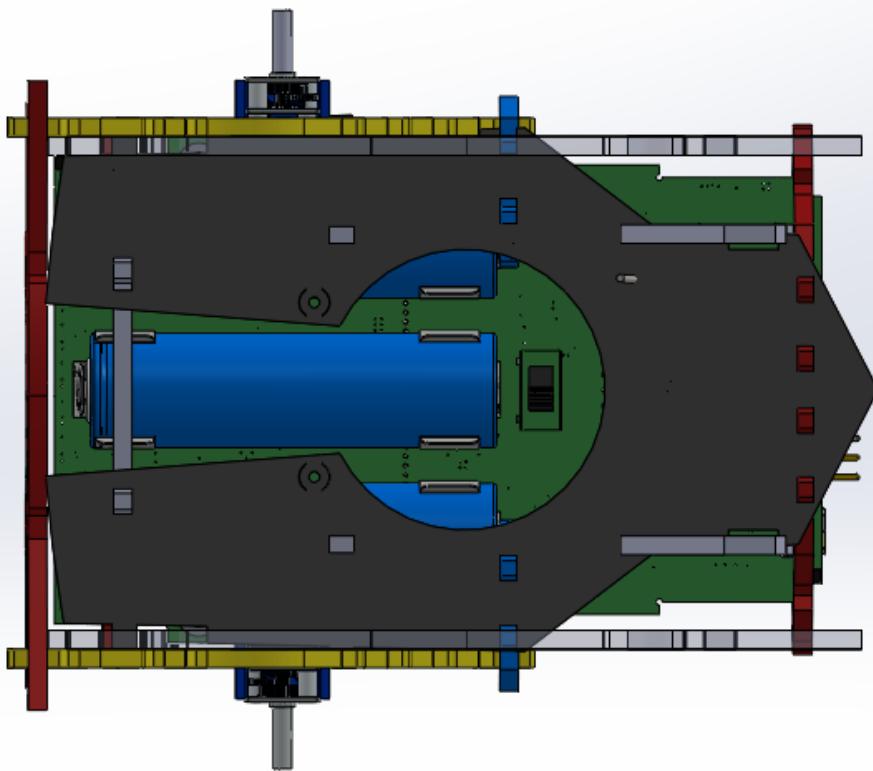
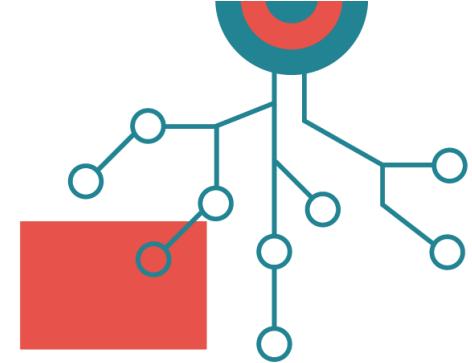


**ASSEMBLAGE**

du

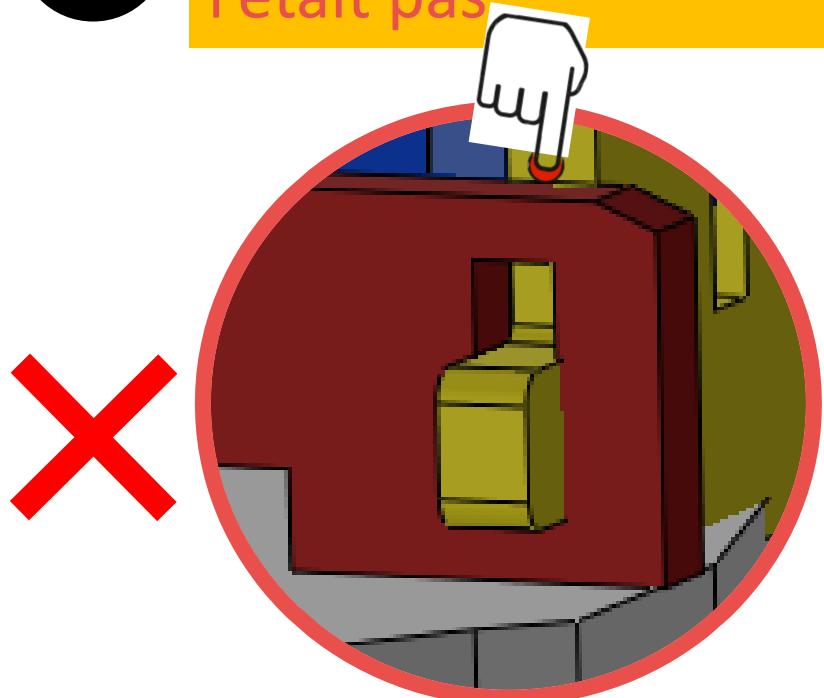


**CHASSIS**



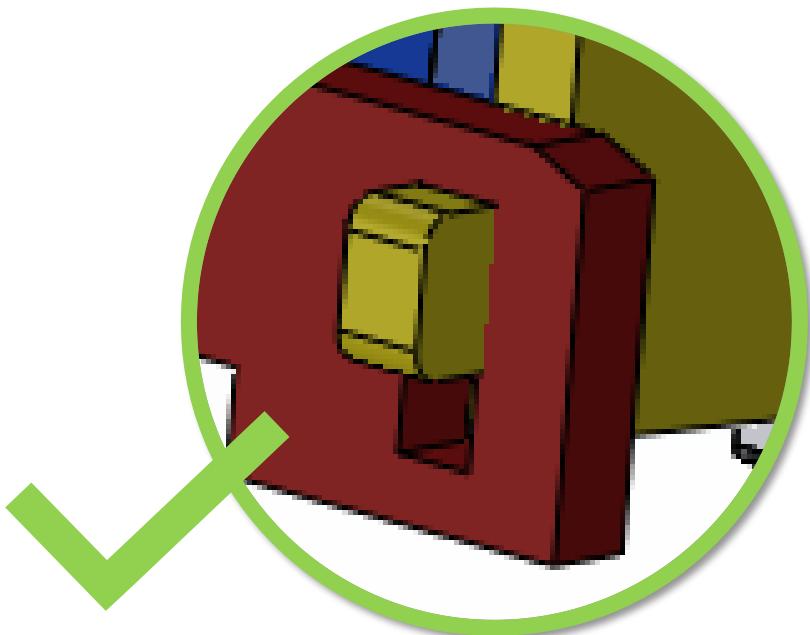
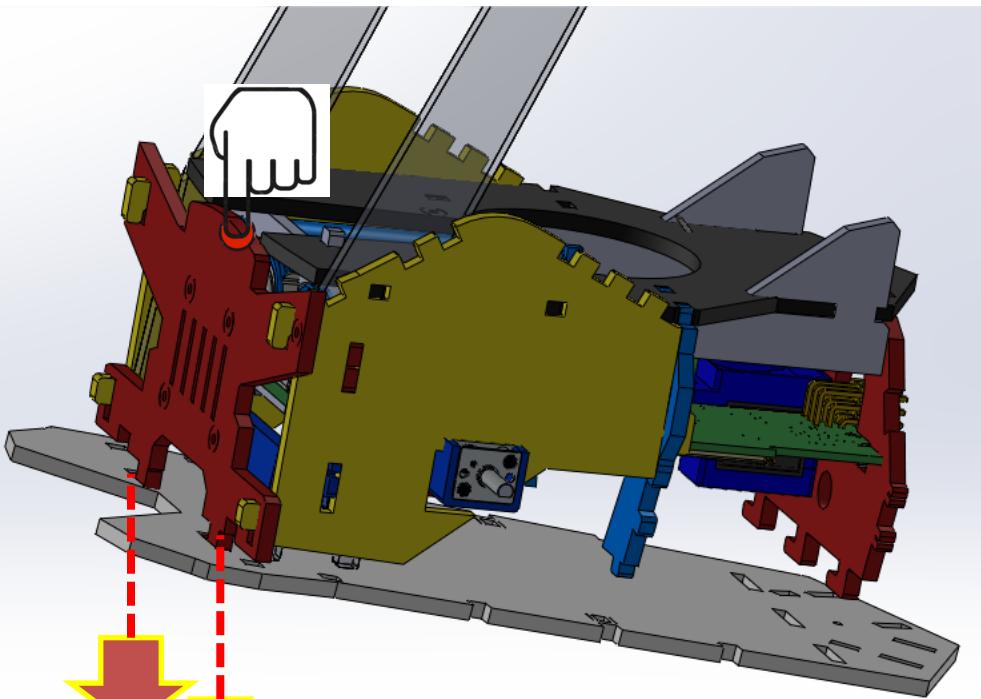
1

Rabaïsser le X si il ne  
l'était pas

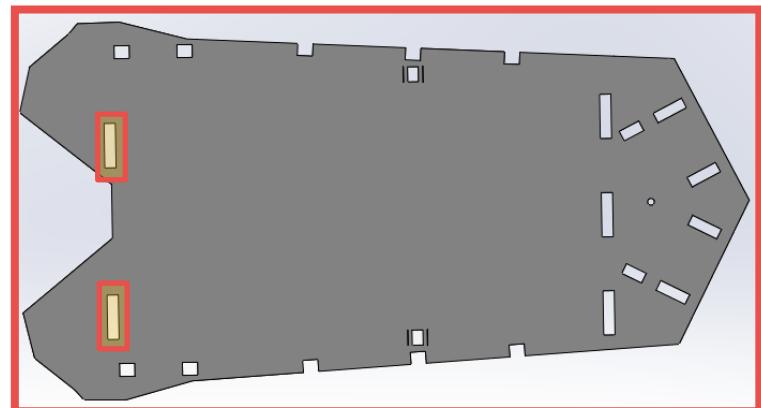


2

Insérer les PIEDS de la pièce  
ROUGE dans la pièce GRISE



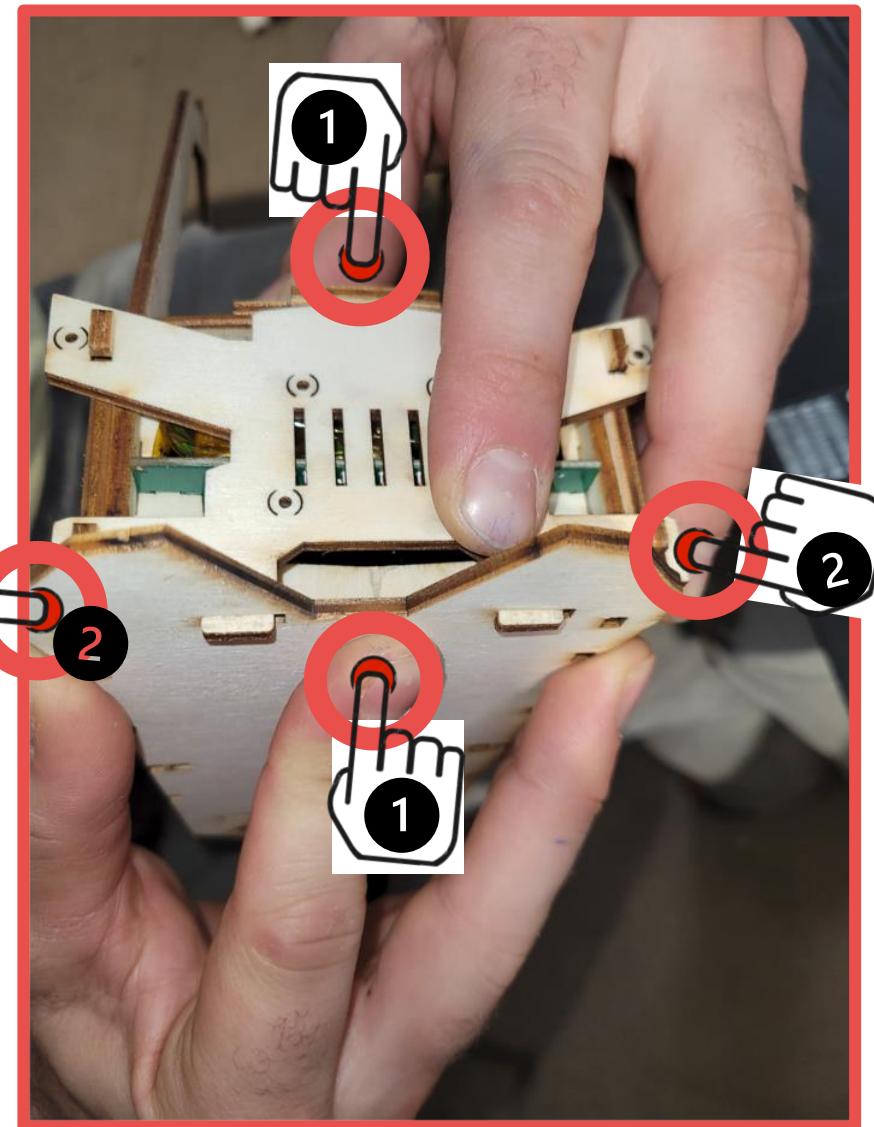
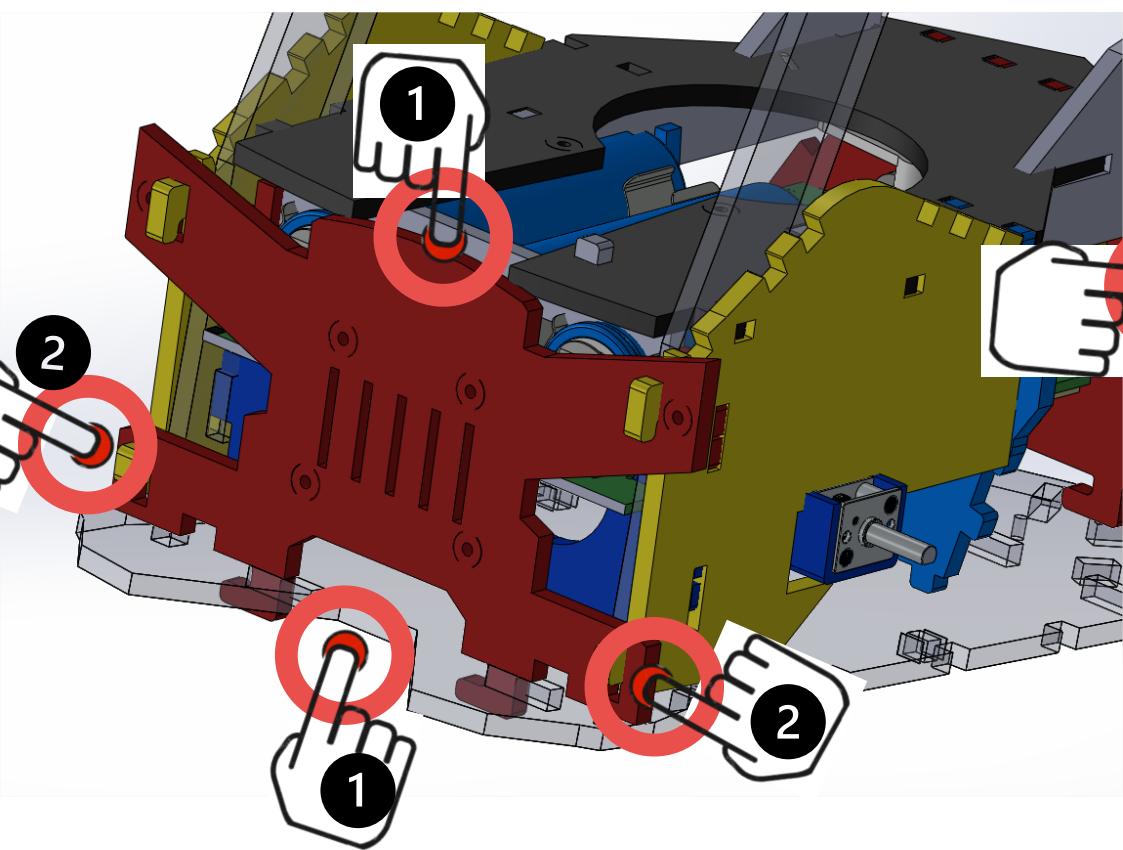
Attention sens plaque



## Maintenir la pression 1



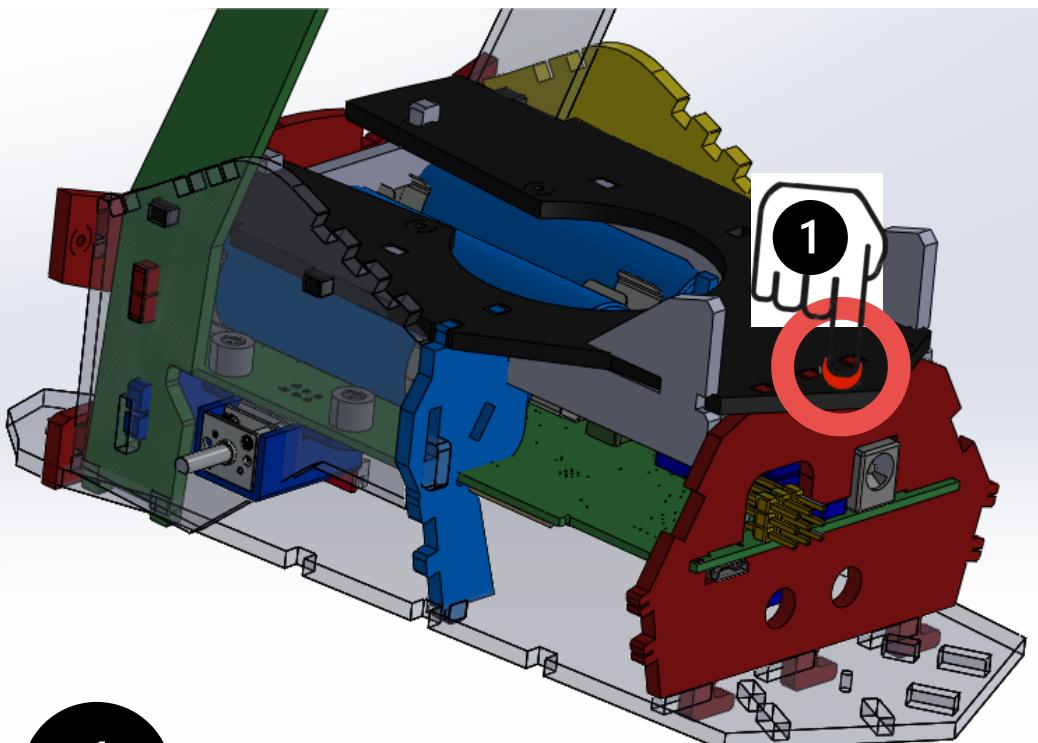
et PINCER le châssis vers la gauche 2



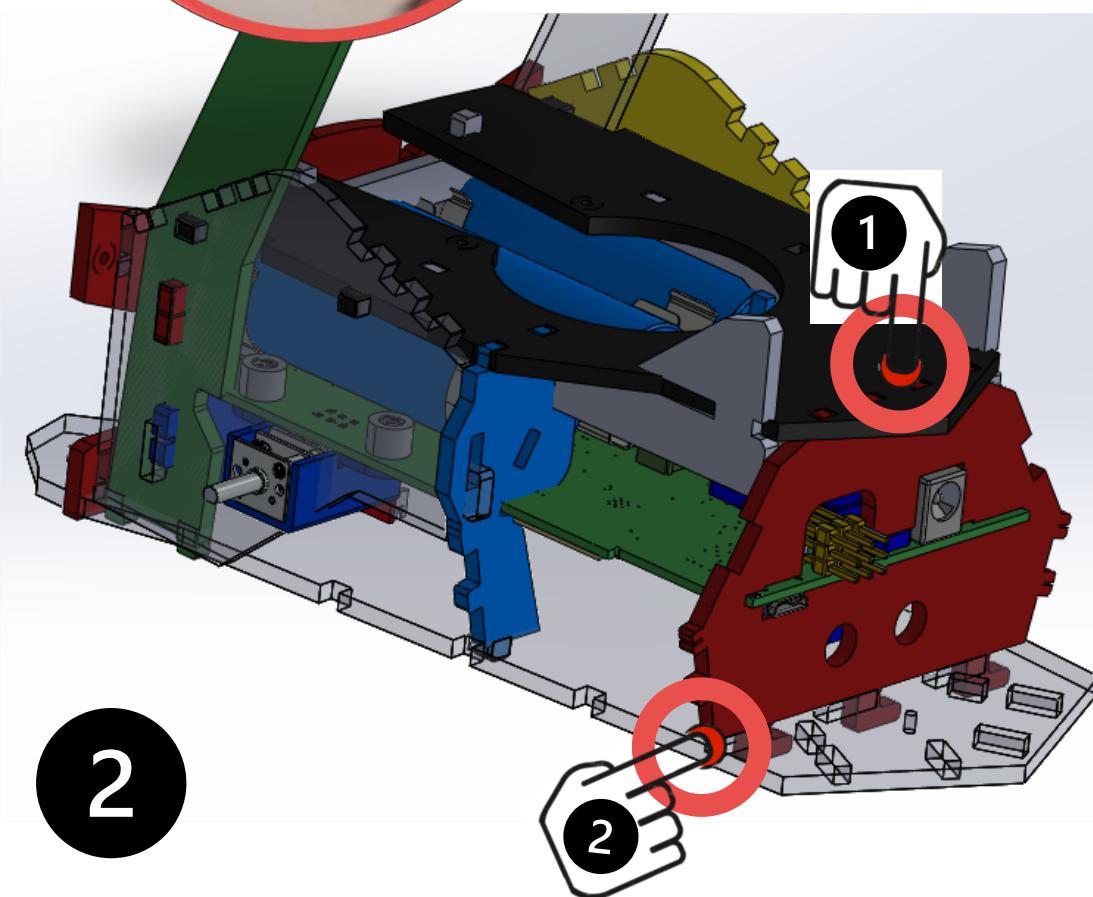
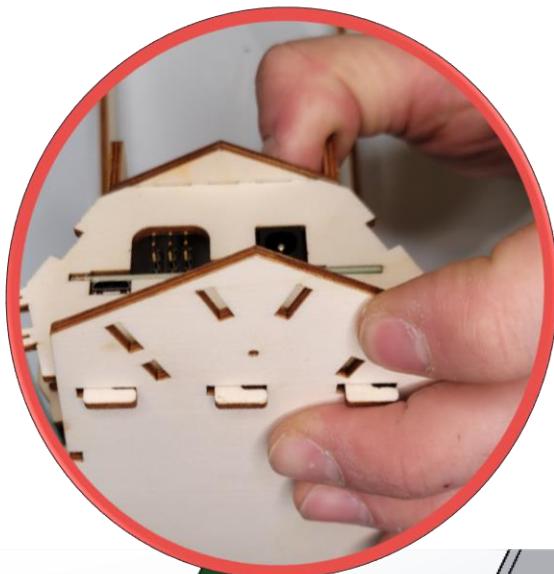
Maintenir la pression ①



et pousser le châssis vers la gauche ②



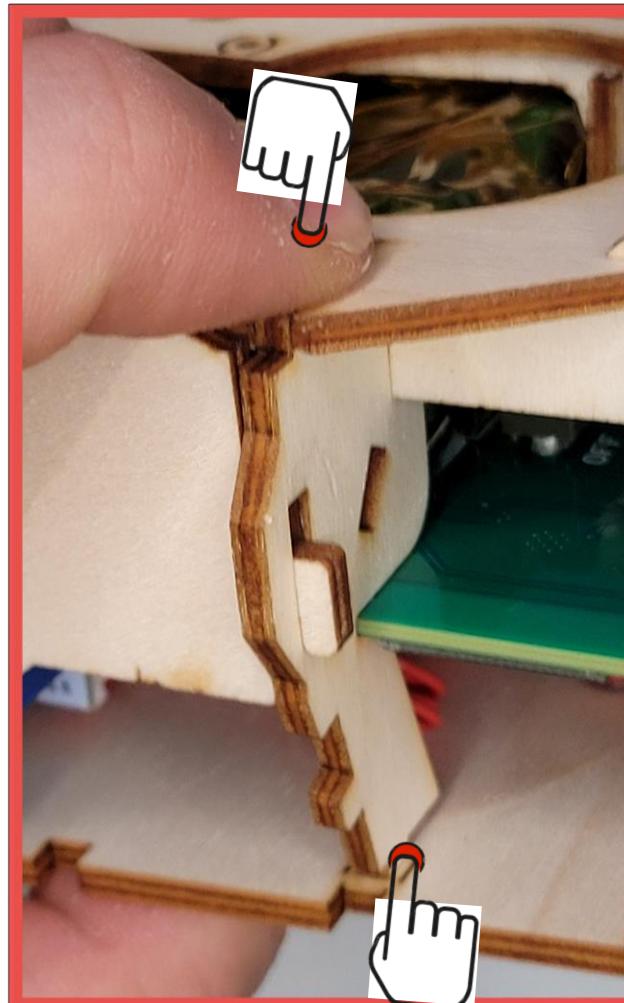
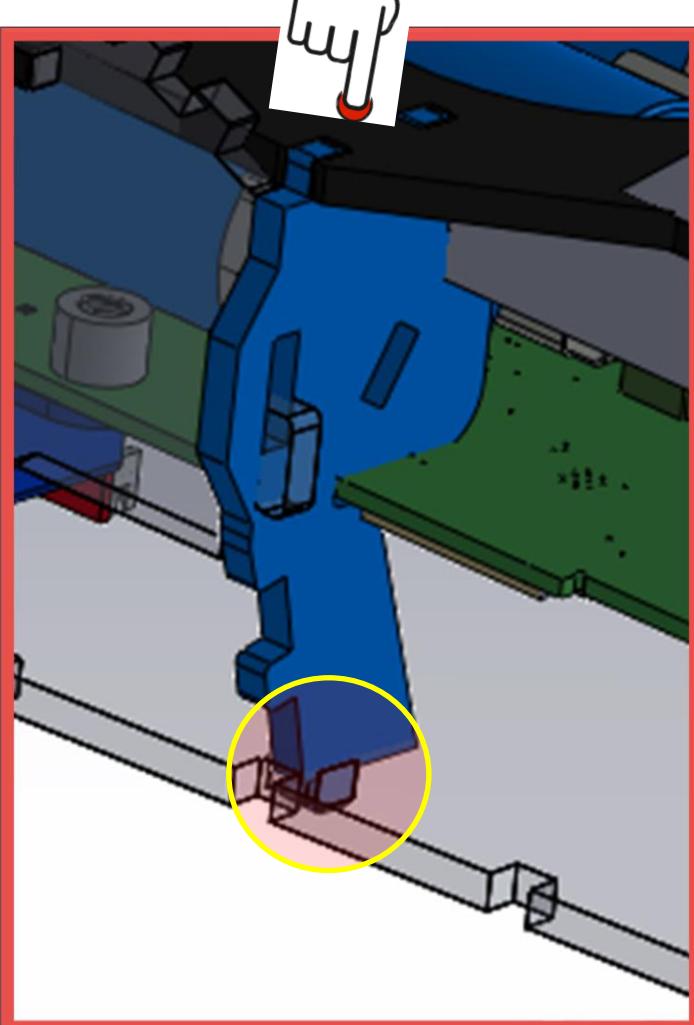
1



