

CYBER FLINK



GEEKCLUB.COM

MAT
002

**WIPE
RACER**

31 PARTS
70+ COMPONENTS



INSTRUCTION MANUAL

MAT
002

CYBERPUNK



VIDEO
INSTRUCTIONS



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CLUB** ⚡

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SMALL
COMPONENTS



CLIPPING
ELEMENTS



ADULT
SUPERVISION



CHOKING
HAZARD



USE GLASSES
WHEN SOLDER



USE
GLOVES



FUN PCB



THIS
CAN HELP



THIS
MIGHT HELP



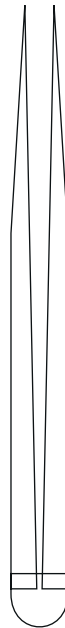
THIS
TOO

RoHS

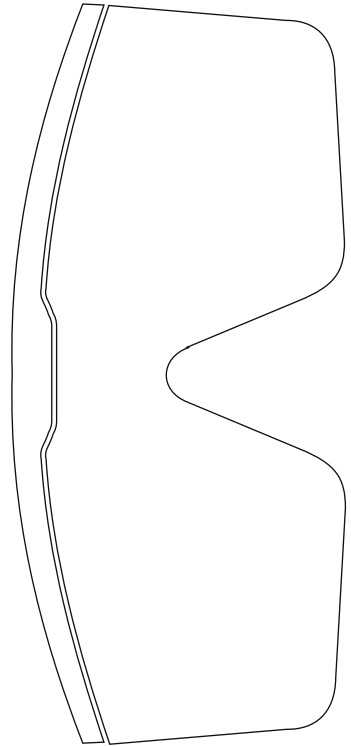
YES
WE DO



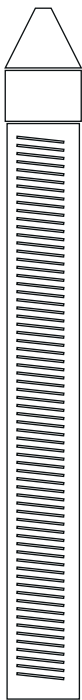
LEAD FREE



TWEEZERS



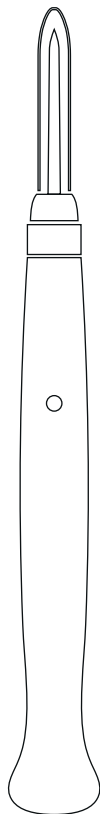
PROTECTIVE
GLASSES



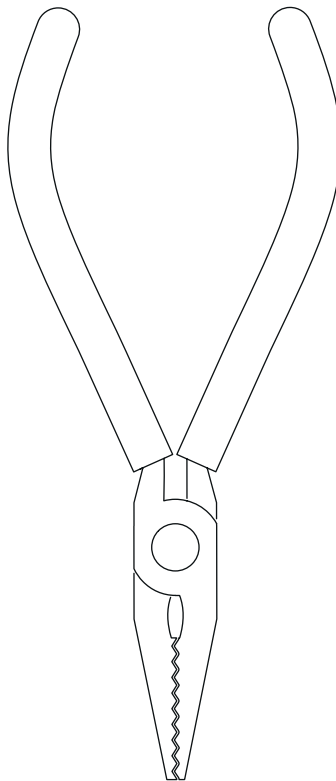
SOLDER
WIRE



FILING
TOOL



SOLDERING
IRON



PLIERS

TOOLS YOU NEED



BATTERY



NOT INCLUDED

HELP US TO HELP YOU:

WE AT GEEEEK CLUB WANT NOTHING MORE THAN TO ENCOURAGE OUR CREATORS (YOU) TO HAVE THE FREEDOM TO EXPRESS YOUR CREATIVITY AND TO FULLY PERSONALIZE YOUR MODEL! HOWEVER, WE CAUTION YOU TO NOT SOLDER ALL THE LEDS WE SHOW ON THE STEP-BY-STEP MANUAL UNLESS YOU WANT YOUR MODEL TO RESEMBLE A CHRISTMAS TREE. EXERCISE CONTROL AND MODERATION AS THE SAYING HOLDS TRUE: "SOMETIMES, LESS IS BETTER". LEDS IN YOUR SET ARE PACKED WITH A RESERVE SET SO DON'T WORRY IF AN ACCIDENT HAPPENS.

To help you avoid creating your own Christmas Tree abomination, we have implemented a useful and easy to follow Legend System with 4 special icons to show you our engineer's recommended LEDs and their placements that will make the best-balanced look for each model and will also optimize the battery drainage.

**BLACK = RECOMMENDED
LOCATIONS FOR LED
PLACEMENT**

**YELLOW = OPTIONAL
LOCATIONS FOR LED
PLACEMENT**

NOTE:

If you try to put all of the LEDs in all of the optional placement locations then you may experience a drop in current. That is common and you can solve this simply by removing one or more LEDs to restore a current so that the remaining LEDs are sufficiently powered. Again, don't overdo it! No one likes a freak disco-ball.



Black icon –

Recommended location to use SMD LEDs to make your model look great!

Are you up for the challenge to end up with a cleaner finish for the model?



Black icon with a pink frame –

Recommended location for either SMD or Through-hole LEDs.

If you want to simplify your soldering experience or you prefer Through-hole LEDs, then you can use them in all locations with this icon. You can still use SMDs for a cleaner finish or remember to trim the excess from the protruding legs of the Through-Hole LEDs.



Yellow icon –

Optional location for SMD LED.

We provide a lot of contact pads for LEDs because we want you to have more freedom and flexibility on your unique design.



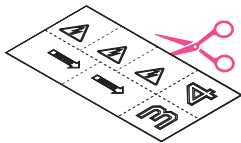
Yellow icon with a pink frame –

Optional placement for SMD or Through-Hole LEDs.

