

# QAV-PRO MEGA WHOOP

PROFESSIONAL EQUIPMENT FOR CINEMATIC FPV



PRODUCT MANUAL



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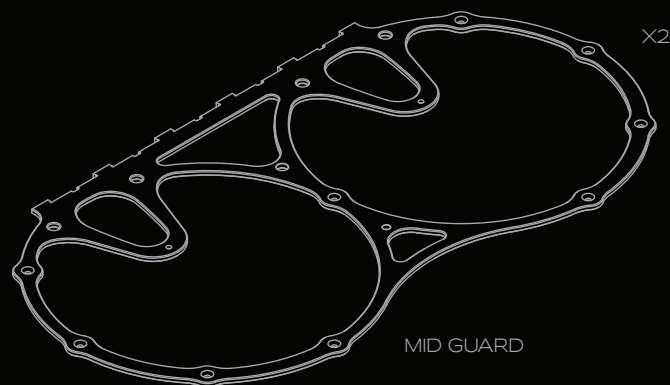
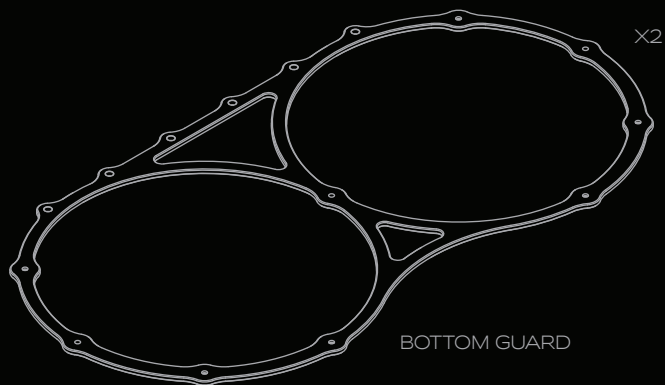
STEP # 4 CORE ASSEMBLY







