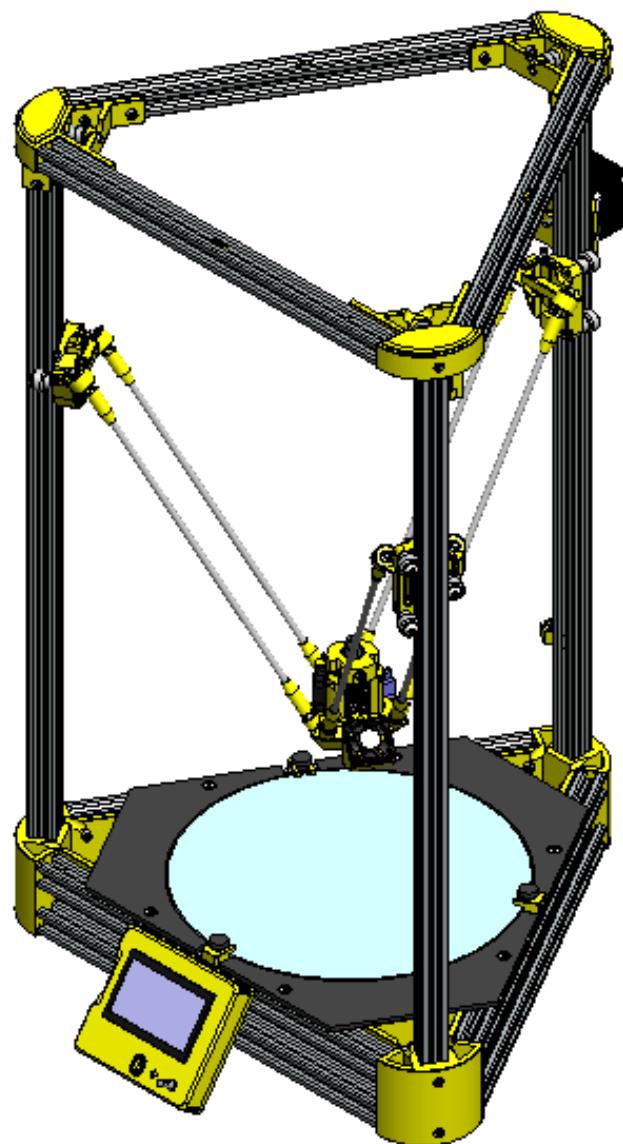
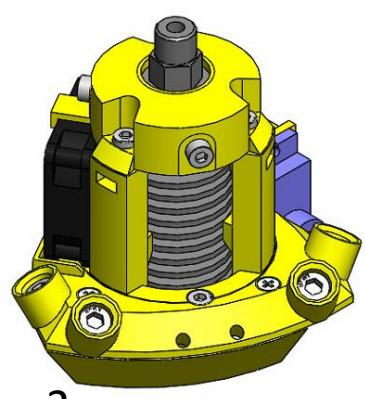
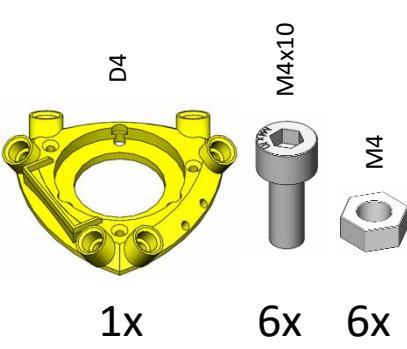
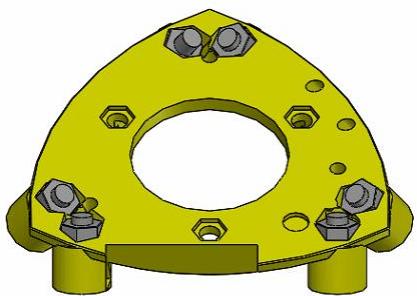
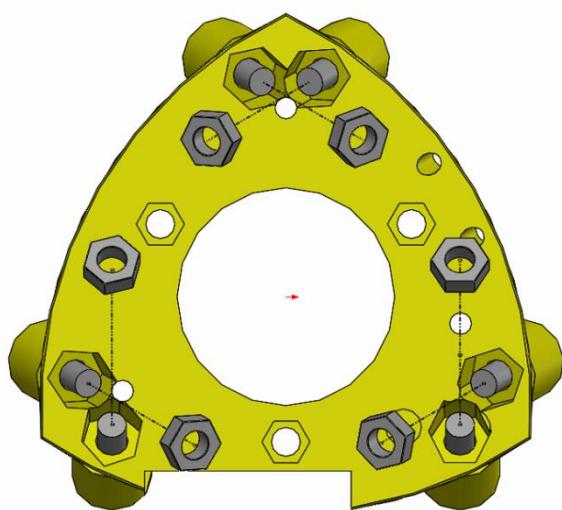
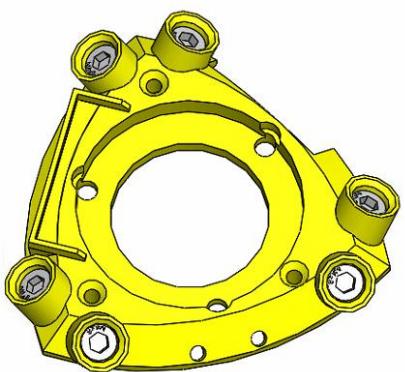
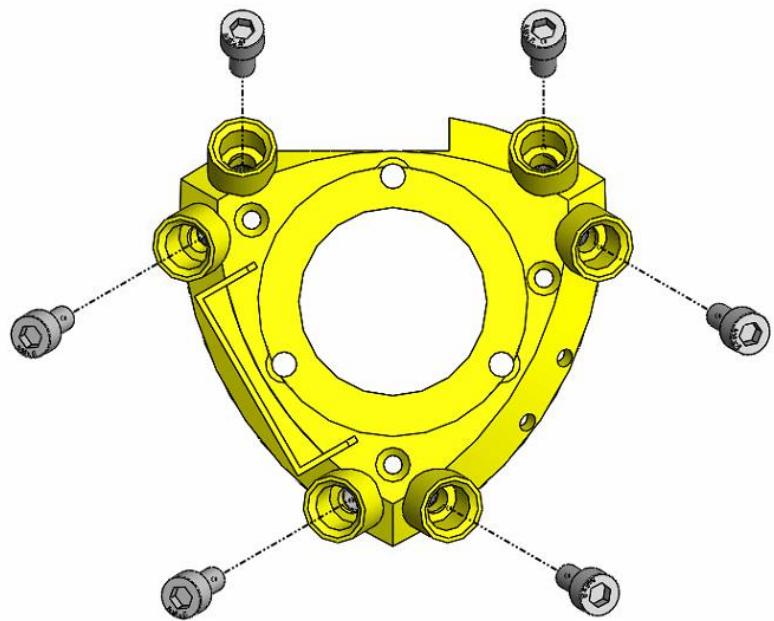


# DELTA BLACK

## MANUAL DE MONTAJE

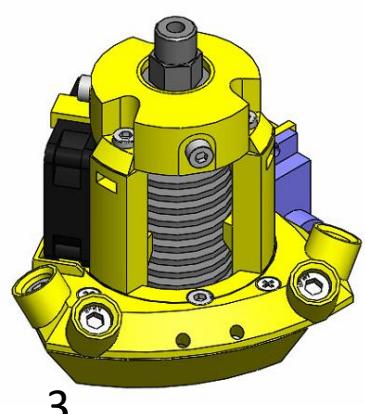
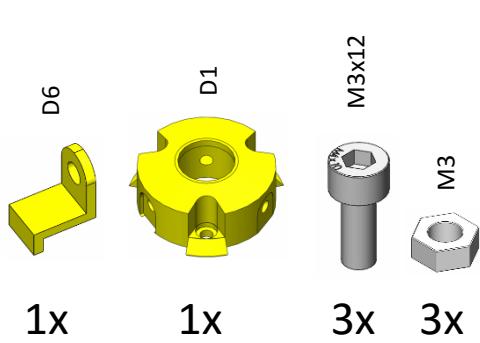
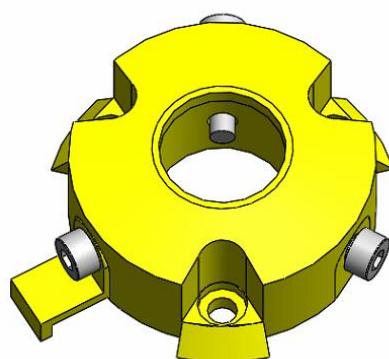
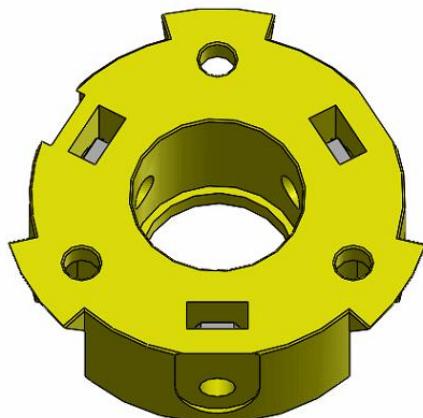
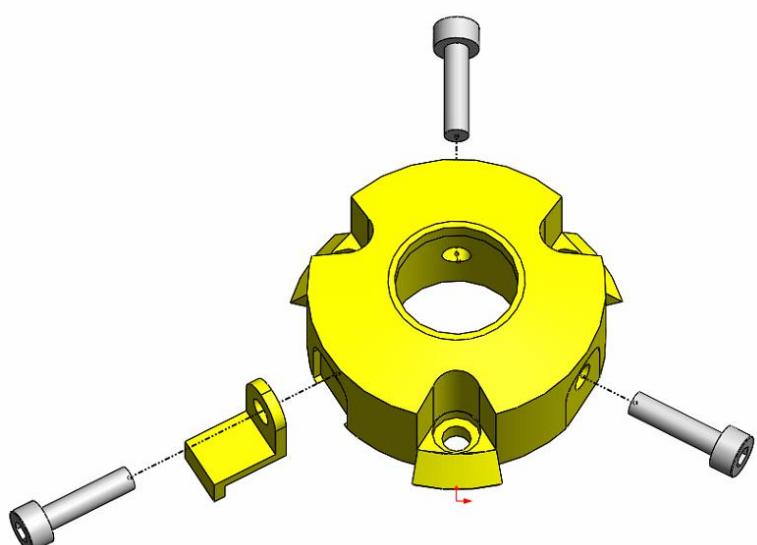
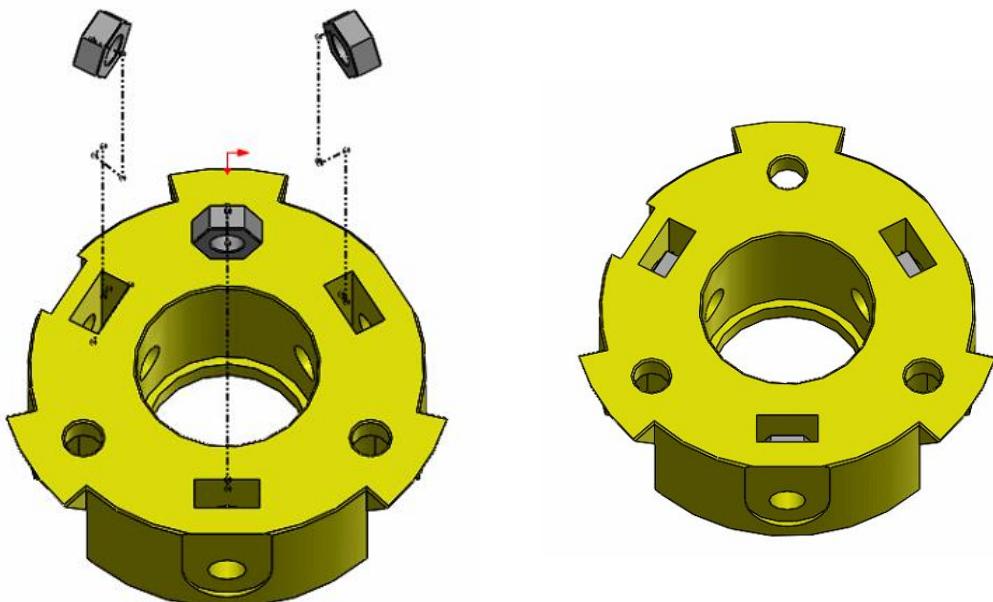


# Montaje delta HOT-END



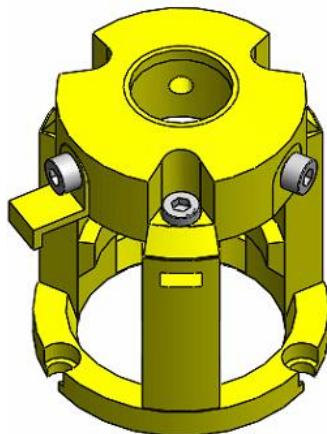
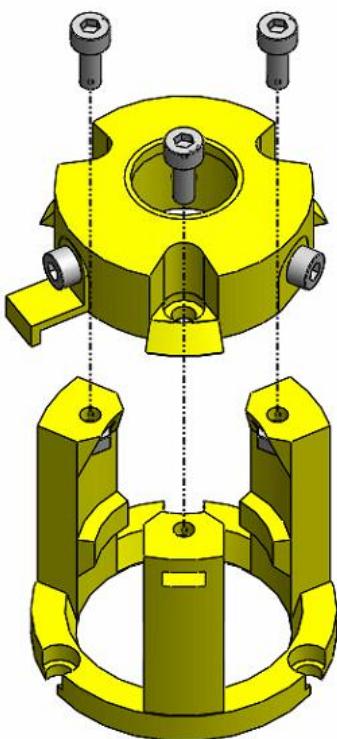
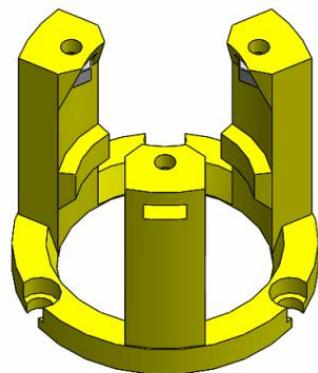
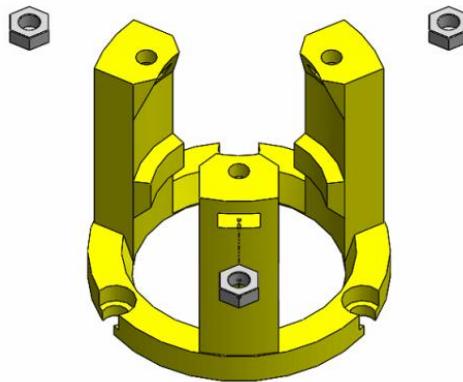
2

## Montaje HOT-END nivel 1

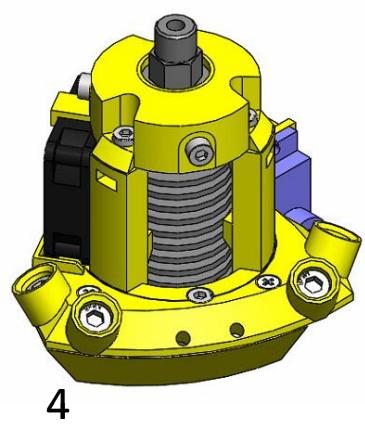


3

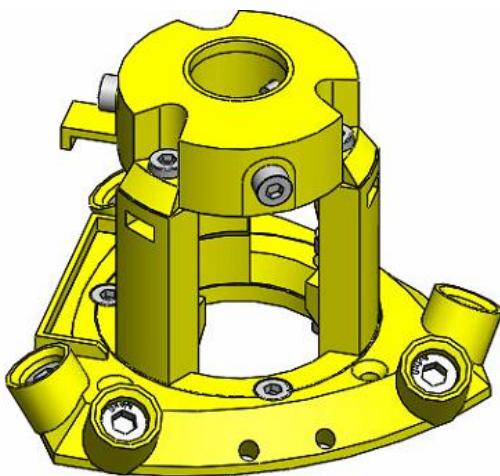
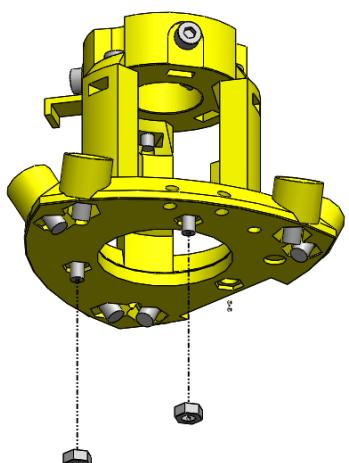
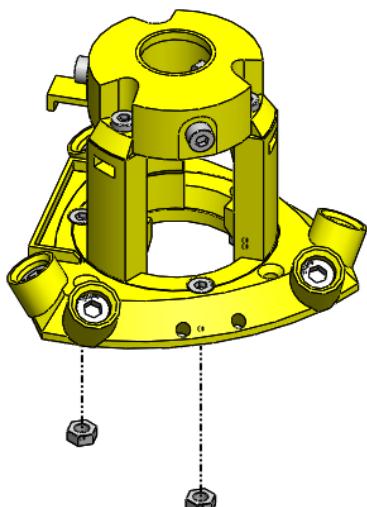
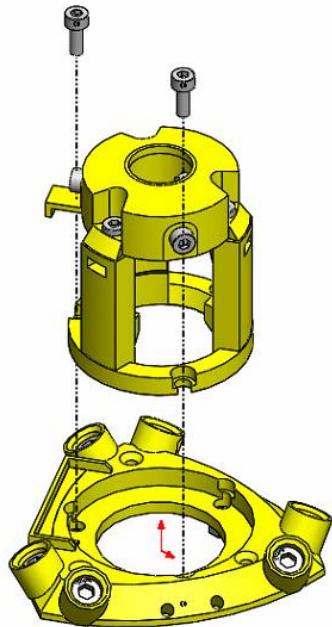
## Montaje HOT-END nivel 2



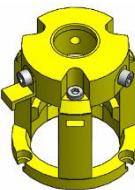
KIT	D2	M3x10	M3
1x	1x	3x	3x



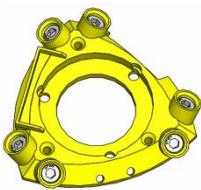
# Montaje HOT-END nivel 3



KIT



1x

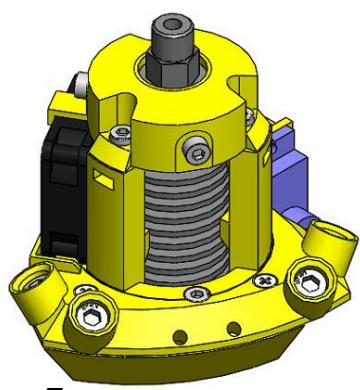


1x

M3x10

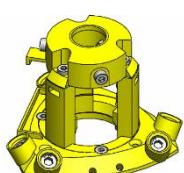
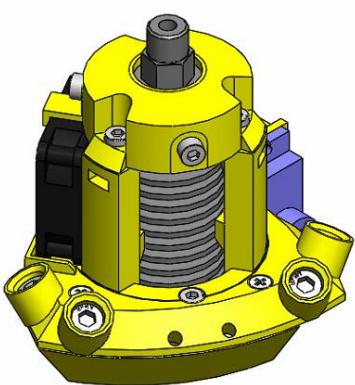
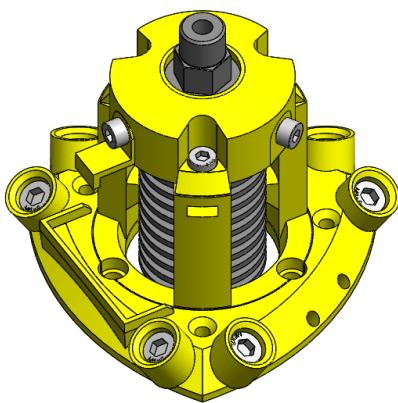
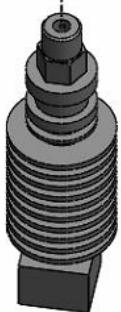
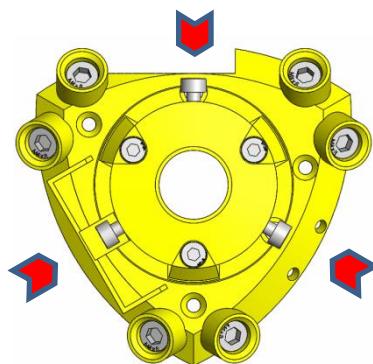
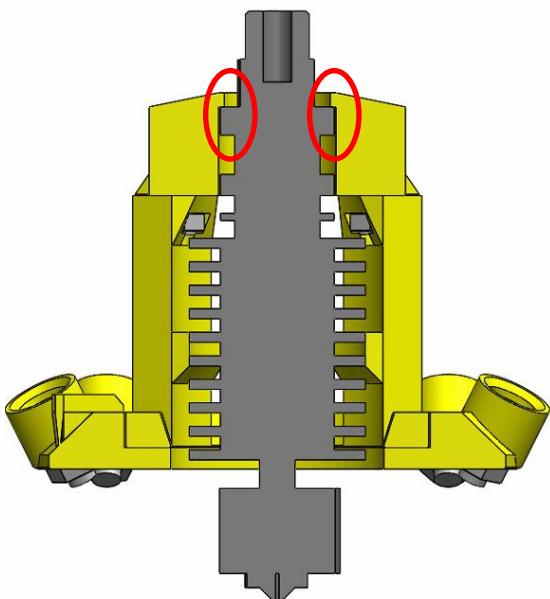
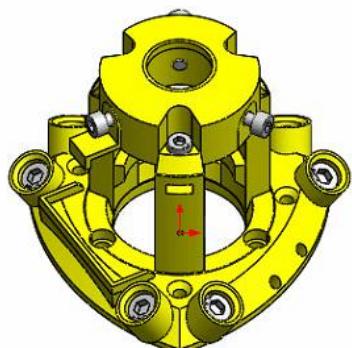
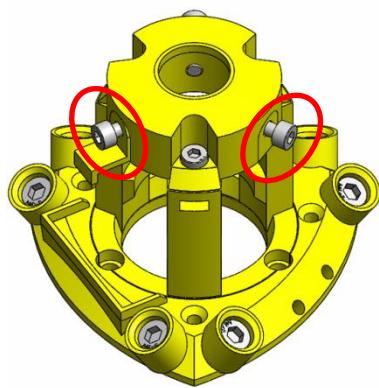
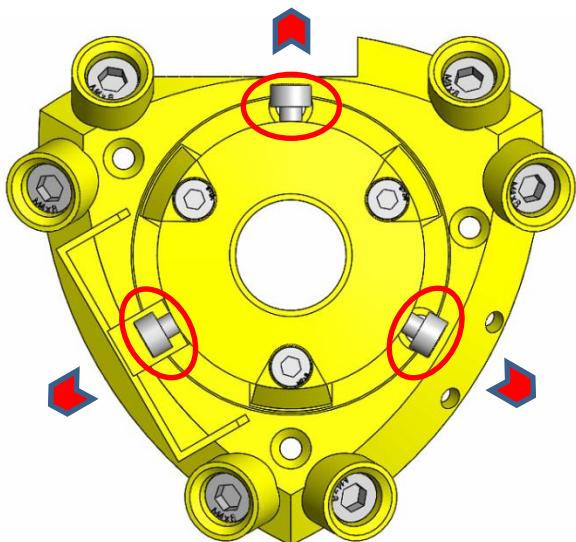
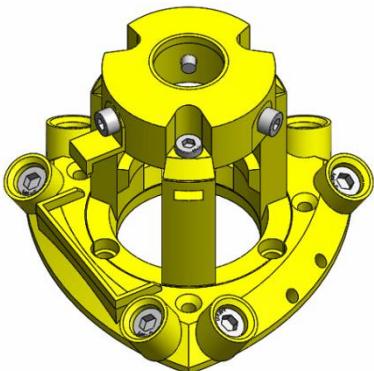