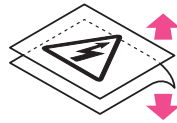
These optional locations allow more flexibility to use either SMDs or Through-Hole LEDs.

EVEN MORE CUSTOMIZATION: STICKERS!

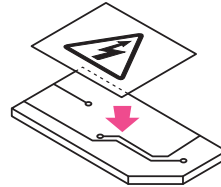
YOU CAN ALSO PERSONALIZE YOUR MODEL USING A UNIQUE STICKER PACK. STICK THEM WHERE YOU LIKE AFTER ASSEMBLING AND INSTALLING YOUR DESIRED LEDs. THIS IS OPTIONAL BUT RECOMMENDED IF YOU WANT TO ADD MORE VISUAL DETAILS TO YOUR MODEL.



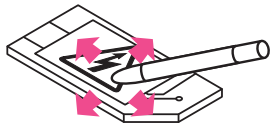
- 1** Use scissors to cut around the desired sticker. The transparent film allows you to cut around the stickers without requiring exact line precision. Some of them are already perforated so you can directly peel them off.



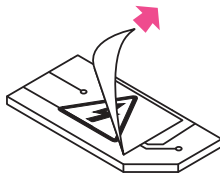
- 2** Remove the wax paper base from the sticker film.



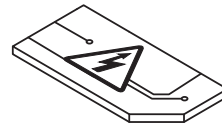
- 3** Affix your sticker on the model at your desired location.



4 Use your fingernail to gently push the sticker to have a cleaner contact with the PCB surface. Tip: You can also use something stronger like a plastic pen or the side or corner of a credit card.



5 Remove the protective film top layer from the sticker.

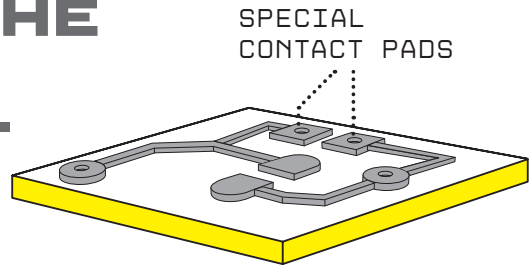


6 Enjoy your customized design.

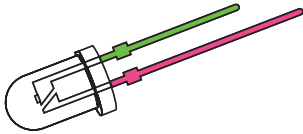
SOLDERING CHALLENGE

**THE MODEL YOU
BOUGHT HAS
SPECIAL CONTACT
PADS FOR THE
SOLDERING
CHALLENGE.**

**THIS IS HOW THESE
SPECIAL CONTACT
PADS LOOK LIKE**



You can solder them using different types of LEDs



LEVEL 1:

THROUGH-HOLE LEDS

Through-hole LEDs are the easiest to solder. They are larger to hold and handle and require less precision. This level is highly recommended for first-time or beginner solderers.



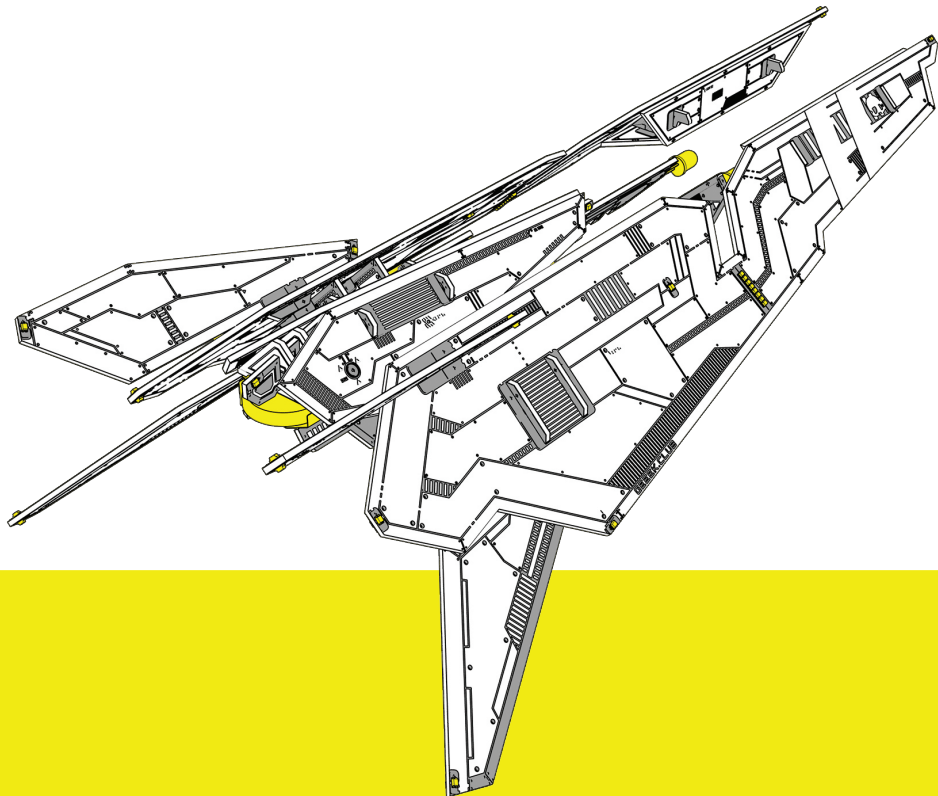
LEVEL 2:

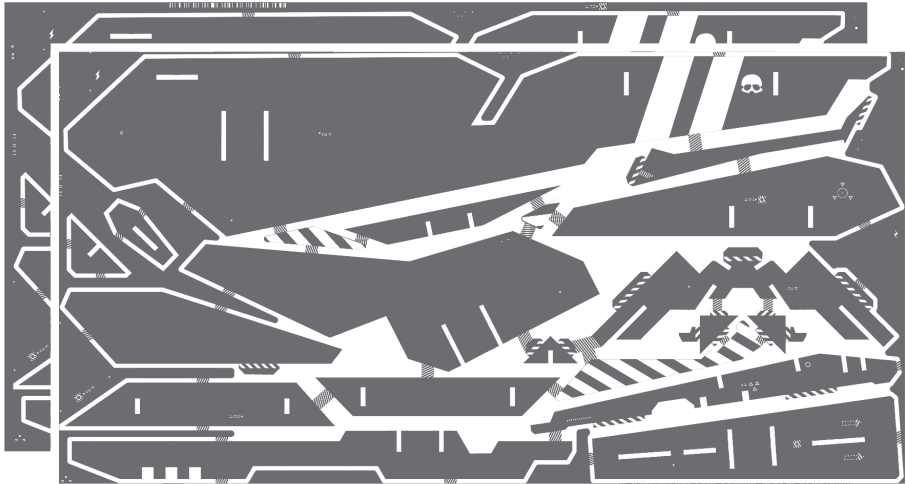
SMD LEDS

SMD components require more dexterity and precision. It's highly recommended to use tweezers to handle the much smaller SMD component and the magnifying lens will help you to have precise soldering contact points. This level separates the noobs from those who want to upgrade their soldering game. **You ready to step up?**

**SO, WHAT SOLDERING
LEVEL CHALLENGE ARE
YOU READY TO TAKE
ON?**

OVERVIEW





x2

COMPONENTS **MAT** 002



x15

SMD LED IC BLINKING

RED

SCHEMATIC
IMAGE



MOUNTING
IMAGE



HOW TO SOLDER
LOOK INTO

EDUCATION MANUAL **P.26**



x15

SMD LED

ORANGE

SCHEMATIC
IMAGE



MOUNTING
IMAGE



HOW TO SOLDER
LOOK INTO

EDUCATION MANUAL **P.26**



x15

SMD LED

YELLOW

SCHEMATIC
IMAGE



MOUNTING
IMAGE



HOW TO SOLDER
LOOK INTO

EDUCATION MANUAL **P.26**



x1

BATTERY HOLDER

SCHEMATIC
IMAGE

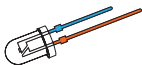


MOUNTING
IMAGE



HOW TO SOLDER
LOOK INTO

EDUCATION MANUAL **P.24**



x2

LED TH THROUGH-HOLE

GREEN

SCHEMATIC
IMAGE

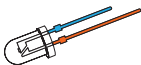


MOUNTING
IMAGE



HOW TO SOLDER
LOOK INTO

EDUCATION MANUAL **P.21**



x6

LED TH THROUGH-HOLE BI-COLOR

RED / YELLOW

SCHEMATIC
IMAGE

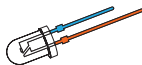


MOUNTING
IMAGE



HOW TO SOLDER
LOOK INTO

EDUCATION MANUAL **P.30**



x10

LED TH THROUGH-HOLE MINI

RED

SCHEMATIC
IMAGE

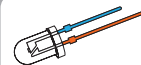


MOUNTING
IMAGE



HOW TO SOLDER
LOOK INTO

EDUCATION MANUAL **P.21**



x10

LED TH THROUGH-HOLE MINI

ORANGE

SCHEMATIC
IMAGE



MOUNTING
IMAGE



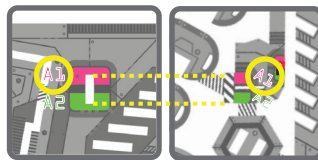
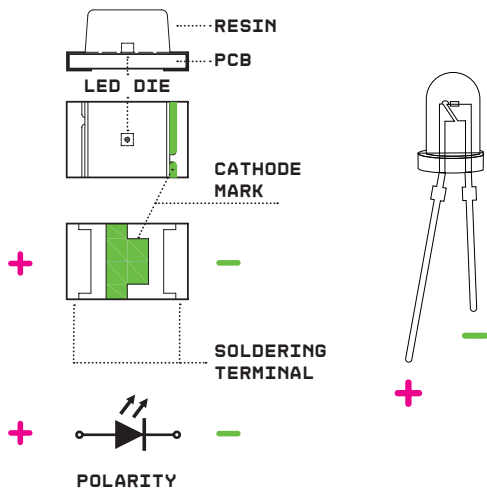
HOW TO SOLDER
LOOK INTO

EDUCATION MANUAL **P.21**

TIPS

TIP TO RECOGNIZE THE
+ PLUS FROM THE **- MINUS**
ON SMD LEDS

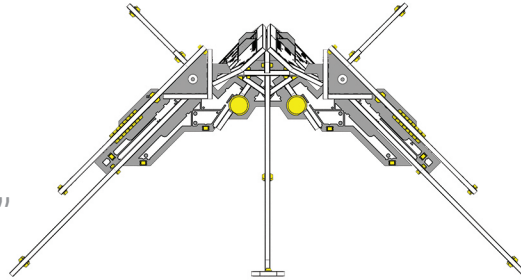
MINUS HAS A **GREEN**
- TRACE ON IT



SOLDER
+ A1 WITH A1,
- B1 WITH B1,
ETC...