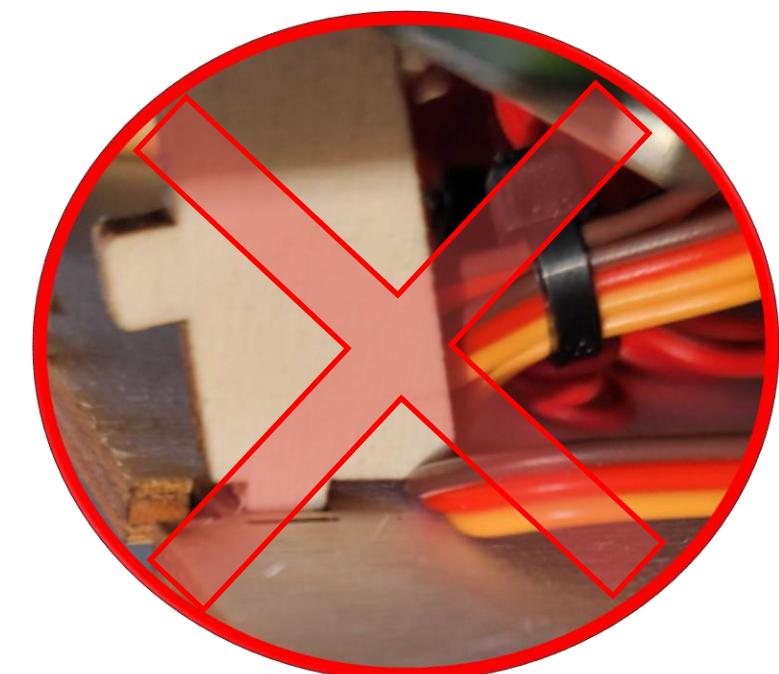
2

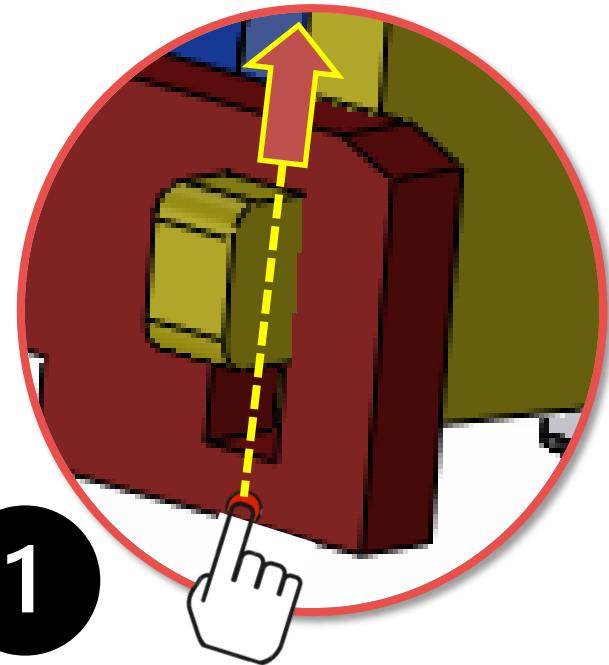
1

Forcer les inserts BLEUE  
dans le châssis GRIS



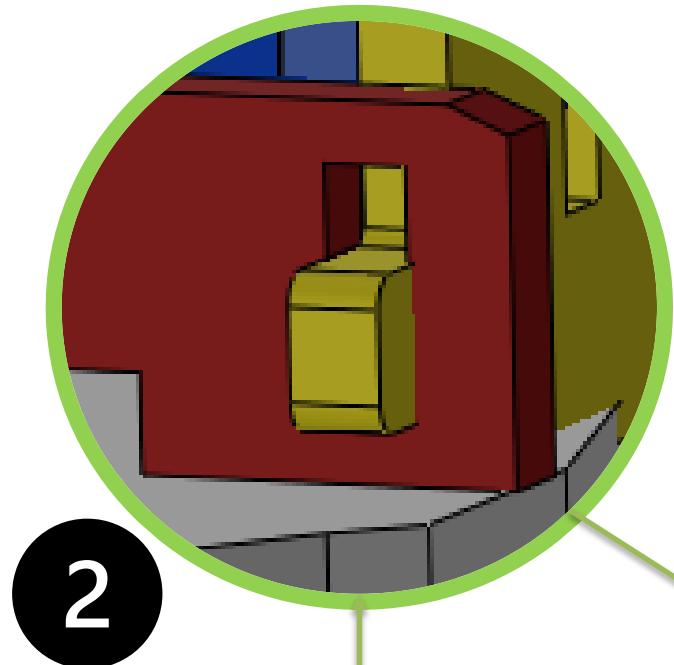
Ne pas insérer  
une pièce sur  
les câbles



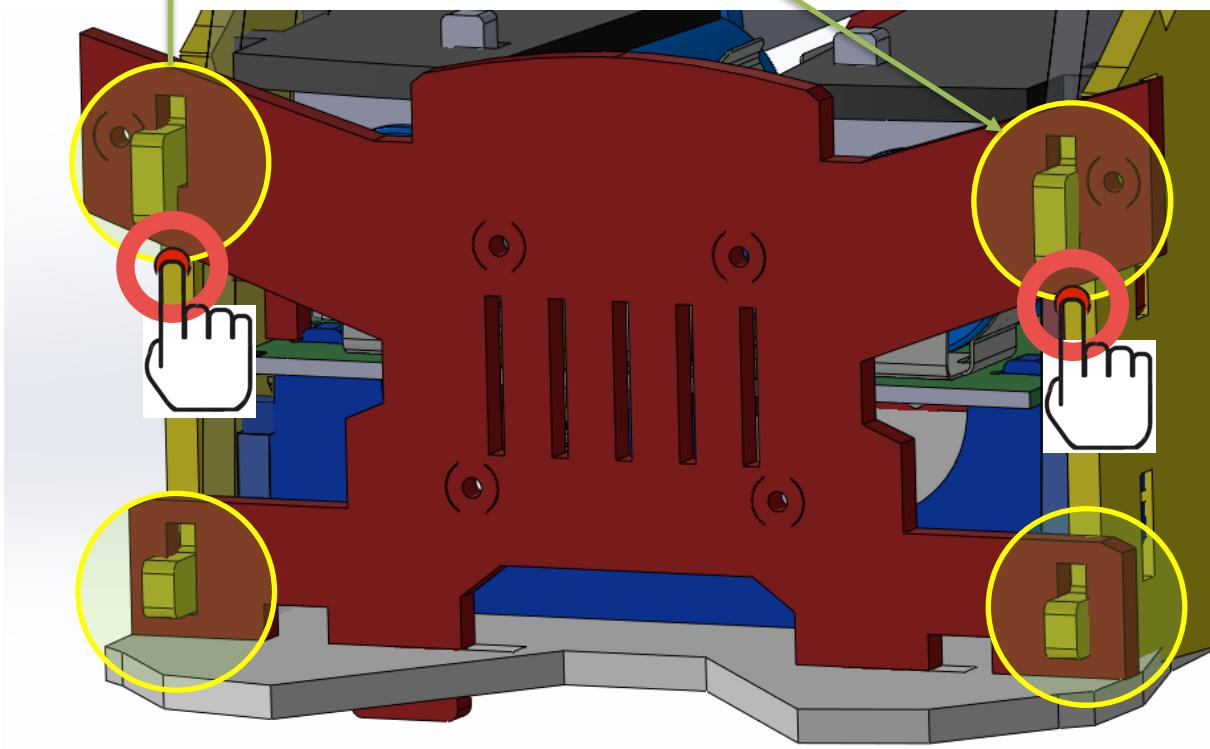


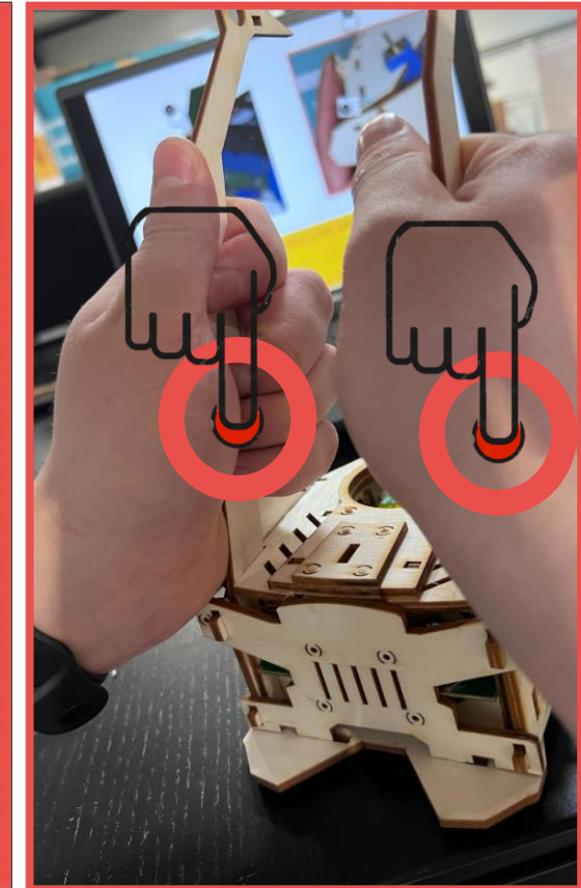
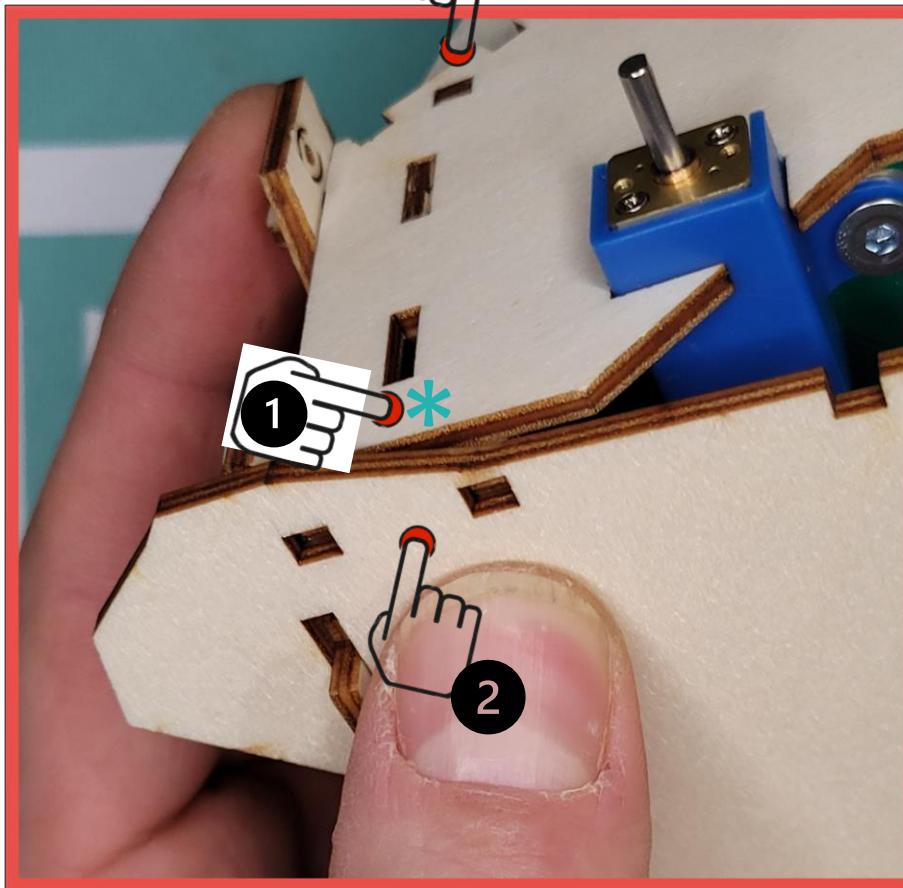
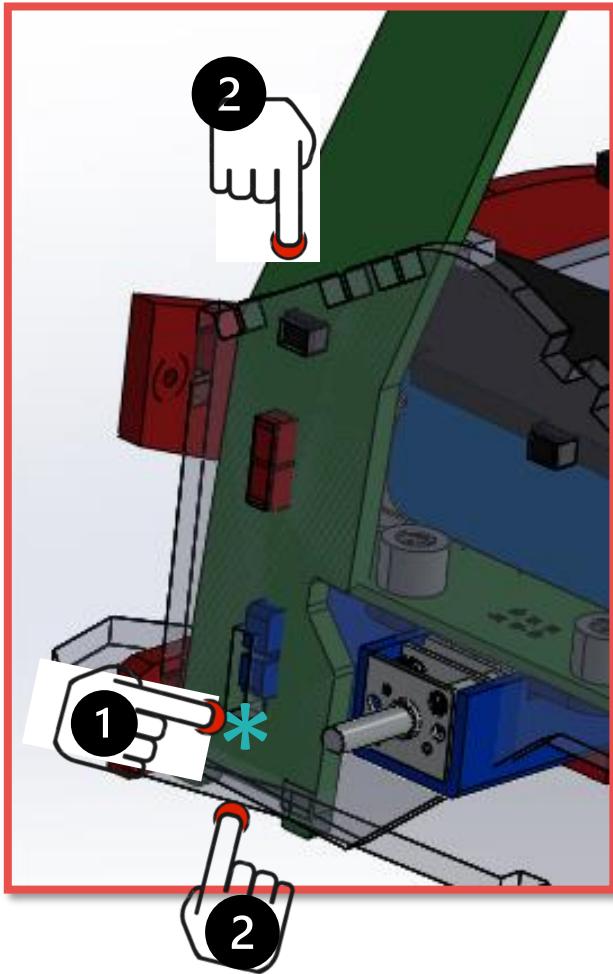
1

Faire glisser le X  
vers le haut



2





- 1 Appuyer ici \* sur la pièce verte jusqu'à ce que les pieds arrivent à bien rentrer dans le châssis
- 2 Coincer les pieds verts dans le châssis gris

# APPELEZ- NOUS

pour que l'on  
valide votre  
montage avant  
de continuer !!

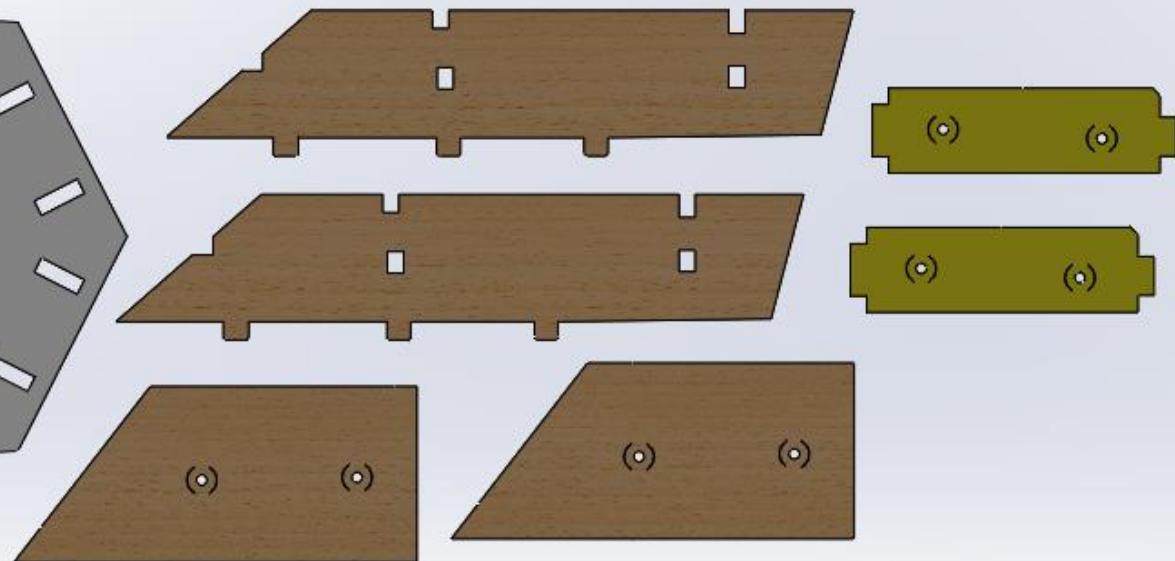
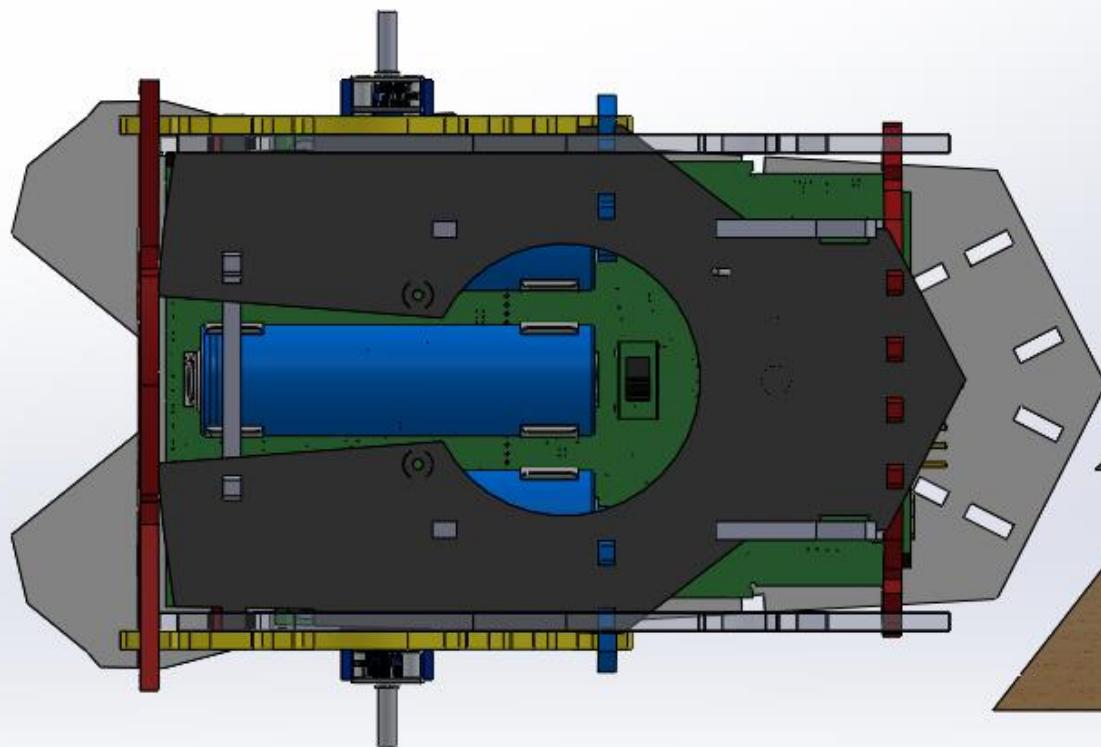
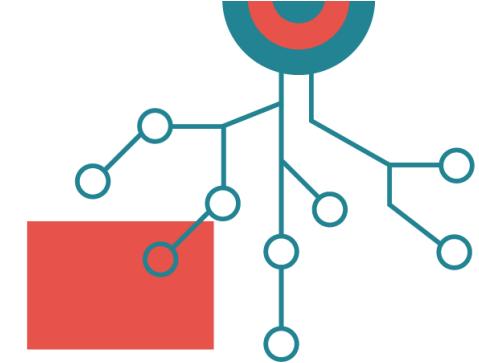


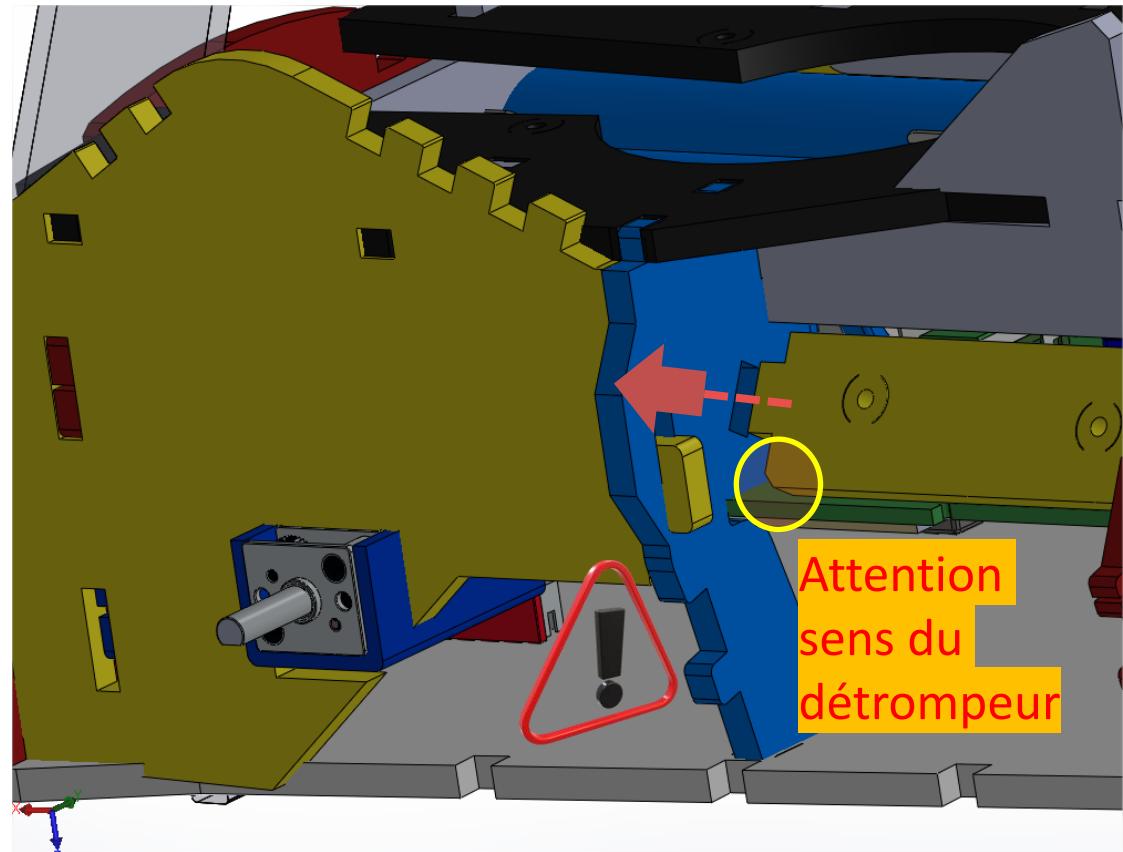


# ASSEMBLAGE

des

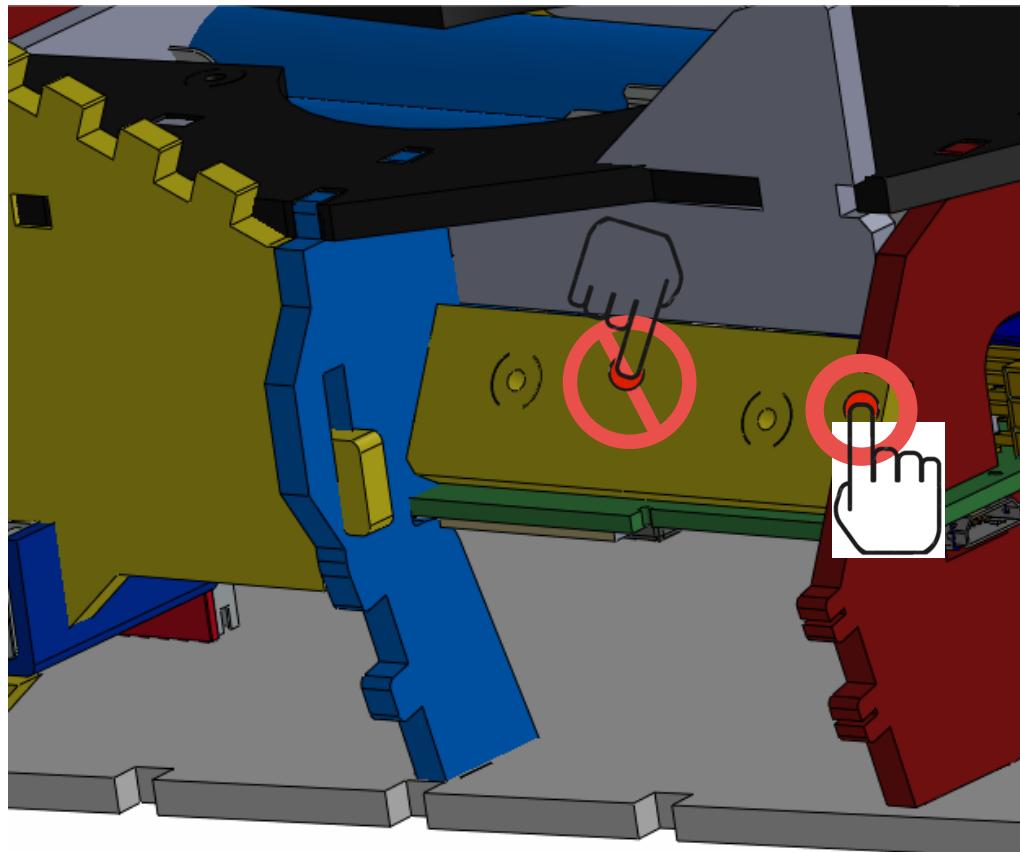
# CAPOTS





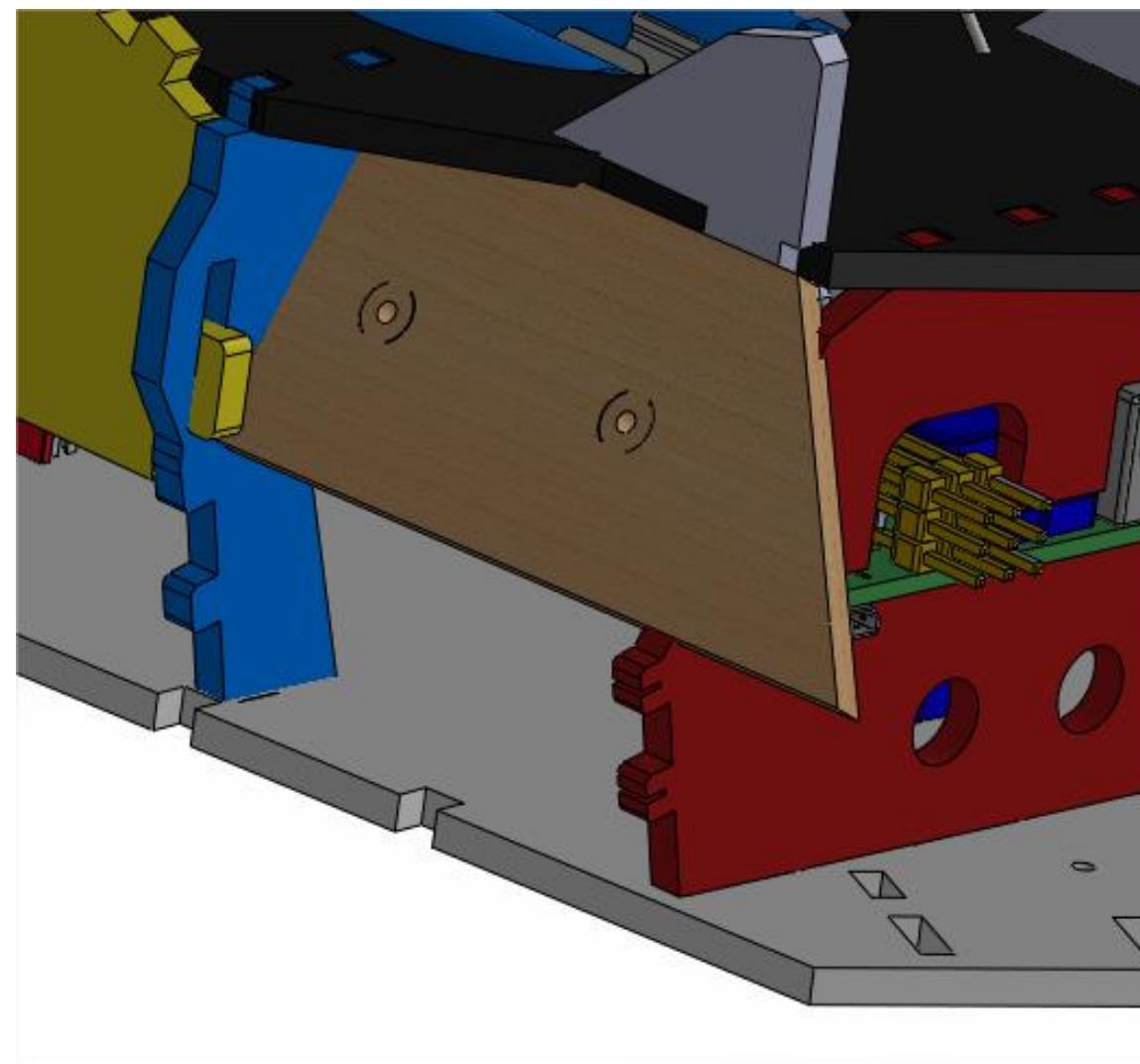
1

Insérer la pièce jaune dans la pièce bleue.