2x  
M3



5

# Montaje HOT-END

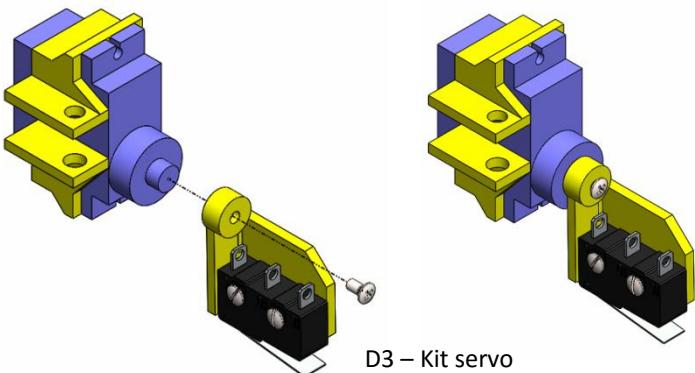
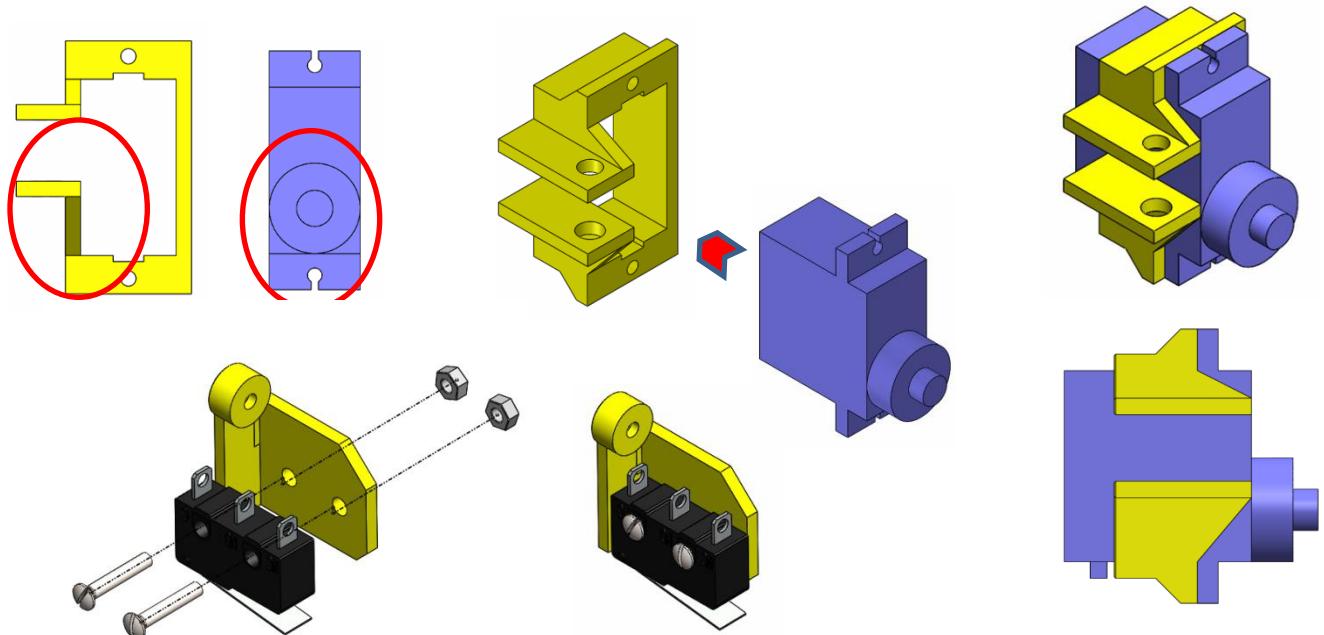


1x

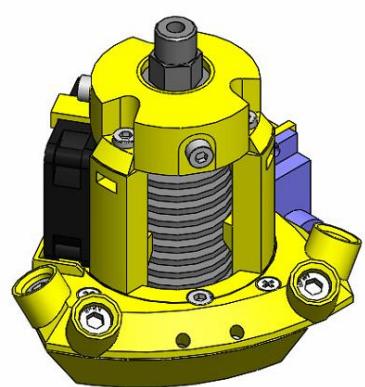
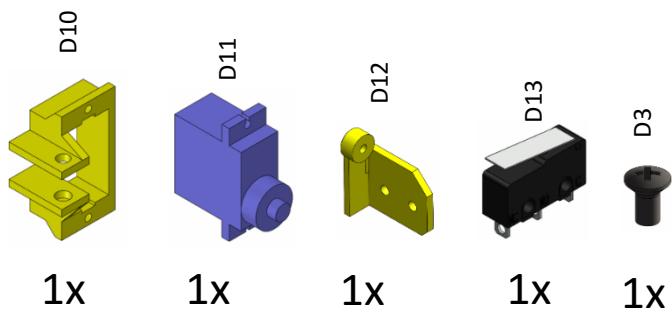
1x

6

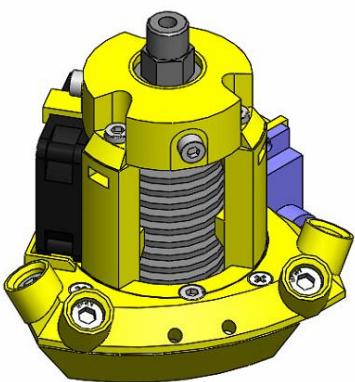
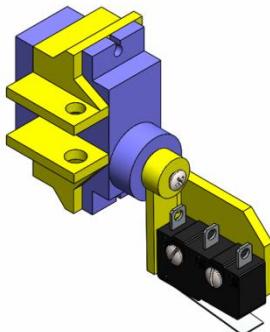
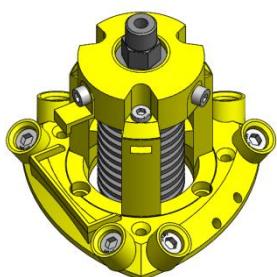
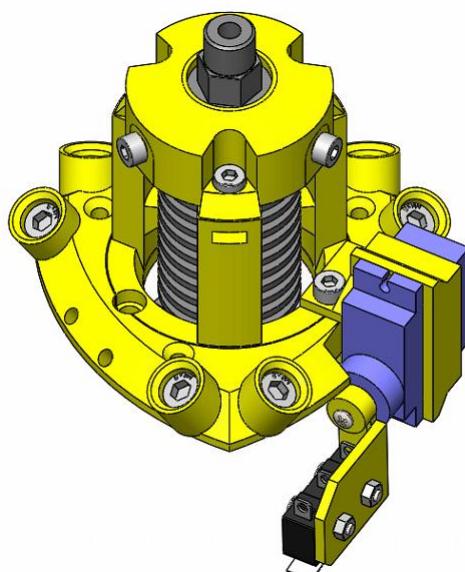
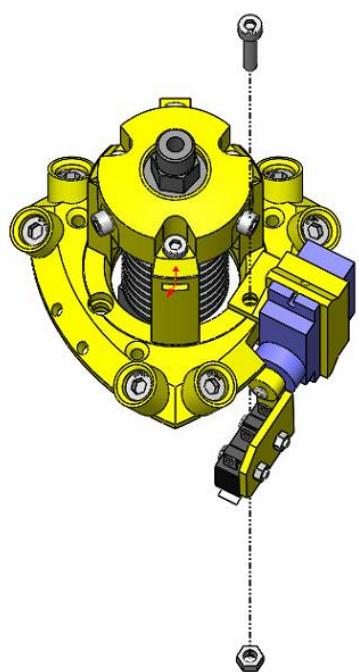
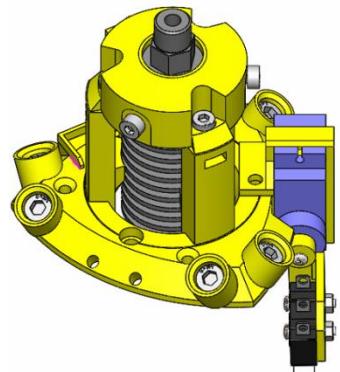
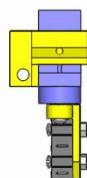
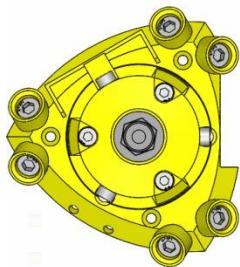
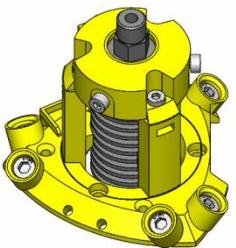
# Montaje BED-LEVELING



D3 – Kit servo



# Montaje BED-LEVELING



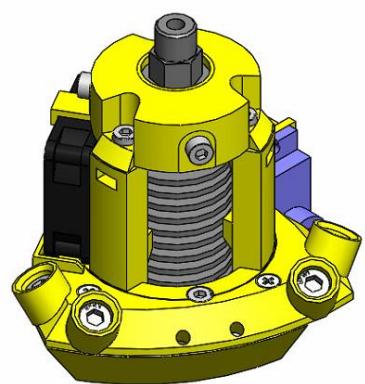
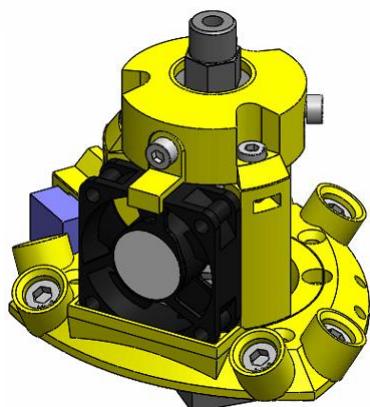
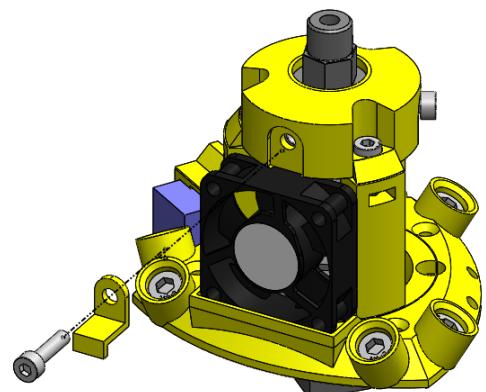
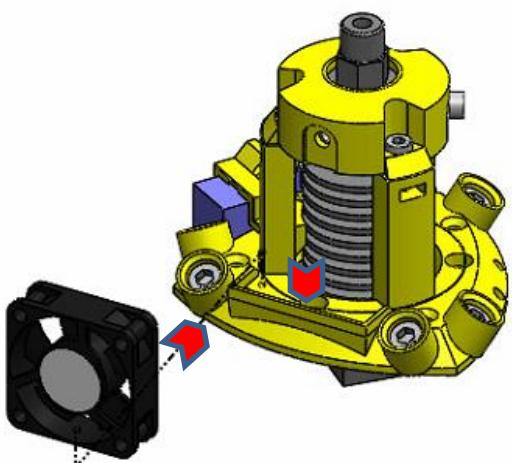
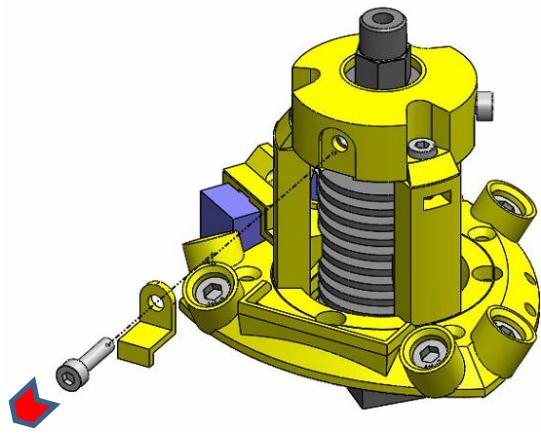
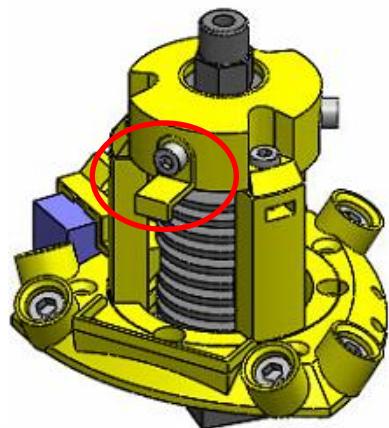
M3X25



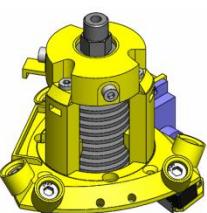
1x 1x

8

## Montaje ventilador HOT-END



KIT



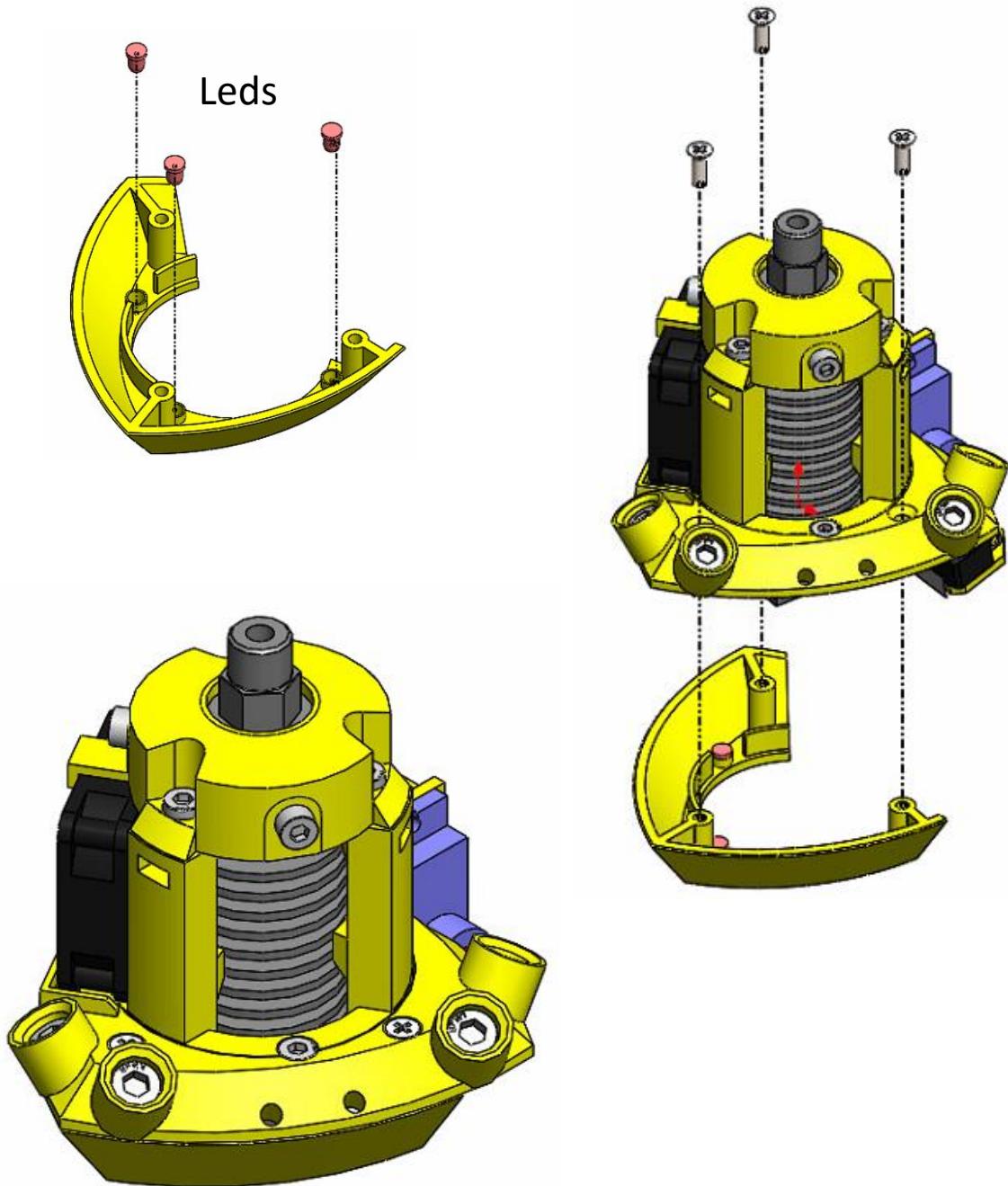
1x



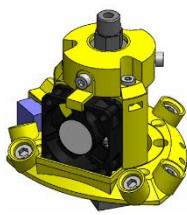
D7

9

# Montaje LEDs (Opcional) + Embellecedor



KIT



1x

TORNILLO



LED



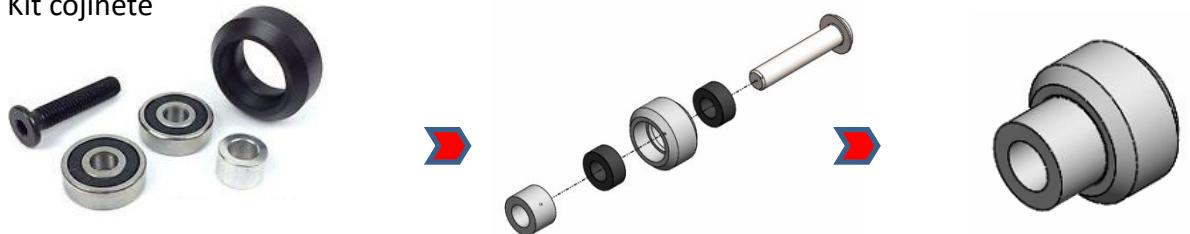
3x

3x

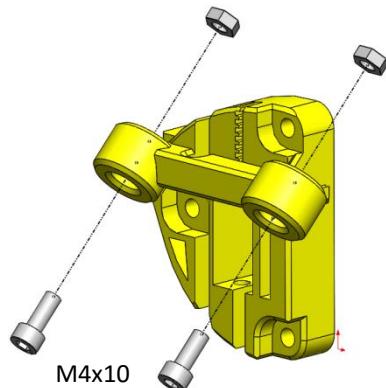
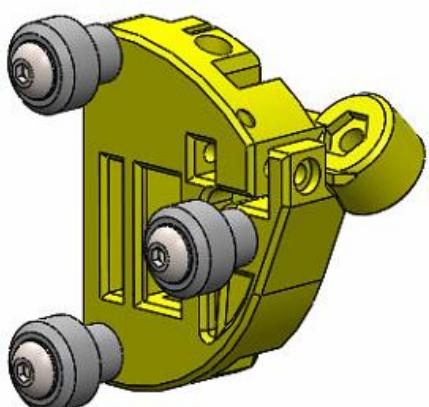
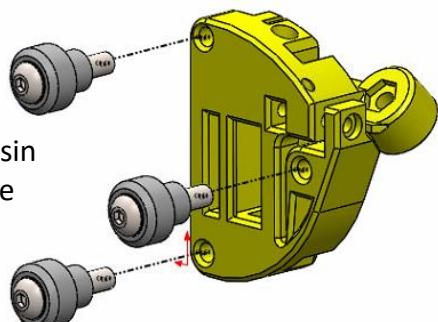
10