STEP # 5 GUARDS ASSEMBLY

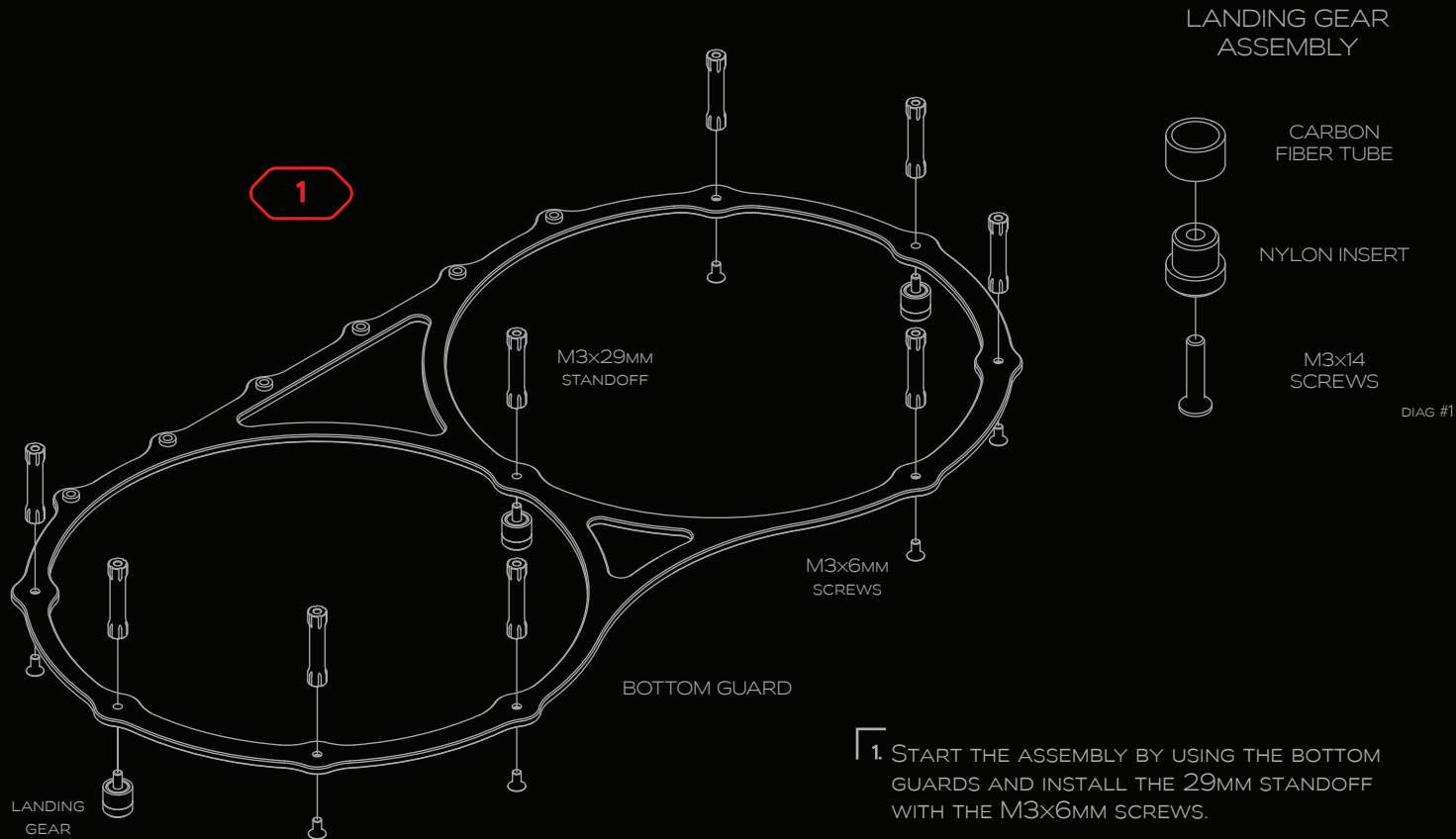
STEP # 6 FINAL ASSEMBLY

# PARTS NEEDED FOR THIS ASSEMBLY

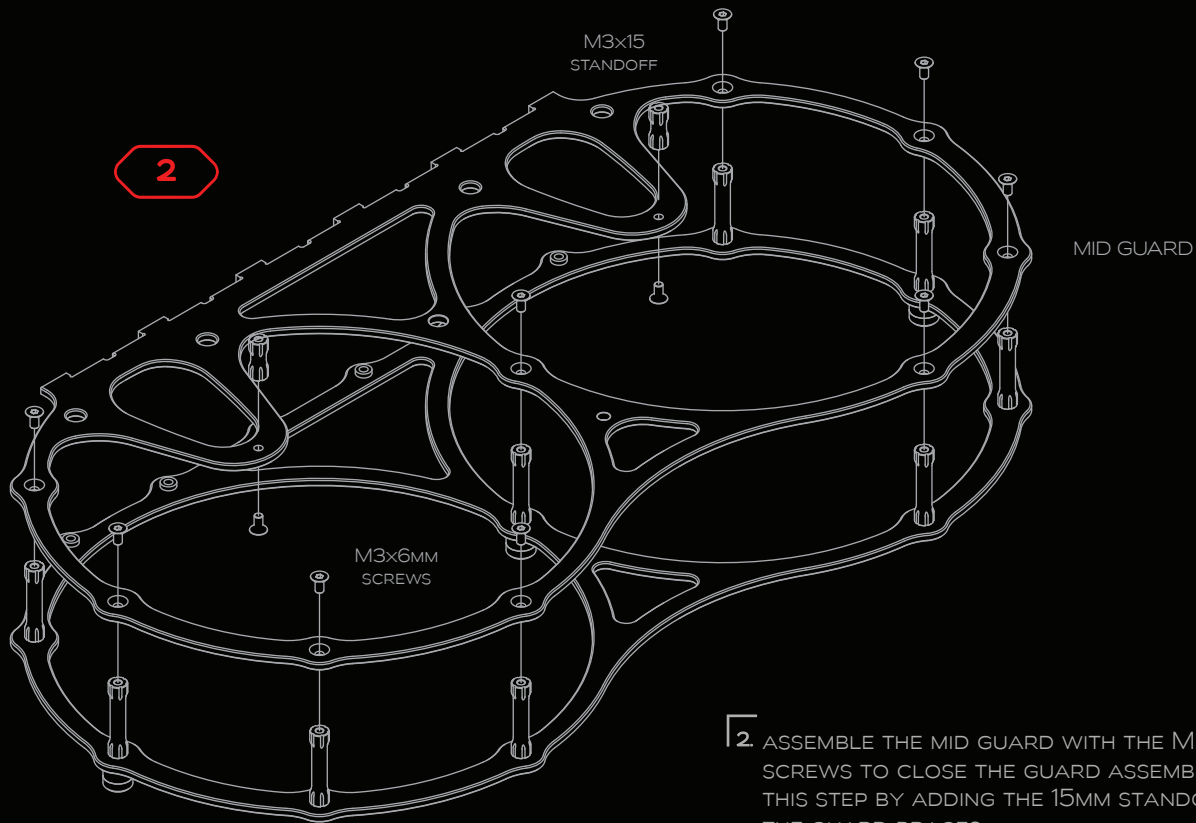
GUARDS PRE-ASSEMBLY



- X34  
  
M3x6MM SCREWS
- X6  
  
M3x14MM SCREWS
- X4  
  
M3x15 STANDOFF
- X18  
  
M3x29MM STANDOFF
- X6  
  
CARBON FIBER TUBE
- X6  
  
NYLON INSERT



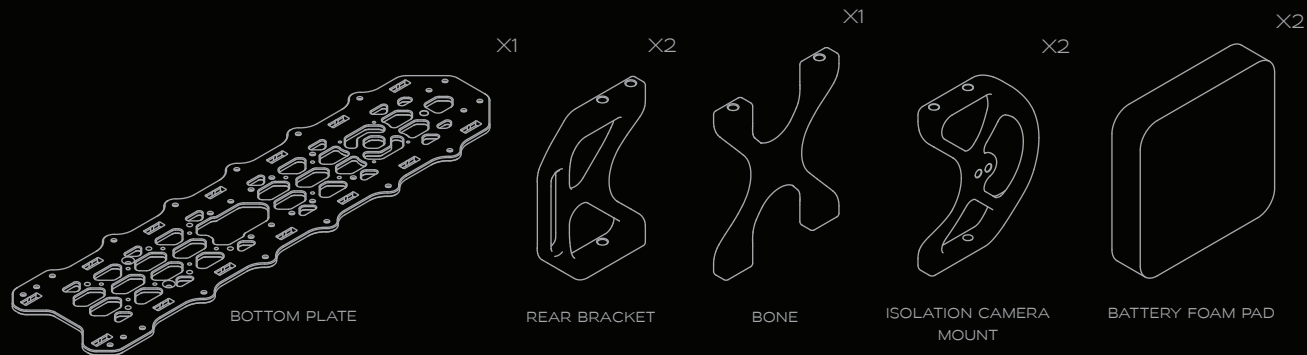
ASSEMBLE THE LANDING GEAR WITH A M3x14MM SCREW RUNNING INSIDE THE NYLON INSERT AND THE LANDING GEAR TUBE. DIAG #1



- 2 ASSEMBLE THE MID GUARD WITH THE M3x6MM SCREWS TO CLOSE THE GUARD ASSEMBLY. FINISH THIS STEP BY ADDING THE 15MM STANDOFFS FOR THE GUARD BRACES.