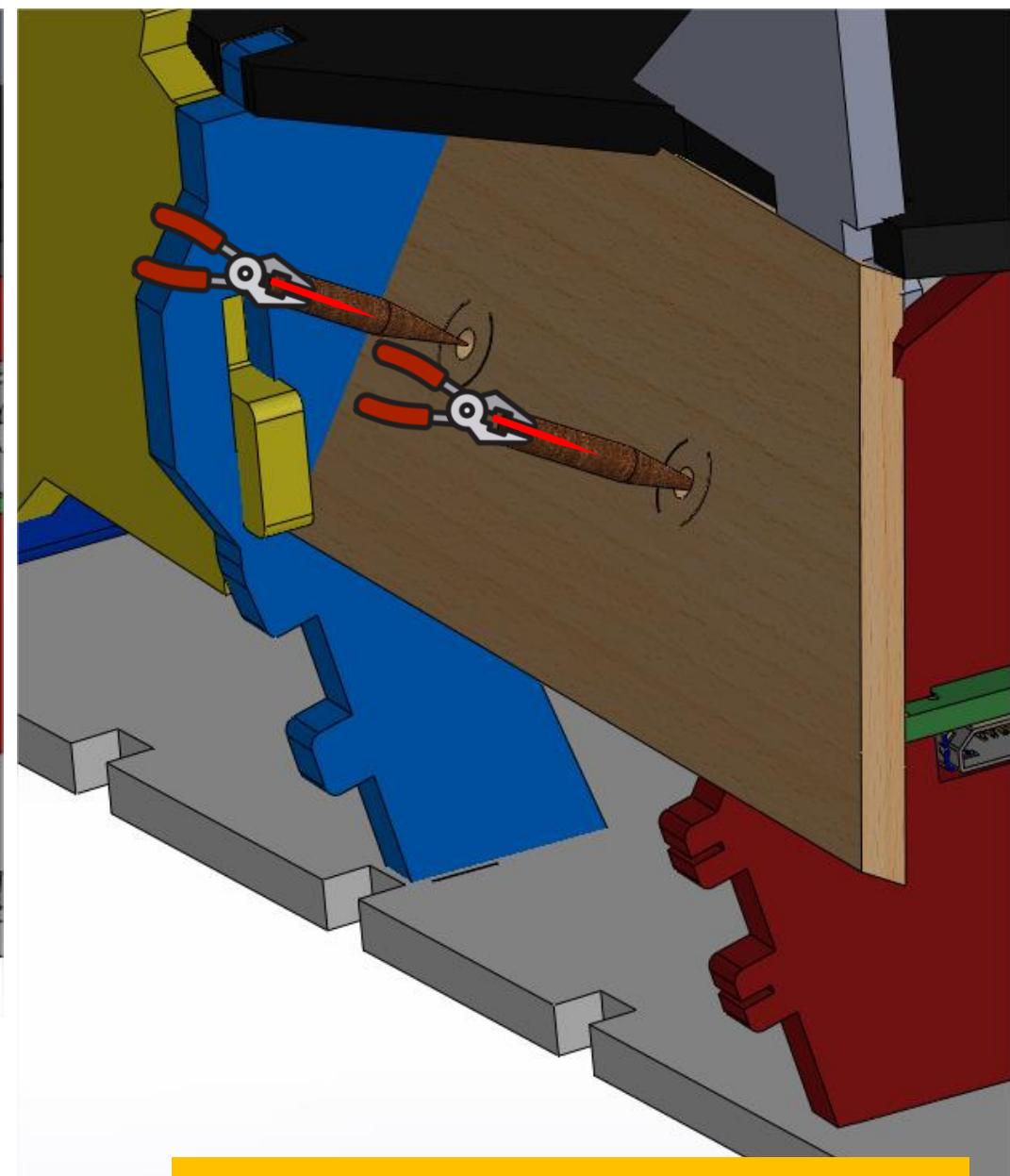
2

Insérer en force en appuyant ici



1

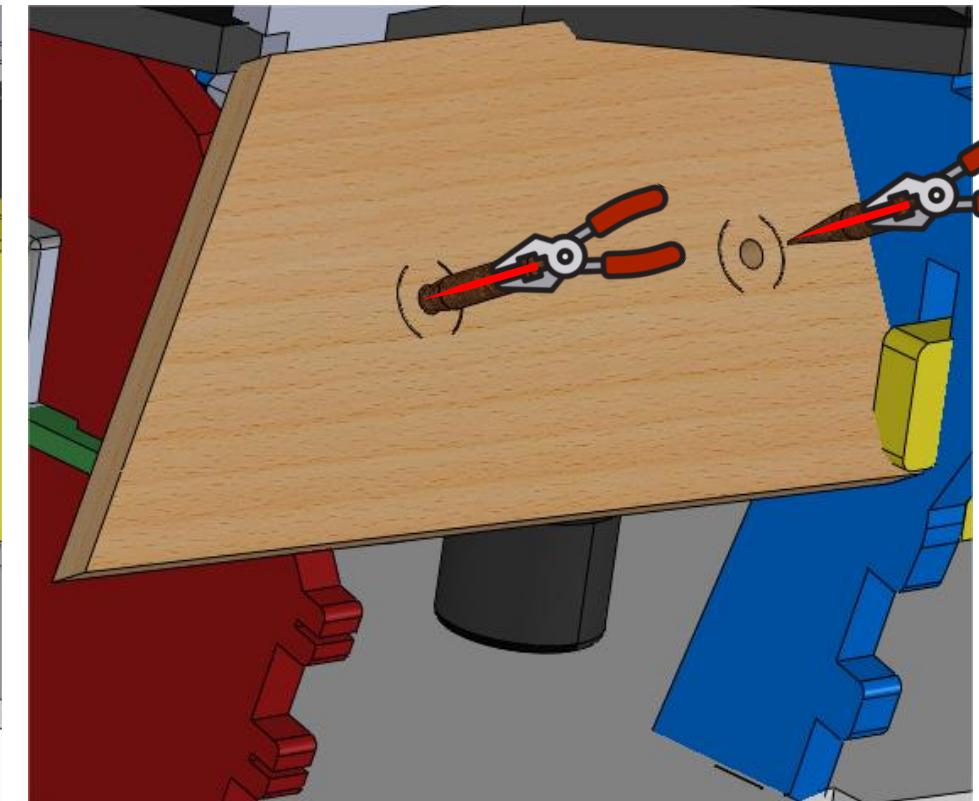
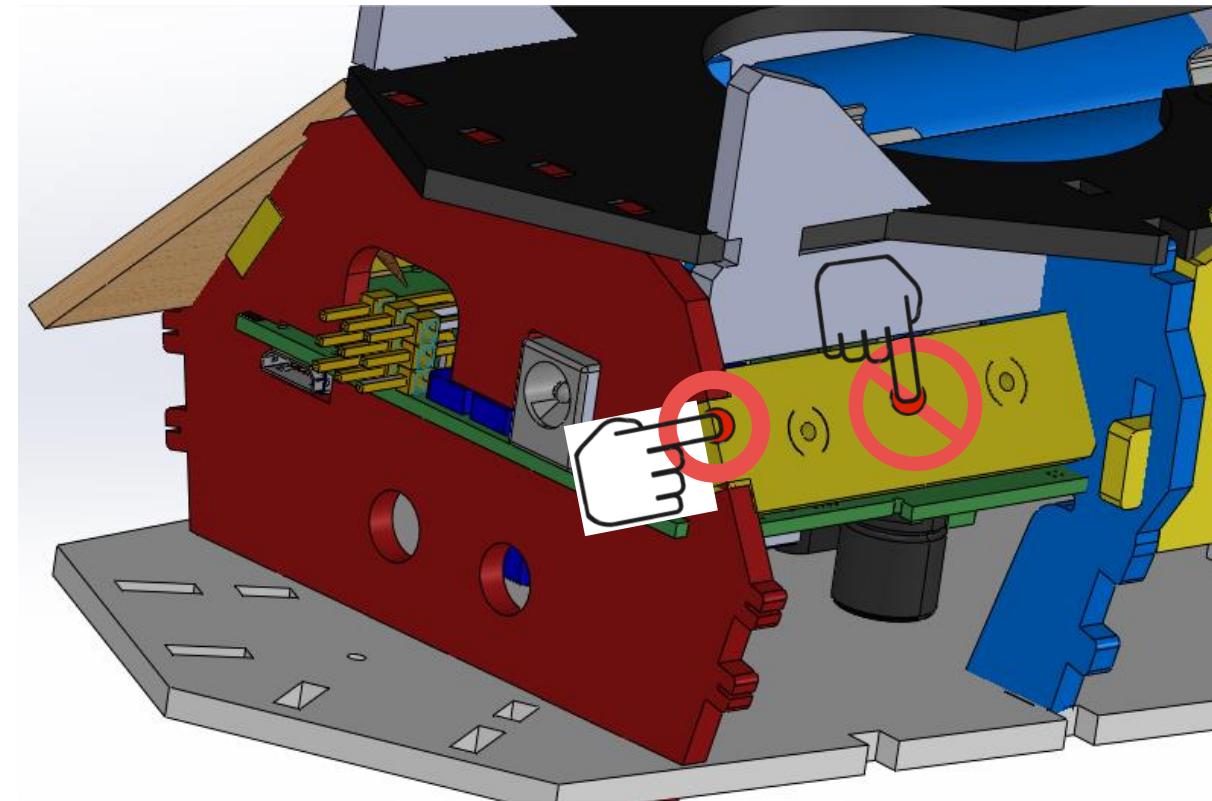
Positionner le capot



2

Insérer en force à la pince un 1<sup>er</sup> cure-dent et couper le  
Puis un 2<sup>ième</sup> cure dents