# Montaje Patines

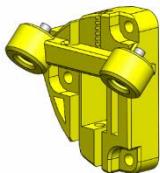
Kit cojinete



Ajustar tornillos sin  
bloquear cojinete



D32



1x



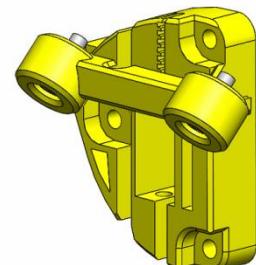
1x

M4x10



2x

2x



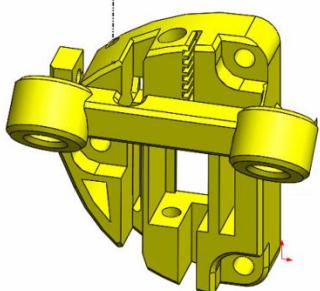
x3

11

M3x8



Ajusta home ejes

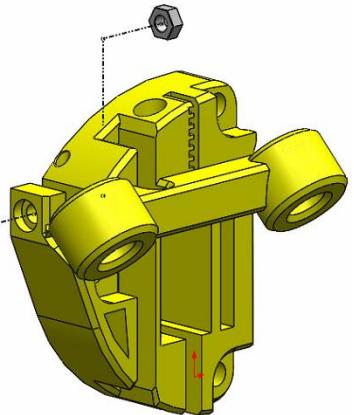


Ajusta cojinete guía

M3x25



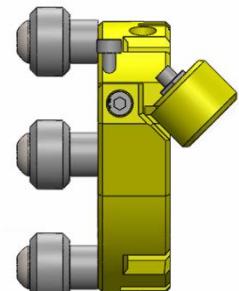
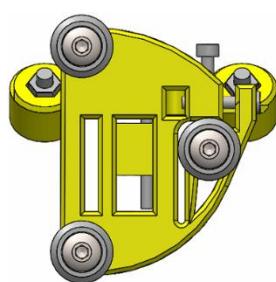
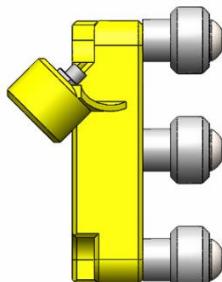
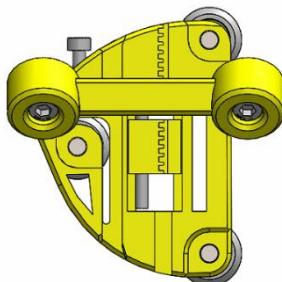
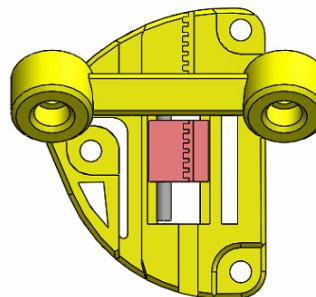
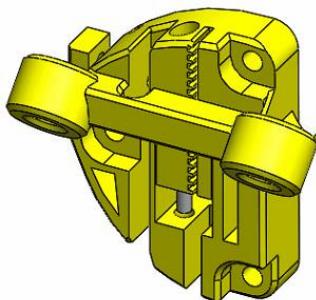
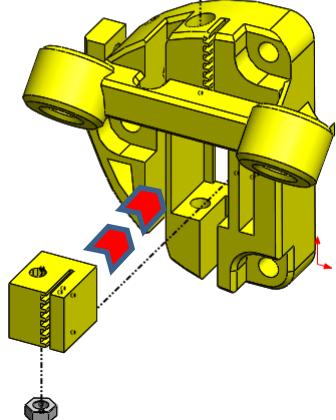
No atornillar el tornillo hasta el montaje del patinete en la v-slot



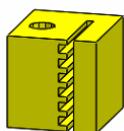
M3x25



Ajusta tensión correa ejes



D33



M3x25



M3x8



M3



1x

2x

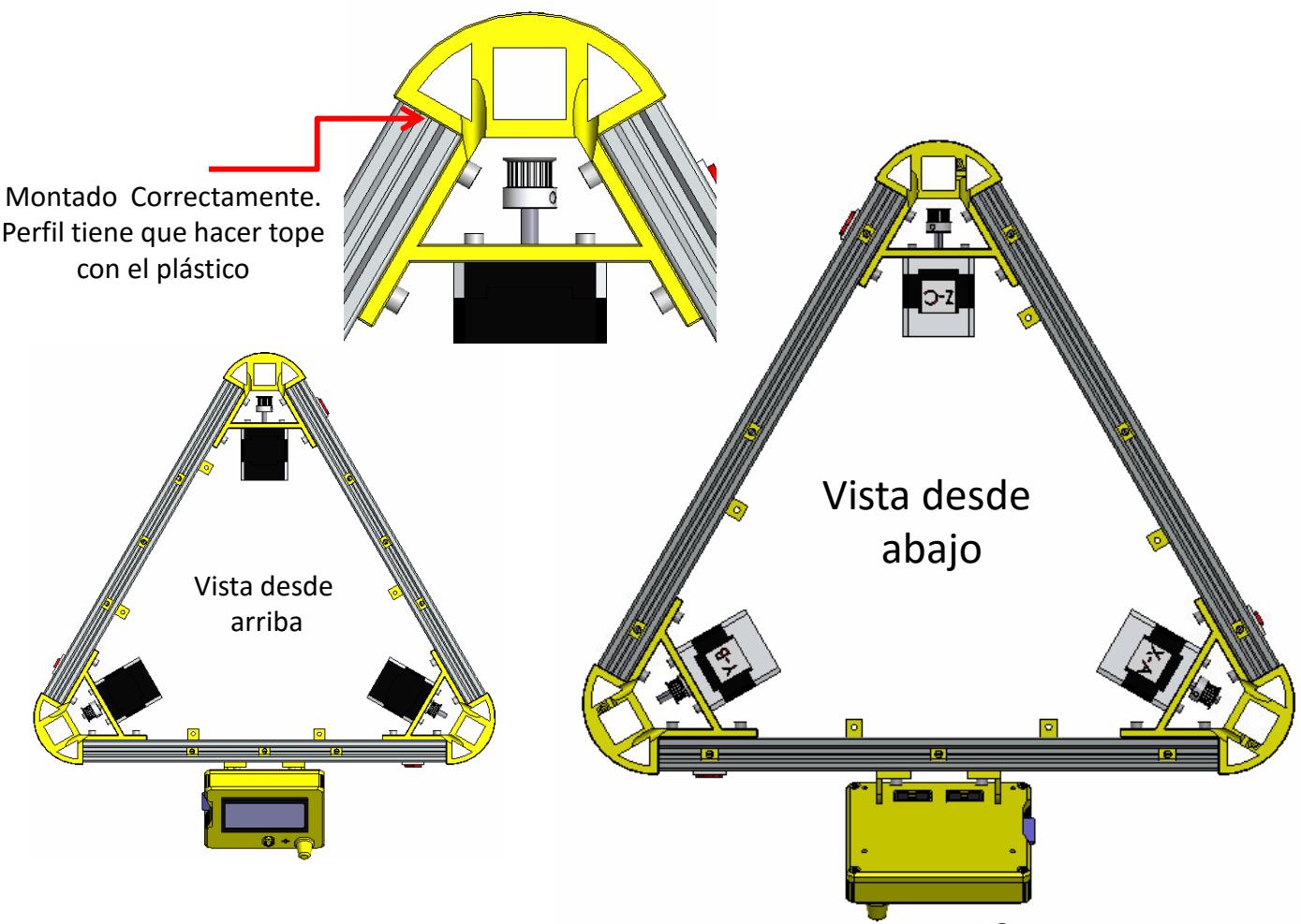
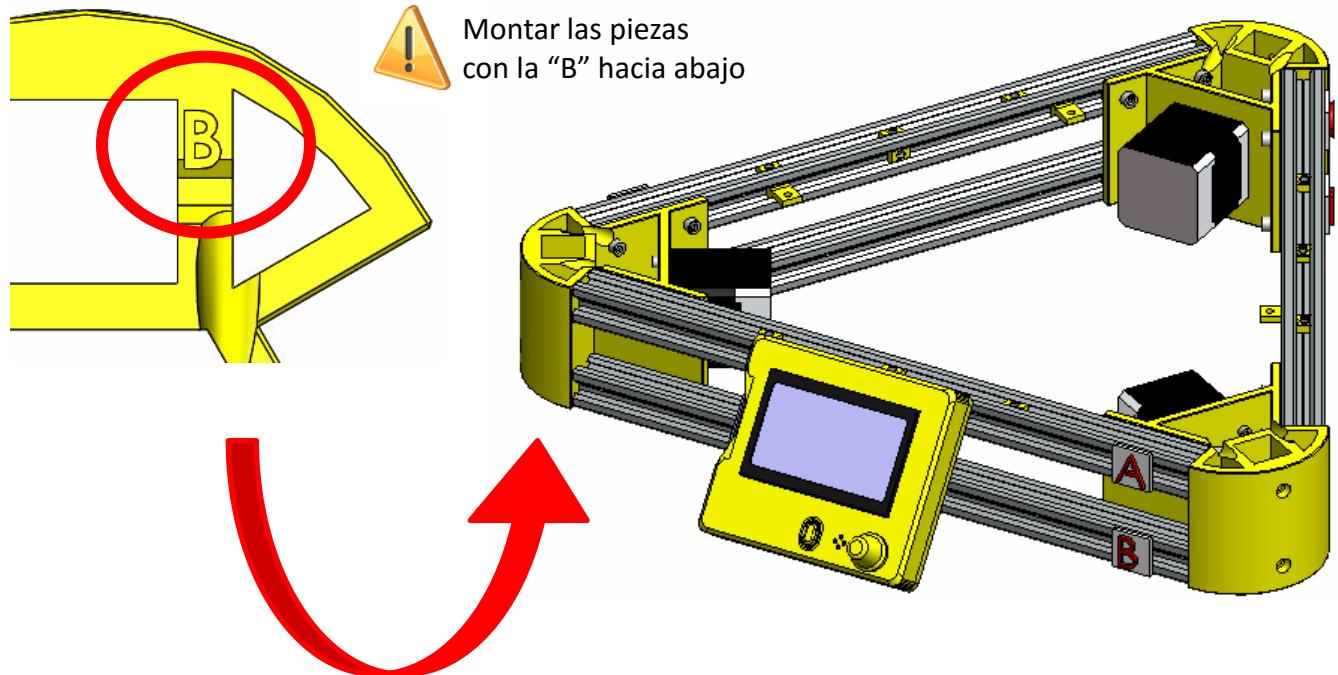
1x

2x

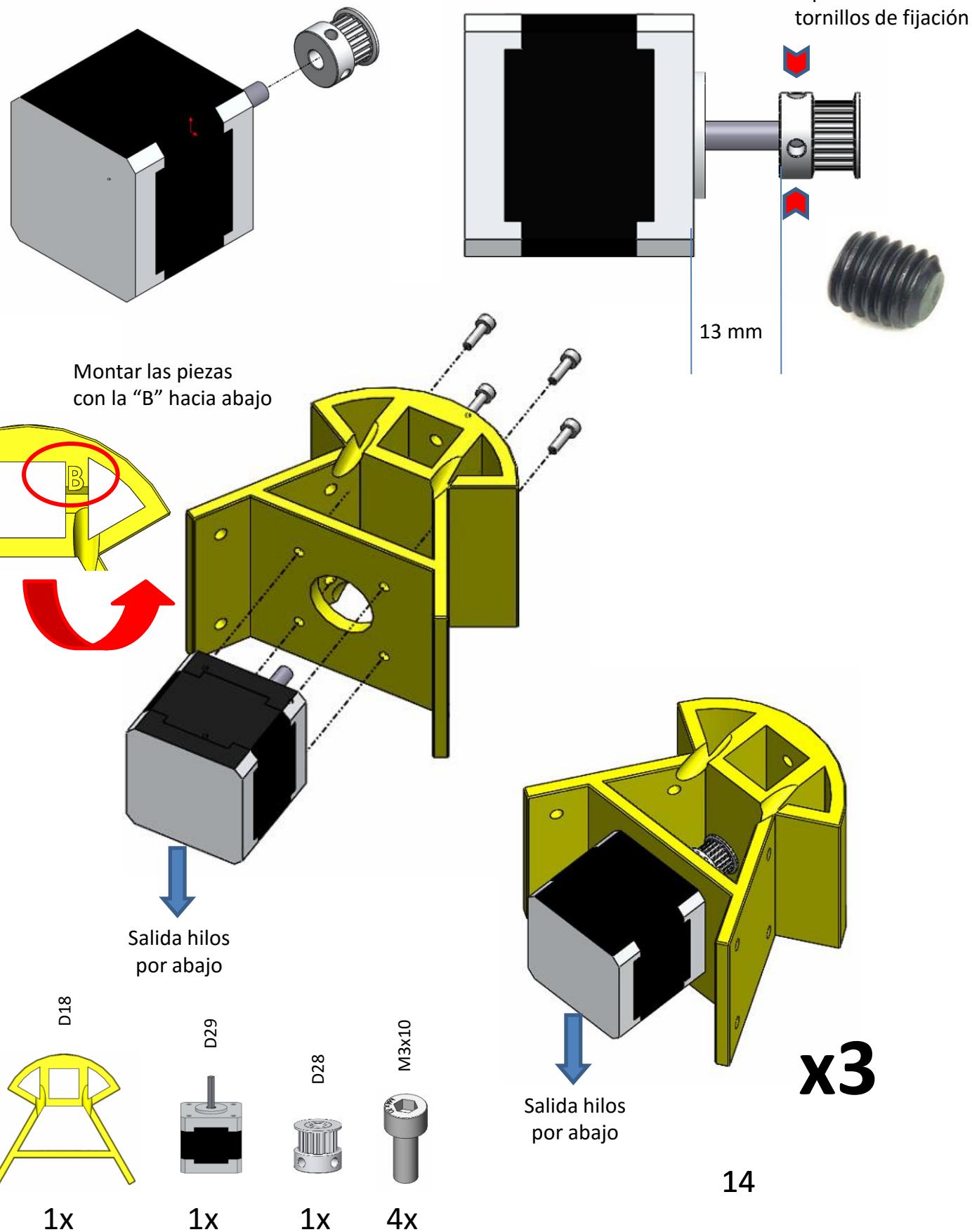
x3

12

## Organización piezas Estructura inferior

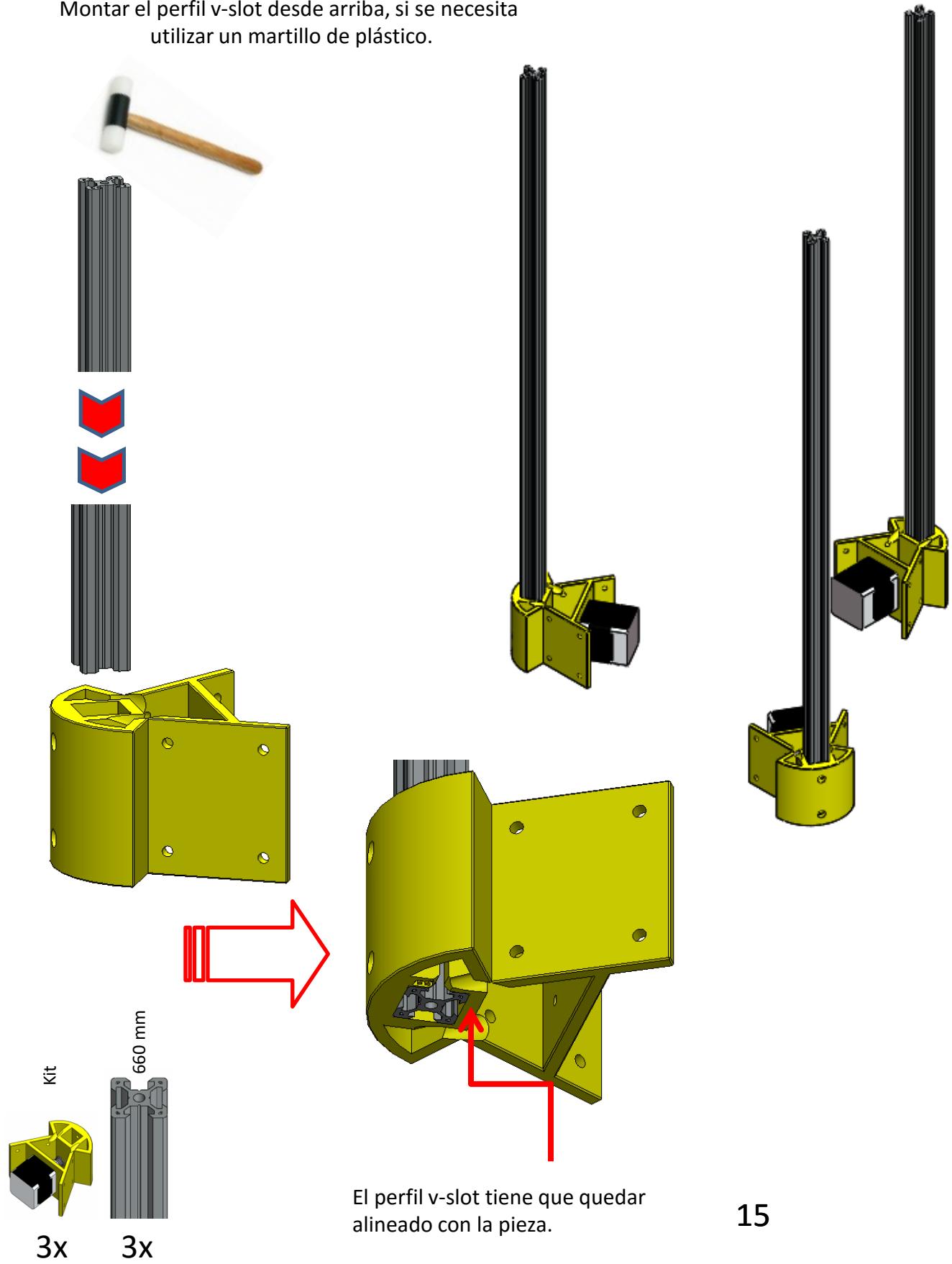


# Montaje motores ejes inferiores

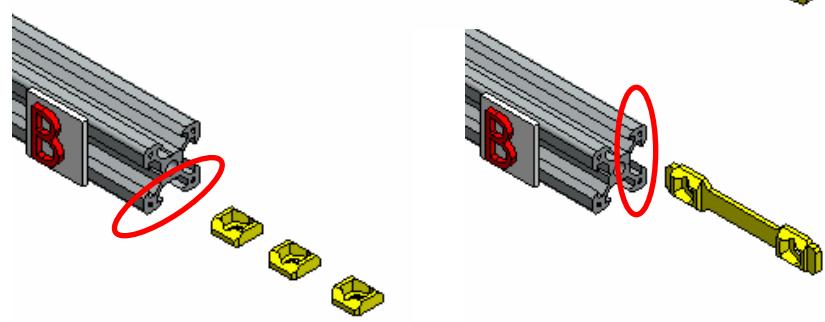
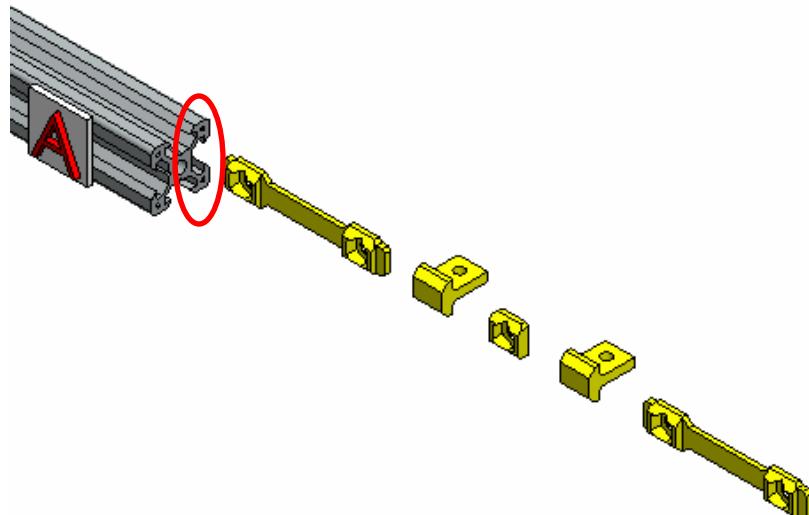


# Montaje perfiles v-slots (Columnas)

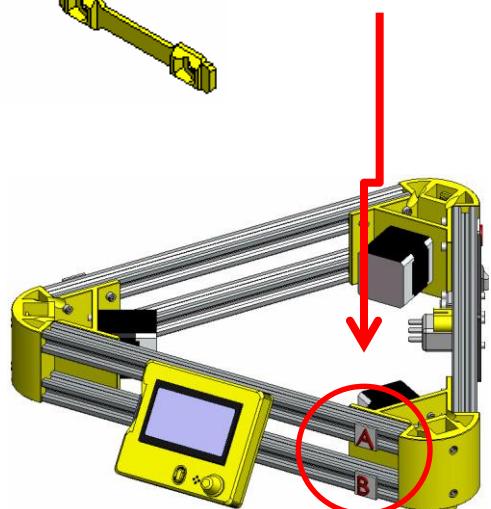
Montar el perfil v-slot desde arriba, si se necesita utilizar un martillo de plástico.