5.95"
151 MM

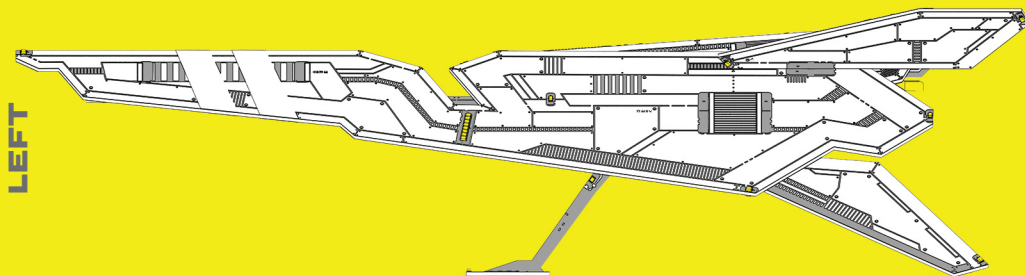
3.13"
79 MM



FRONT

11.87"

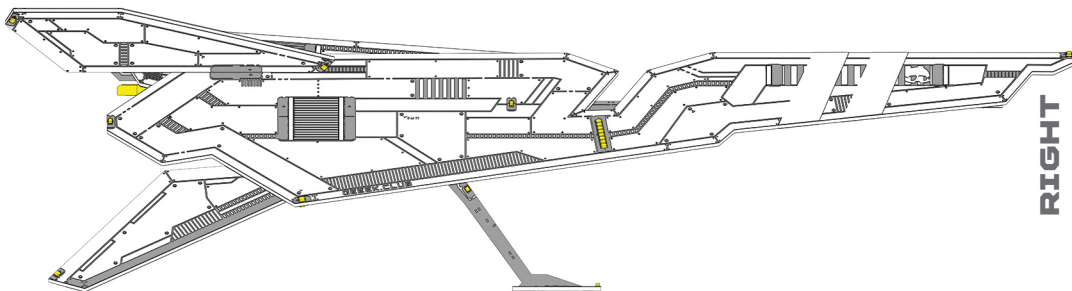
302 MM



DIMENSIONS

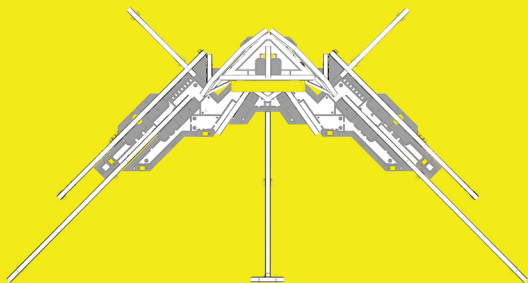