# Idem de l'autre côté



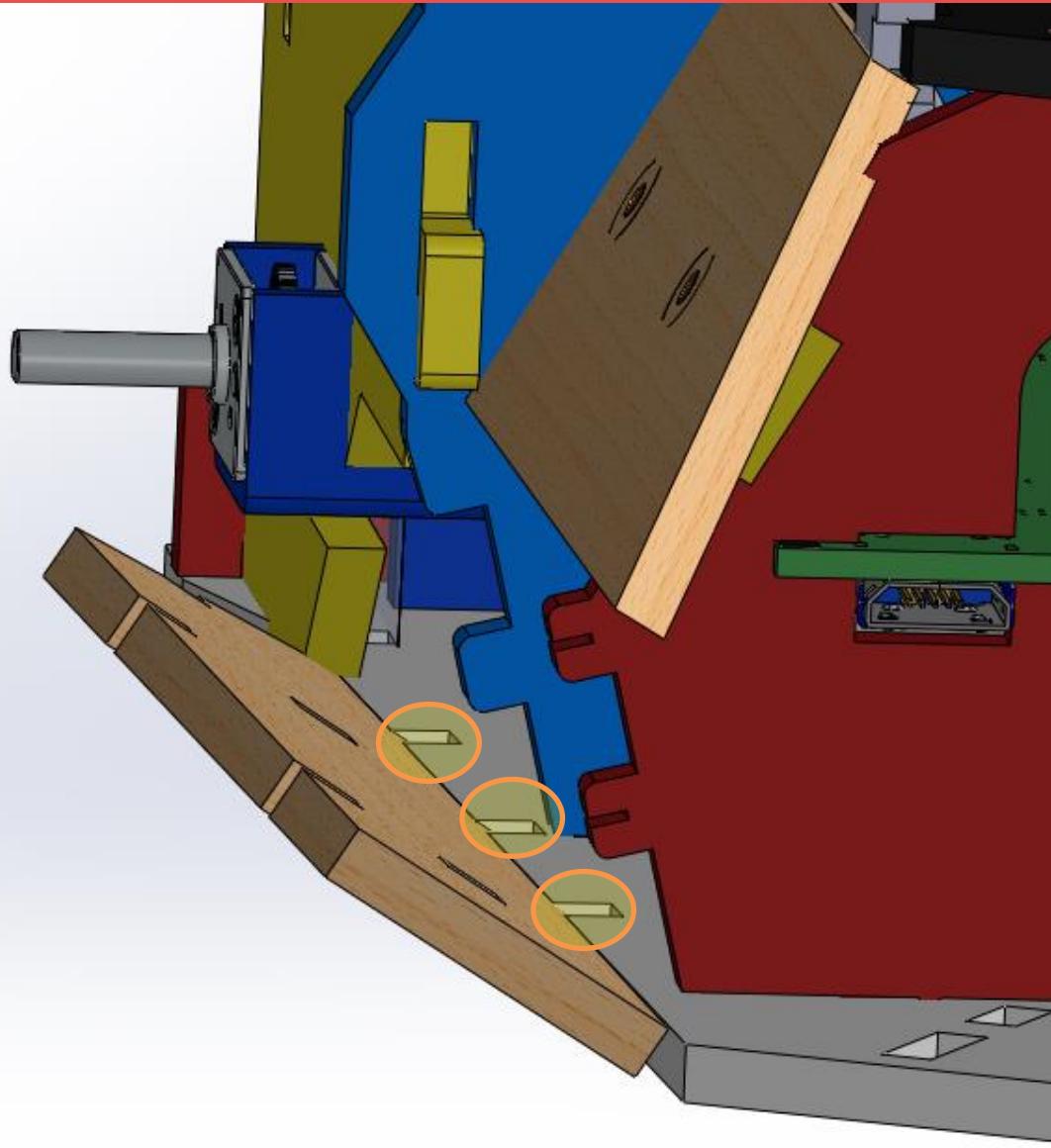
1

Positionner le support

2

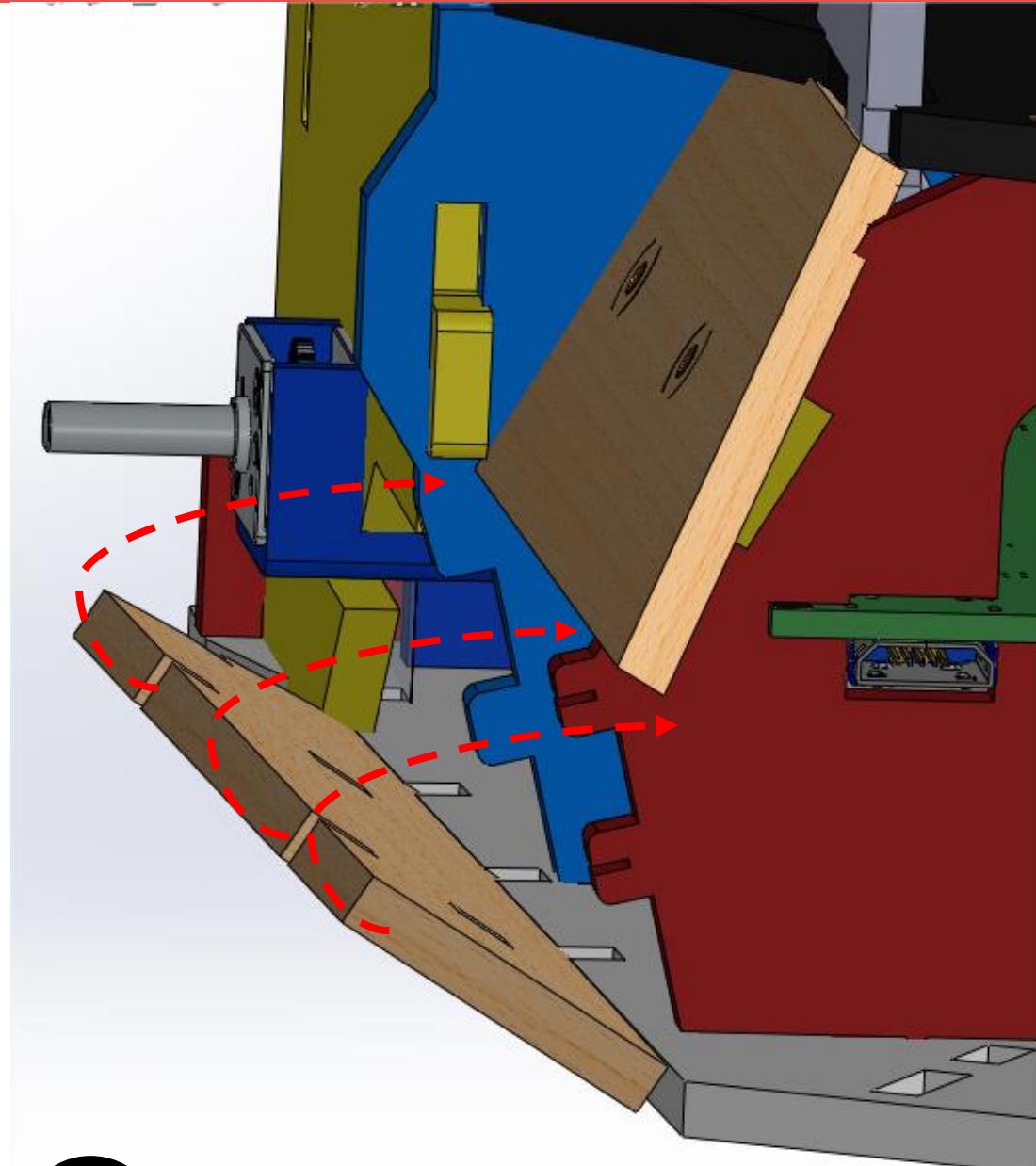
Positionner le capot

# Commencer par le côté gauche



1

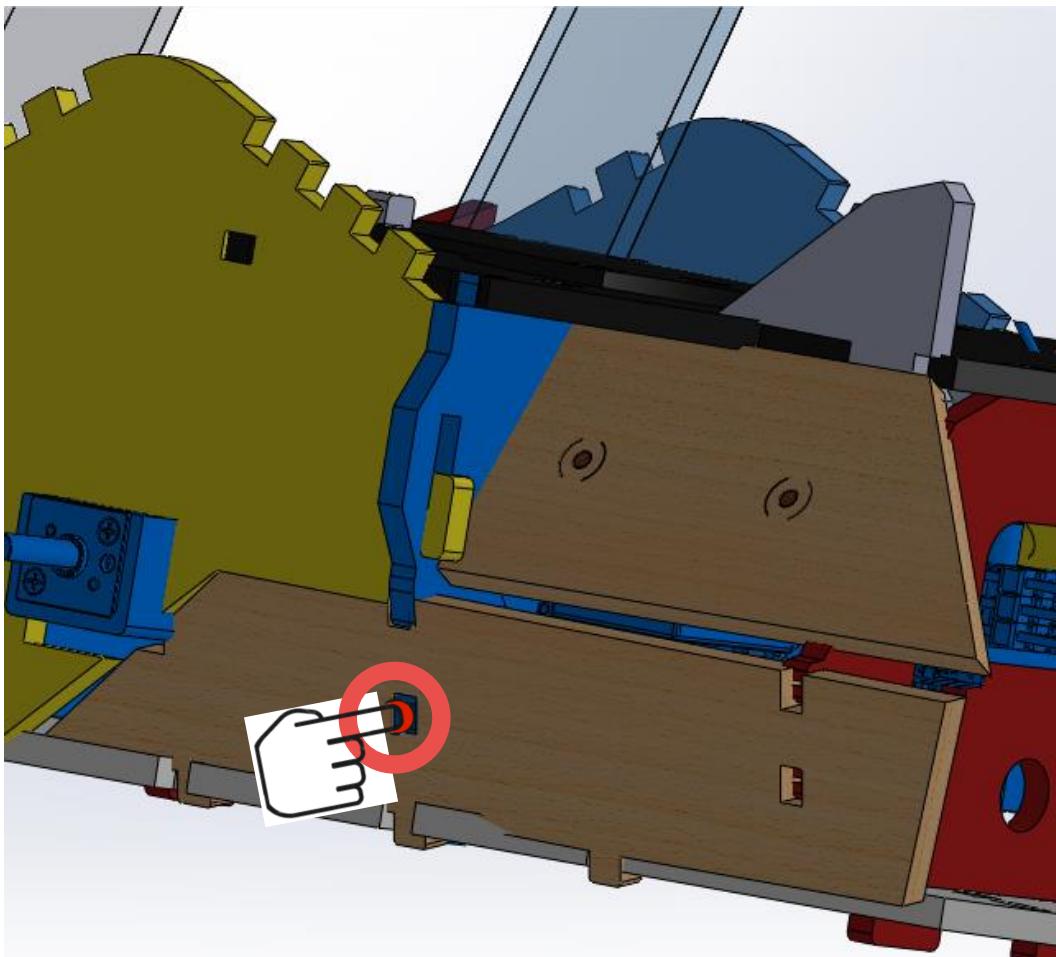
Mettre d'abord les inserts



2

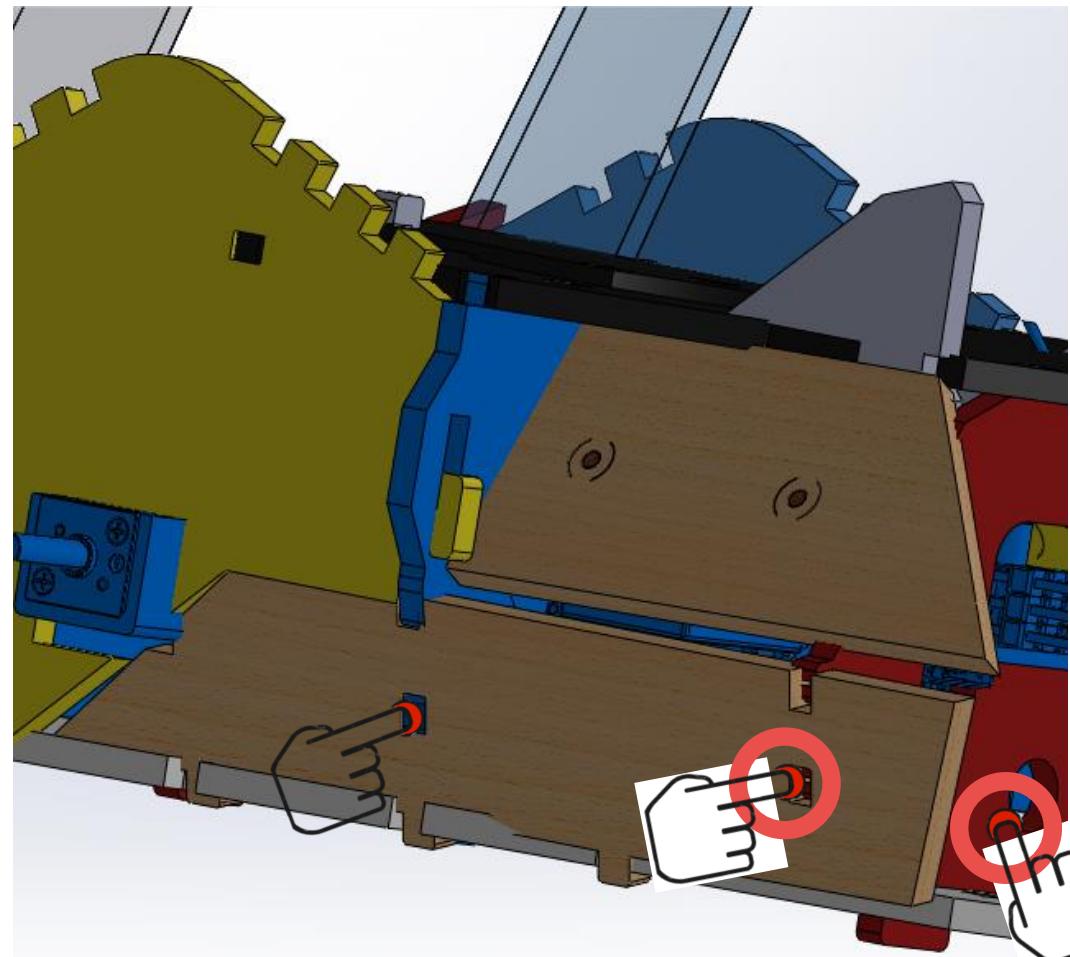
puis faire pivoter

# Commencer par le côté gauche



3

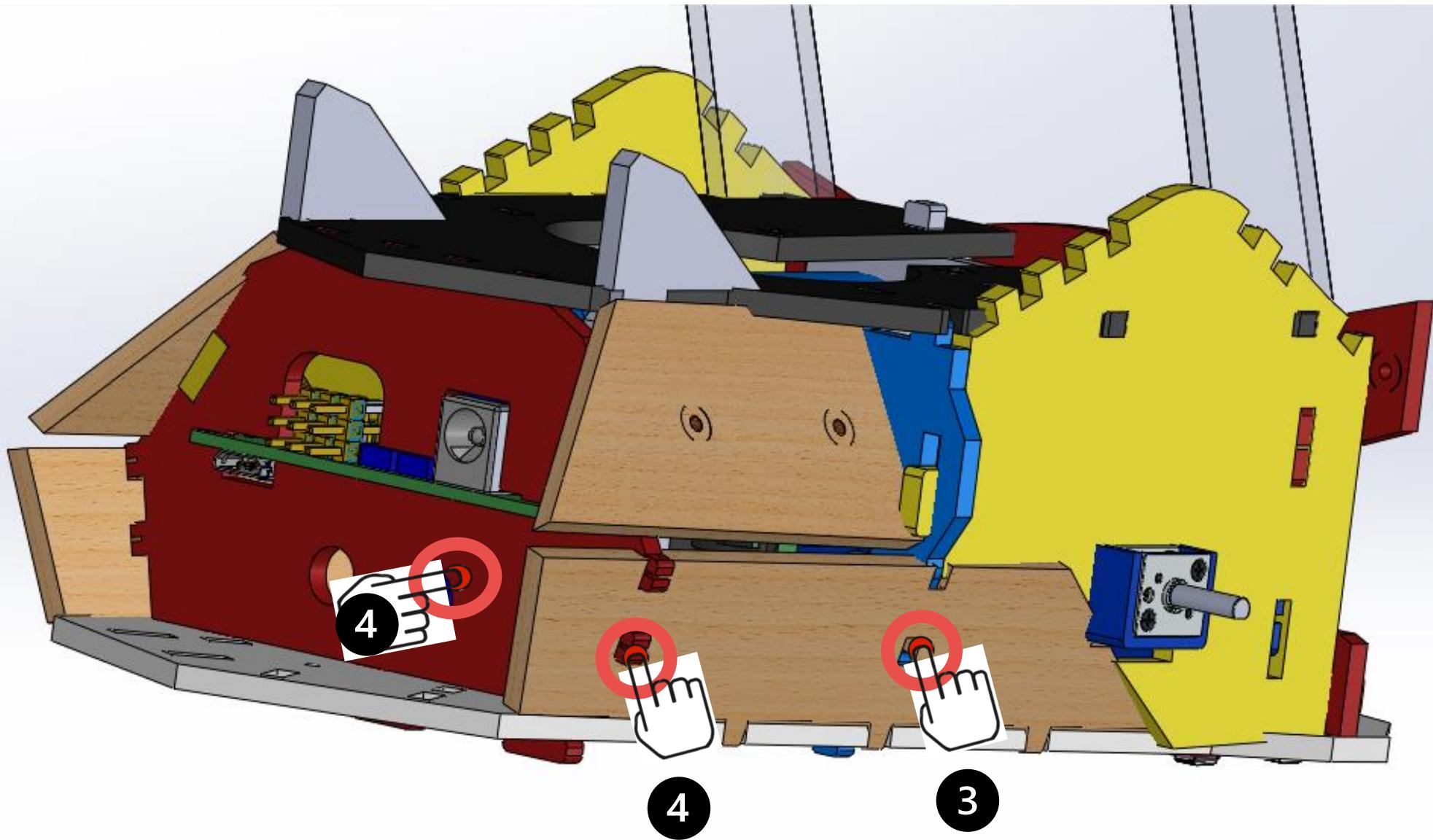
Appuyer ici pour aider à rentrer



4

Appuyer ici pour aider à rentrer (continuer à appuyer au point 3 )

# Idem de l'autre coté

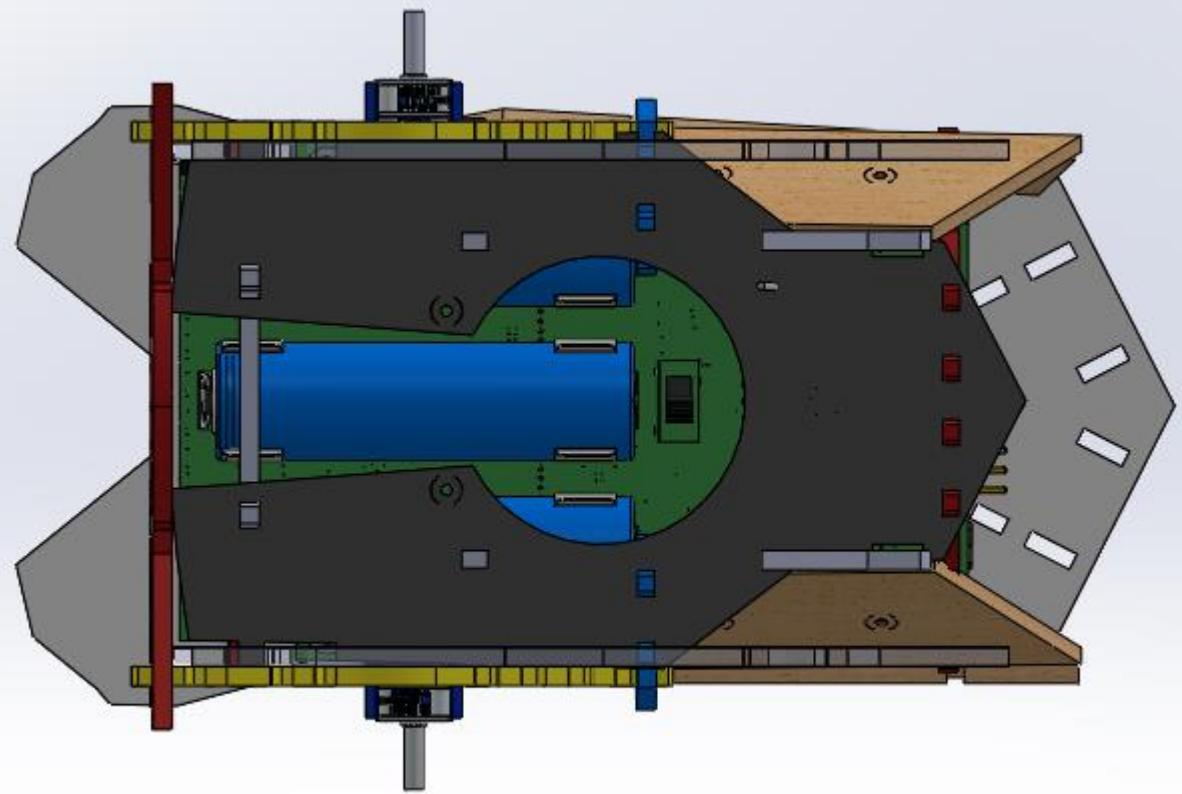
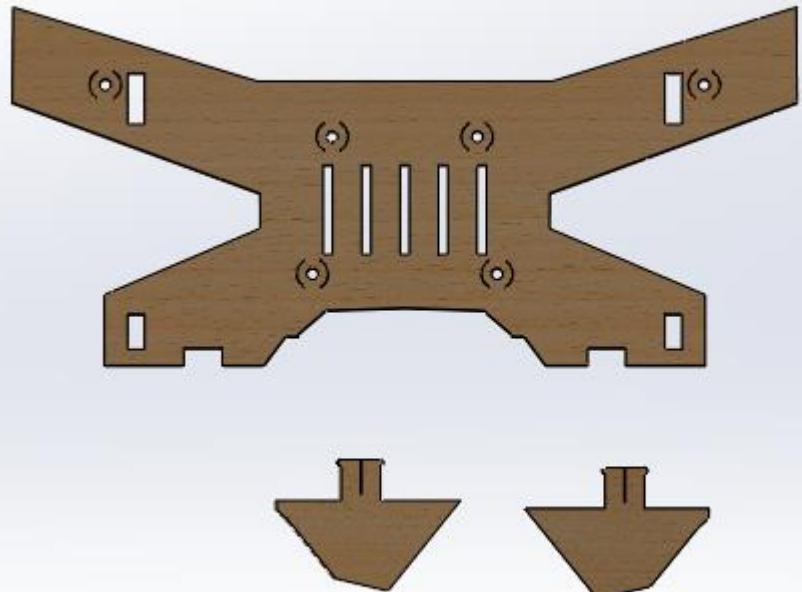
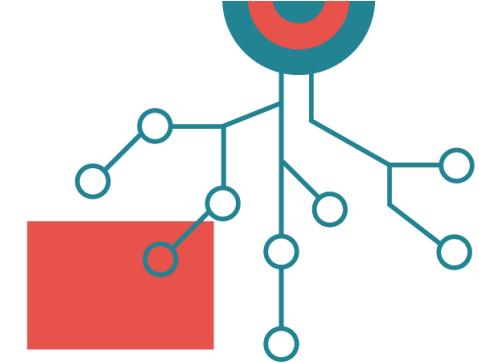


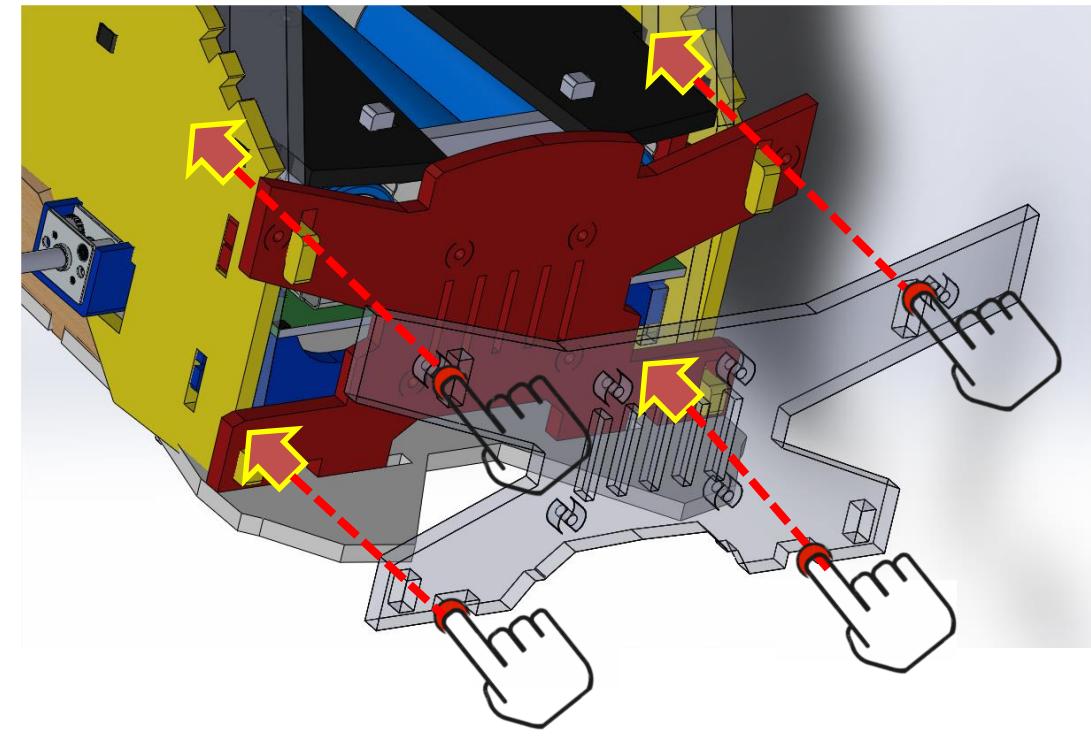


# ASSEMBLAGE

du

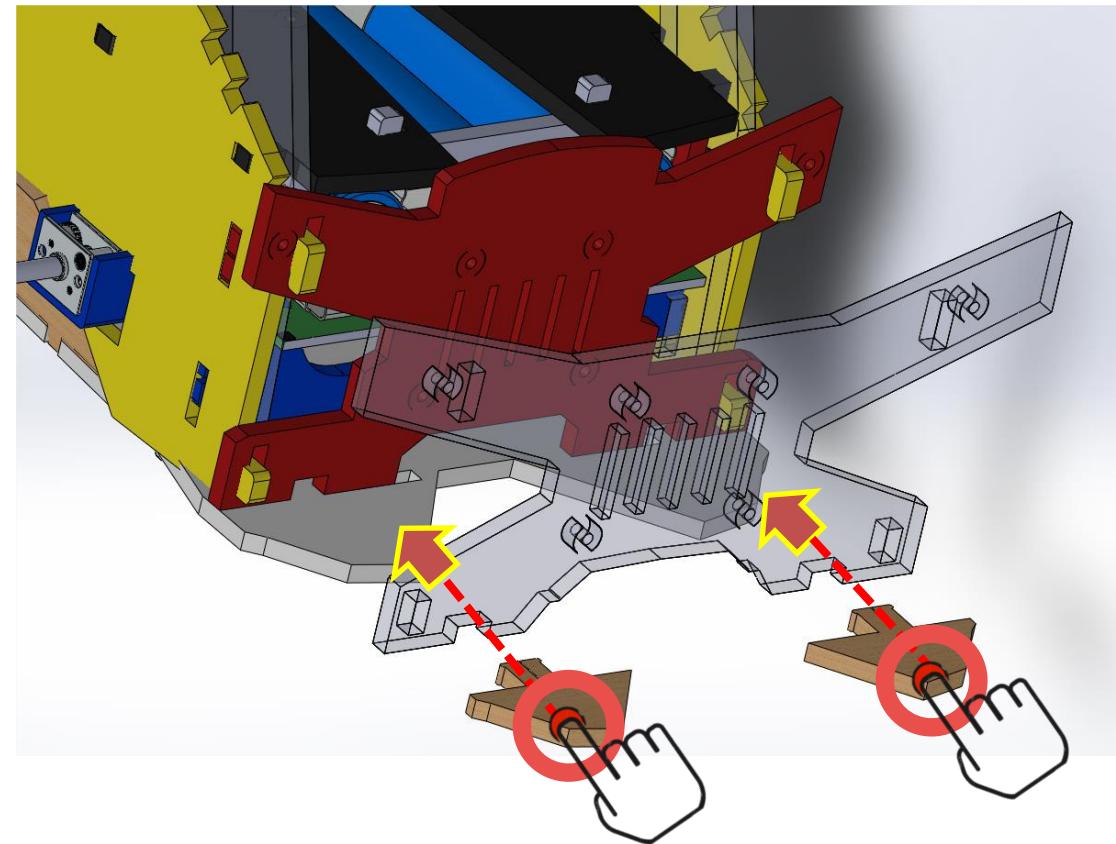
# X AVANT





1

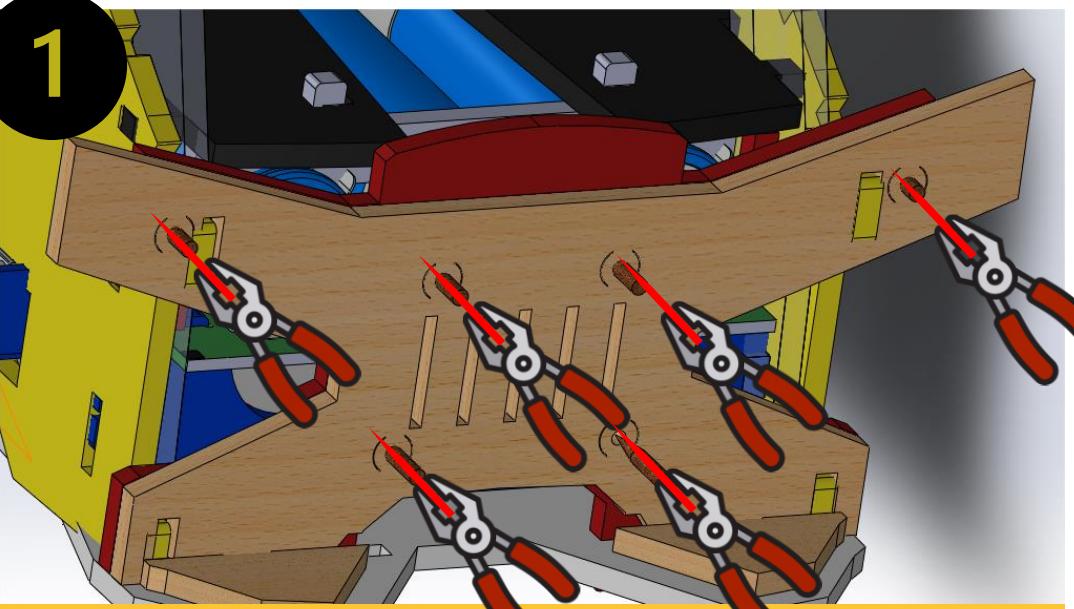
Mettre le deuxième X avant



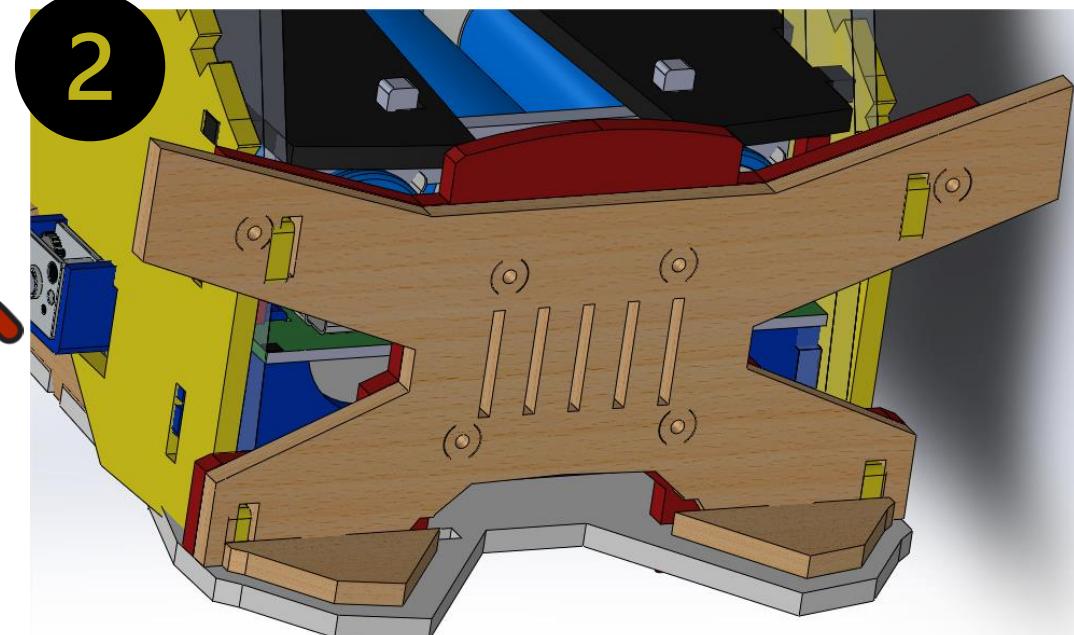
2

Mettre les pieds avant, en force

1

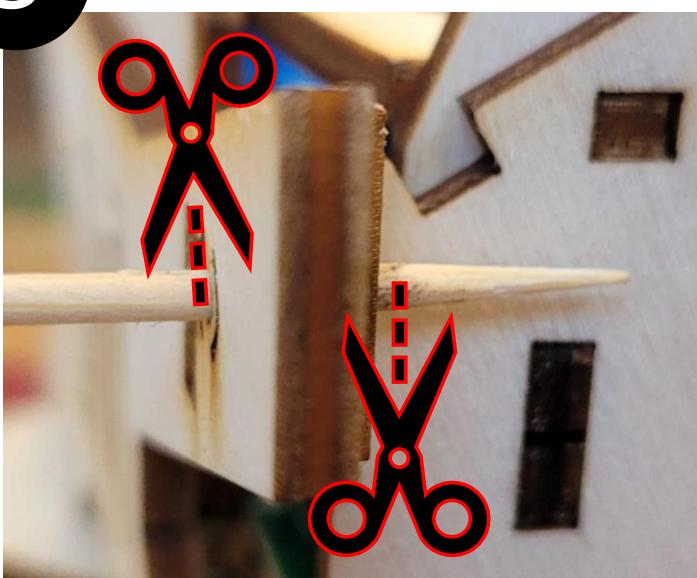


2



Insérer 6 cure dents et coupez à raz

3

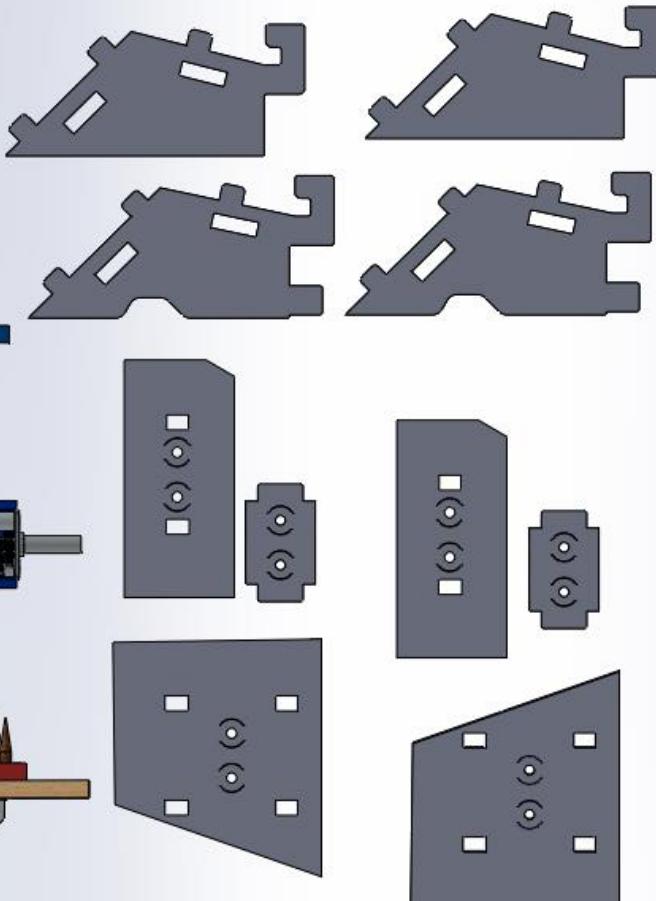
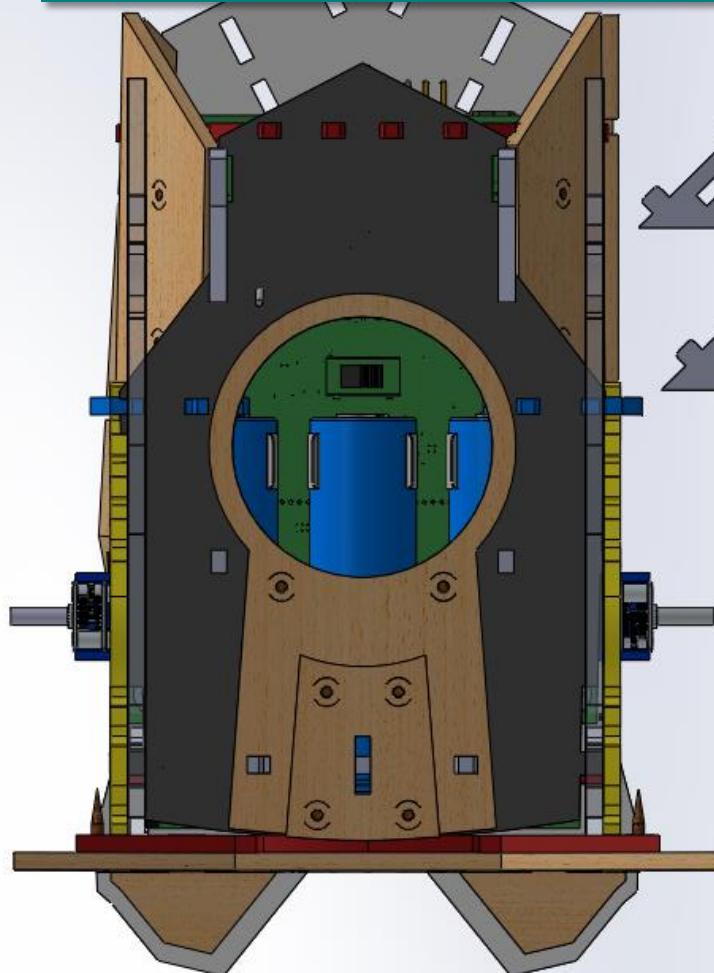


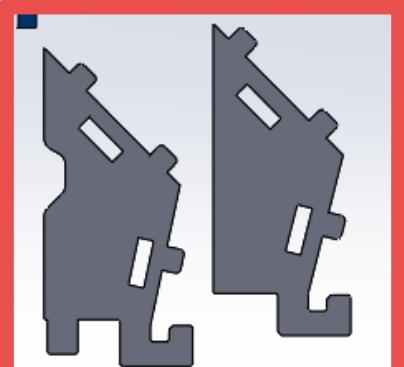
Couper les 2 cure dents ici de part et d'autre