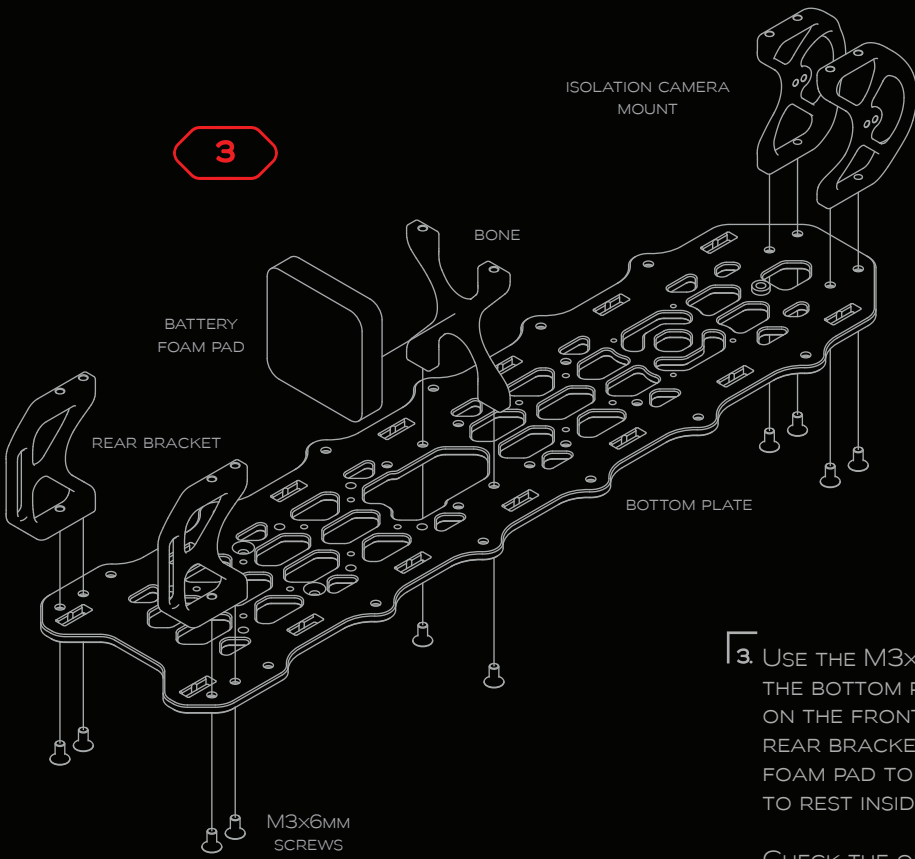
# PARTS NEEDED FOR THIS ASSEMBLY

## BOTTOM PLATE PRE-ASSEMBLY



## ISOLATION CAMERA MOUNT ORIENTATION

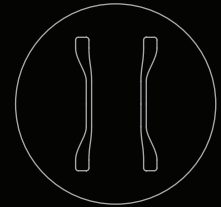
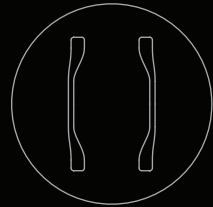
3



03 / 20MM  
CAMERA SETUP



19MM  
CAMERA SETUP

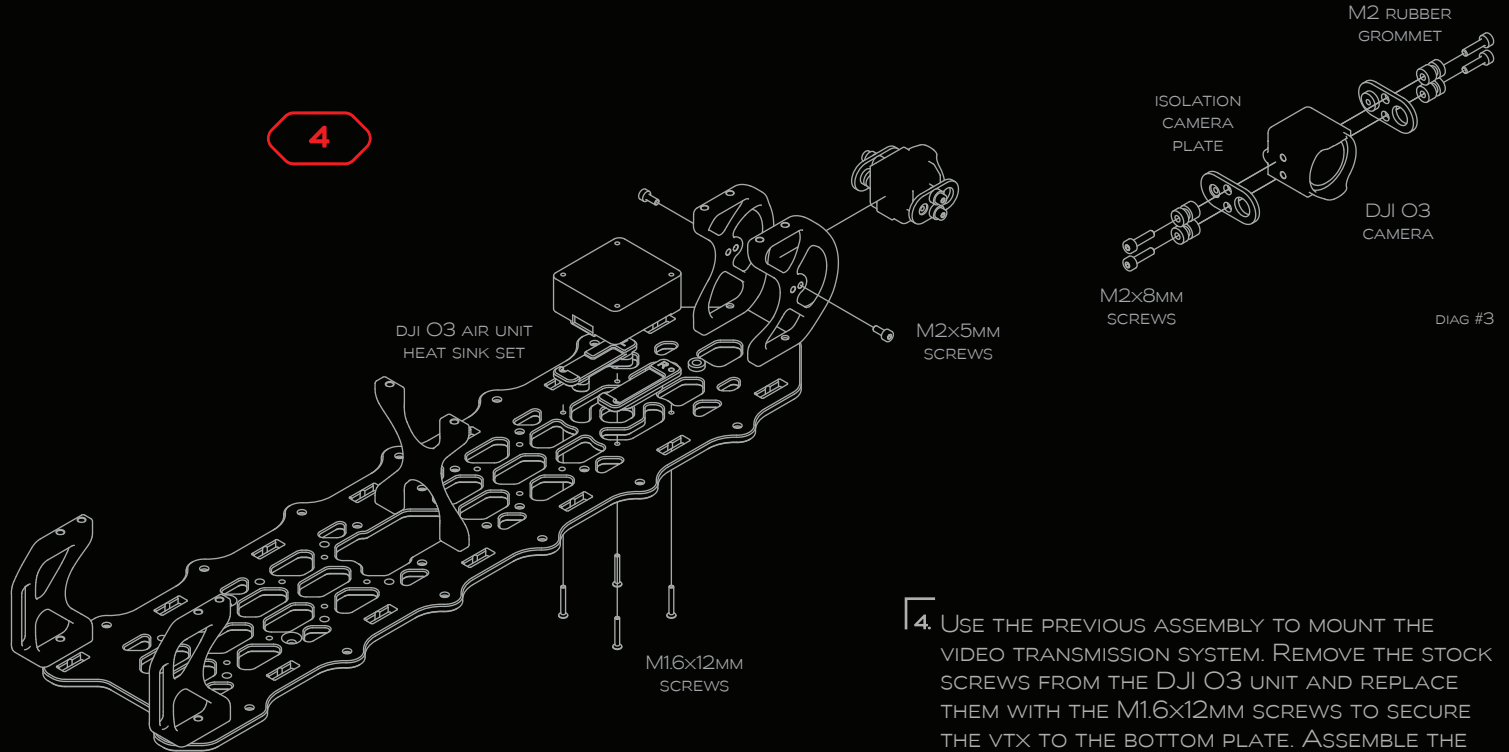


DIAG #2

3. USE THE M3x6MM SCREWS TO SECURE THE ALUMINUM PARTS TO THE BOTTOM PLATE. THE ISOLATION CAMERA MOUNT ATTACHES ON THE FRONT, THE BONE ATTACHES IN THE MIDDLE AND THE REAR BRACKET ATTACHES TO THE BACK. STICK THE BATTERY FOAM PAD TO THE BONE, THIS IS WHERE THE BATTERY IS GOING TO REST INSIDE OF THE FRAME.