MAT0002

11.87"
302 MM

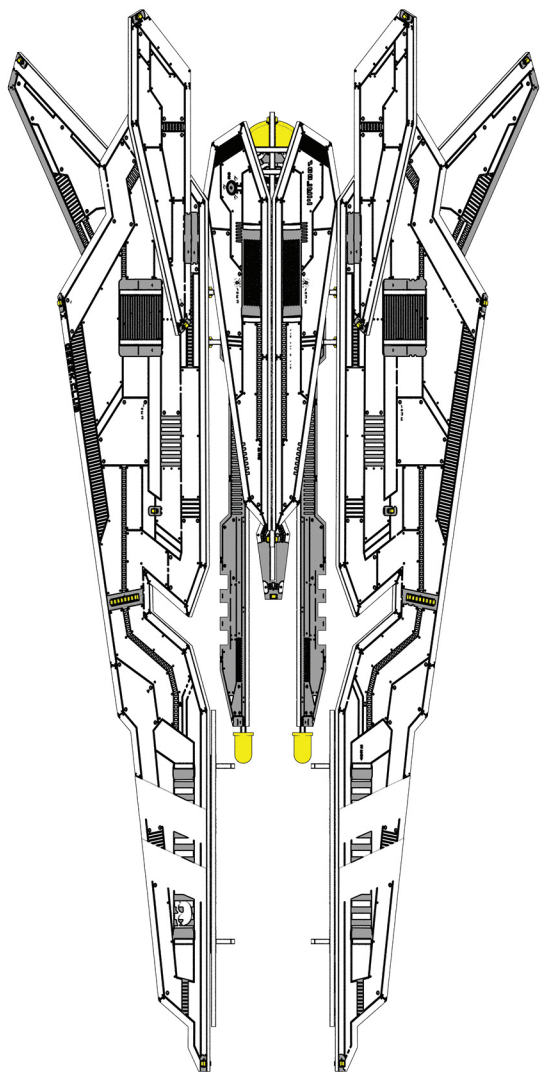


BACK

5.95"
151 MM

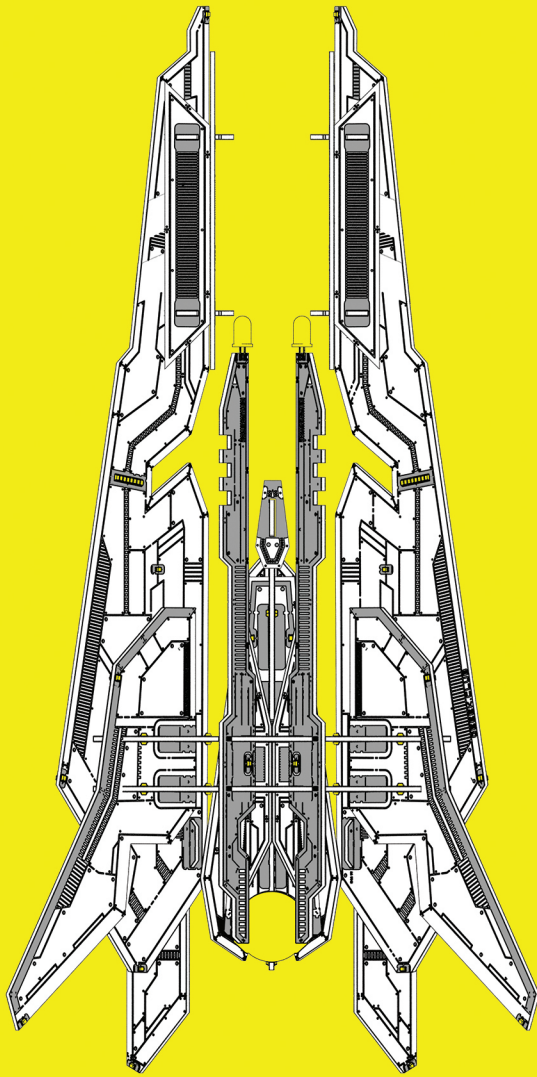


3.13"
79 MM