# ASSEMBLAGE

DU

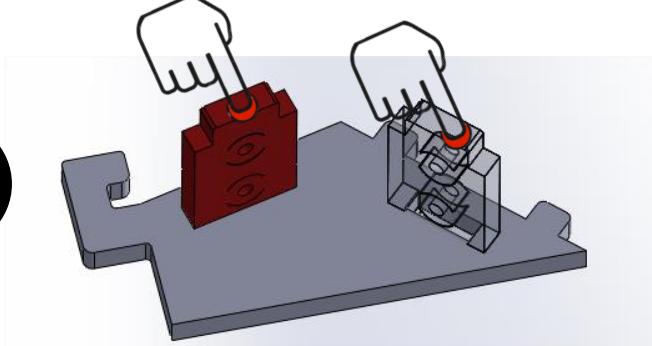
## NEZ ARRIERE



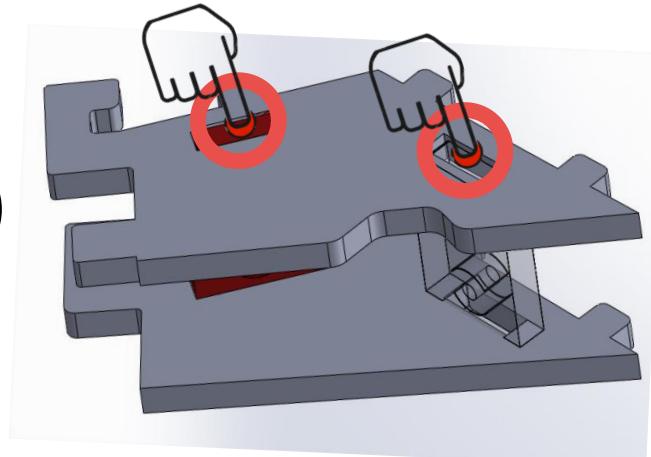


!/\ 2 pièces différentes

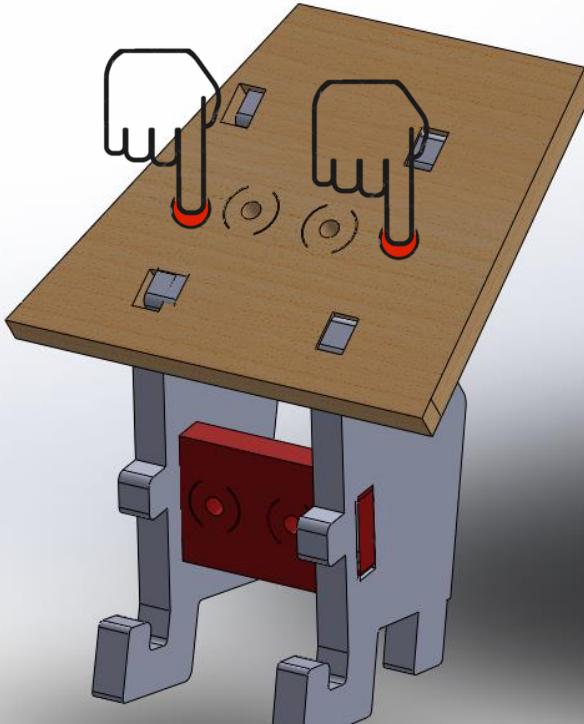
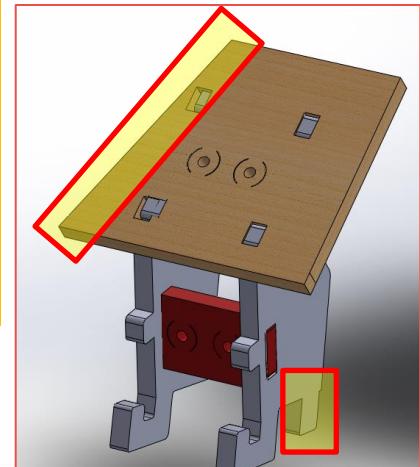
1



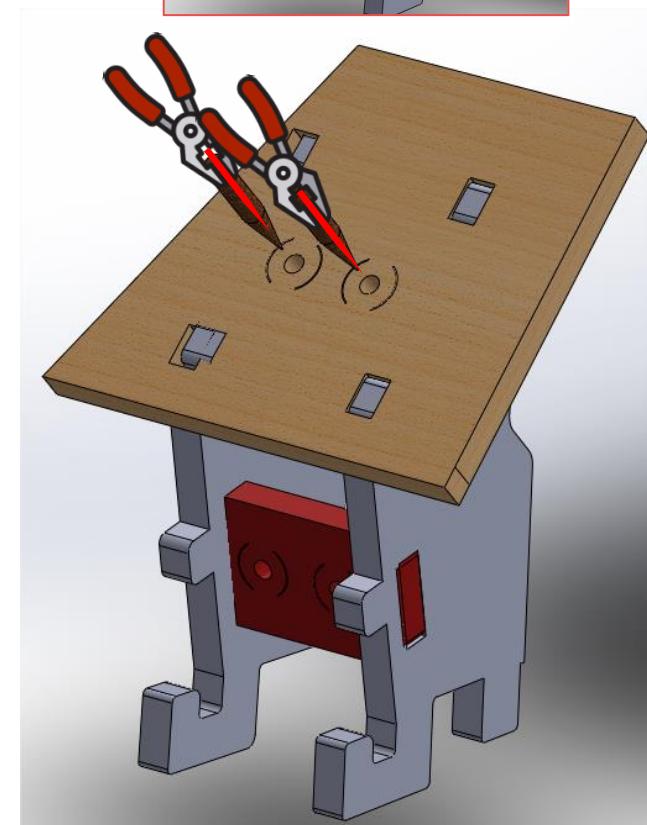
2



Attention au sens  
du capot :  
pied à l'opposé de  
la pente



3

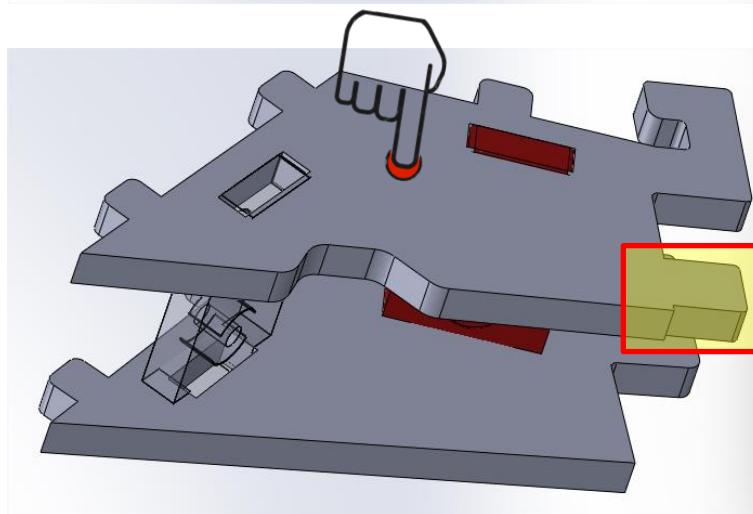
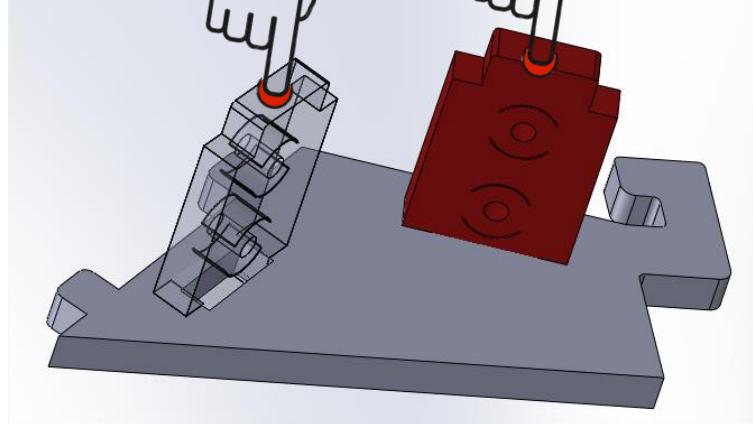


4

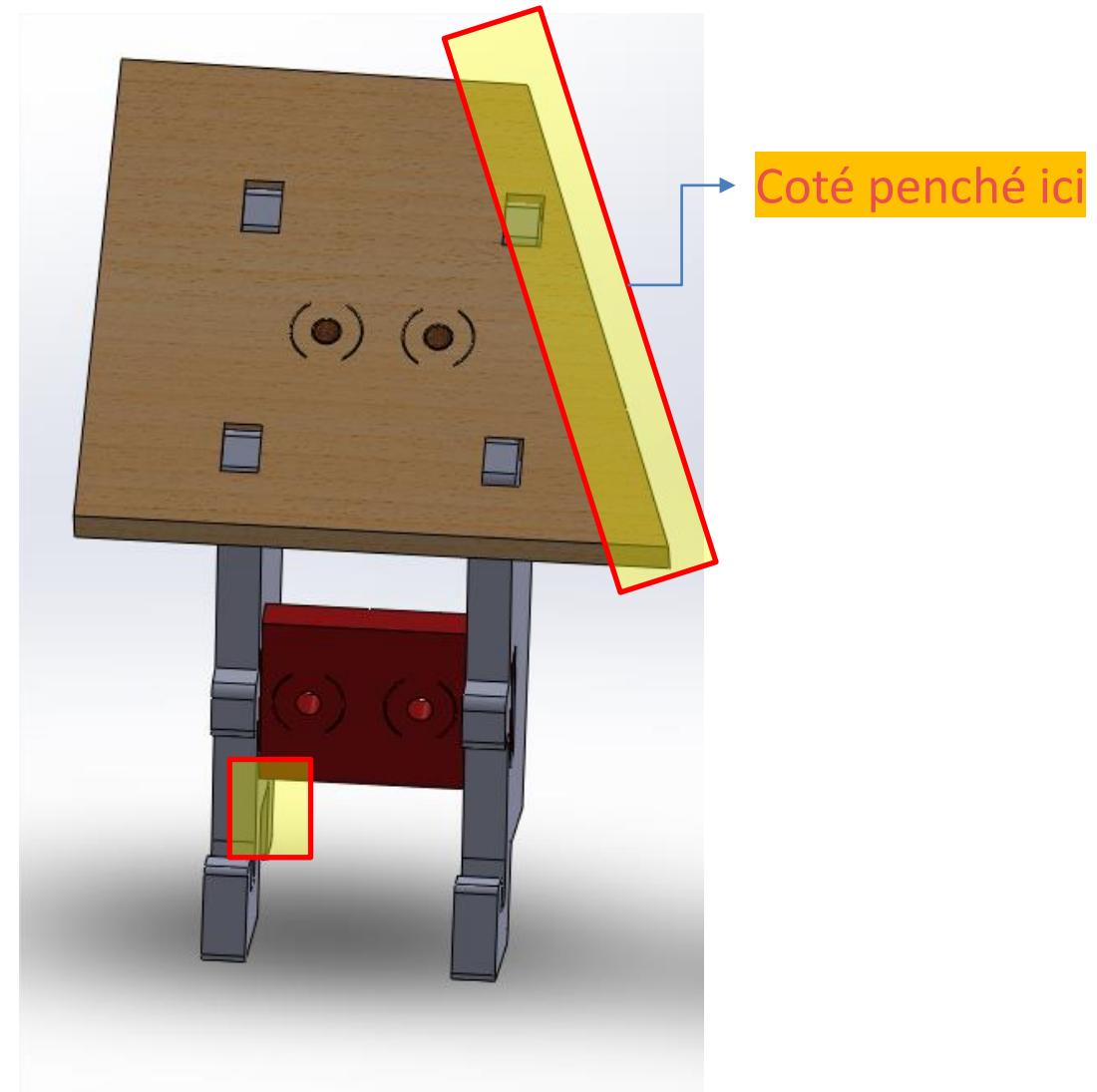


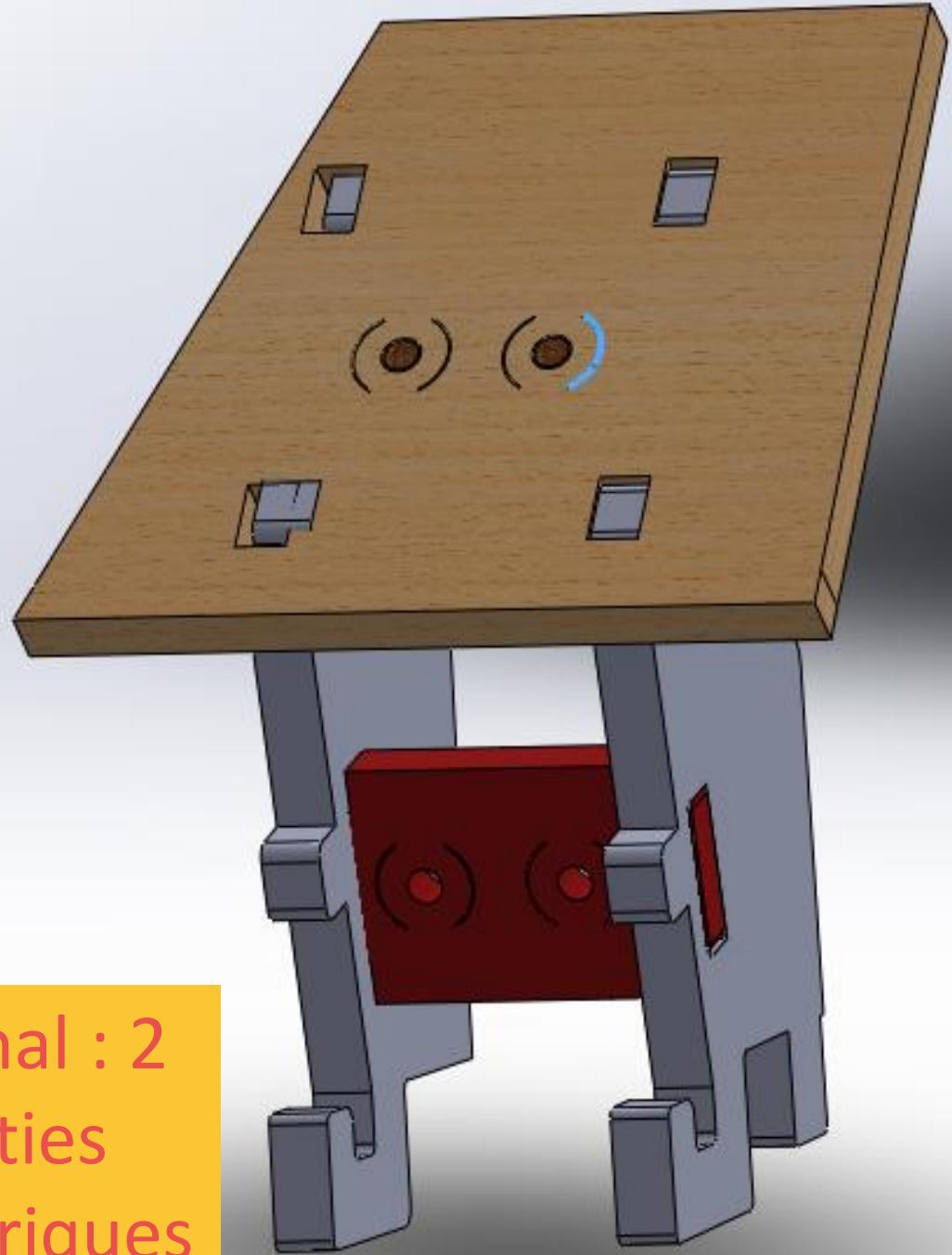
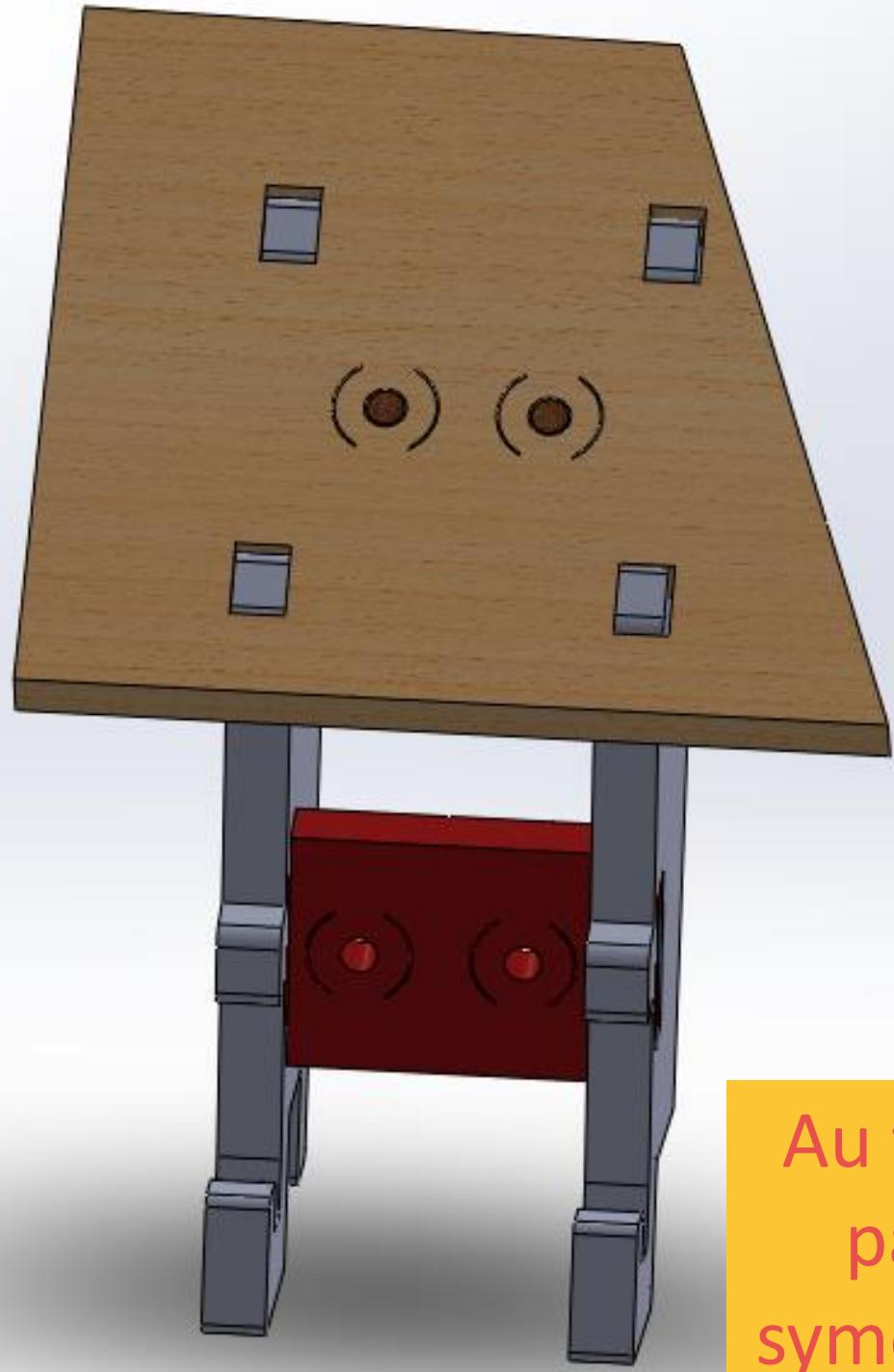
poser à plat et enfoncer

Idem de l'autre côté, en symétrique.  
Mais attention au sens du capot

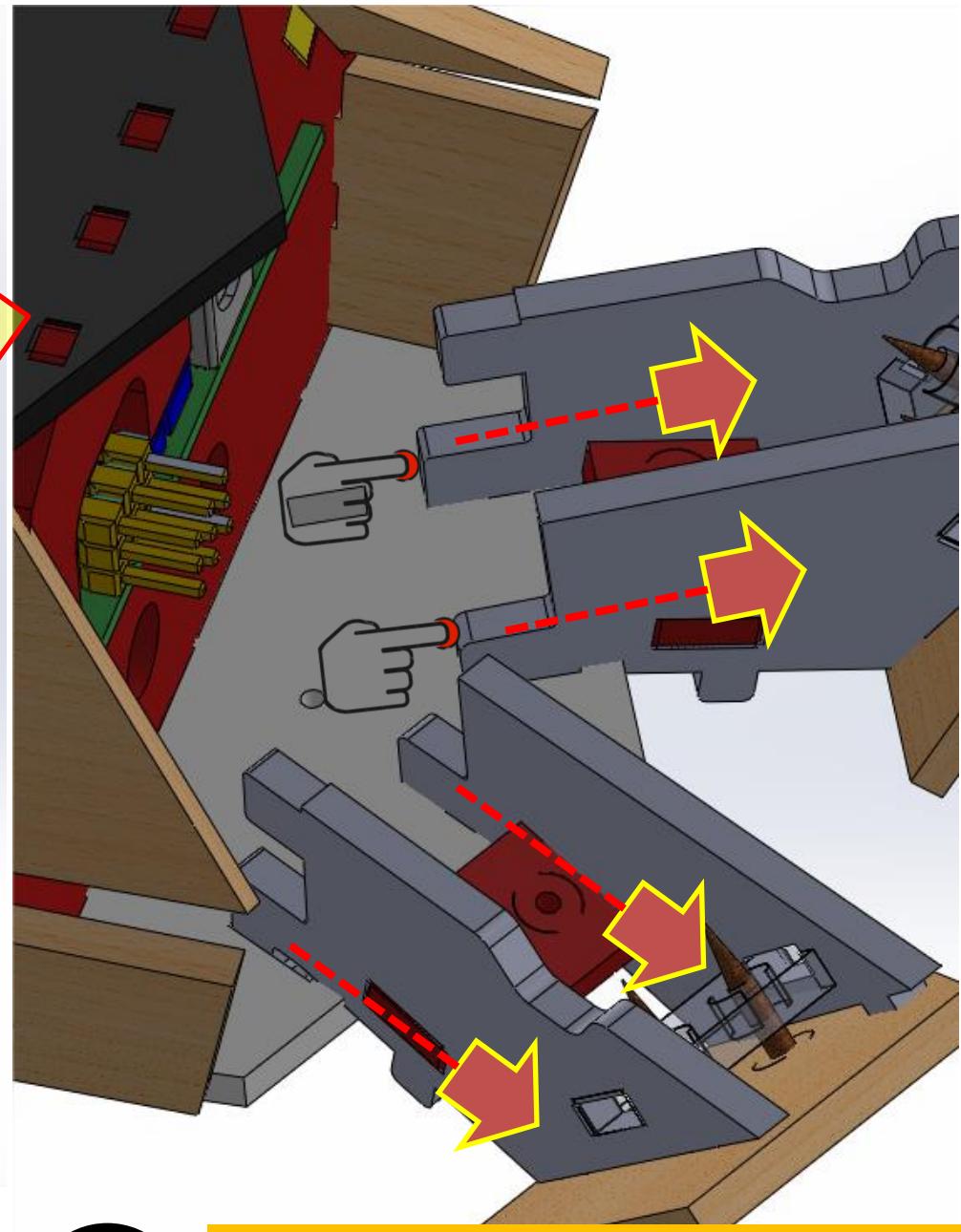
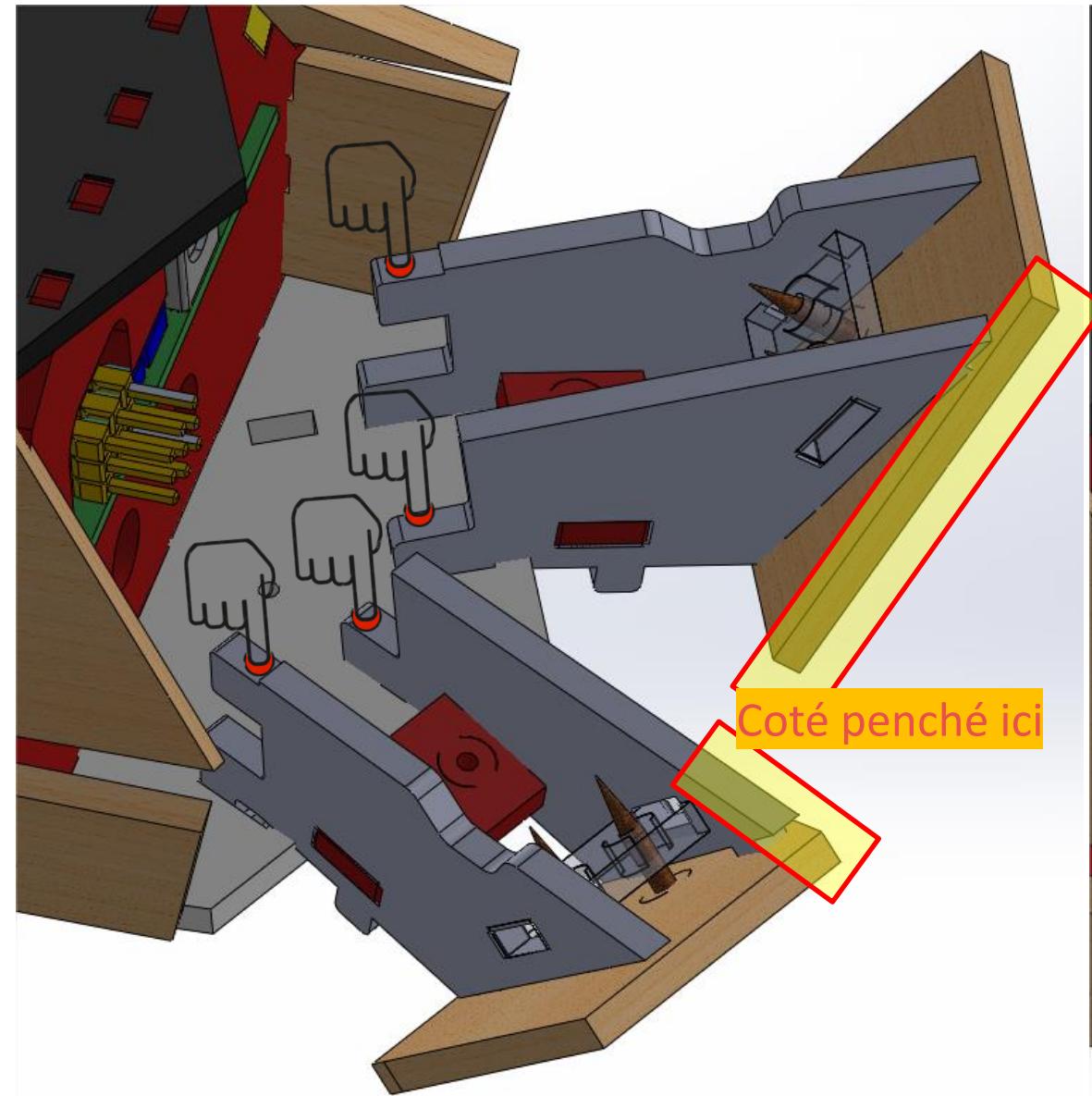