CHECK THE ORIENTATION OF THE ISOLATION CAMERA MOUNTS DEPENDING ON THE CAMERA THAT YOU WANT TO USE. DIAG #2

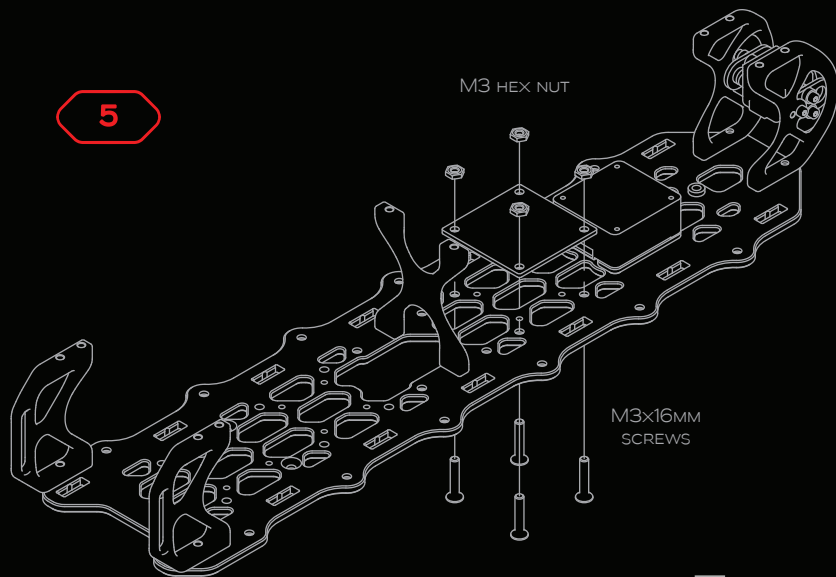
## CAMERA ISOLATION SYSTEM ASSEMBLY



4. USE THE PREVIOUS ASSEMBLY TO MOUNT THE VIDEO TRANSMISSION SYSTEM. REMOVE THE STOCK SCREWS FROM THE DJI O3 UNIT AND REPLACE THEM WITH THE M1.6x12MM SCREWS TO SECURE THE VTX TO THE BOTTOM PLATE. ASSEMBLE THE CAMERA ISOLATION SYSTEM AND BOLT IT TO THE BOTTOM PLATE BY USING M2x5MM SCREWS.

DIAG #3

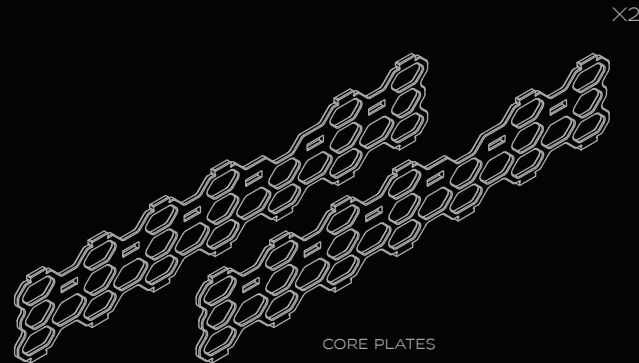
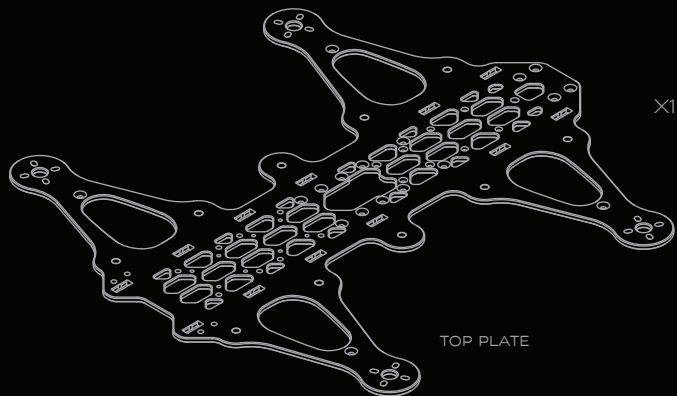




5. TO CONCLUDE THIS ASSEMBLY, INSTALL THE FLIGHT CONTROLLER TO THE BOTTOM PLATE BY USING M3x16MM SCREWS AND SECURE IT WITH M3 HEX NUTS.