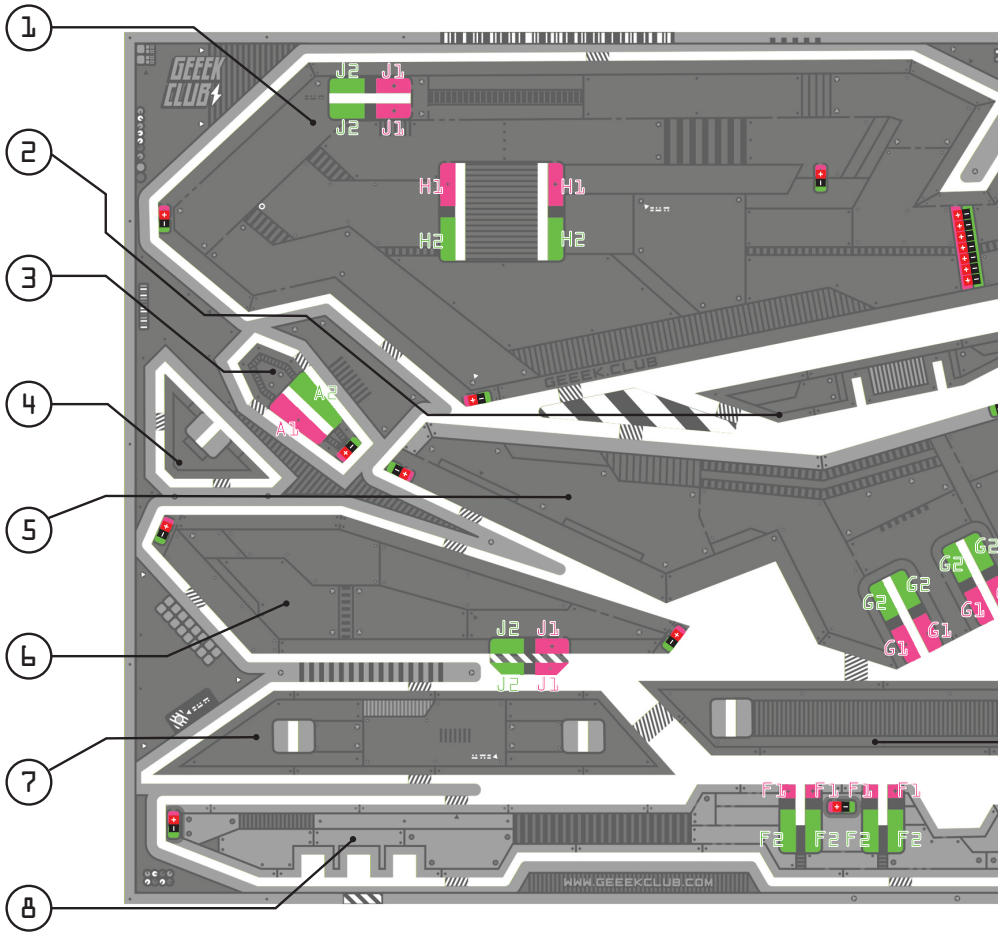


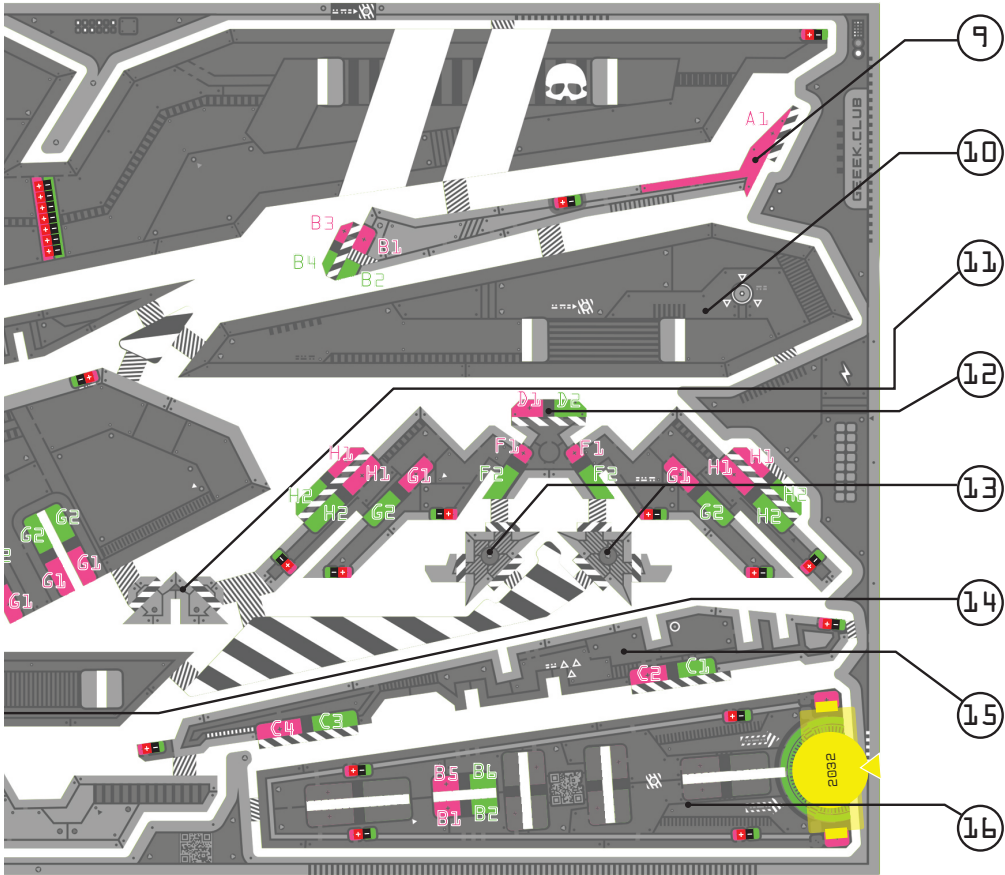
TOP

BOTTOM

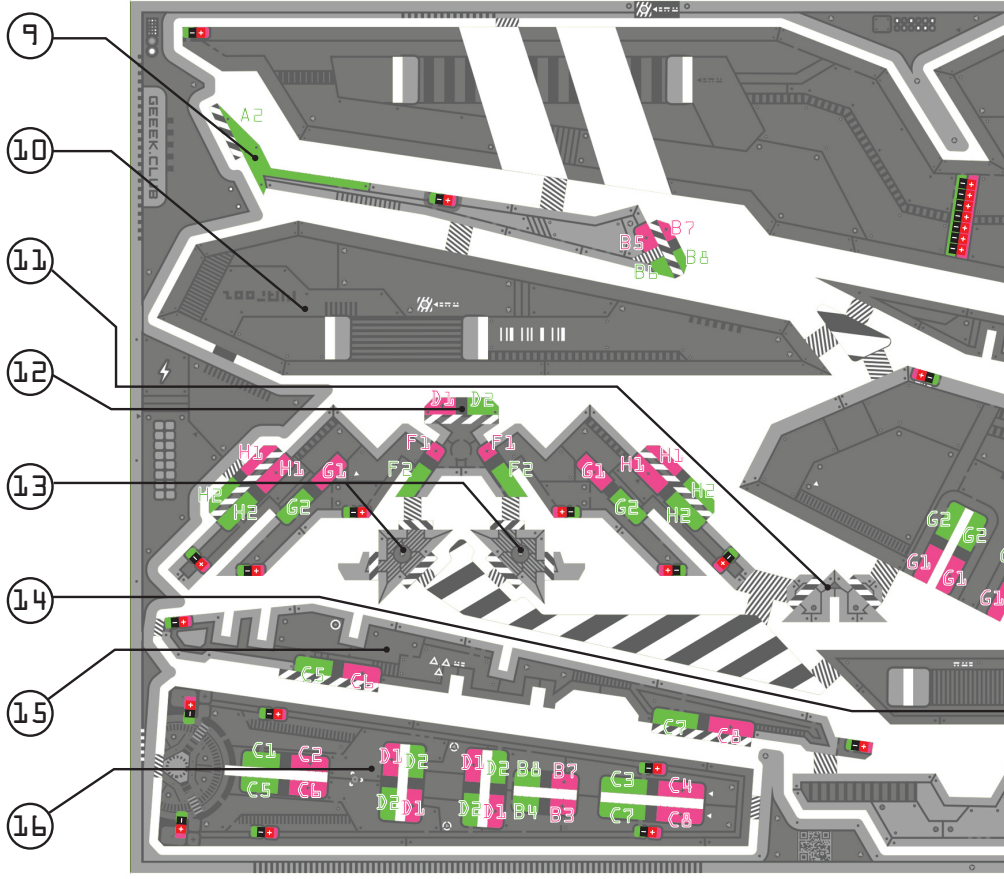


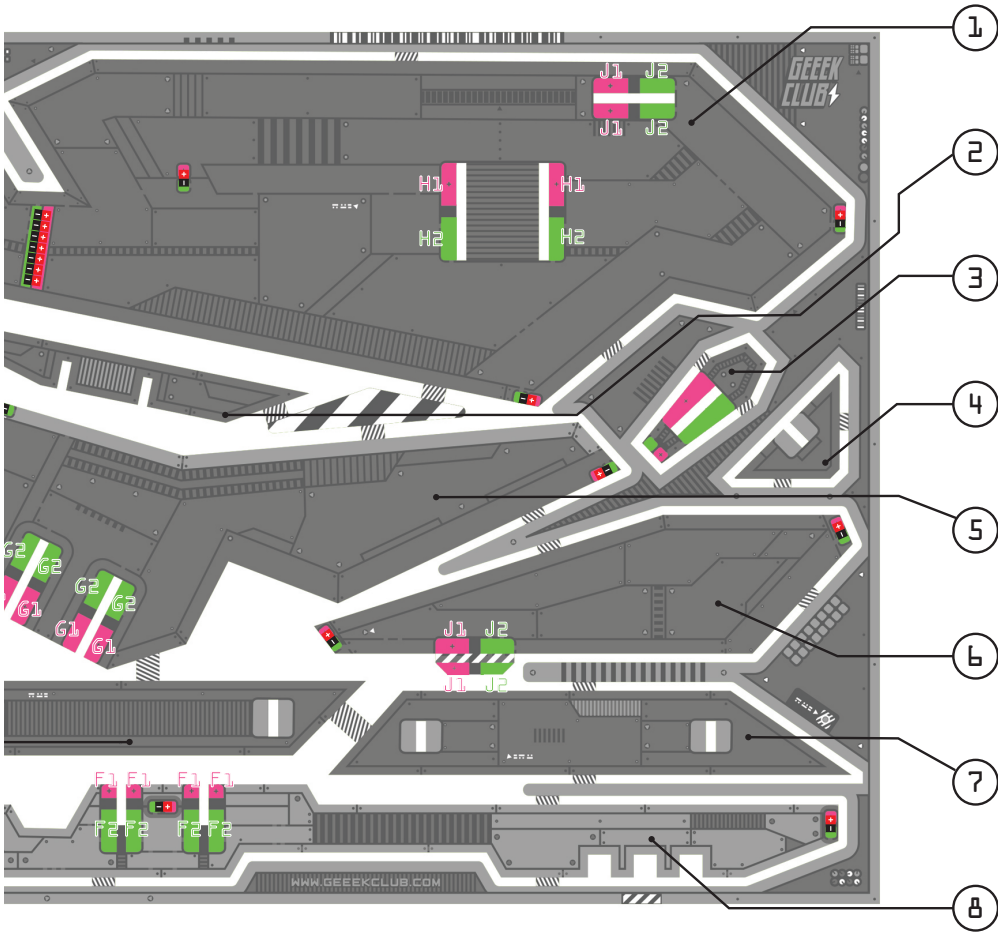
FRONT