poser à plat et enfoncer





Au final : 2  
parties  
symétriques



1

Insérer parallèle au sol

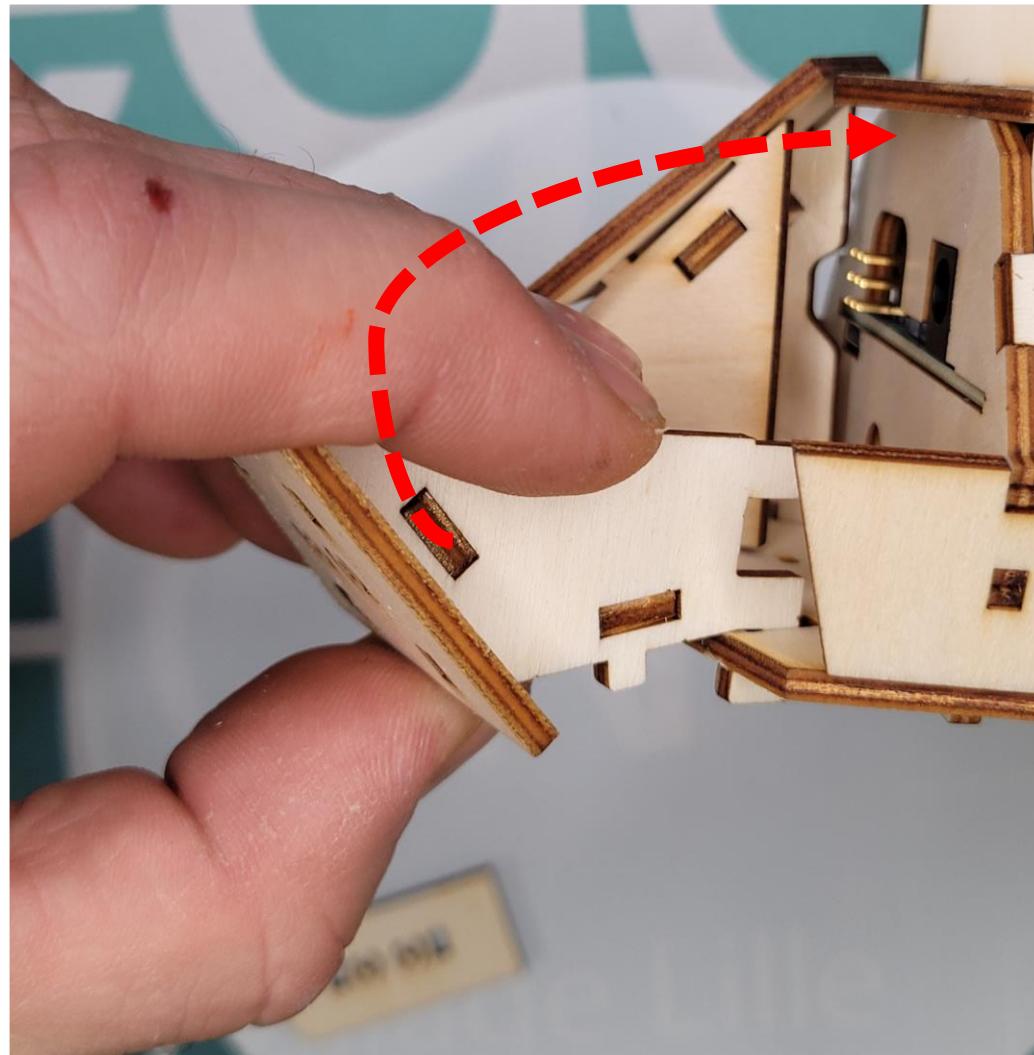


2

puis faire glisser au max

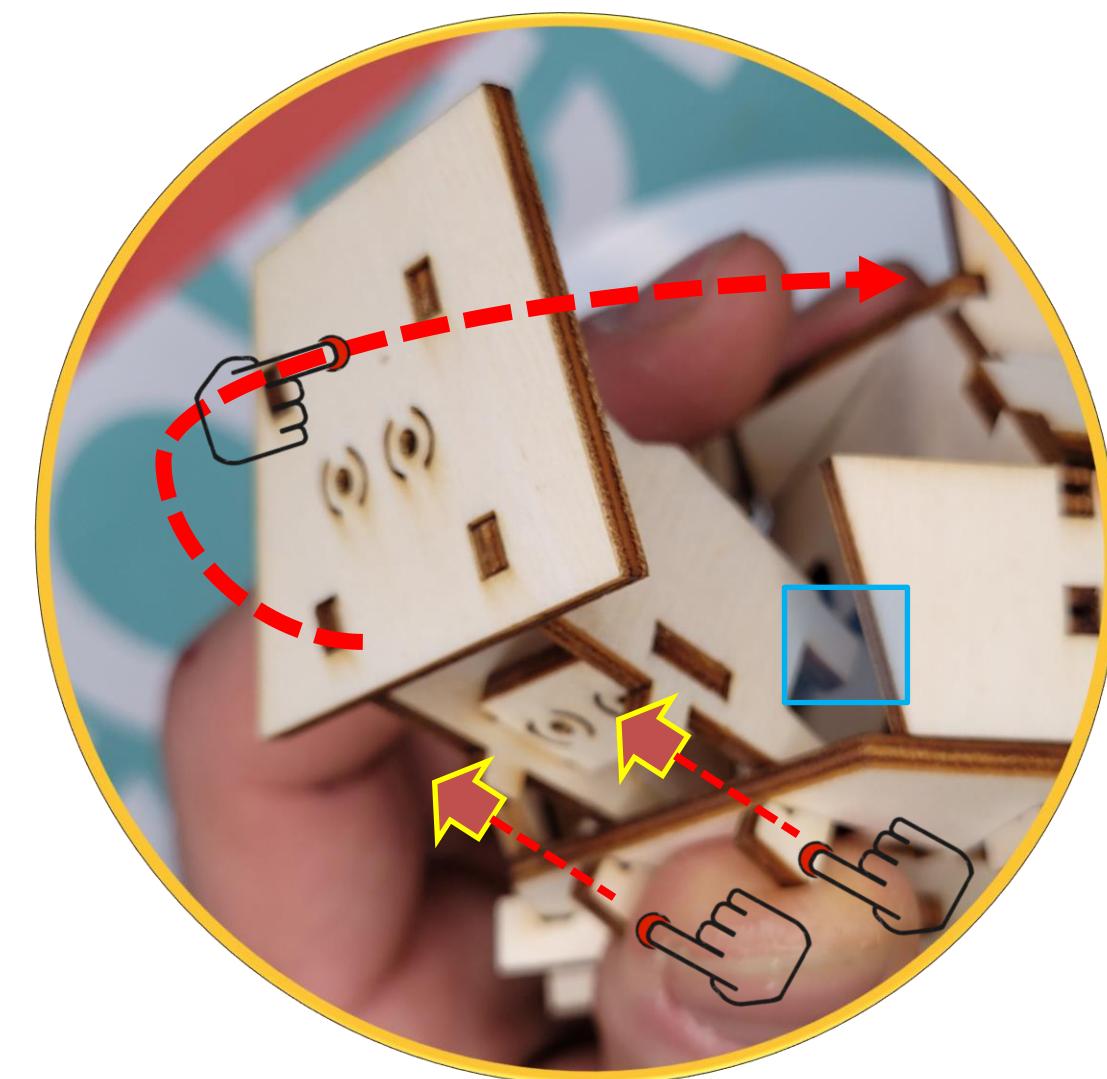
1

faire pivoter de 90° délicatement  
sans forcer



2

jusqu'à faire rentrer le pied (bleu)  
dans le châssis

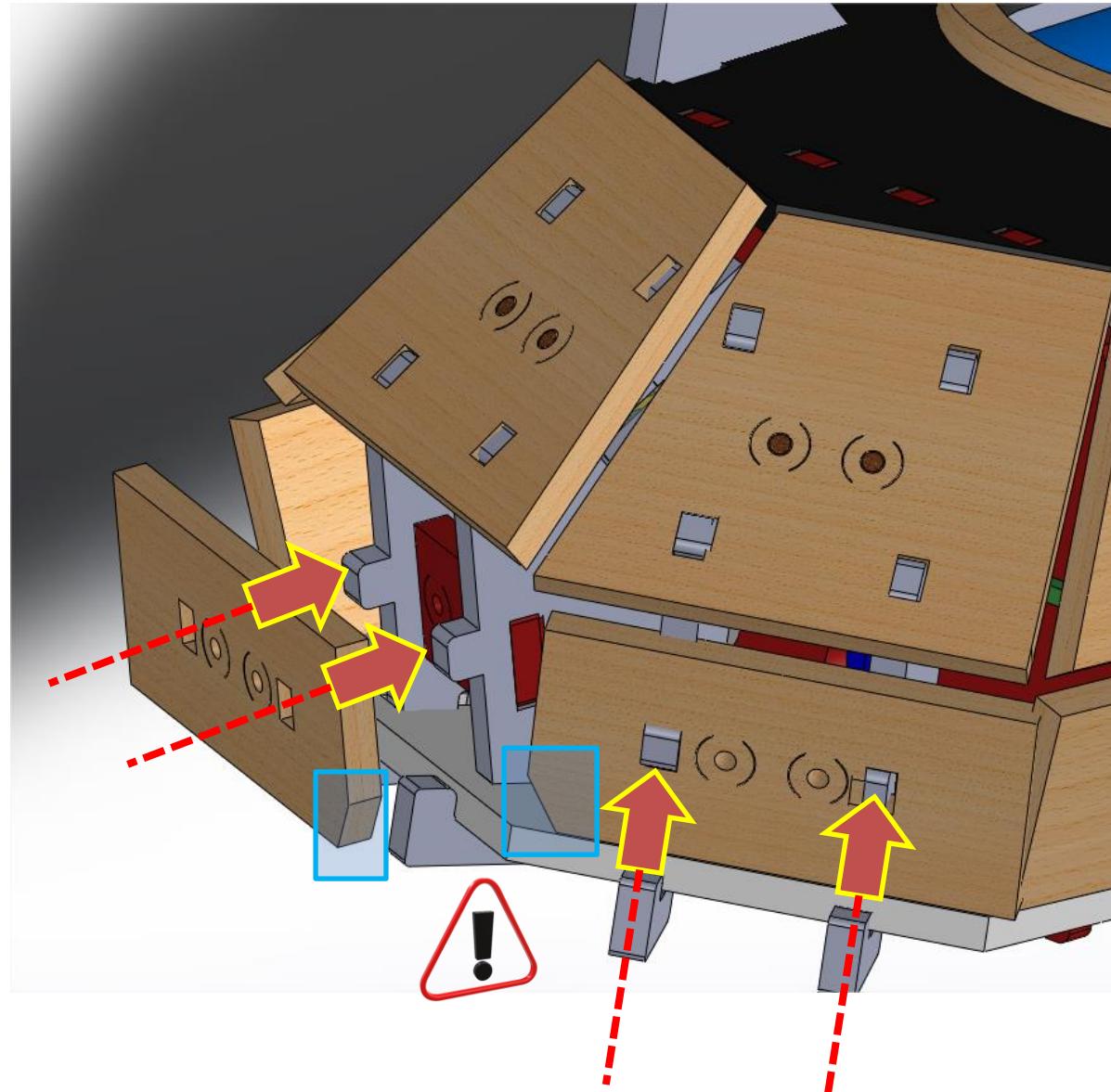
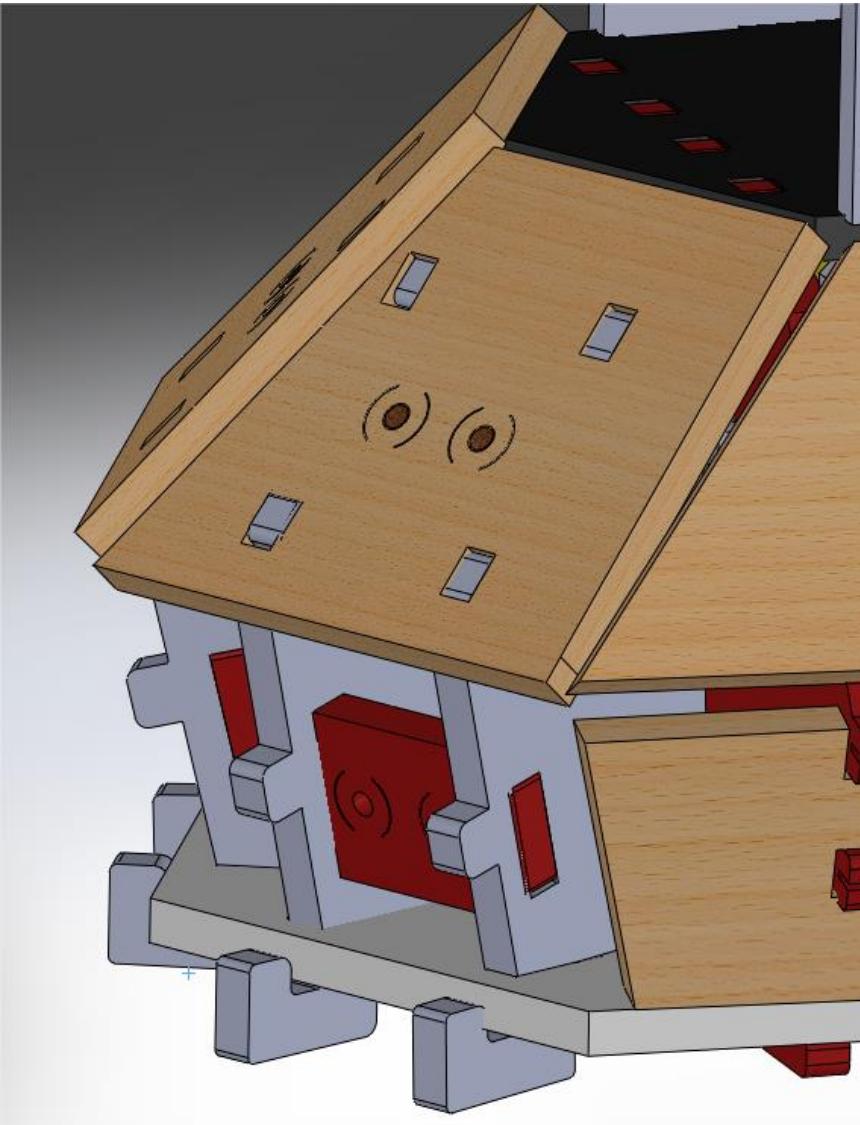


1

## Ajouter les capots

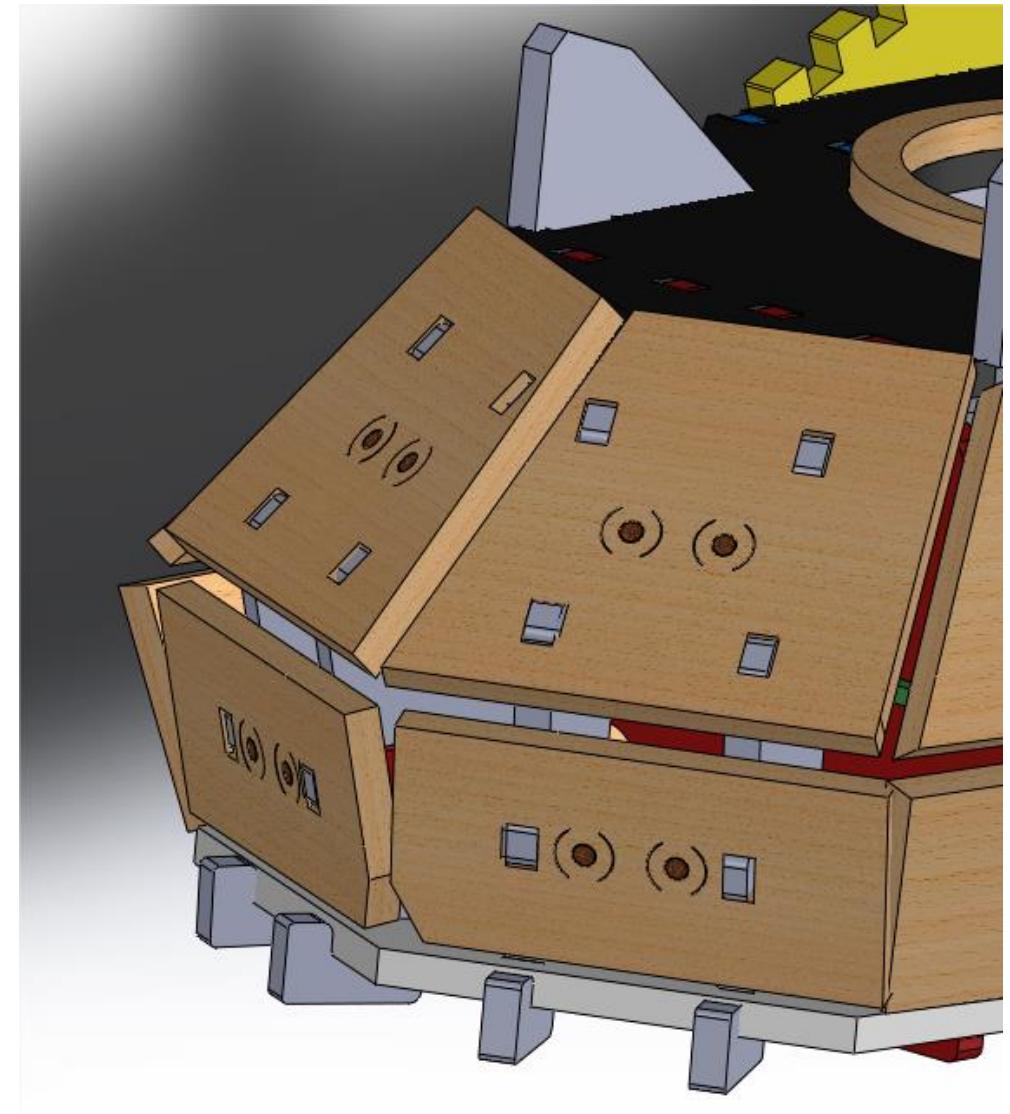
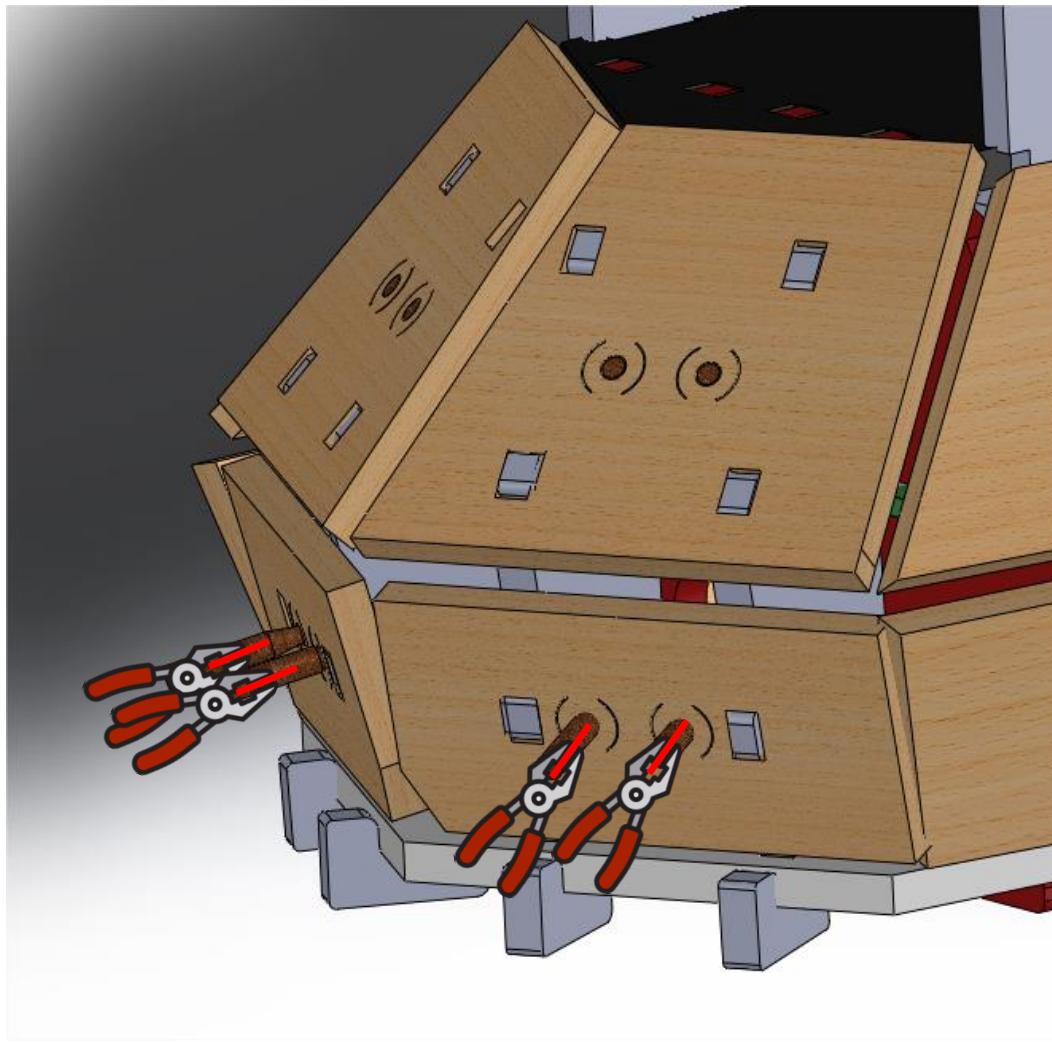


attention au sens , détrompeur en bleu



3

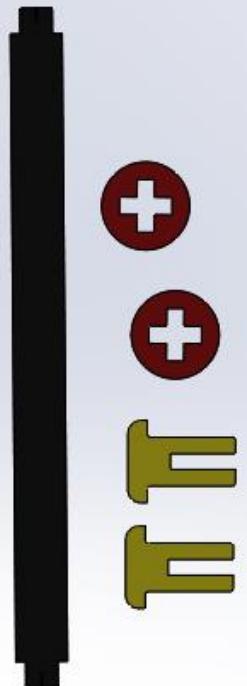
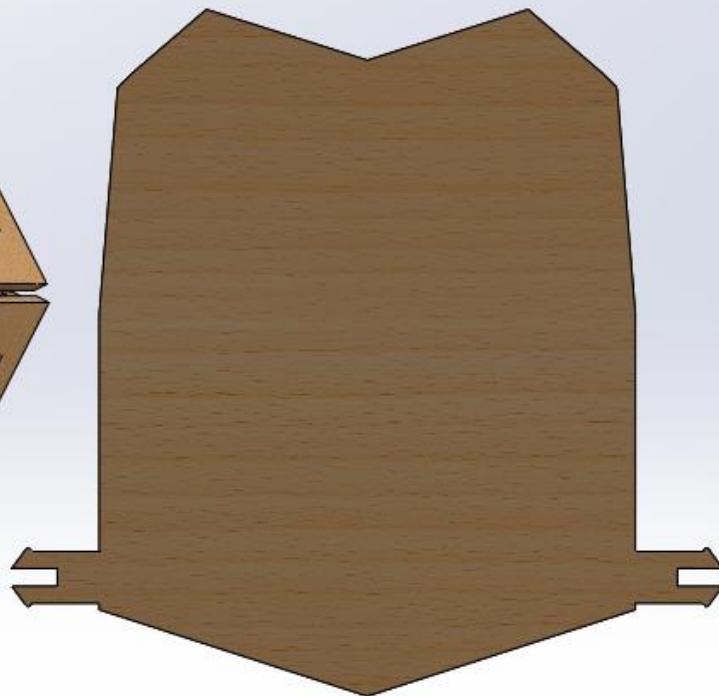
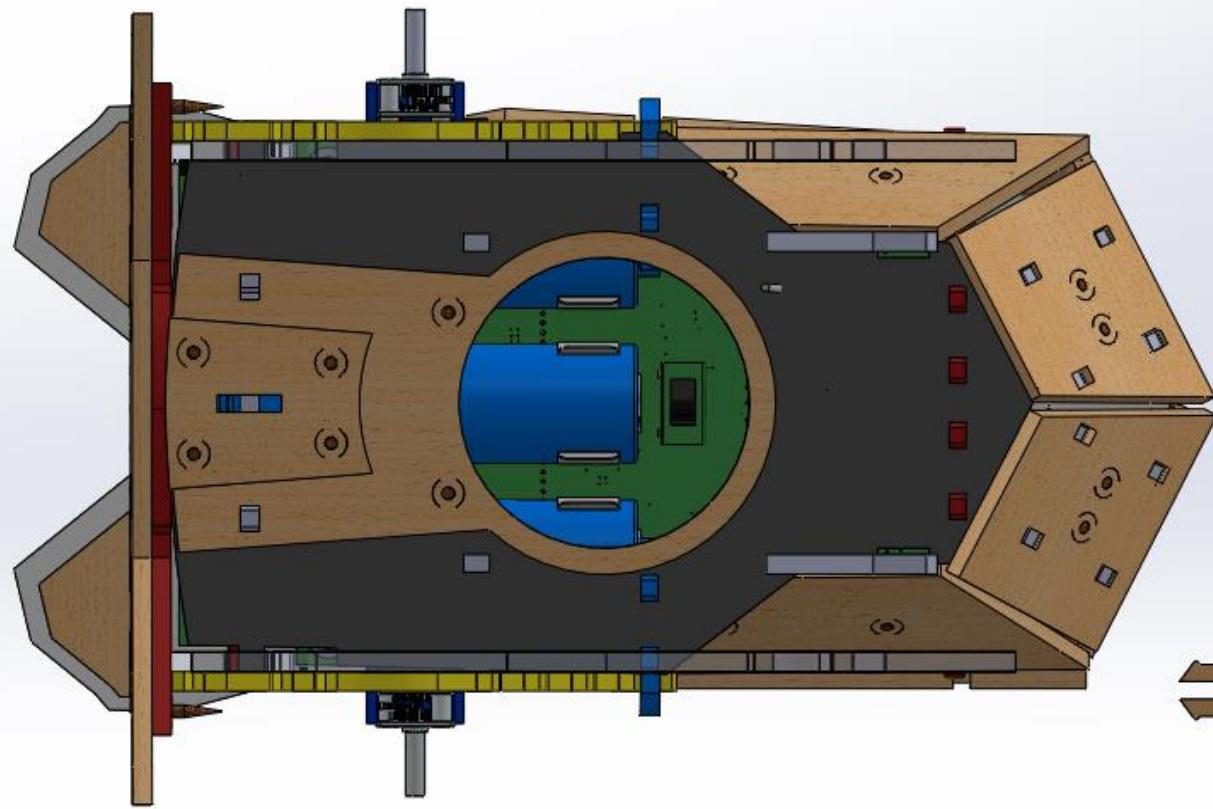
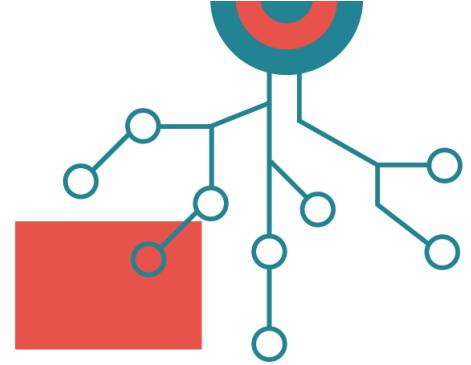
## Insérer 4 cure dents