# PARTS NEEDED FOR THIS ASSEMBLY

## TOP PLATE PRE-ASSEMBLY



X1

XT-90 MOUNT



X1

XT-90 PANNEL MOUNT



X2

CABLE BRACKET



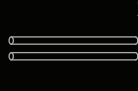
X1

XT-30 MOUNT SET



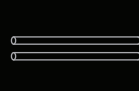
X2

XT-30 CONNECTOR



X2

10AWG POWER WIRE



X2

18AWG POWER WIRE



X4

MOTOR WASHER PLATE



X6

UNIVERSAL WASHER



X2

SMA PIGTAIL



X1

CROSSFIRE HORIZONTAL MOUNT



X1

CROSSFIRE VERTICAL MOUNT



X4

M3 HEX NUT



X4

M2x6MM SCREWS



X7

M3x6MM SCREWS



X7

M3x8MM SCREWS



X7

M3x10MM SCREWS



X16

M3x6MM SCREWS



X16

M3x8MM SCREWS



X4

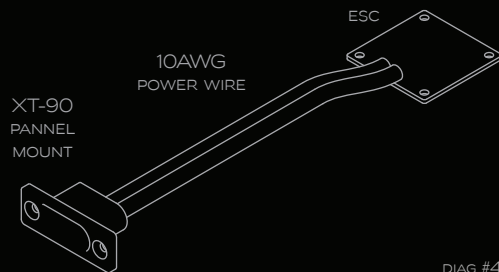
M3x16MM SCREWS



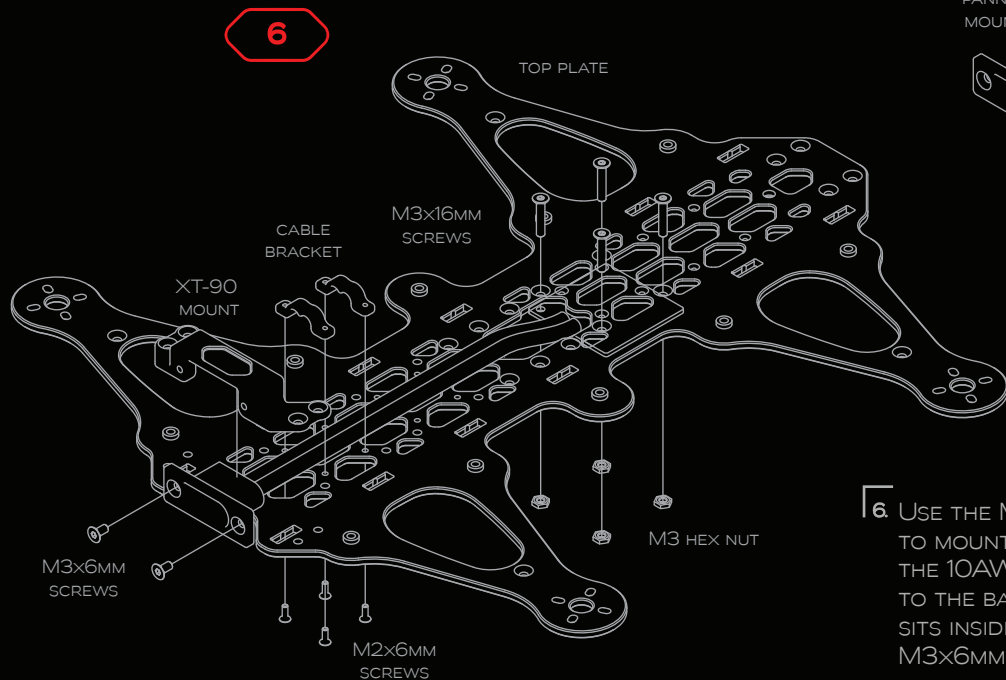