## Montaje frontal impresora – vista LCD

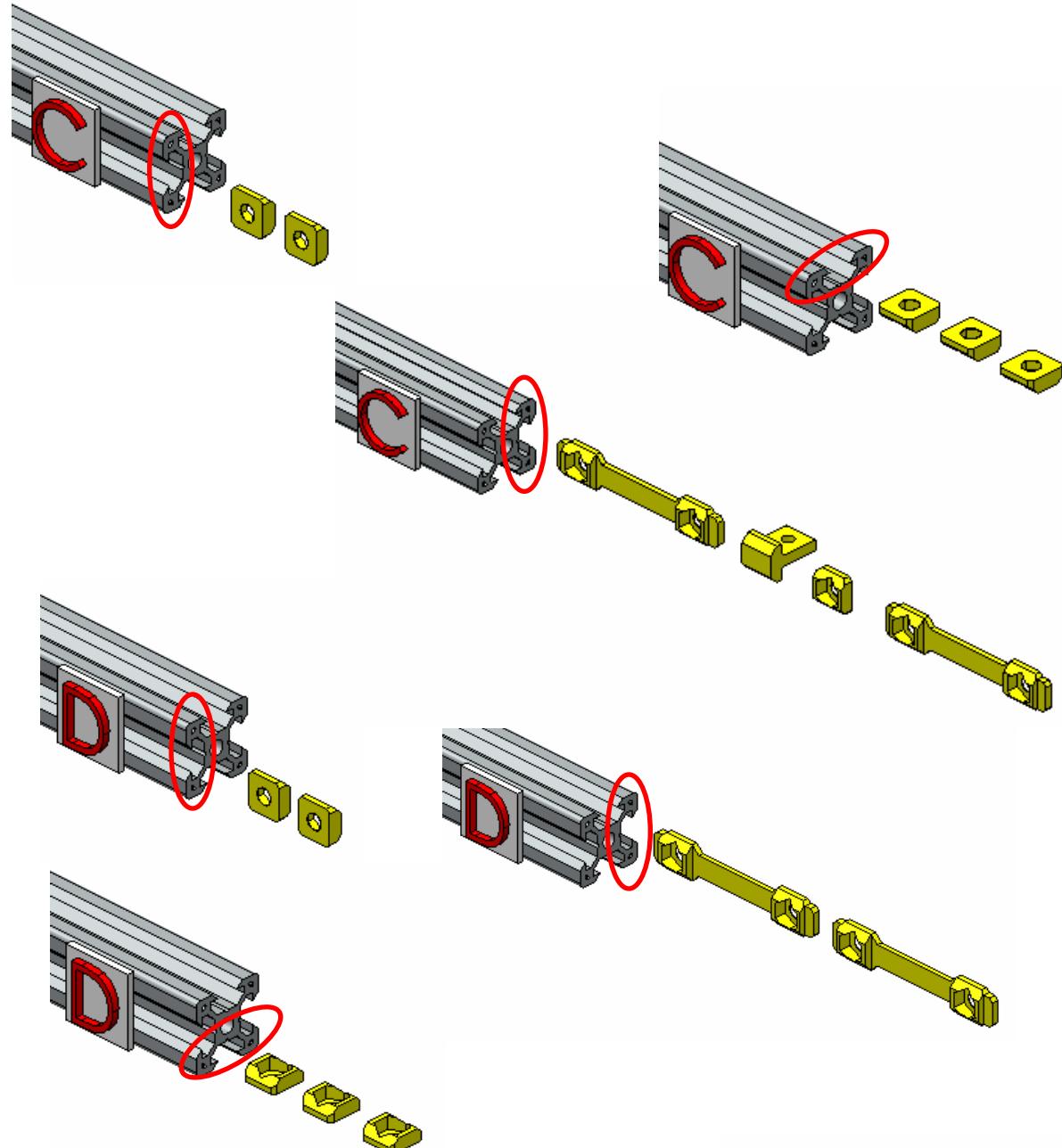


Letras de referencia

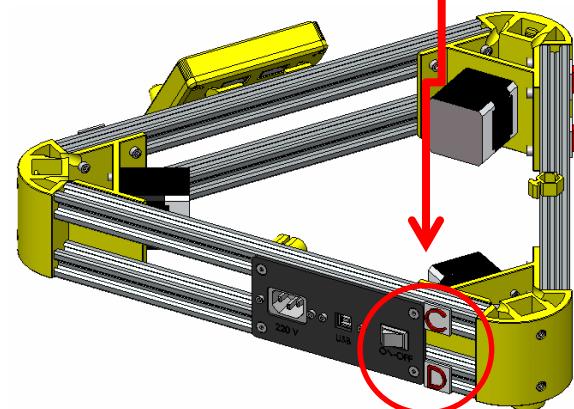


	330 mm
	D20
	D25
	D21
	M4
2x	4x
2x	9x
17x	

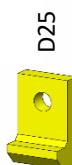
## Montaje lateral impresora – vista panel alimentación



Fijarse con  
las letras

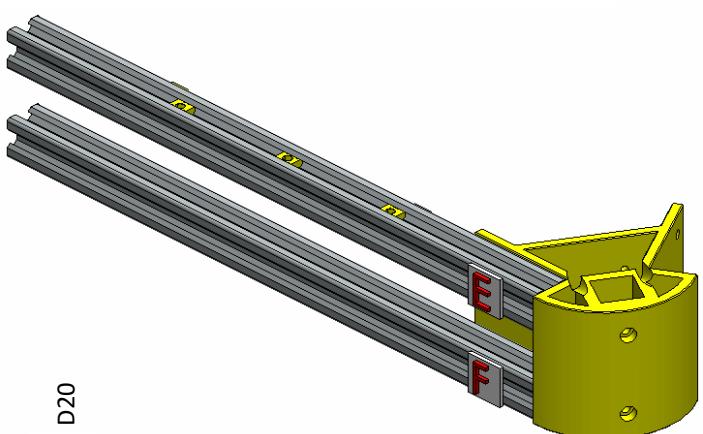
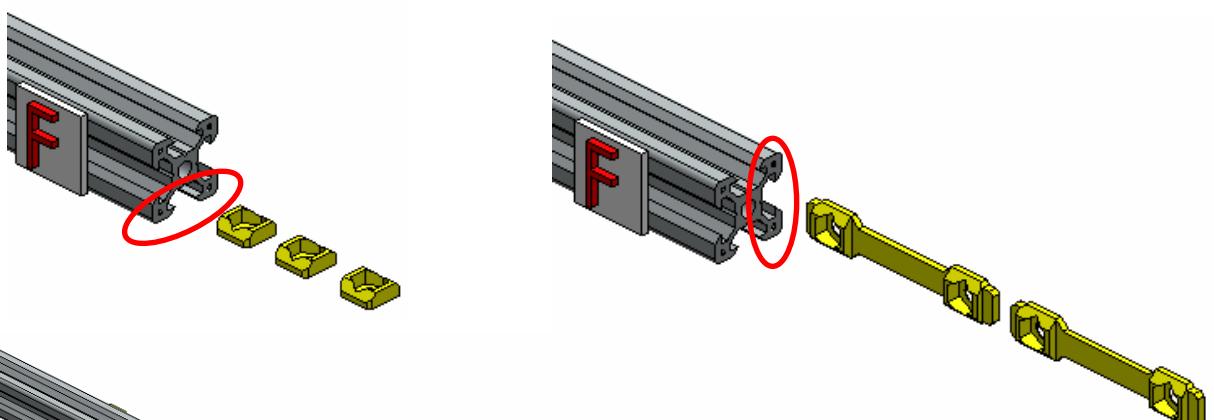
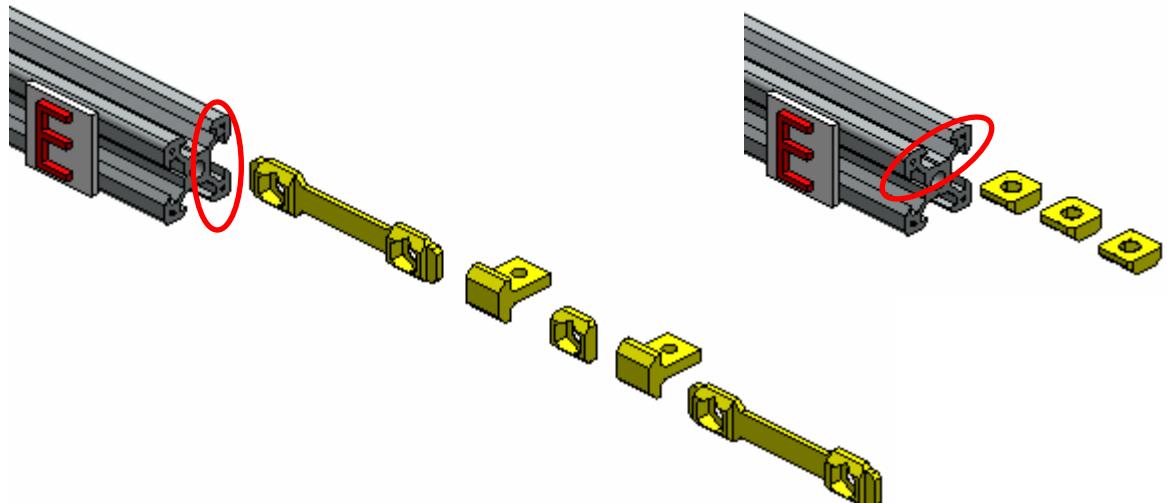


17

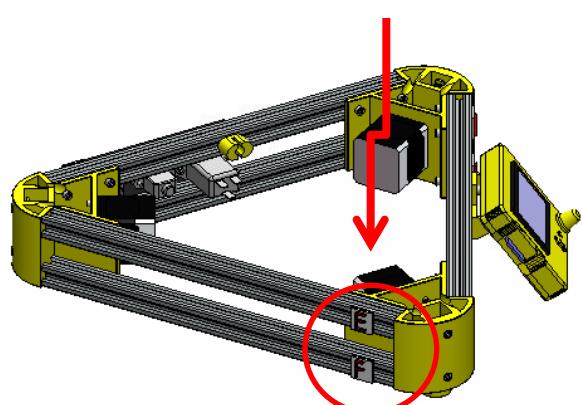


2x 4x 1x 11x 19x

## Montaje lateral impresora – vista sin objetos

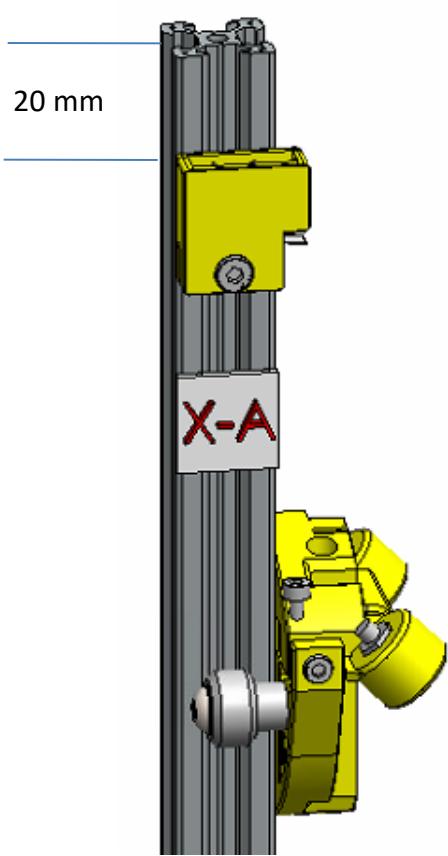


Fijarse con  
las letras



330 mm	D20
2x	4x
2x	D25
7x	D21
15x	M4

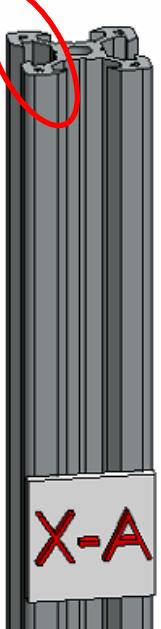
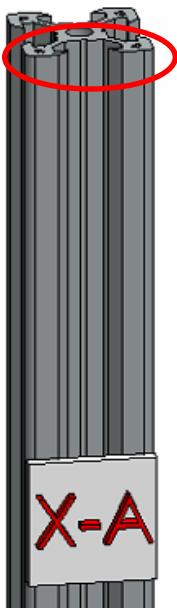
# Montaje Columna X-A



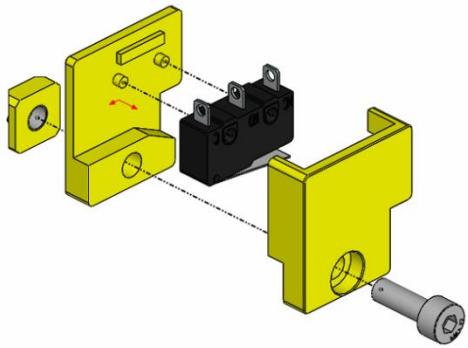
Tuerca final  
de carrera



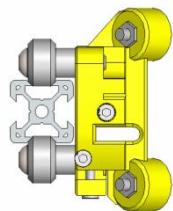
Tuerca  
Angular superior



Montaje final de carrera



Insertar  
patinete  
eje



D36



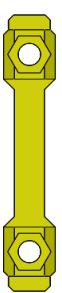
D35



D37



D20



M4x12



M4



1x

1x

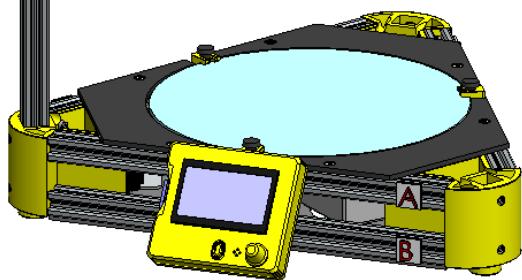
1x

1x

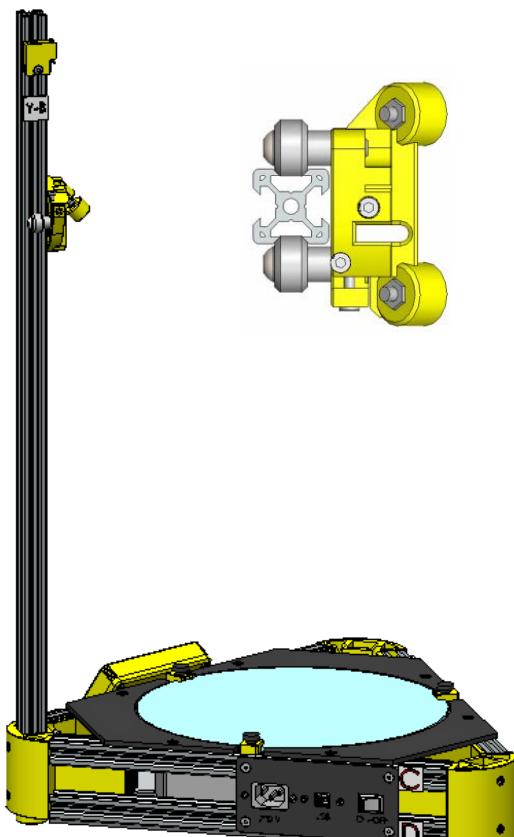
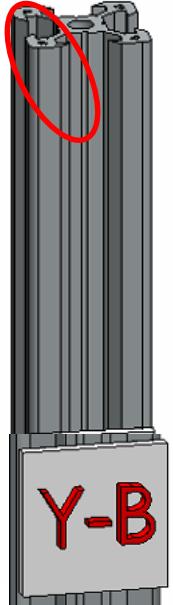
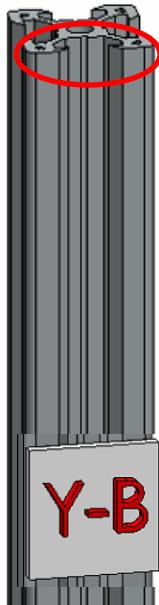
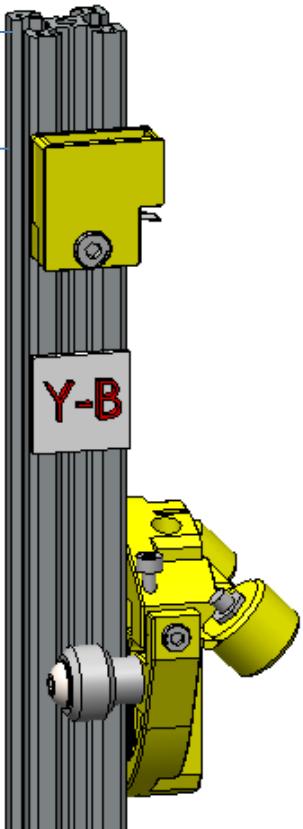
2x

1x

4x



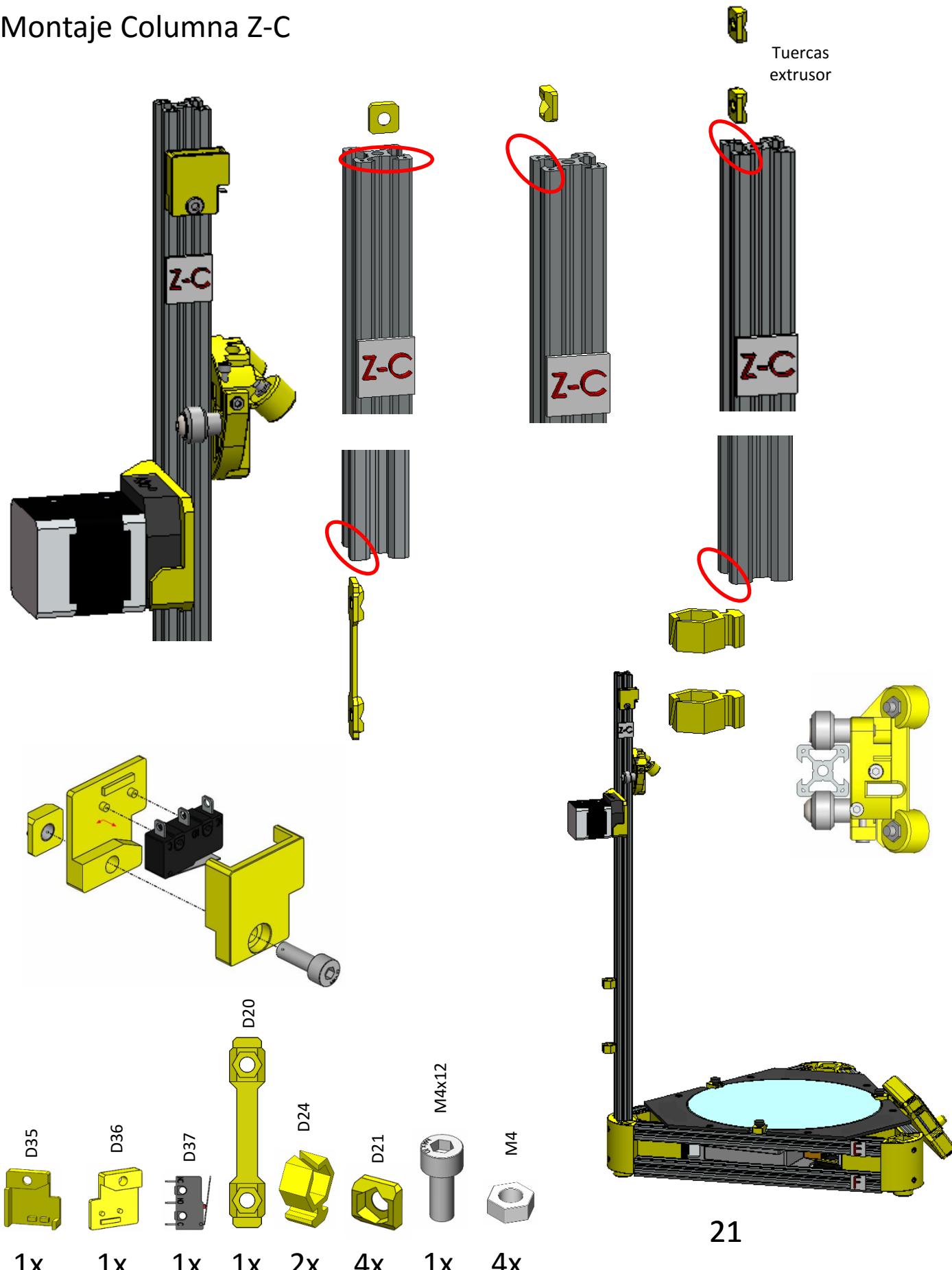
# Montaje Columna Y-B



20

D35	D36	D37	D20	M4x12	M4
1x	1x	1x	1x	2x	4x

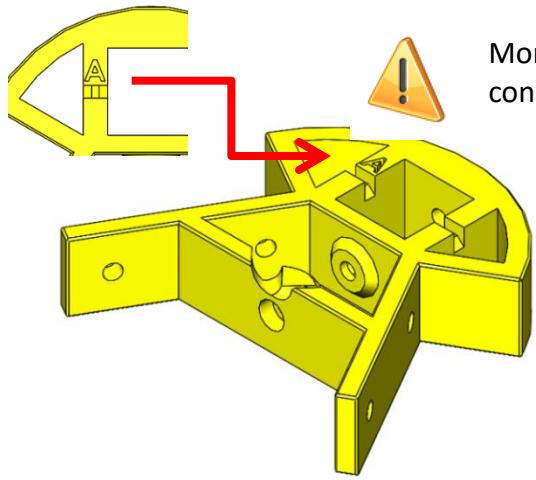
# Montaje Columna Z-C



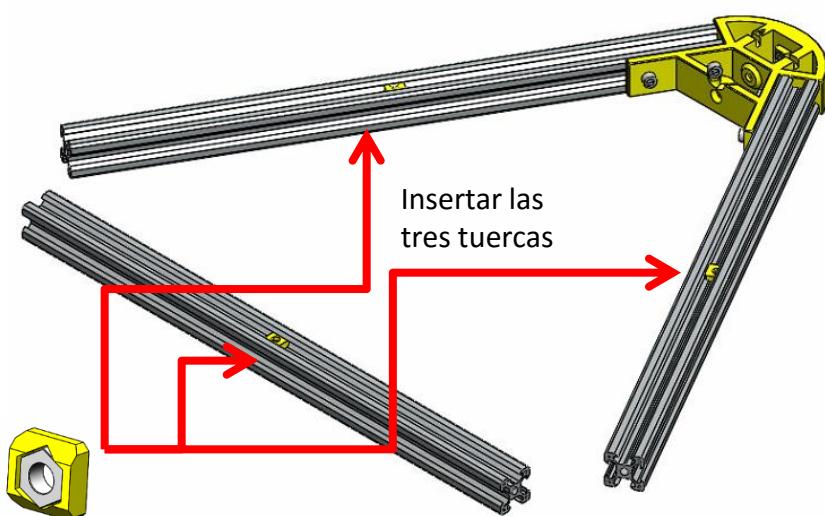
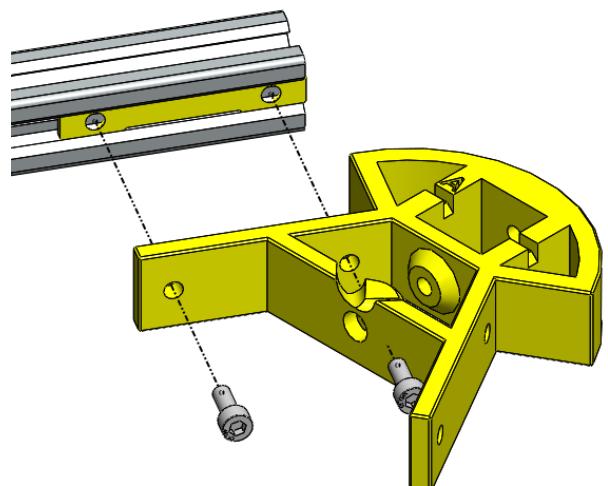
## Tuercas extrusor