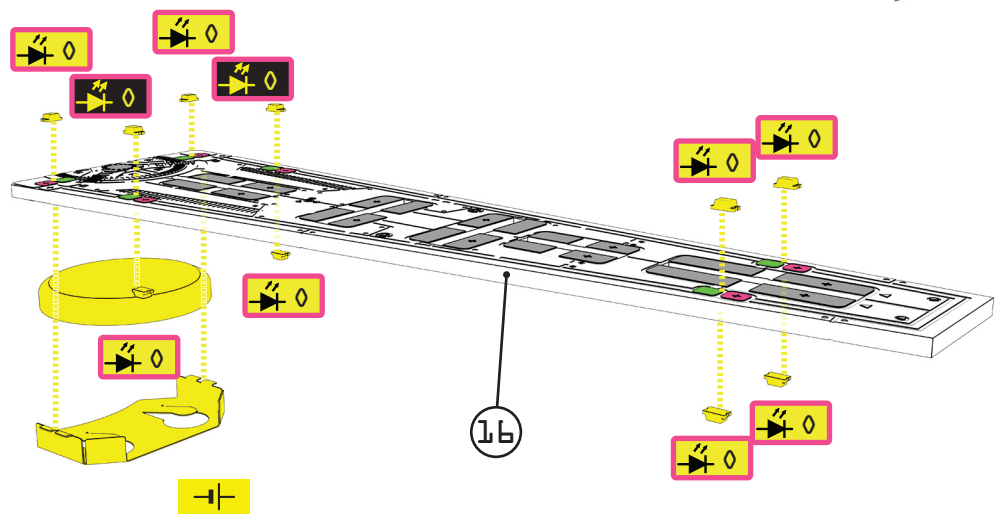
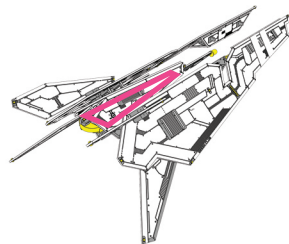




BACK

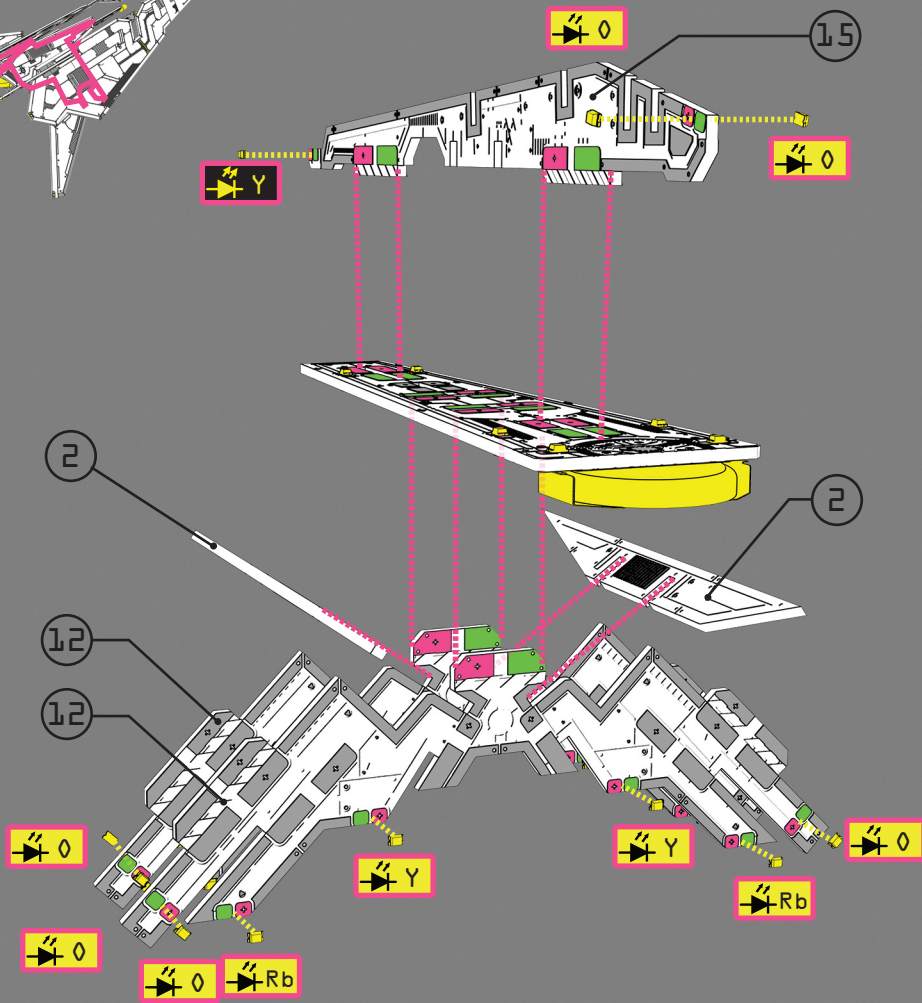
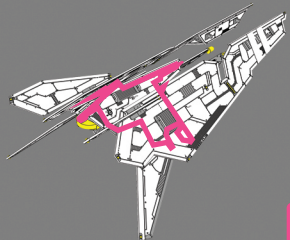