X4

M3x25MM SCREWS

## ESC XT-90 WIRING

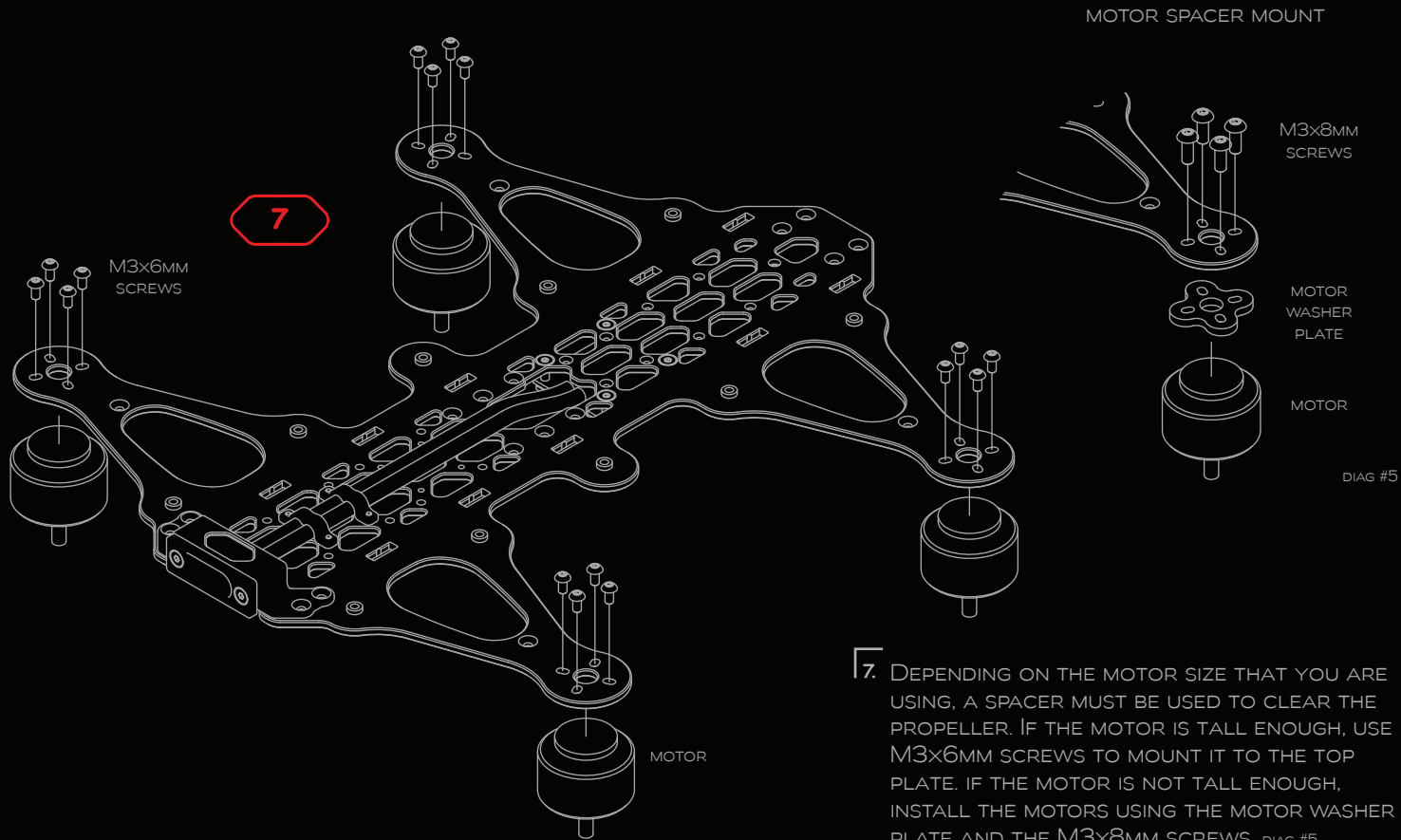


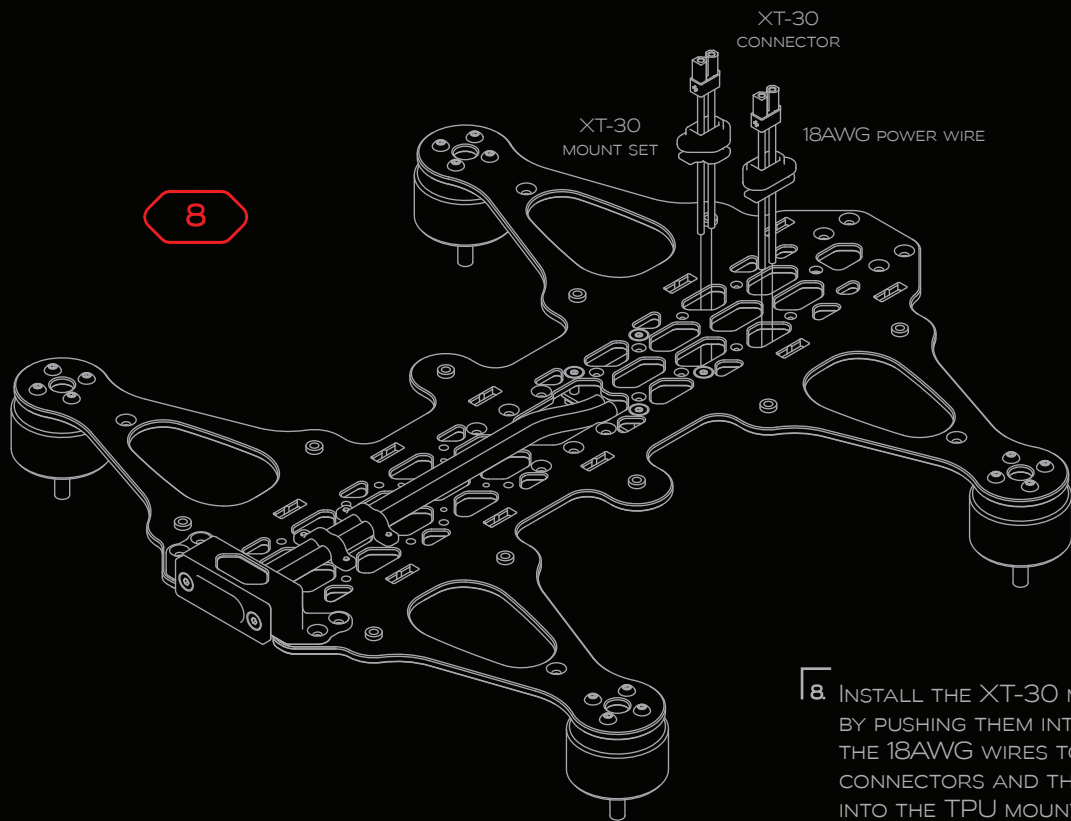
DIAG #4



6. USE THE M3x16MM SCREWS AND M3 HEX NUTS TO MOUNT THE ESC TO THE TOP PLATE, SOLDER THE 10AWG WIRES AND RUN THEM ALL THE WAY TO THE BACK WHERE THE XT-90 PANNEL MOUNT SITS INSIDE THE XT-90 ALUMINUM USING M3x6MM SCREWS. DIAG #4

SECURE THE WIRES USING 2 CABLE BRACKETS MOUNTED WITH M2x6MM SCREWS.





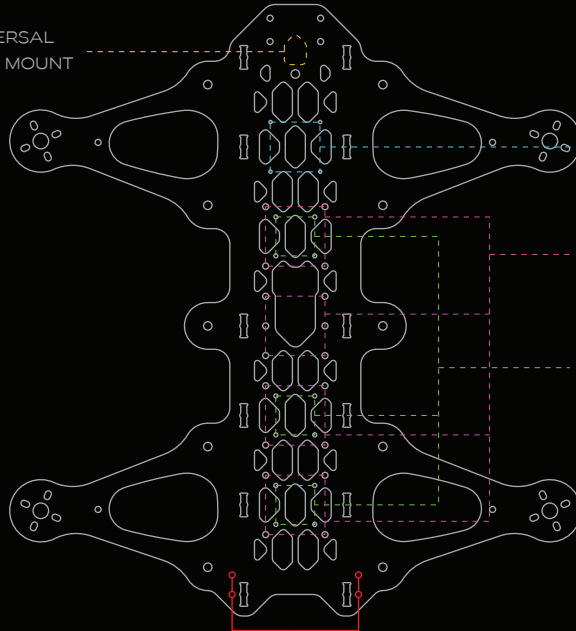
- 8 INSTALL THE XT-30 MOUNTS TO THE TOP PLATE BY PUSHING THEM INTO THE CUTOUTS. SOLDER THE 18AWG WIRES TO THE XT-30 CONNECTORS AND THEN PUSH THEM IN PLACE INTO THE TPU MOUNTS.