21

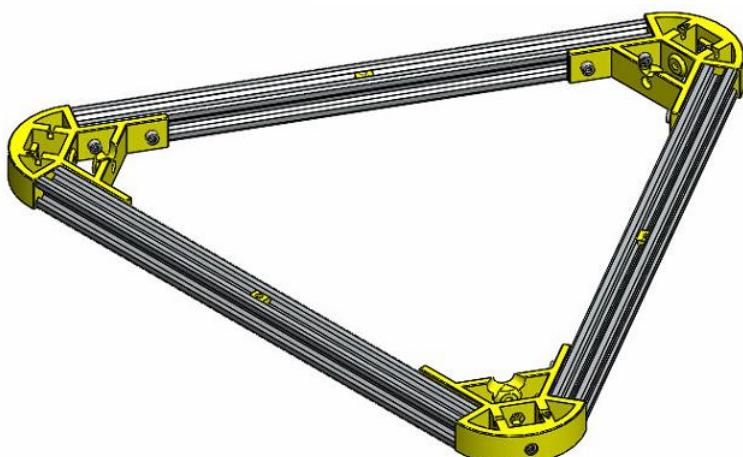
## Montaje Estructura superior



Montar los angulares con la "A" hacia arriba

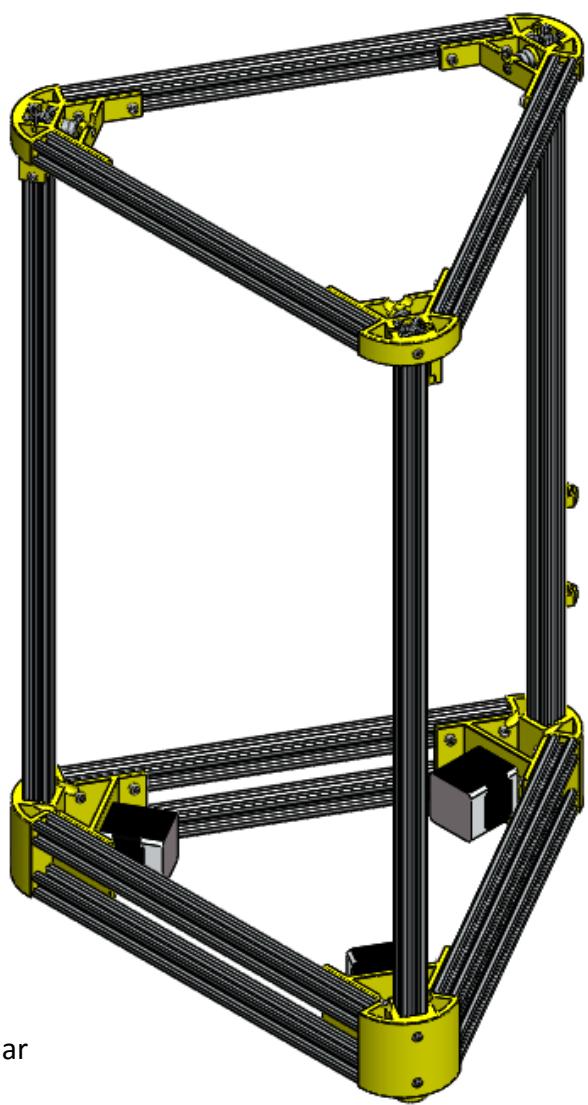
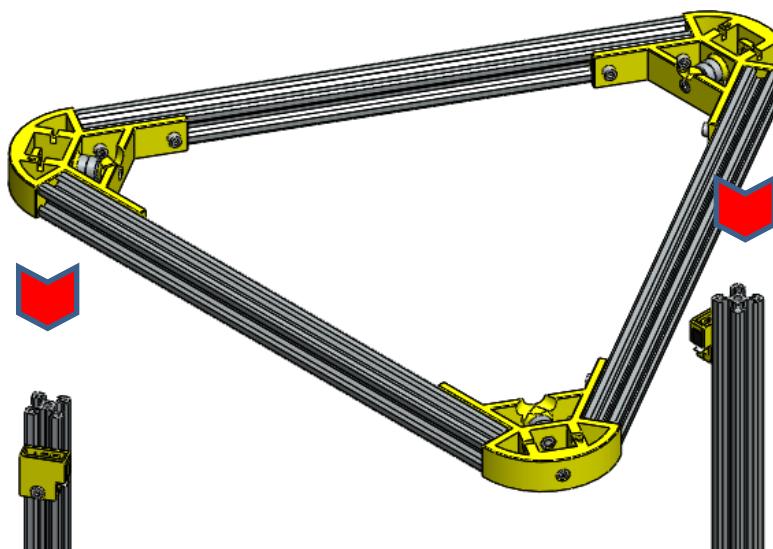


Insertar las tres tuercas



3x 3x 3x 6x 12x 15x

## Acoplamiento estructura superior e inferior



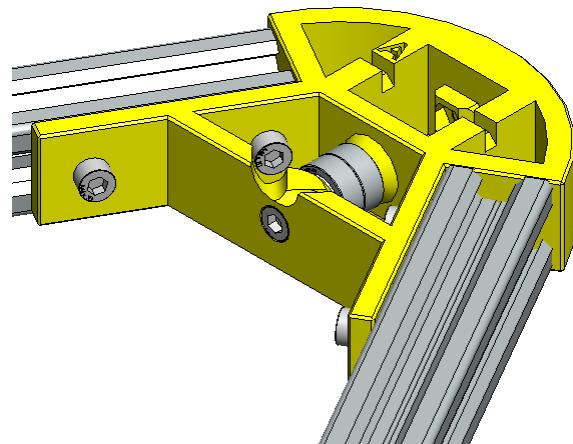
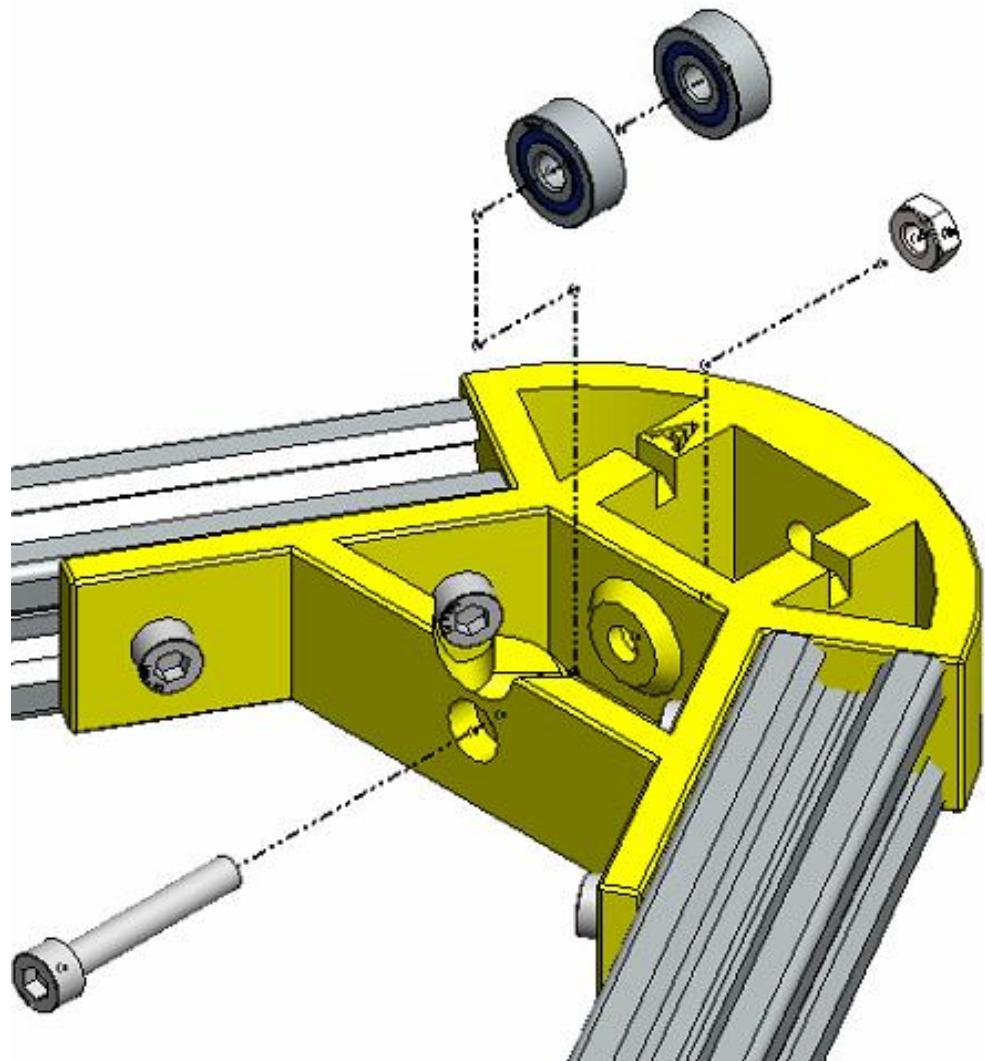
El perfil v-slot tiene que quedar  
alineado con la pieza

M4x10



3x

## Montaje cojinetes correa



**x3**



1x



1x

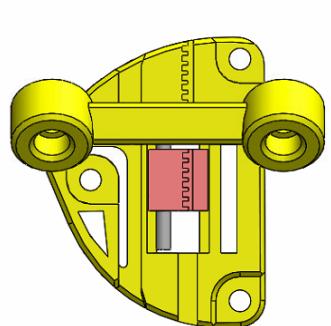


D31

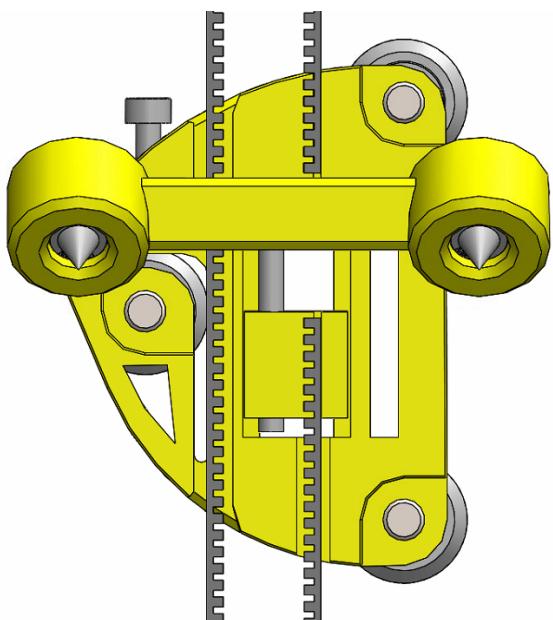
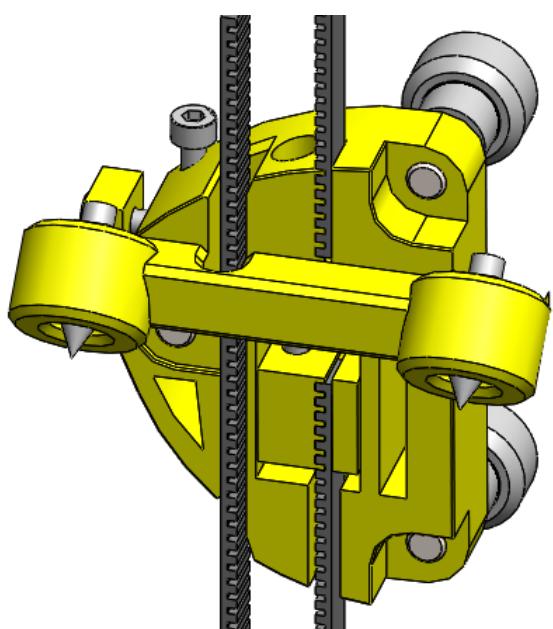
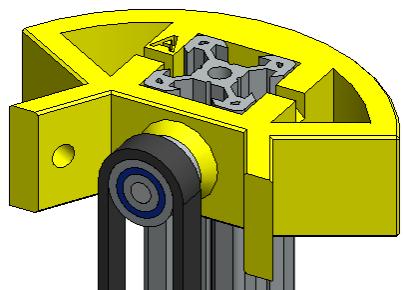
2x

**24**

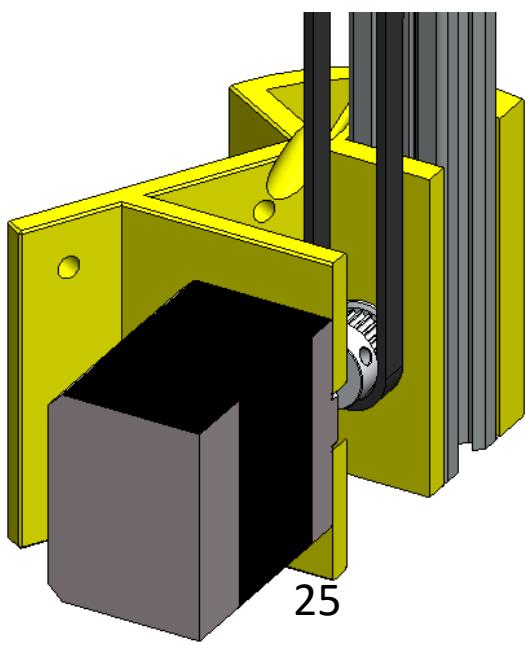
# Montaje correa



Ajustar la pieza en rojo  
para tensar la correa

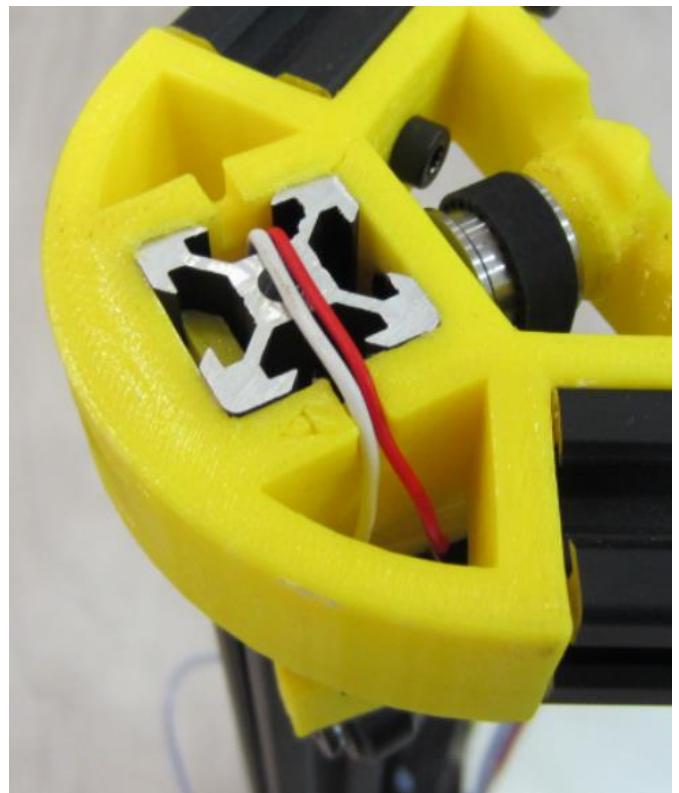
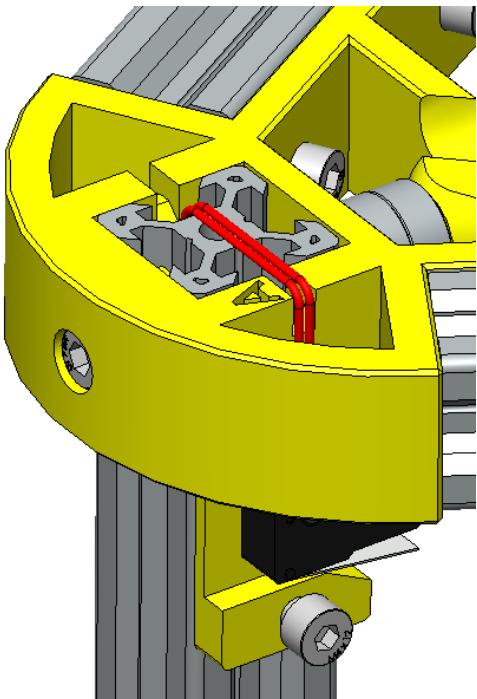


1x

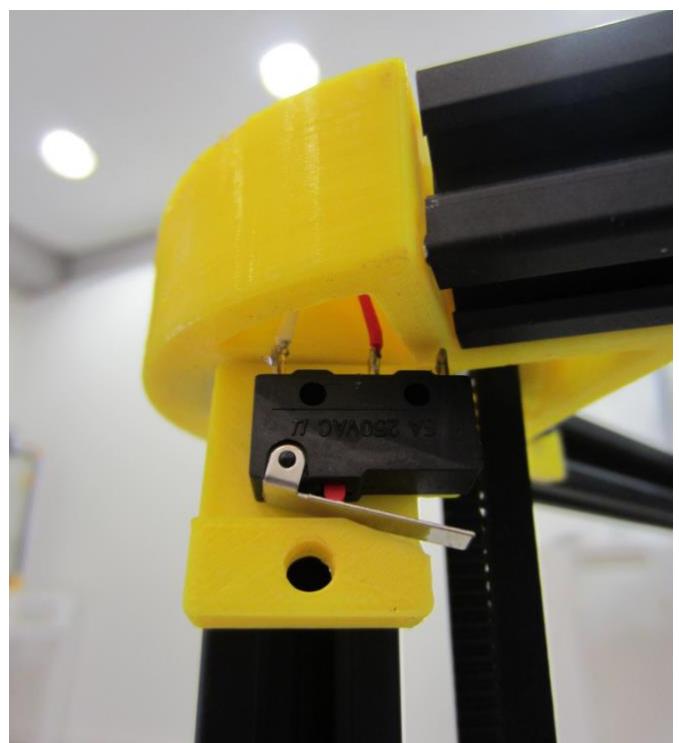


25

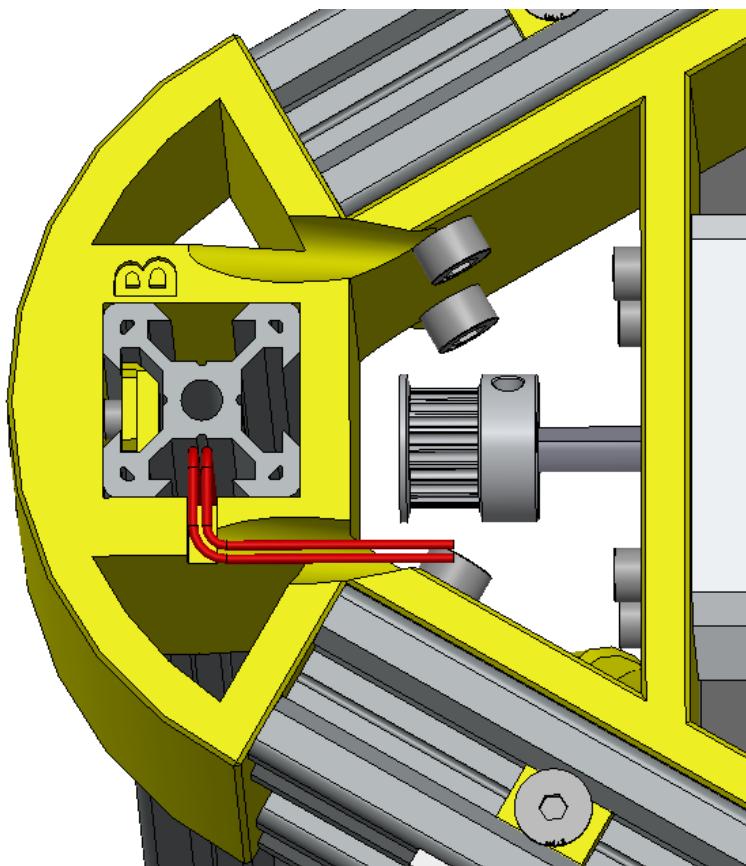
## Montaje cables final de carrera (parte superior)



Dejar pasar los hilos  
como en la foto



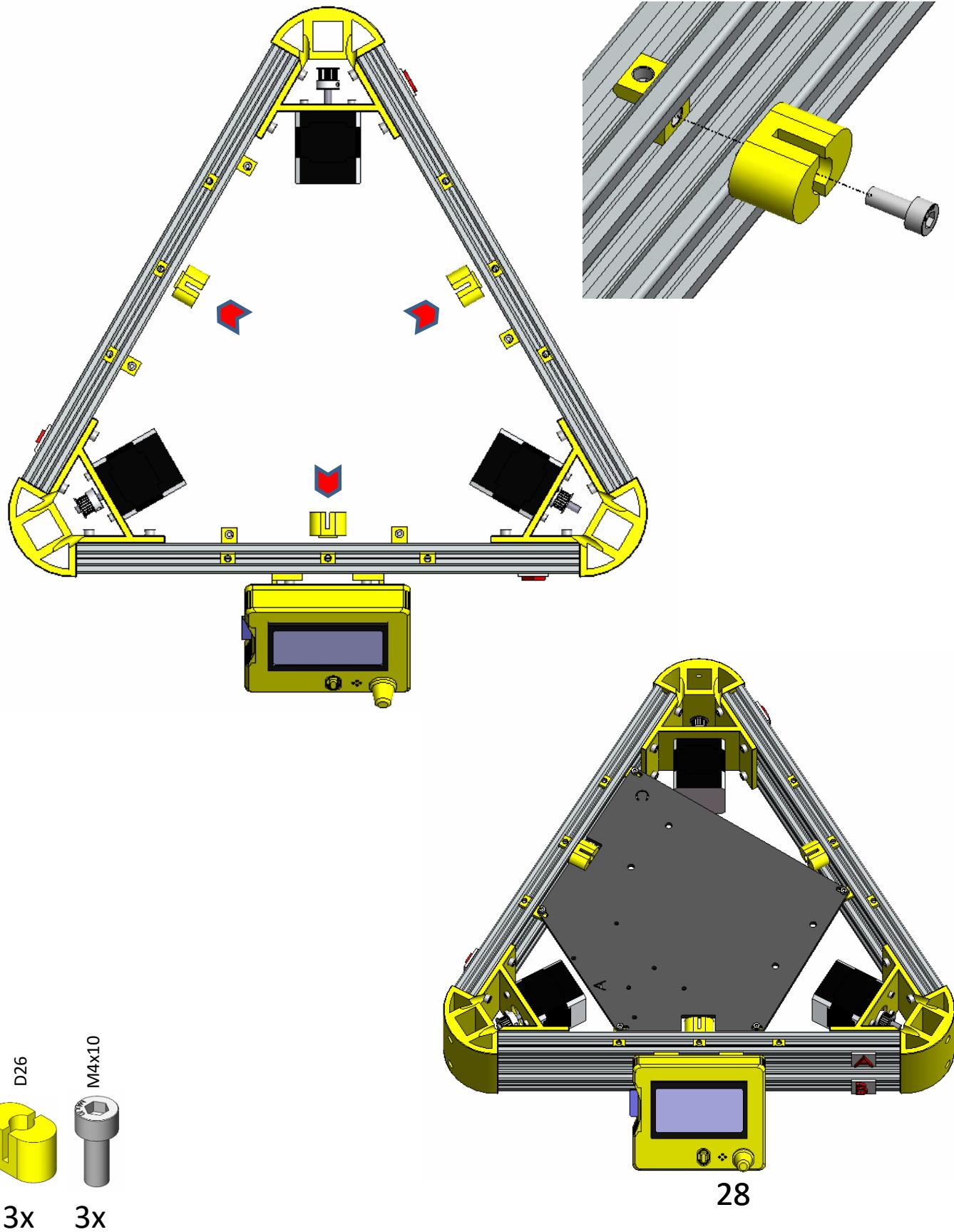
## Montaje cables final de carrera (parte inferior)