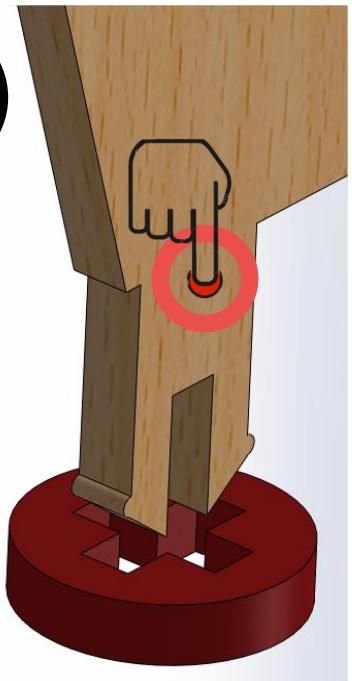
# ASSEMBLAGE

DU

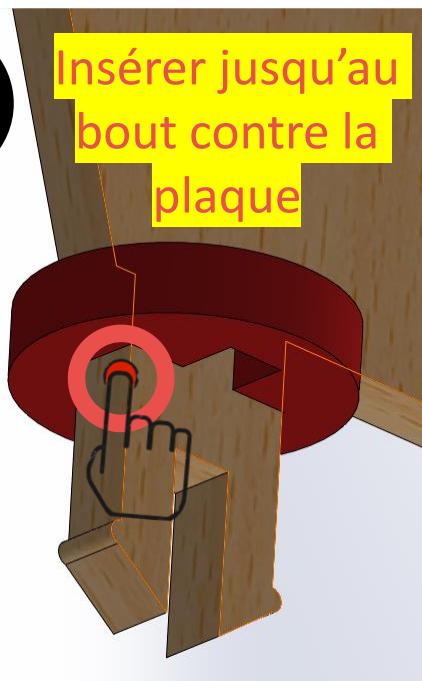
# PORTE TAG



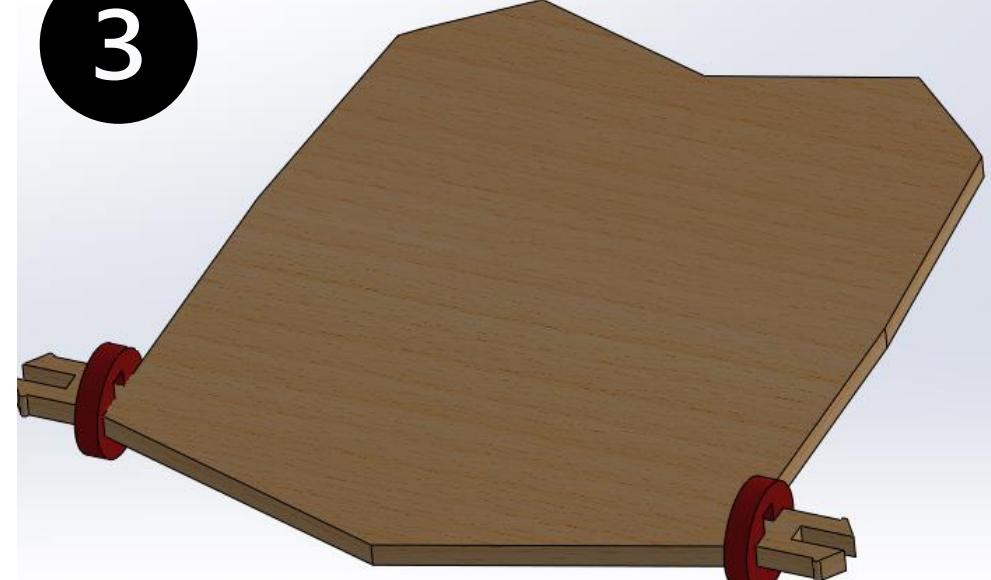
1



2



3



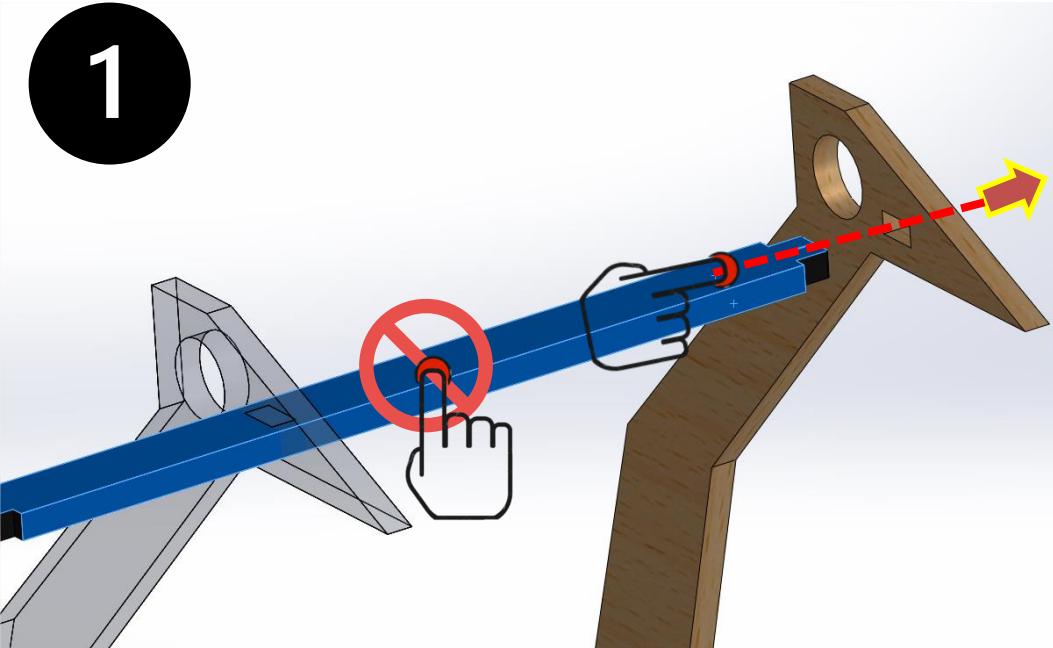
poser à plat et enfoncer

Faire la même chose de l'autre côté

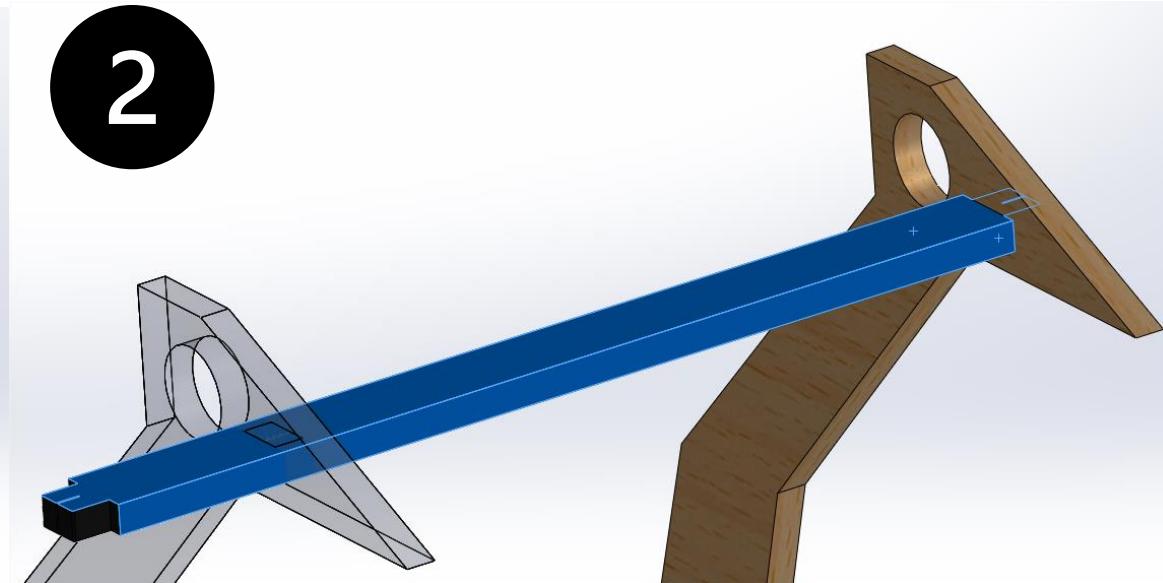


# Appuyer en force progressivement !

1



2

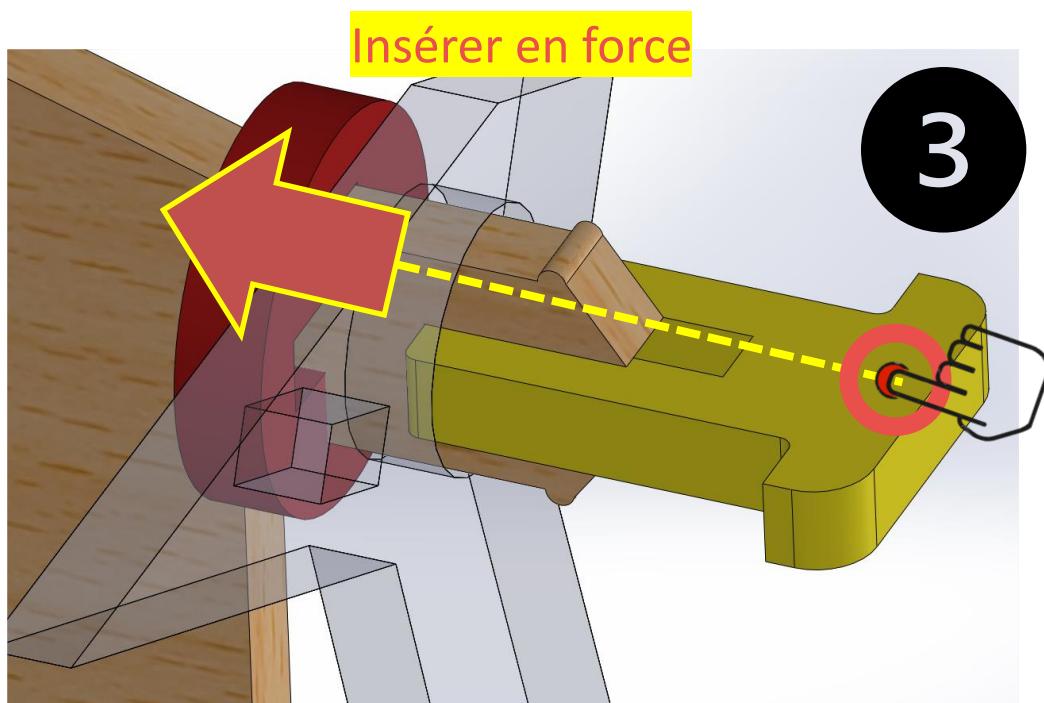
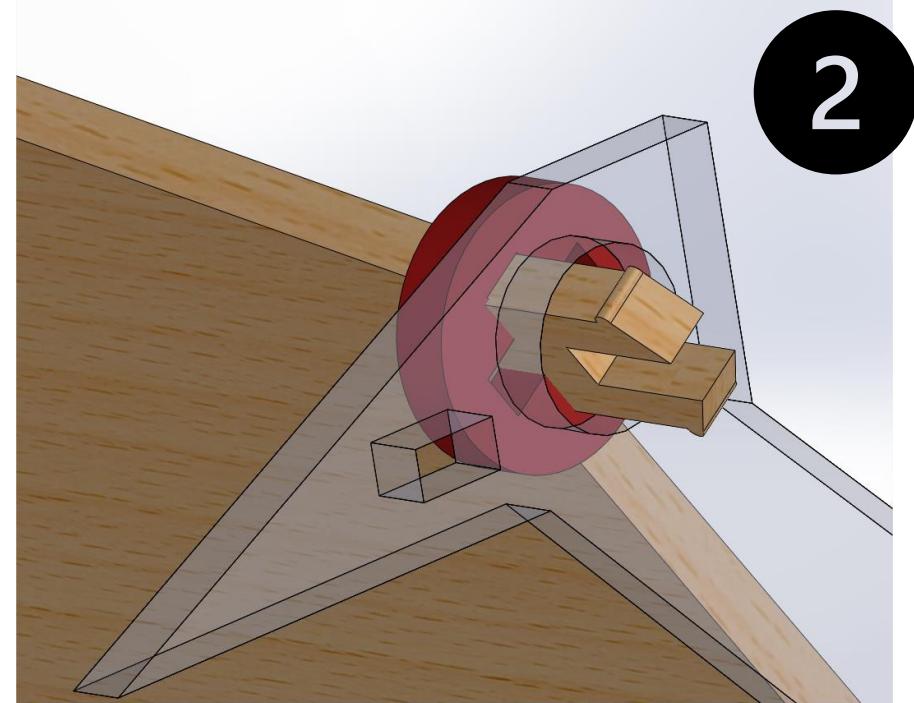


3

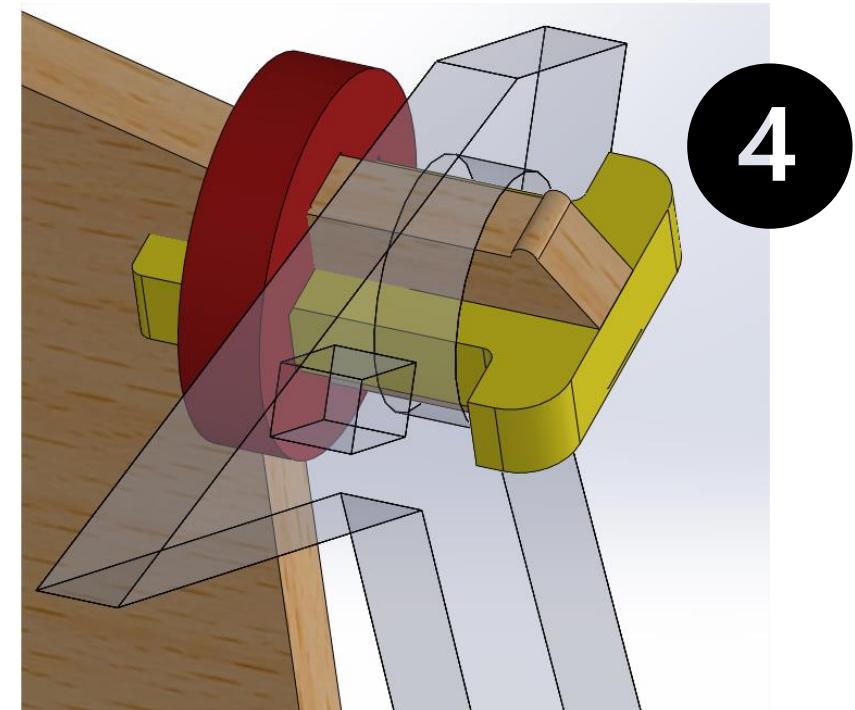
Faire la même chose de l'autre côté



La pointe de la planche en direction de la  
pointe du robot (arrière)



+ faire idem de l'autre coté

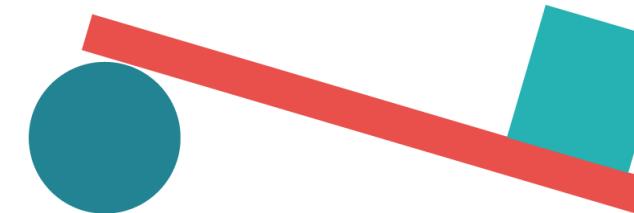
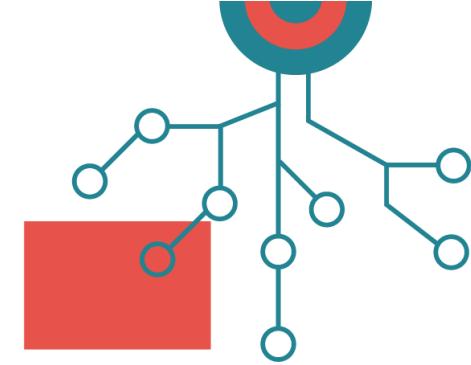


# APPELEZ- NOUS

pour que l'on  
valide votre  
montage avant  
de continuer !!



# ASSEMBLAGE DES ROUES



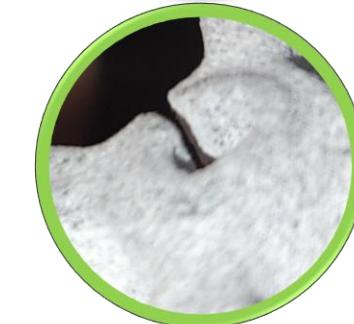
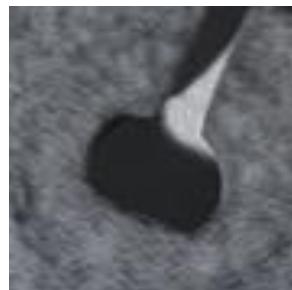
# AIDE POUR LA SUITE

1

Mettre le robot sur le coté, posé sur 2 pneus pour ne pas exercer de pression sur l'axe du moteur



2



Positionner la roue avec la partie bombée vers le coté moteur  
+  
le méplat de la roue en face du méplat de l'axe du moteur

3

Insérer le tournevis jusqu'à la fente puis le tourner pour effectuer une torsion



4

Insérer le trou de la roue dans l'arbre du moteur, en maintenant la fente en torsion à l'aide du tournevis jusqu'à ce que l'axe du moteur ressorte légèrement



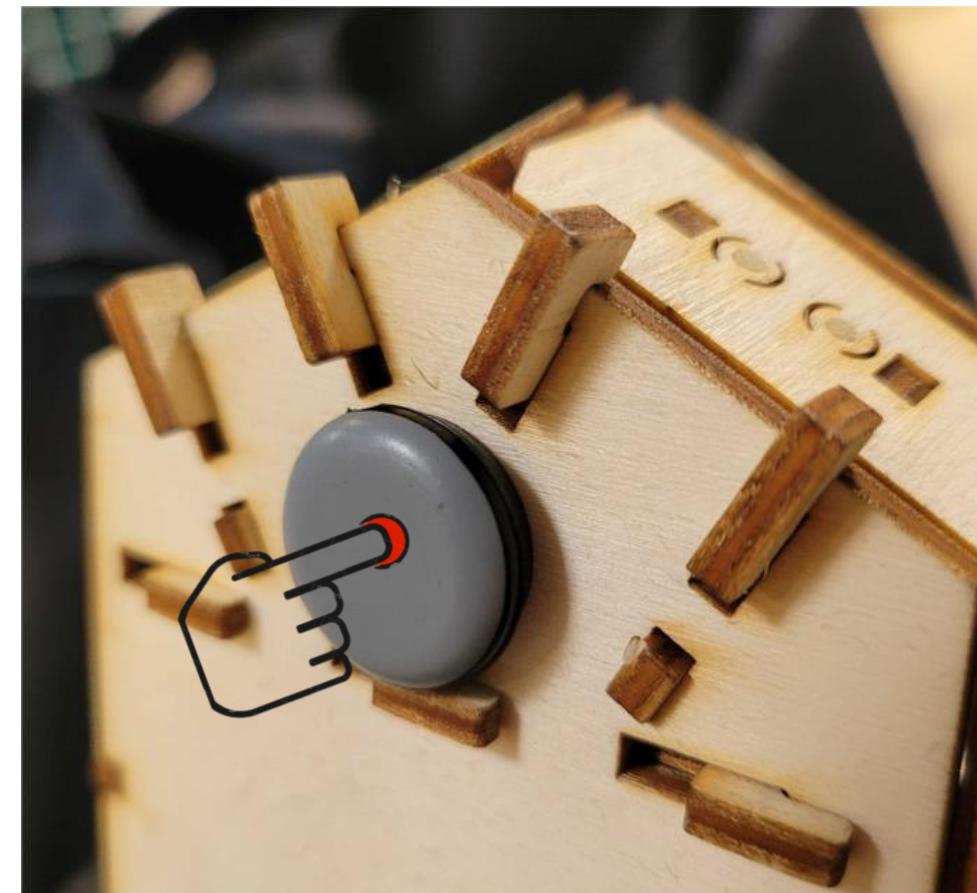
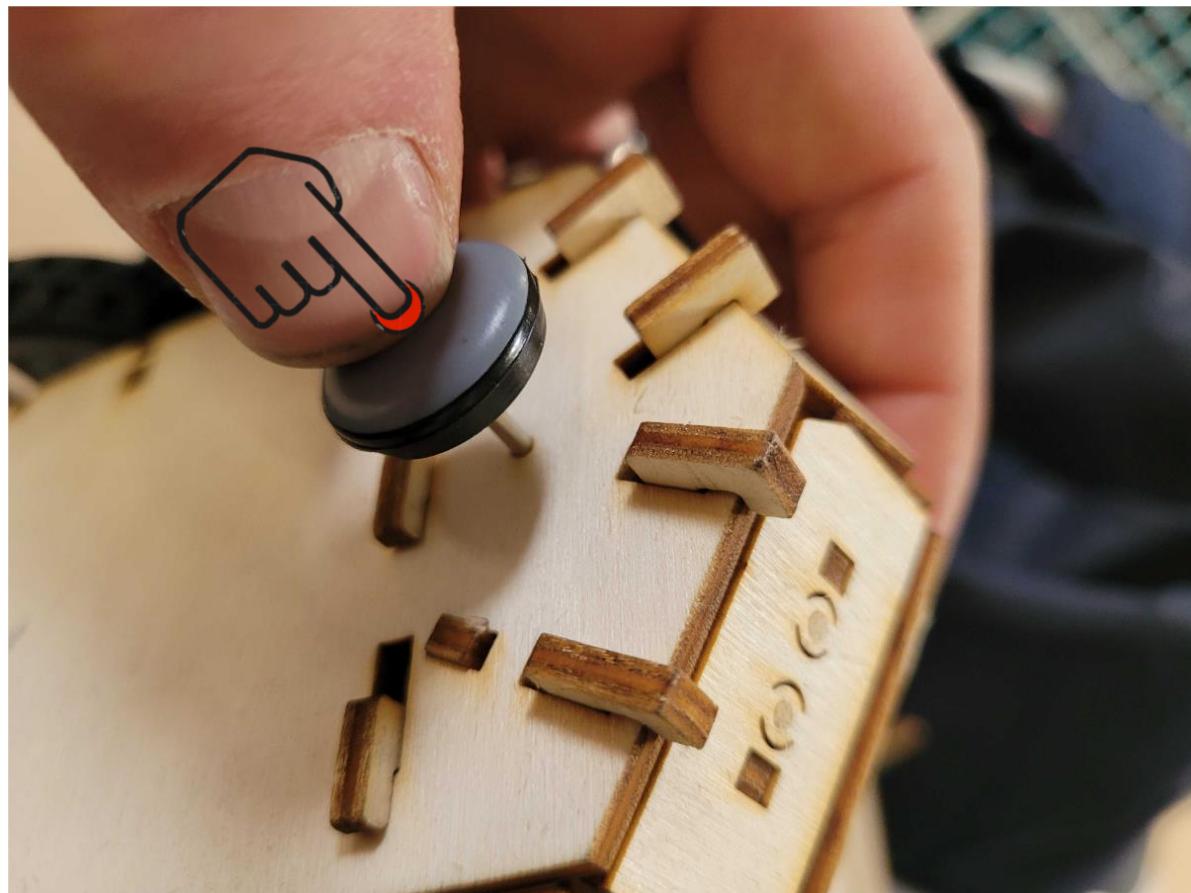
5



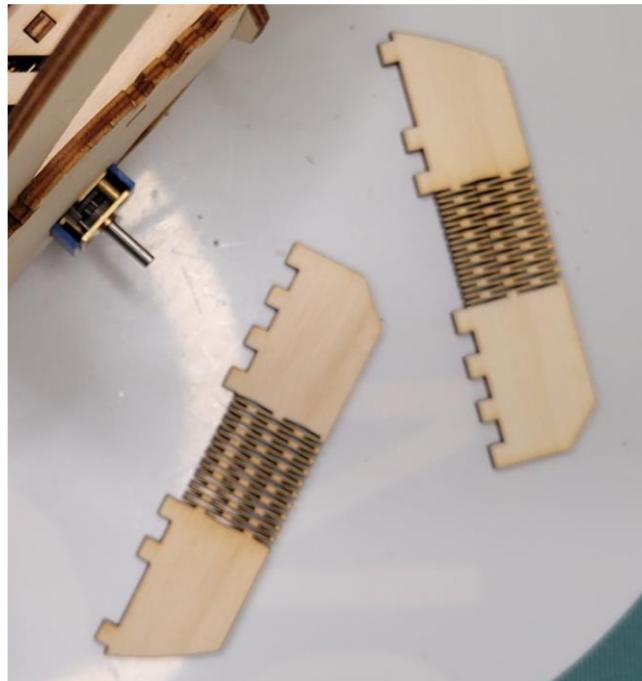
Monter le pneu  
+ Idem pour la seconde roue