MOUNTING PATTERN

TOP PLATE

BOTTOM PLATE

UNIVERSAL  
GOPRO MOUNT



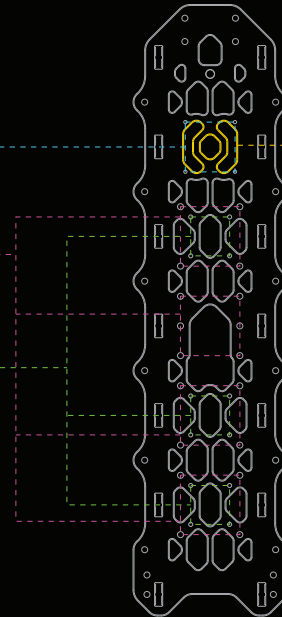
25x25  
MOUNTING  
PATTERN

30x30  
MOUNTING  
PATTERN

20x20  
MOUNTING  
PATTERN

XT-90  
MOUNT

DJI O3  
ADAPTER PLATES



CORE ASSEMBLY

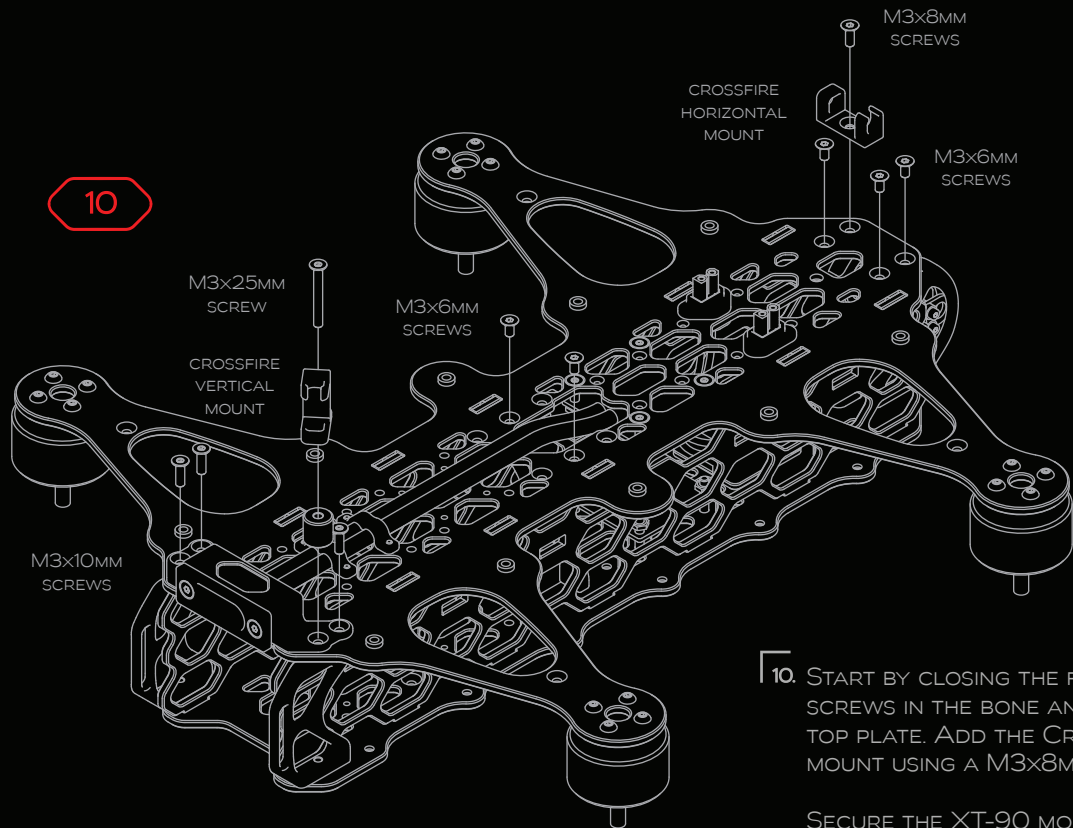
TOP PLATE PRE-ASSEMBLY

9

CORE PLATES

BOTTOM PLATE PRE-ASSEMBLY

9. USE THE CORE PLATES TO JOIN THE BOTTOM PLATE AND TOP PLATE PRE-ASSEMBLIES TOGETHER. CHECK THE ORIENTATION OF THE CORE PLATES SO TO ENSURE THE CUTOUTS FOLLOW THE TABS OF THE TOP PLATE AND THE OPENINGS TO RUN THE WIRES FROM THE ELECTRONICS.

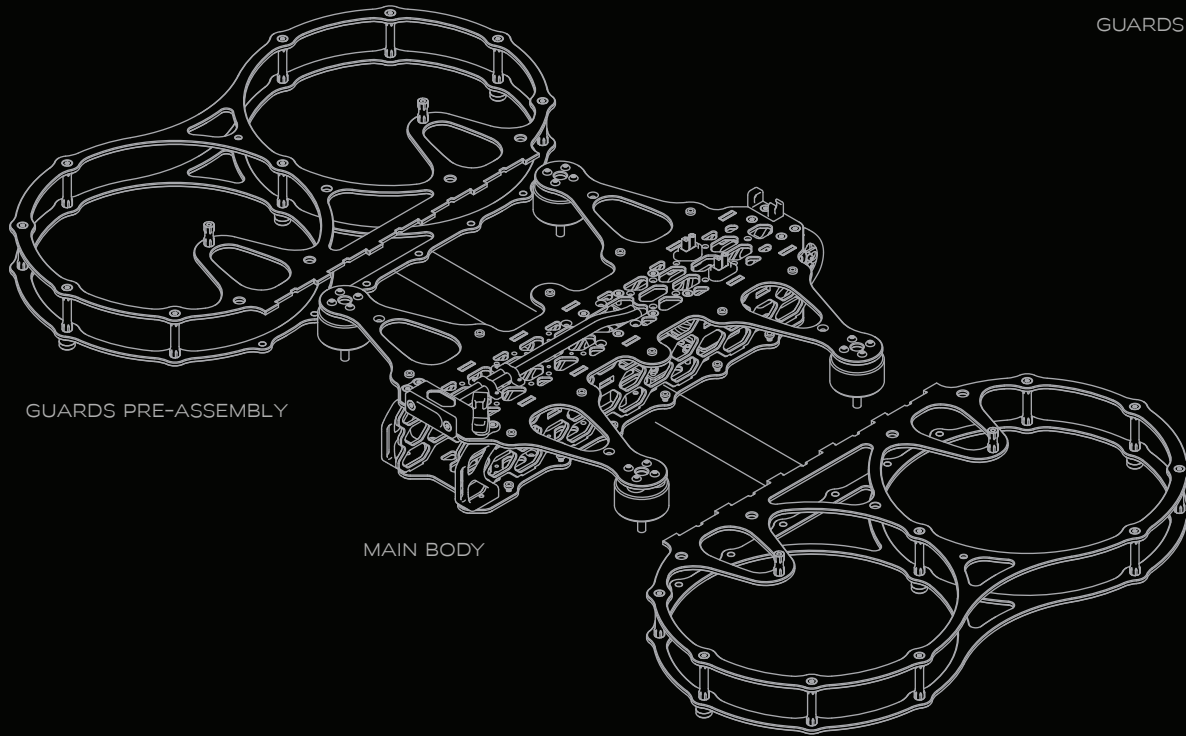


10. START BY CLOSING THE FRAME USING M3x6MM SCREWS IN THE BONE AND THE FRONT OF THE TOP PLATE. ADD THE CROSSFIRE HORIZONTAL MOUNT USING A M3x8MM SCREW.

SECURE THE XT-90 MOUNT TO THE TOP PLATE BY USING THE M3x10MM SCREWS. ADD ONE UNIVERSAL WASHER AND MOUNT THE CROSSFIRE VERTICAL MOUNT BY USING A M3x25MM SCREW.