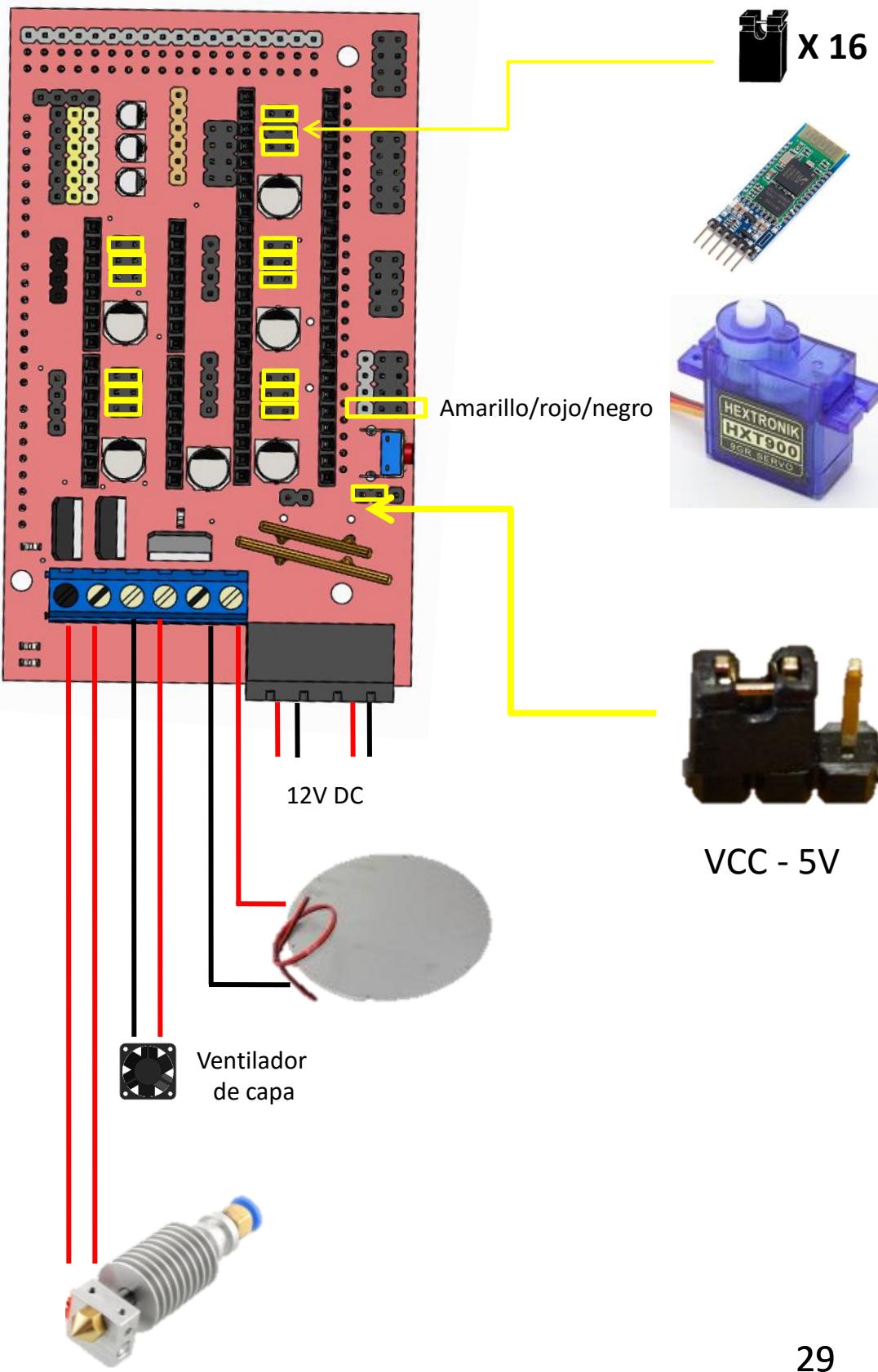
Dejar pasar los hilos  
como en la foto



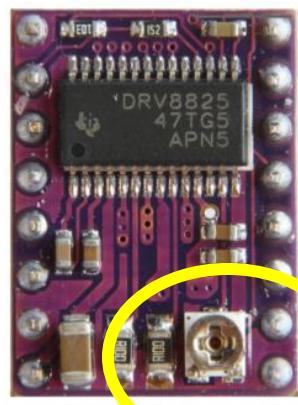
# Montaje soportes base caliente



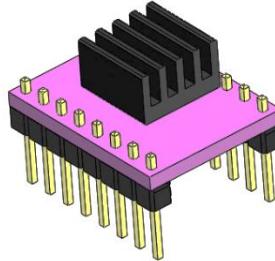
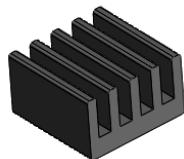
# Conexión RAMPS 1.4



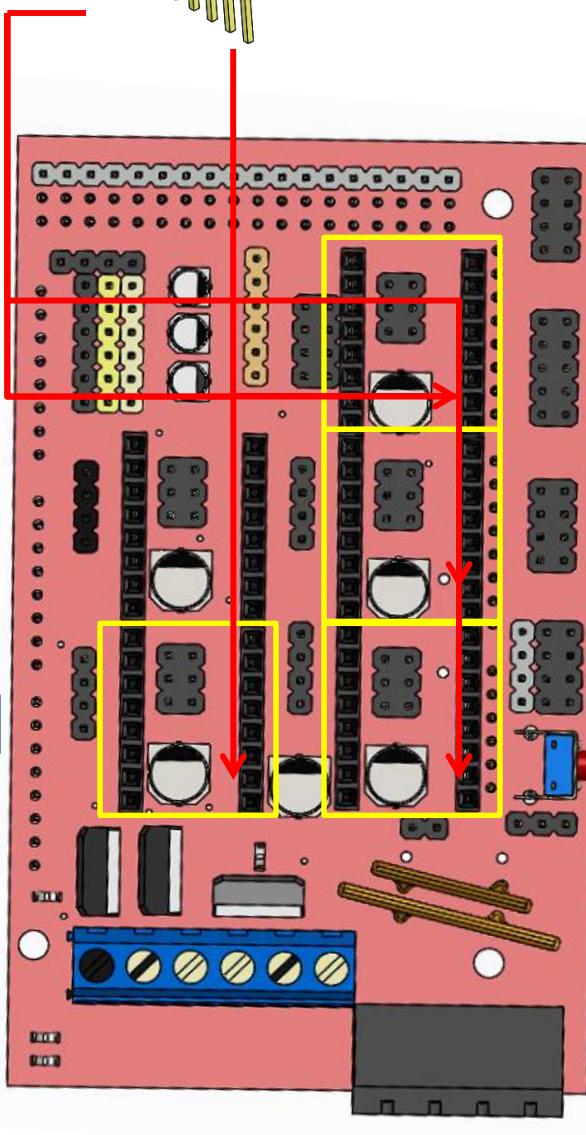
# Montaje drivers motores



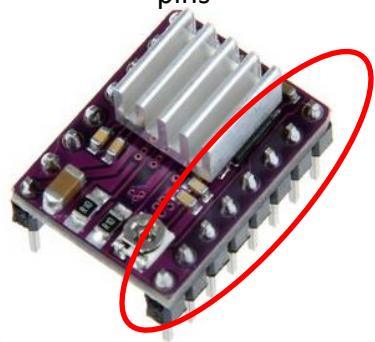
X 4



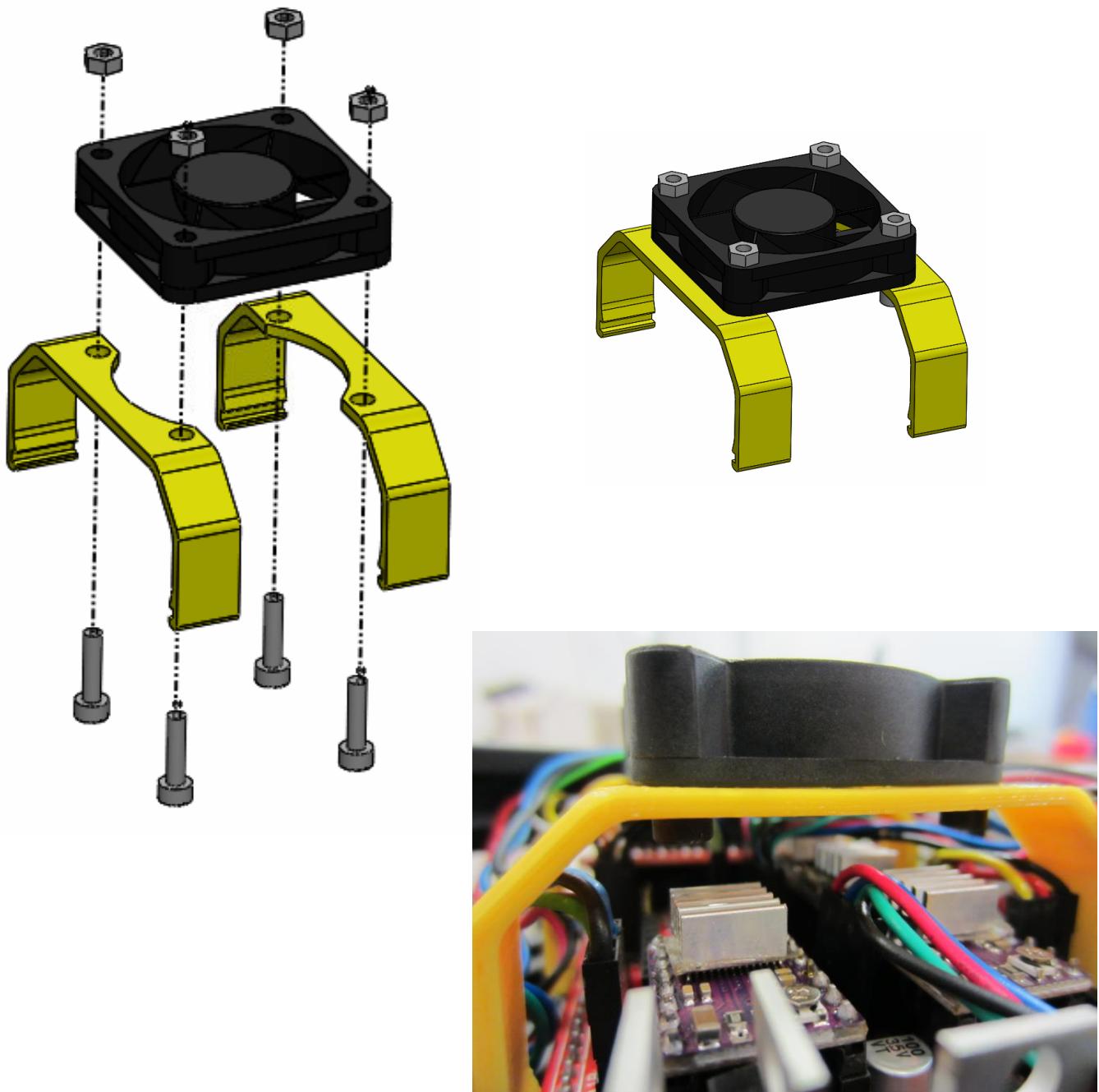
Sentido correcto  
del DRV



Montar disipador sin crear  
cortocircuito con los  
pins



## Montaje ventilador RAMPS 1.4



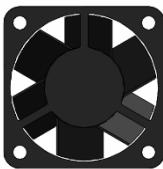
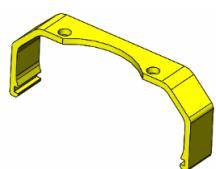
Montado correctamente para enfriar los drivers

D60

D61

M3x10

M3



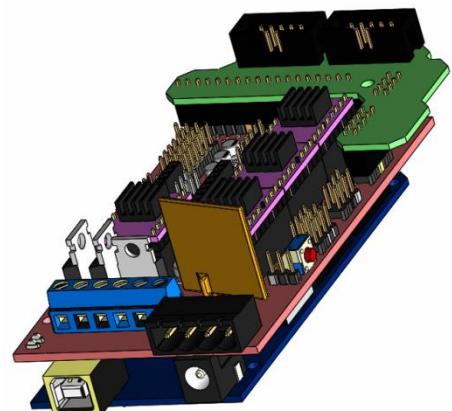
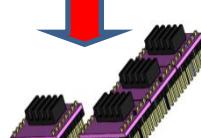
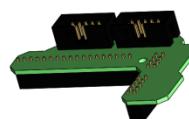
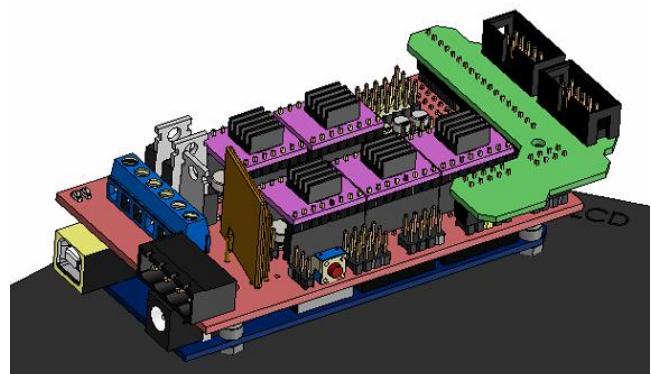
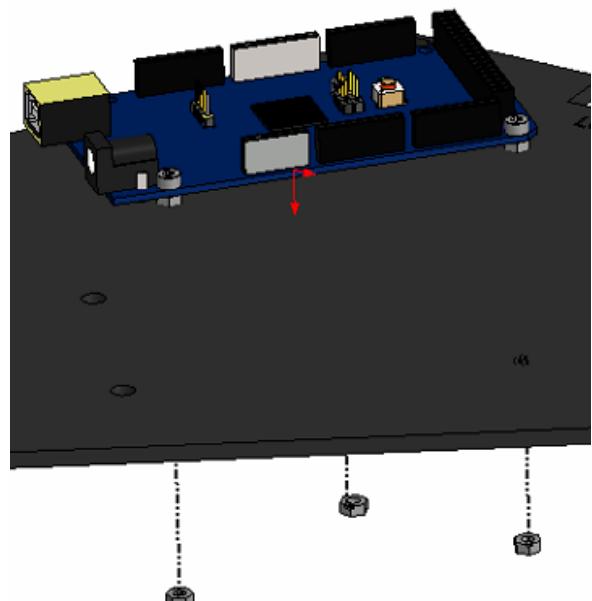
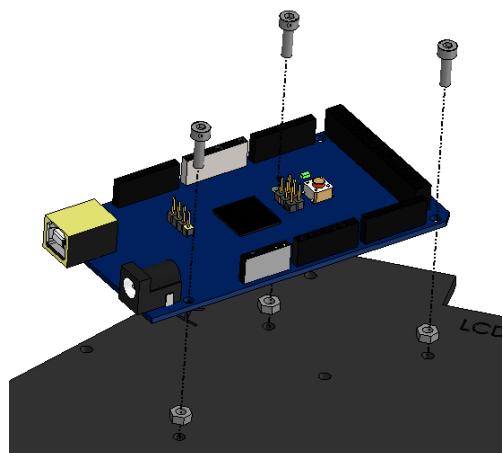
1x

1x

4x

4x

# Montaje Arduino + RAMPS 1.4



M3x12

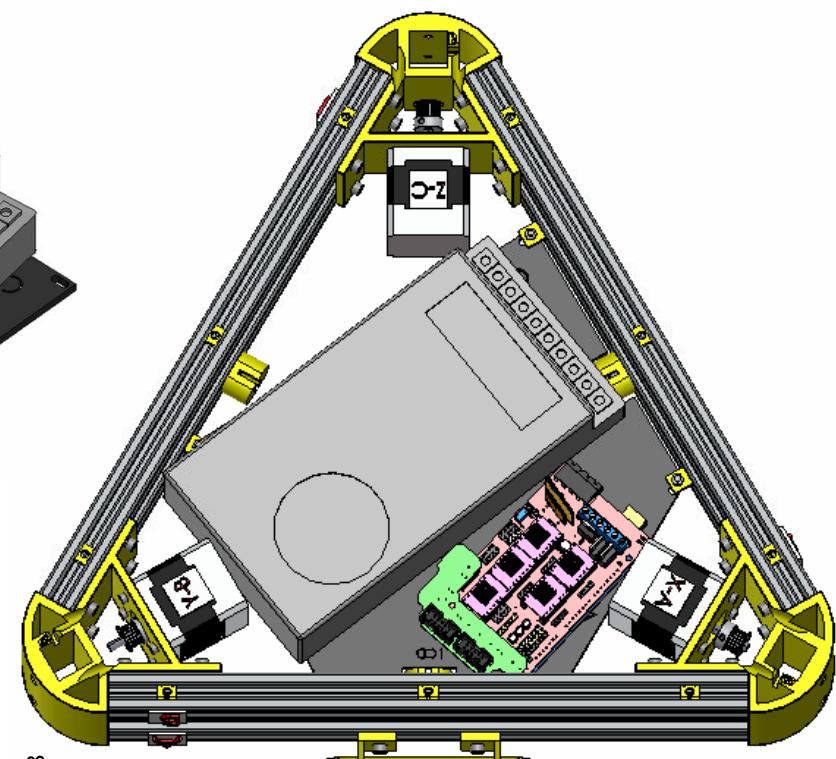
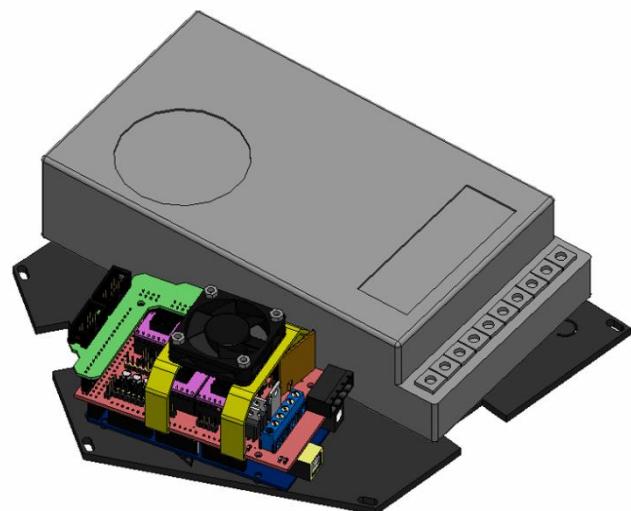
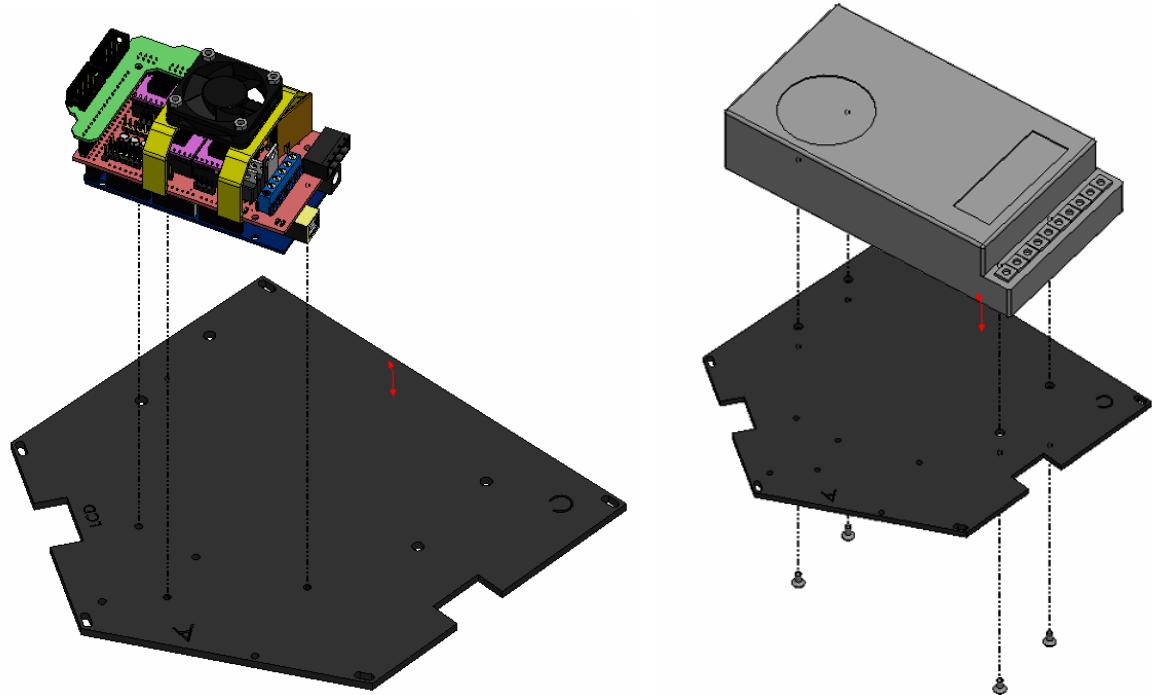