Faites attention à ne pas avoir de zones du pneu mal insérée

# Ajouter le PATIN arrière



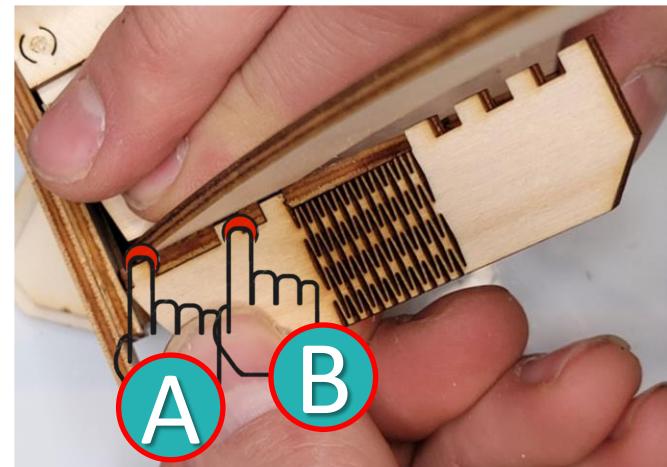
# ASSEMBLAGE DU GARDE-BOUE



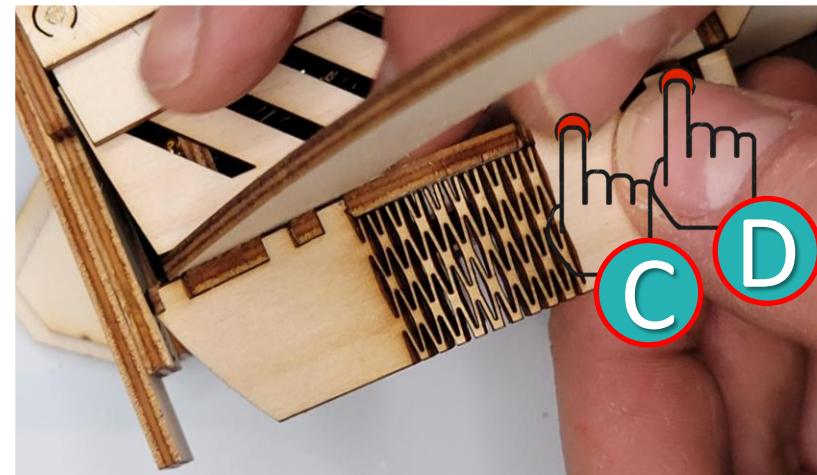


# Attention fragile

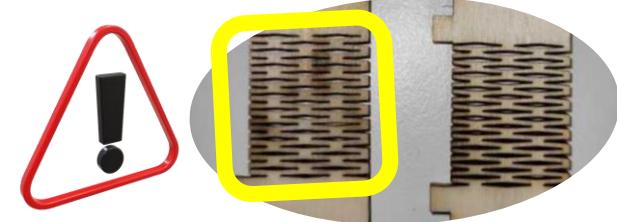
1



2



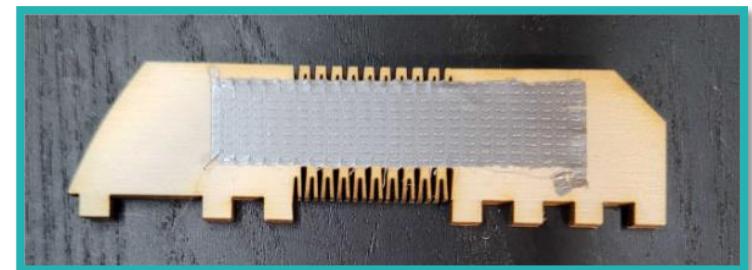
3



Plier le garde-boue en gardant la face avec des traces de brûlures à l'intérieur



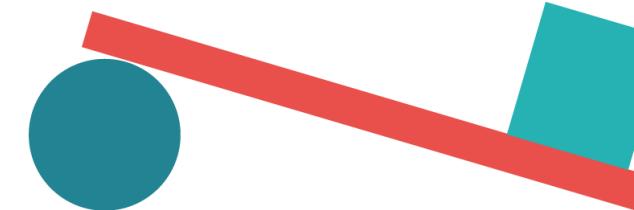
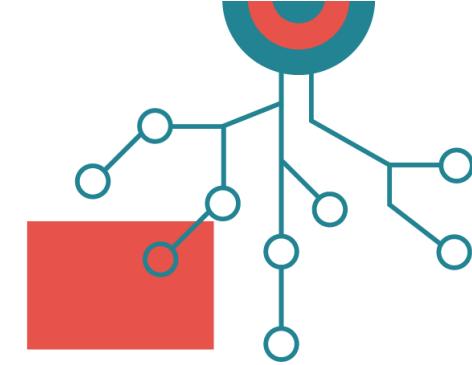
Ces pièces cassent facilement. Ajouter un morceau de scotch pour le rendre plus solide avant de plier !

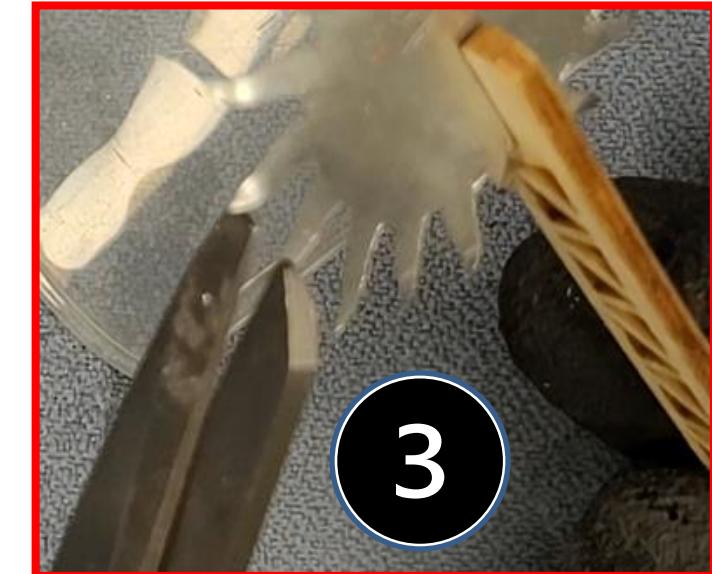
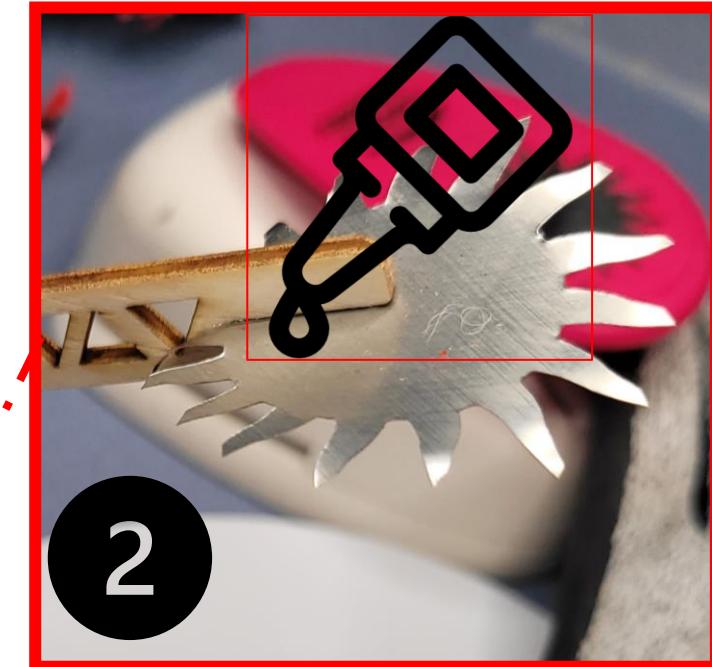


4

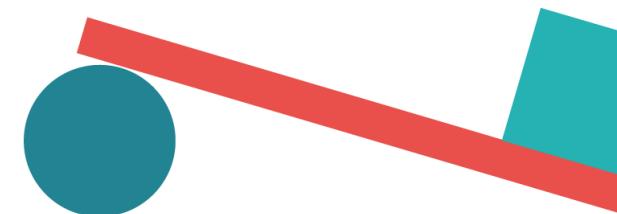
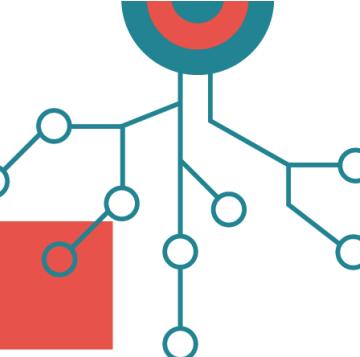
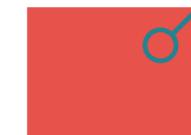
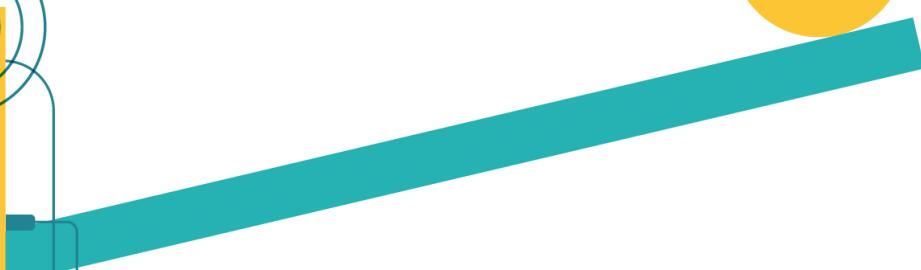
+ Idem pour l'autre garde-boue

# ASSEMBLAGE DE L'ARME





1. Insérer l'arme en force
2. Colle le métal à l'extrémité avec la colle rapide
3. Aiguiser les pointes à l'aide d'un ciseau

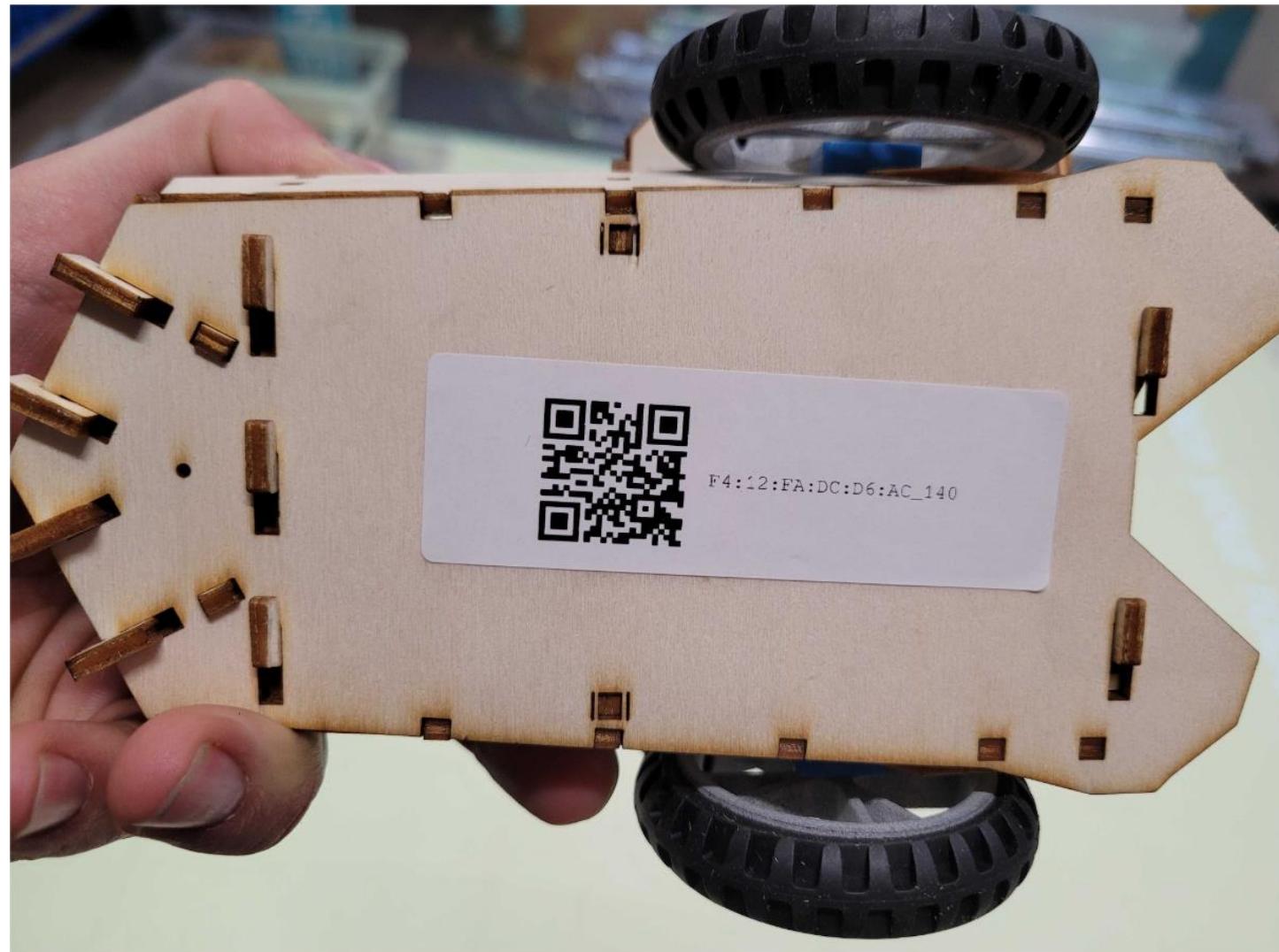


**ASSEMBLAGE**

**DES**

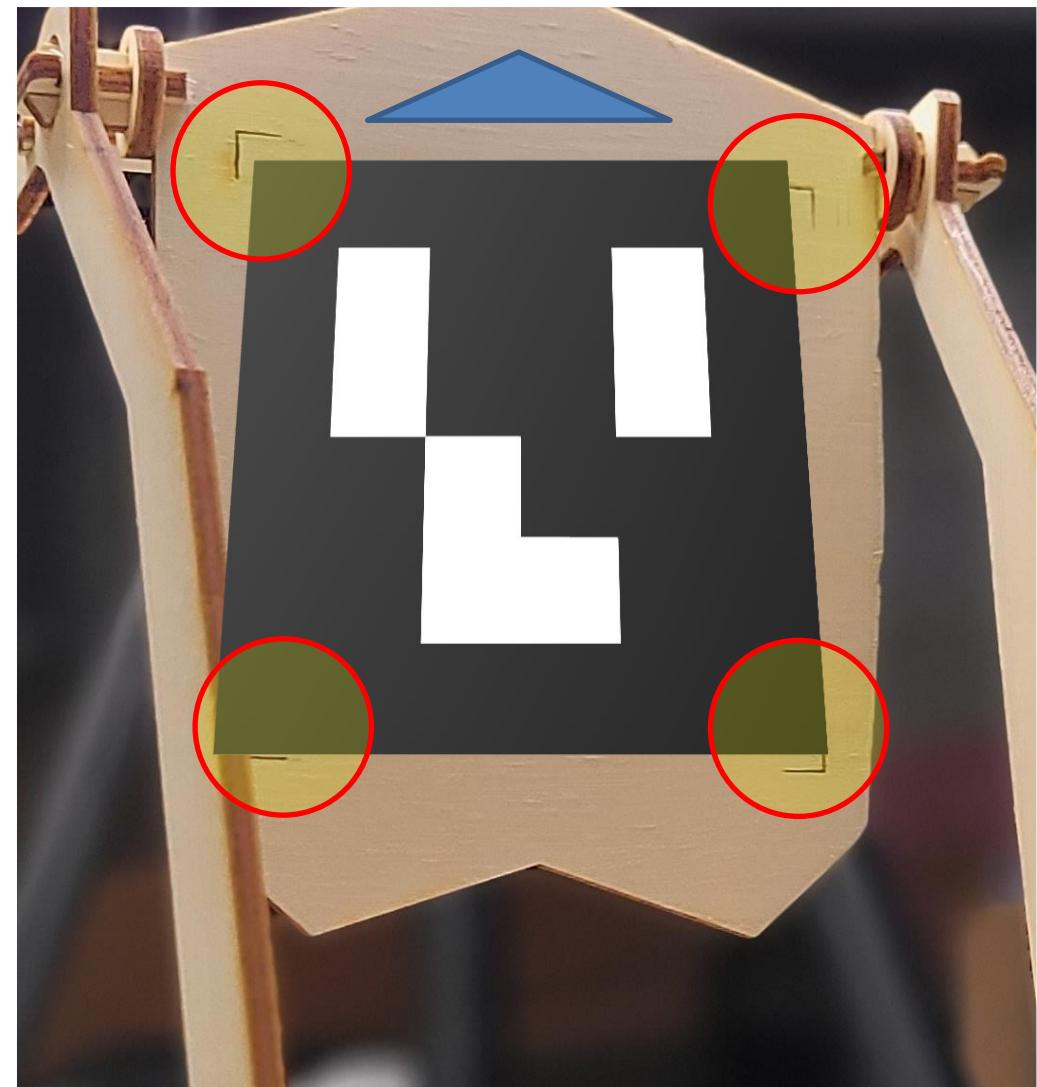
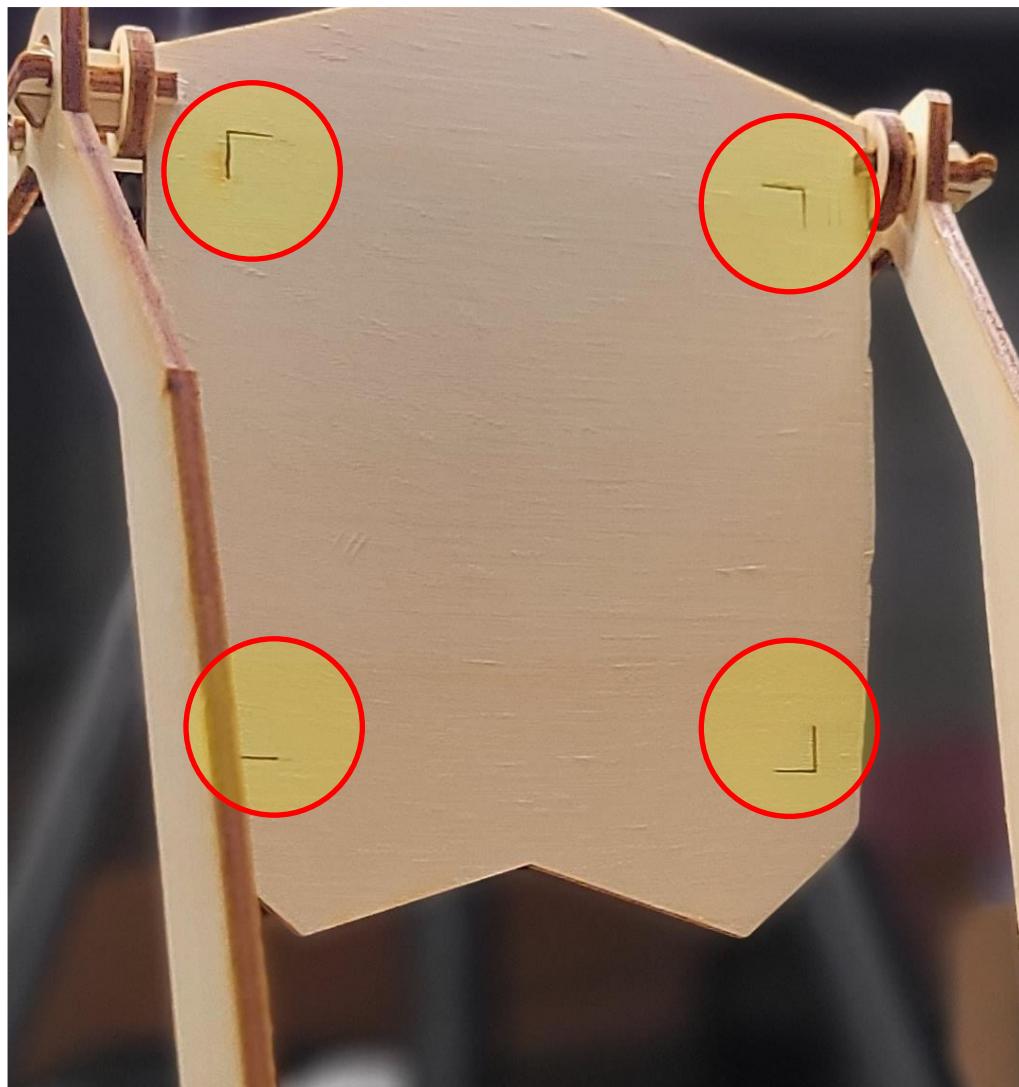
**TAG + QR CODE**

# COLLER LE MAC STICKER



SOUS LE ROBOT

# COLLER L'ARUCOTAG



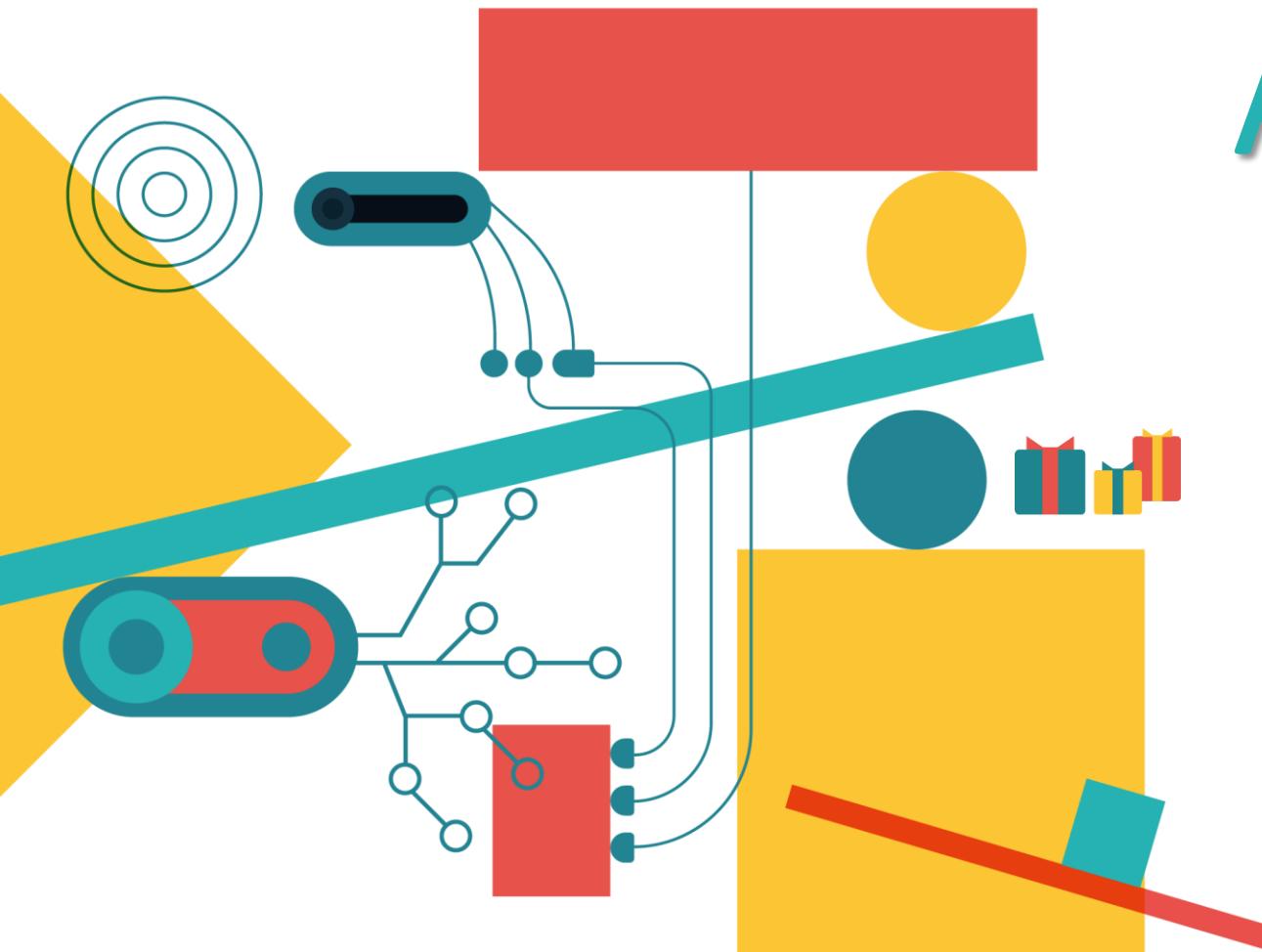
- Découper le TAG du robot sur le contour noir (attention direction sur le TAG indiqué par la flèche bleue a respecter)
- Coller le TAG sur l'emplacement prévu sur la planchette :

# Rangement et Nettoyage

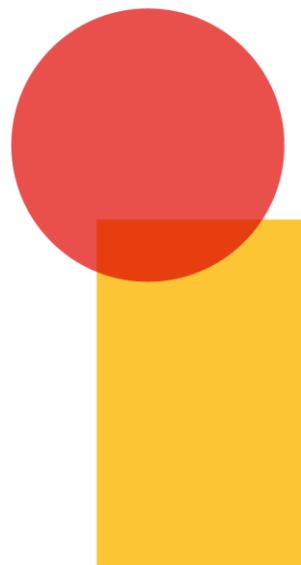
*METTRE toutes les pièces restantes dans la boite en carton,  
sans le plastique !!*



# <Bravo>



## APPELEZ- NOUS



pour que l'on valide votre montage!!