11

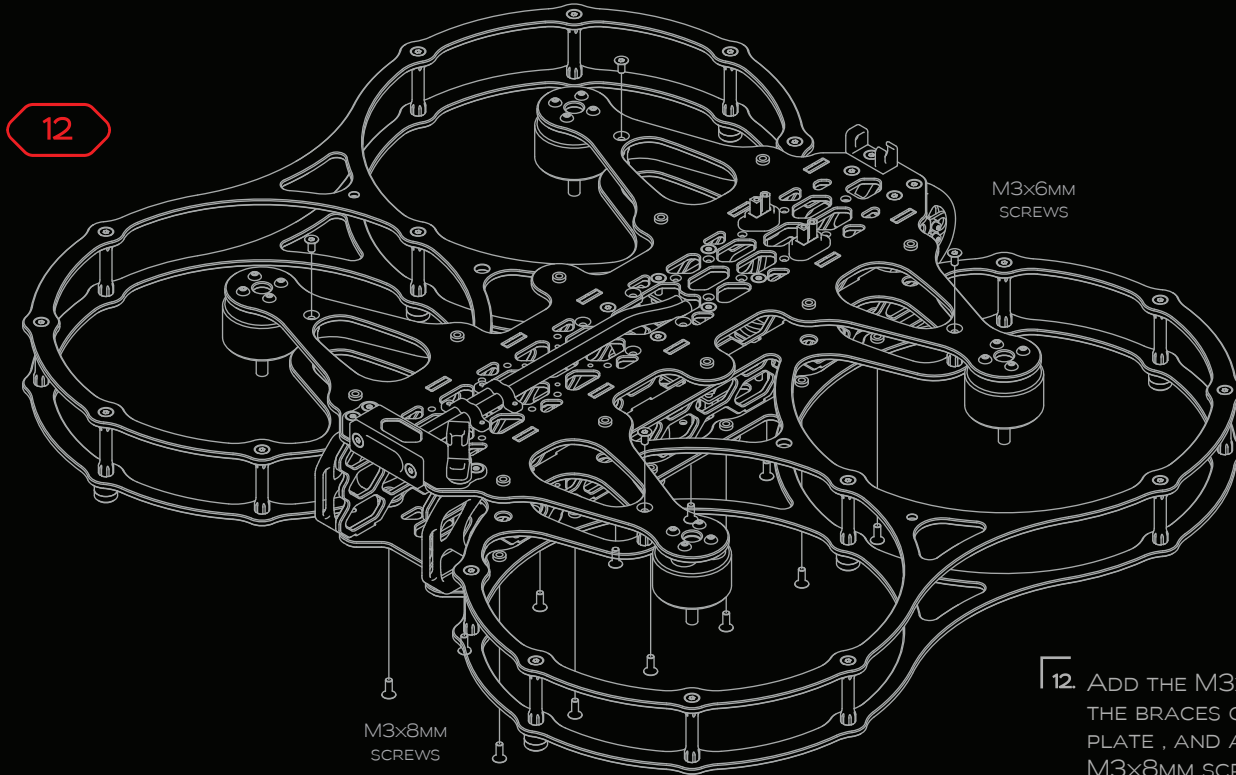


GUARDS PRE-ASSEMBLY

MAIN BODY

GUARDS PRE-ASSEMBLY

11. USE THE GUARDS PRE-ASSEMBLY TO COMPLETE THE STRUCTURE OF THE FRAME. USE THE TABS OF THE GUARDS TO INSERT THEM INTO THE CUTOUTS OF THE CORE PLATES.

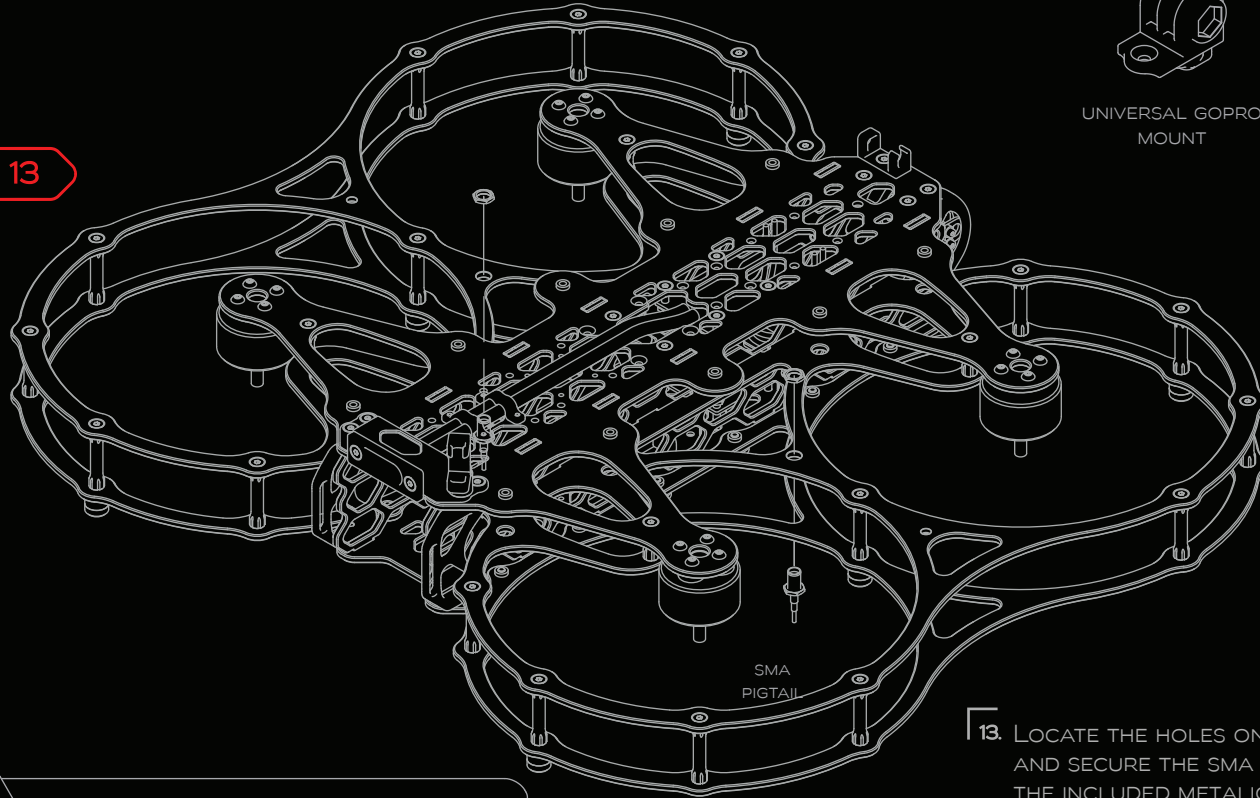


12. ADD THE M3x6MM SCREWS TO THE BRACES OF THE TOP PLATE , AND ADD THE M3x8MM SCREWS TO THE BOTTOM PLATE.



UNIVERSAL GOPRO  
MOUNT

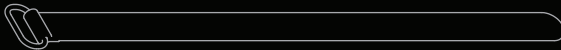
13



SMA  
PIGTAIL

13. LOCATE THE HOLES ON THE GUARDS AND SECURE THE SMA PIGTAIL USING THE INCLUDED METALIC WASHERS.

ADD THE ACCESSORIES, SUCH AS  
GOPRO MOUNT AND LIPO STRAP.



LIPO STRAP