M3

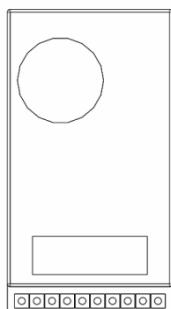
3x



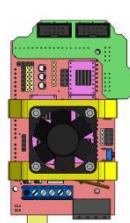
# Montaje conjunto Arduino + fuente alimentación



D47



1x



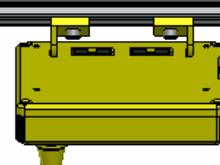
KIT

M3x25



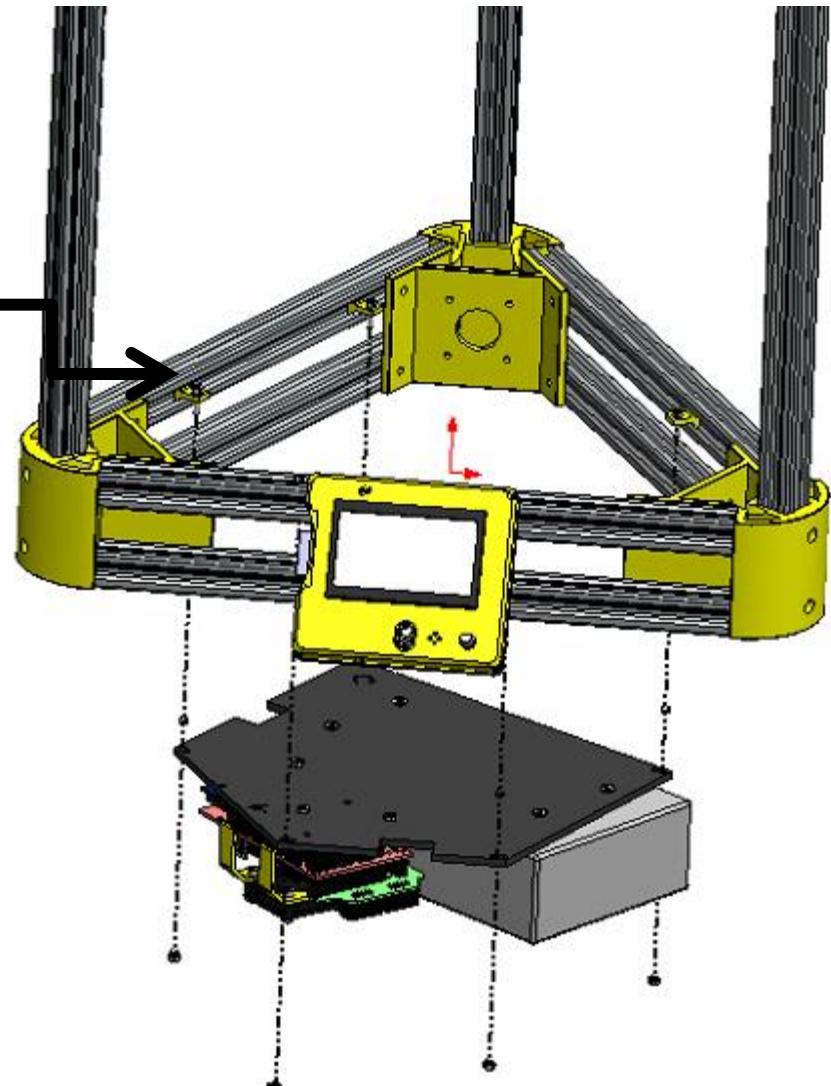
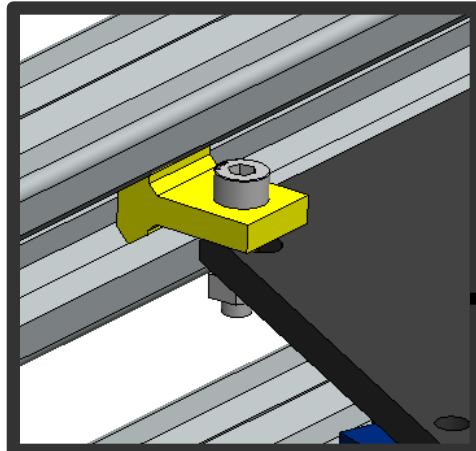
M4

M4x8

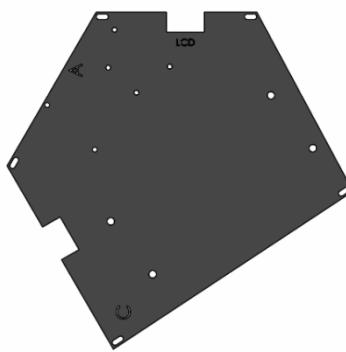


33

## Montaje soporte kit Arduino + fuente



D65



1x

M3x12

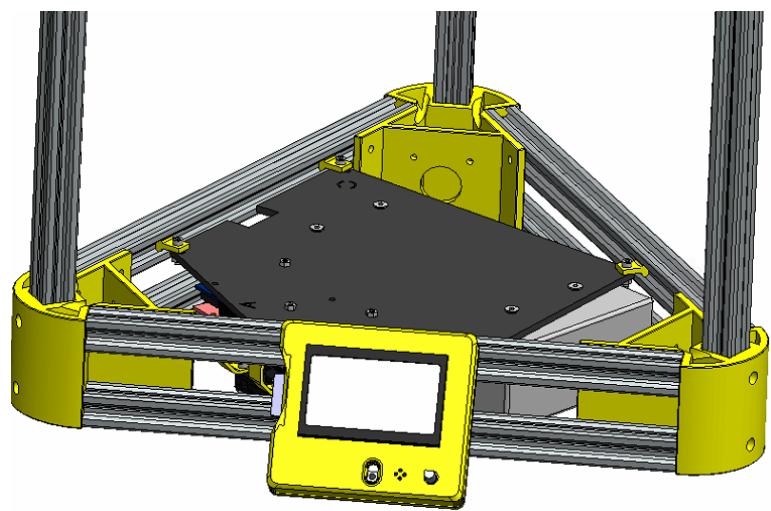


M3



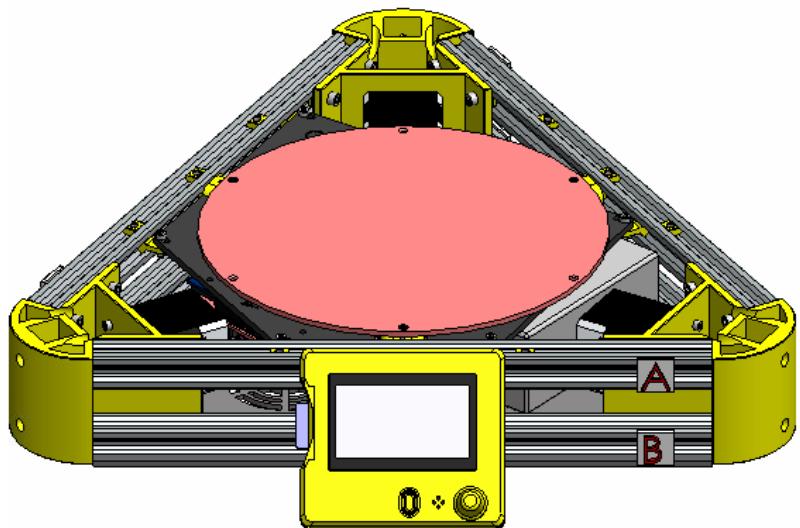
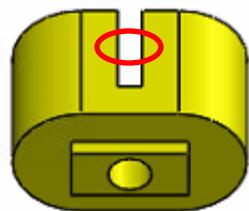
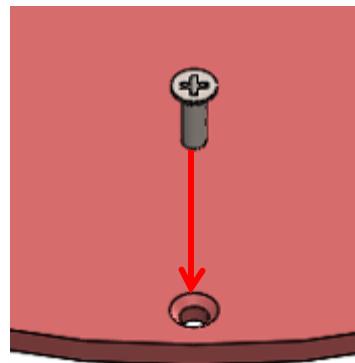
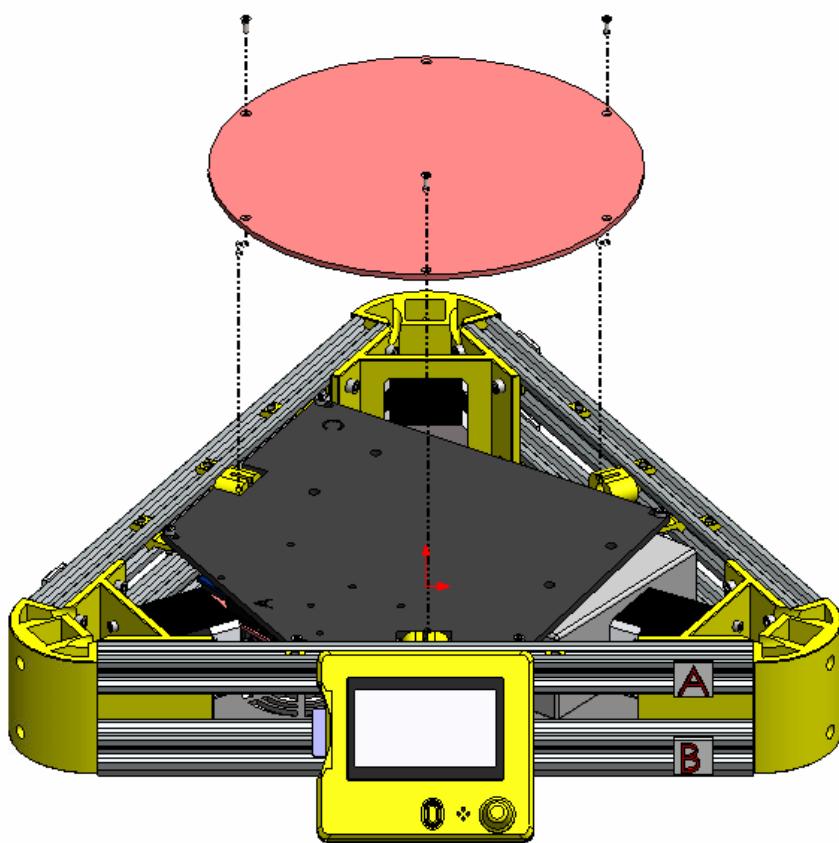
5x

5x



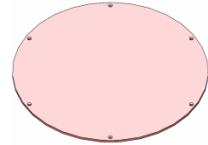
34

## Montaje base caliente – cara aluminio arriba



D49

TORNILLO

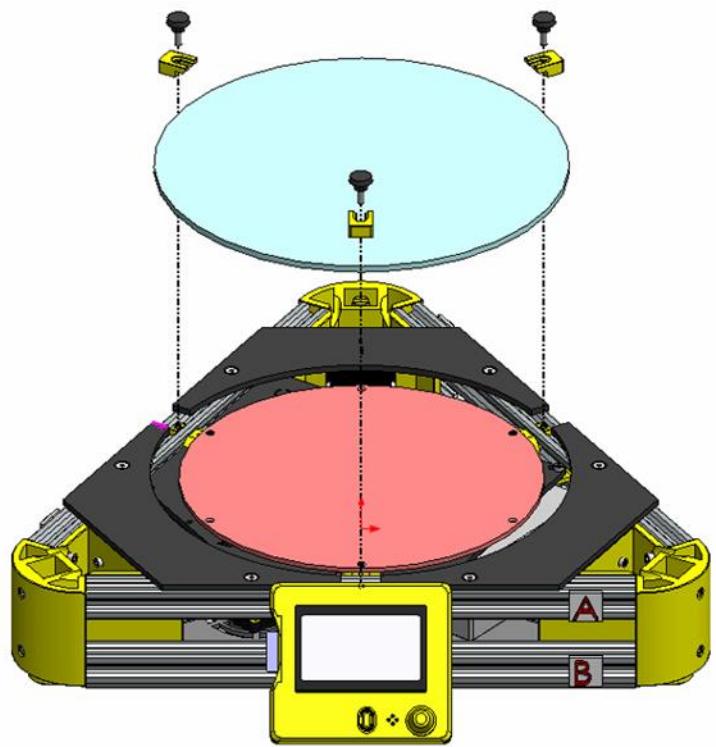
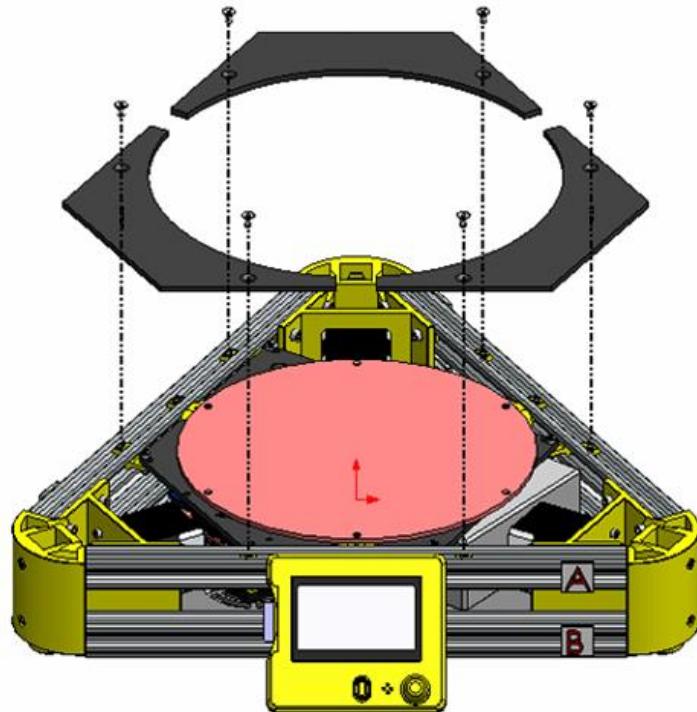


1x



3x

## Montaje cristal y embellecedores



D52

D48

D50

M4x10

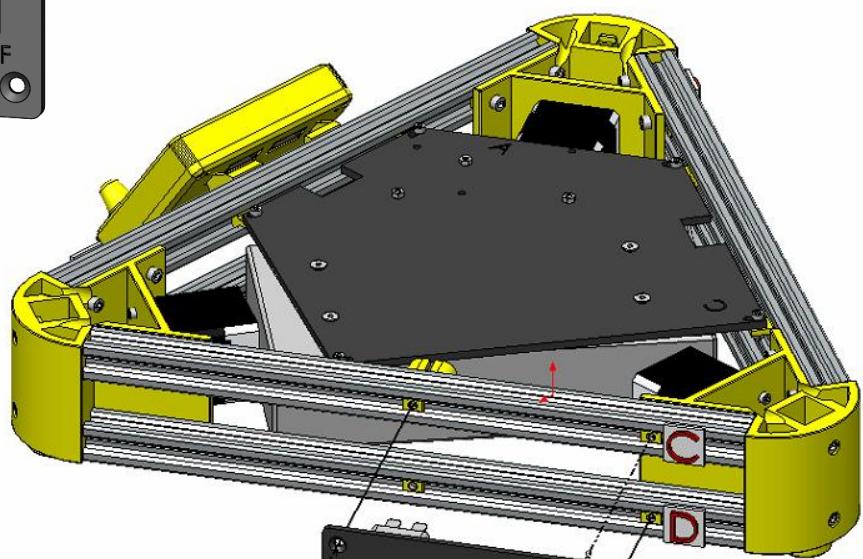
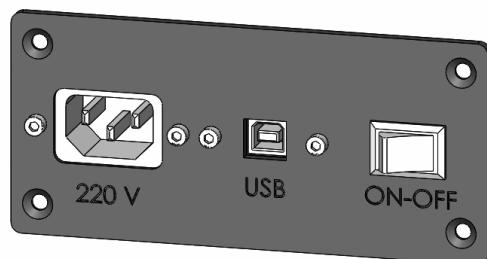
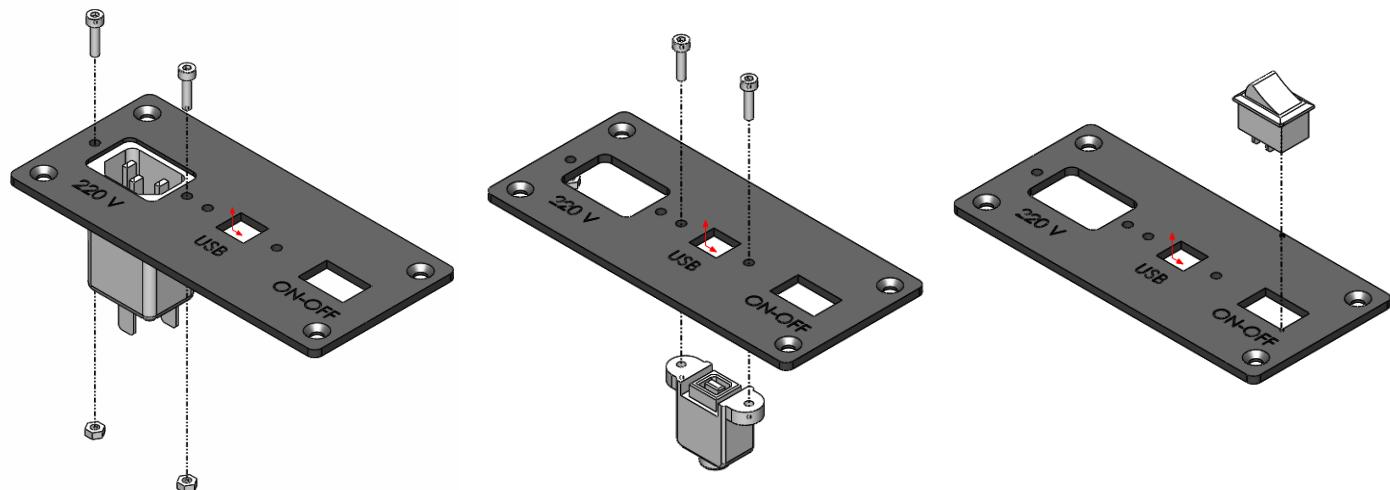
3x

1x

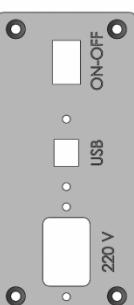
3x

3x

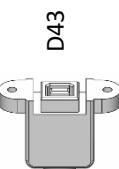
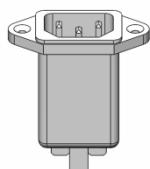
## Montaje panel alimentación



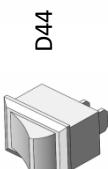
D41



D42



D43



D44



M3X12



M3



M4X8

1x

1x

1x

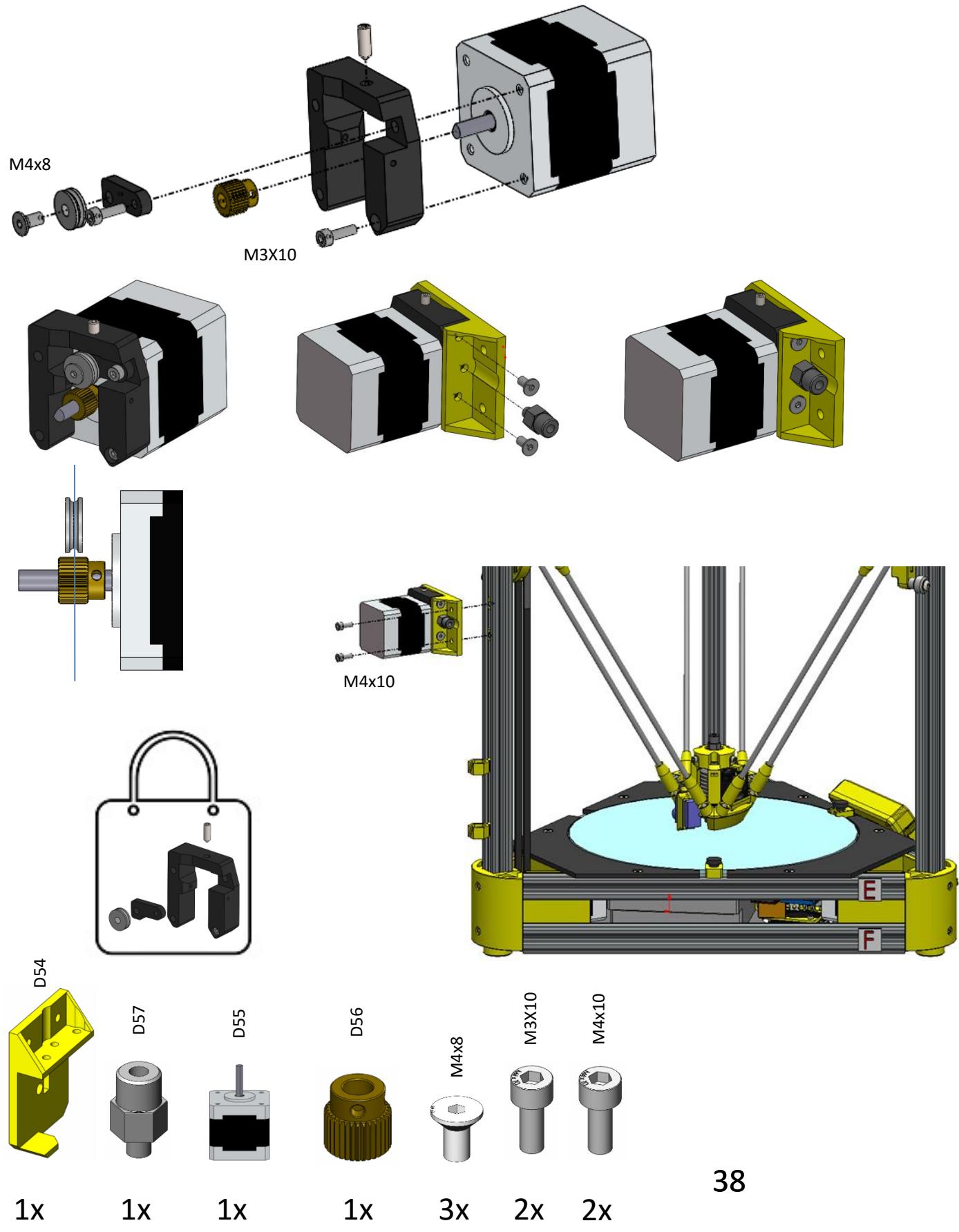
1x

4x

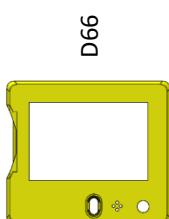
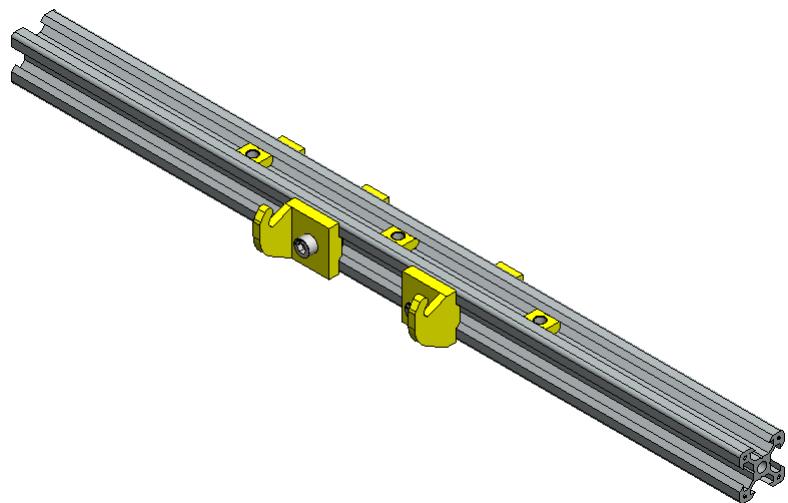
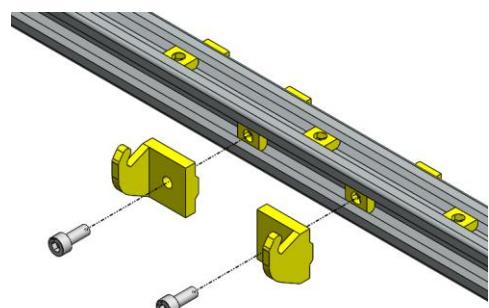
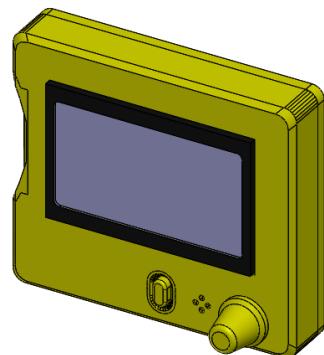
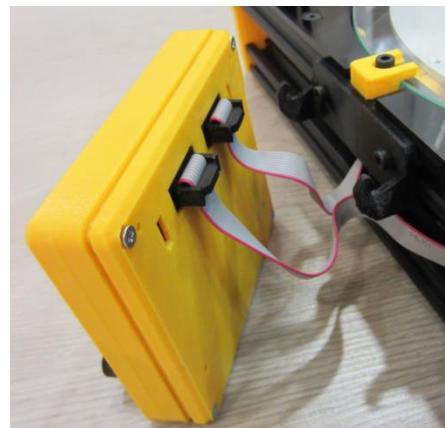
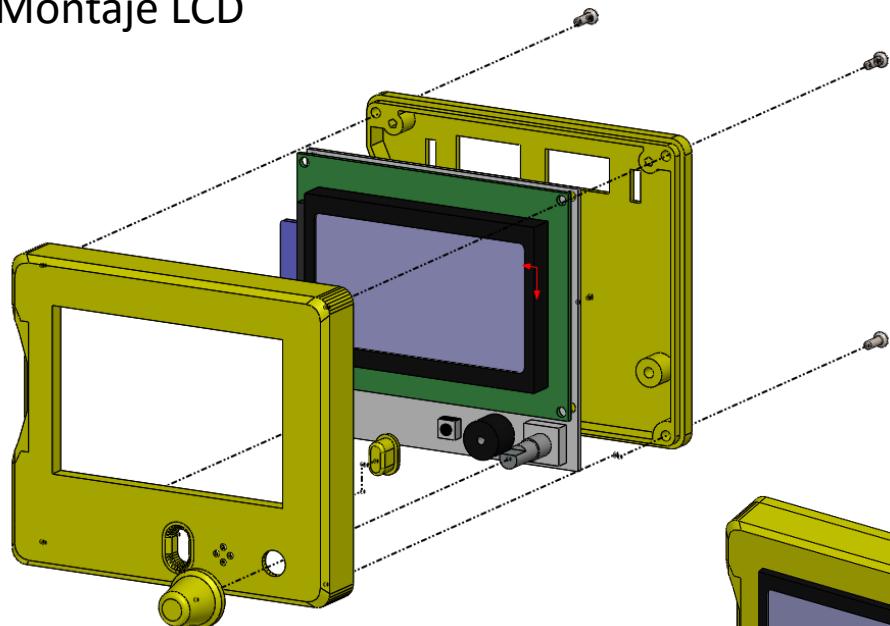
2x

4x

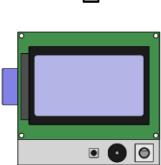
# Montaje motor extrusor



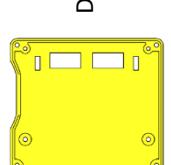
## Montaje LCD



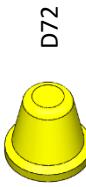
1x



3x



6x



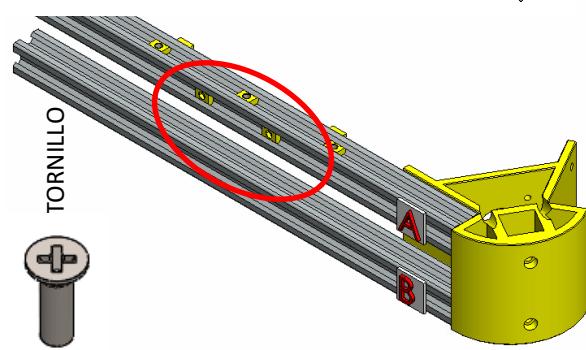
6x



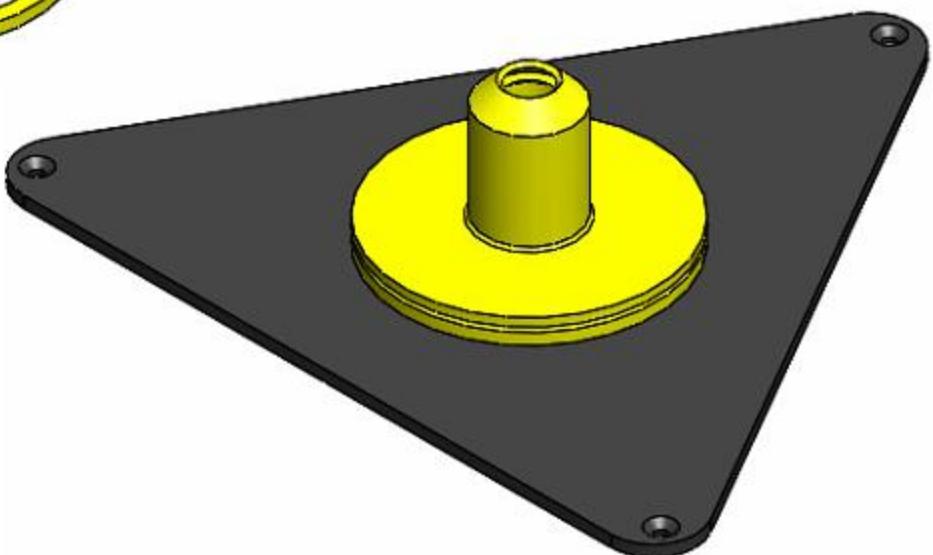
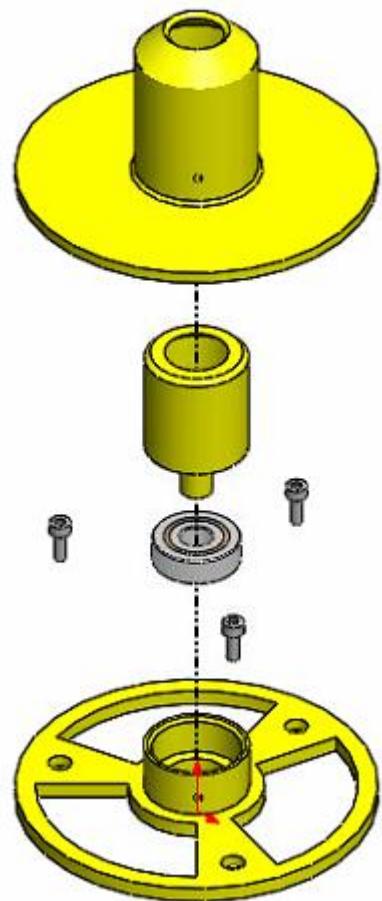
1x



4x



# Montaje soporte rollo



D77

D73

D74

D75

D76

M3x10

M3

1x

1x

1x

1x

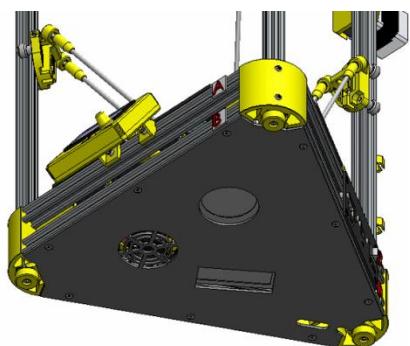
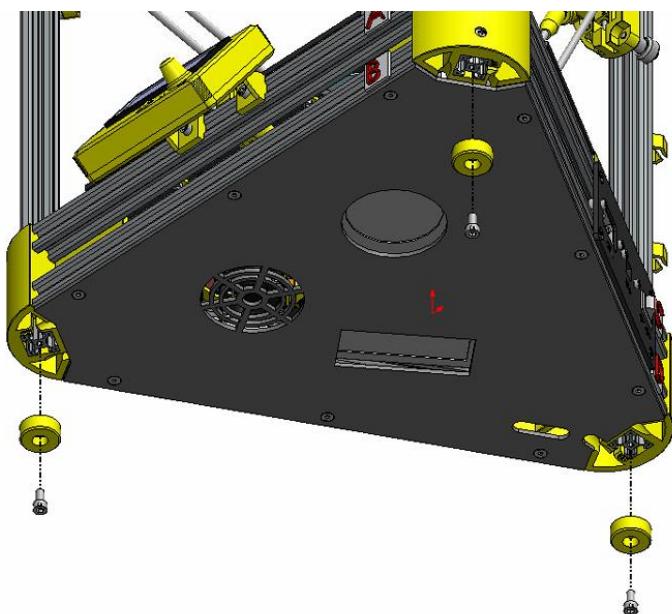
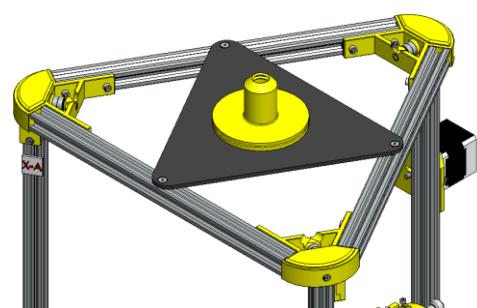
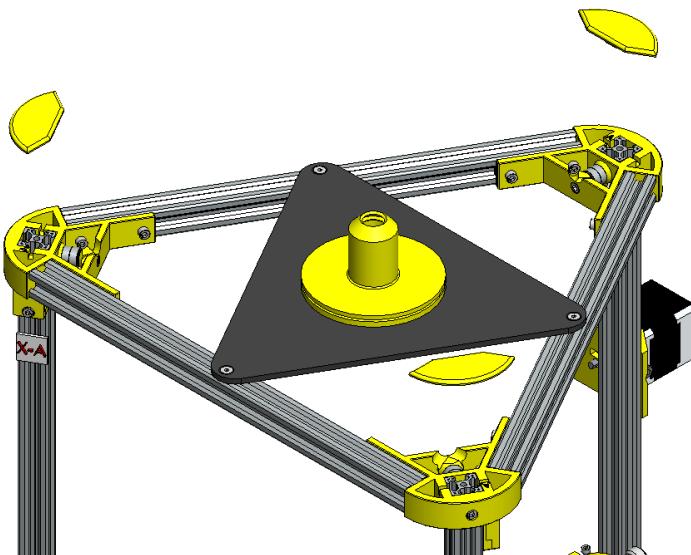
1x

3x

3x

40

# Montaje embellecedor delta superior e inferior



D23

D22

M5x10

M4x8

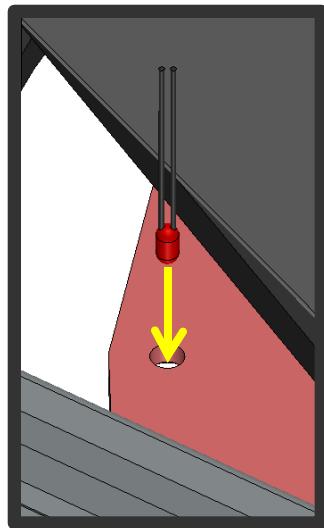
3x

3x

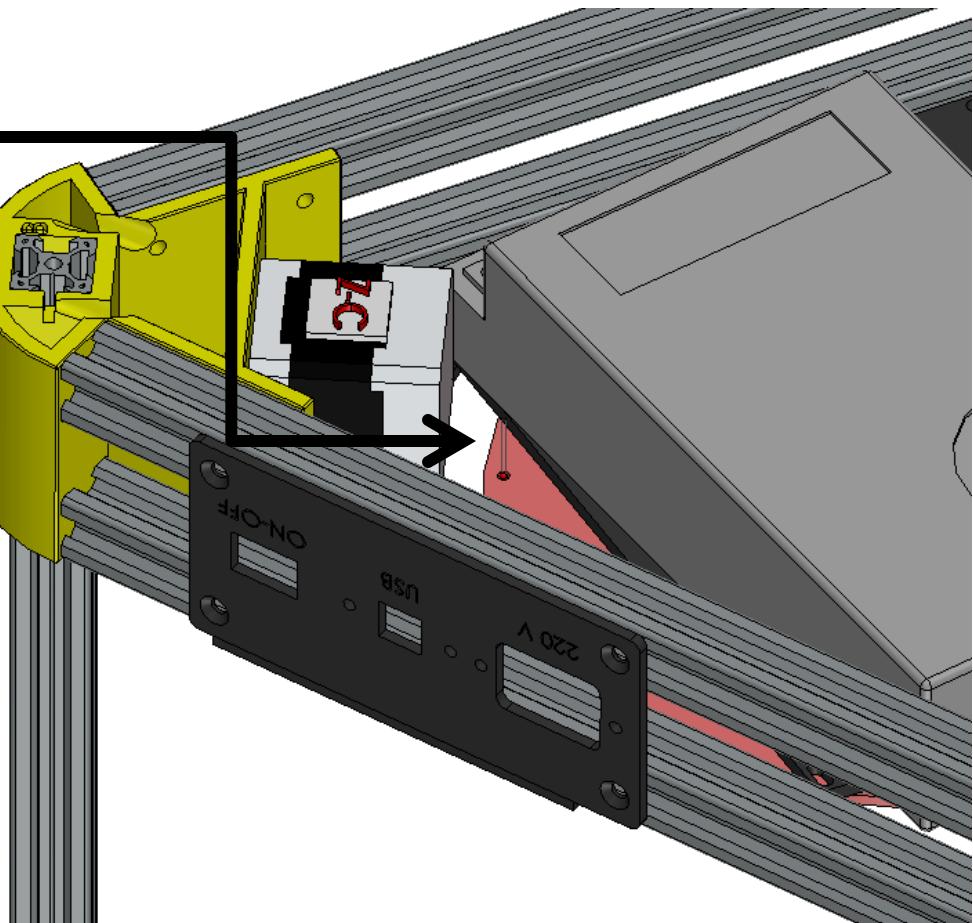
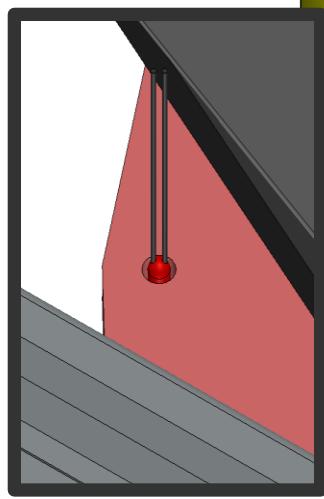
3x

3x

# Montaje termistor



Hundir el termistor en la pasta térmica y bloquearlo que no se salga.



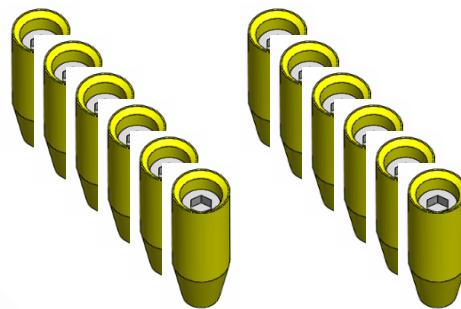
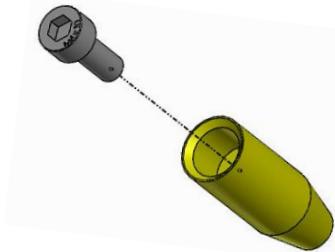
D51

PASTA TERMICA

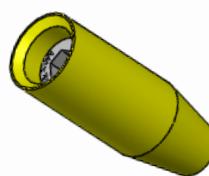


1x

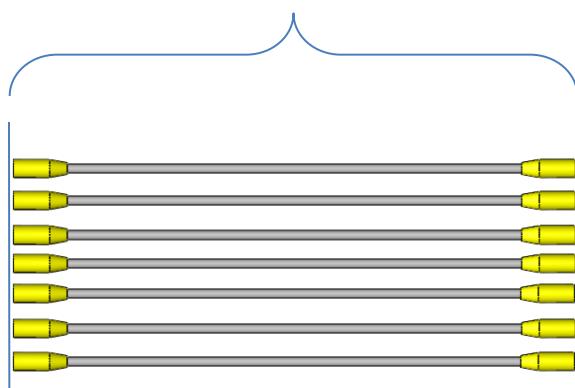
## Montaje varillas



D39



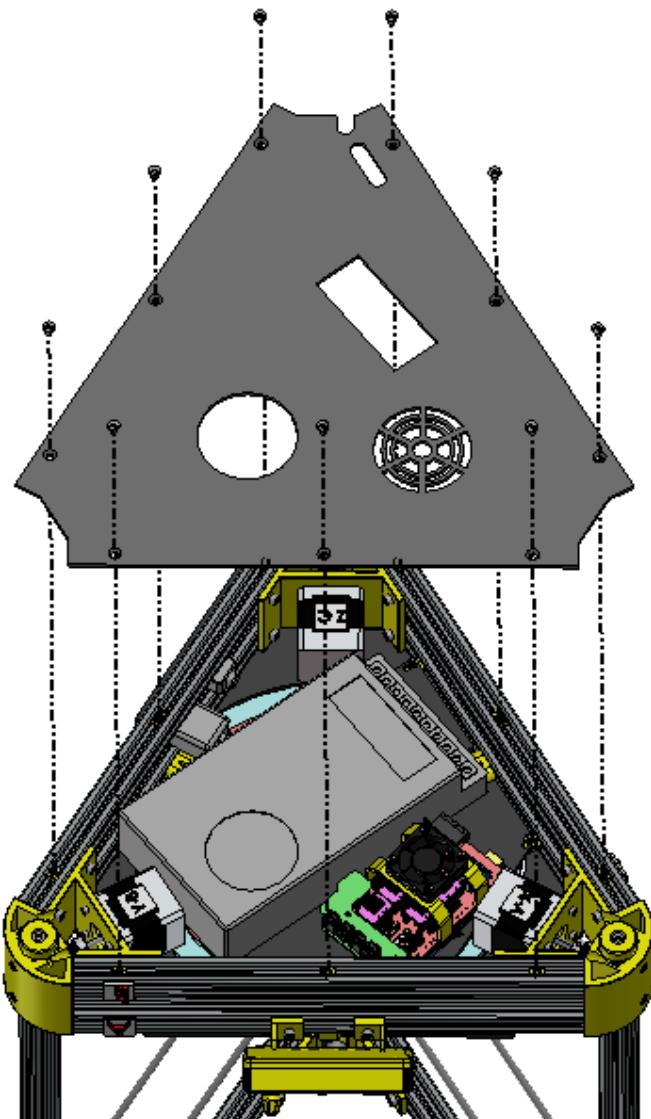
Las varillas tiene que ser  
todas iguales en longitud



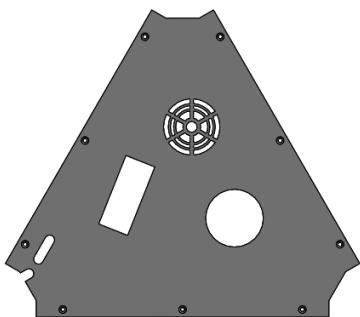
43

1x 2x 2x

## Montaje tapa base impresora



D53

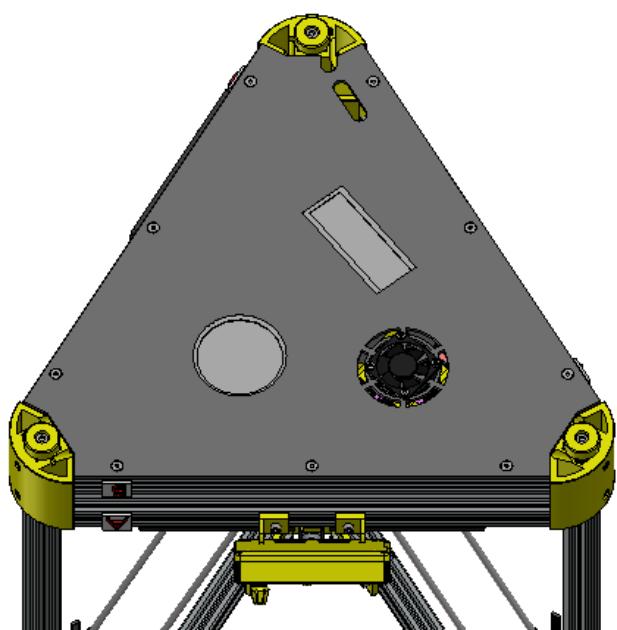


1x

M4x8



9x



44