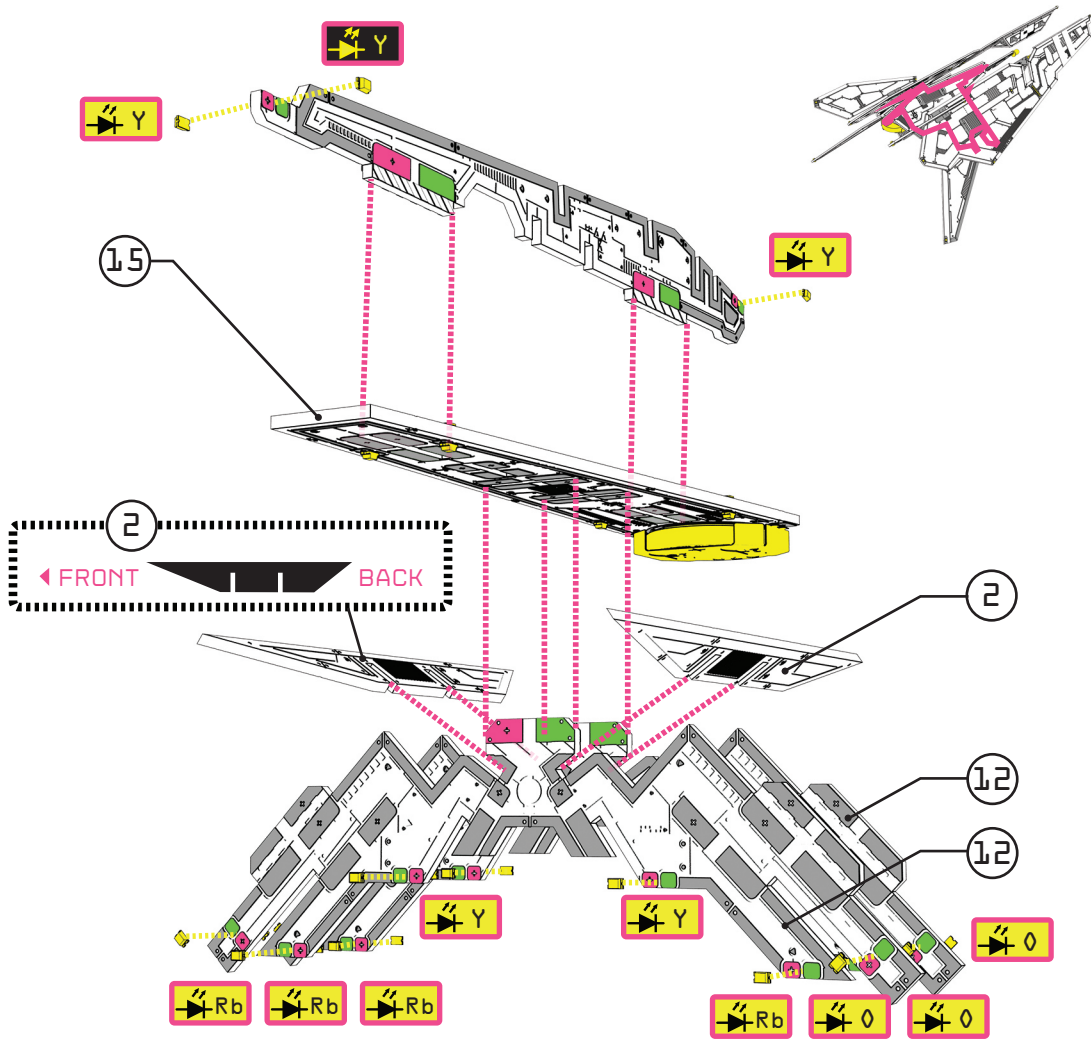


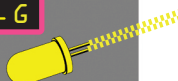
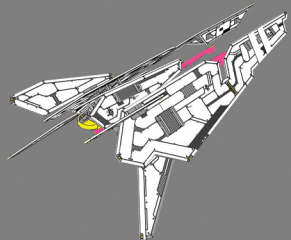


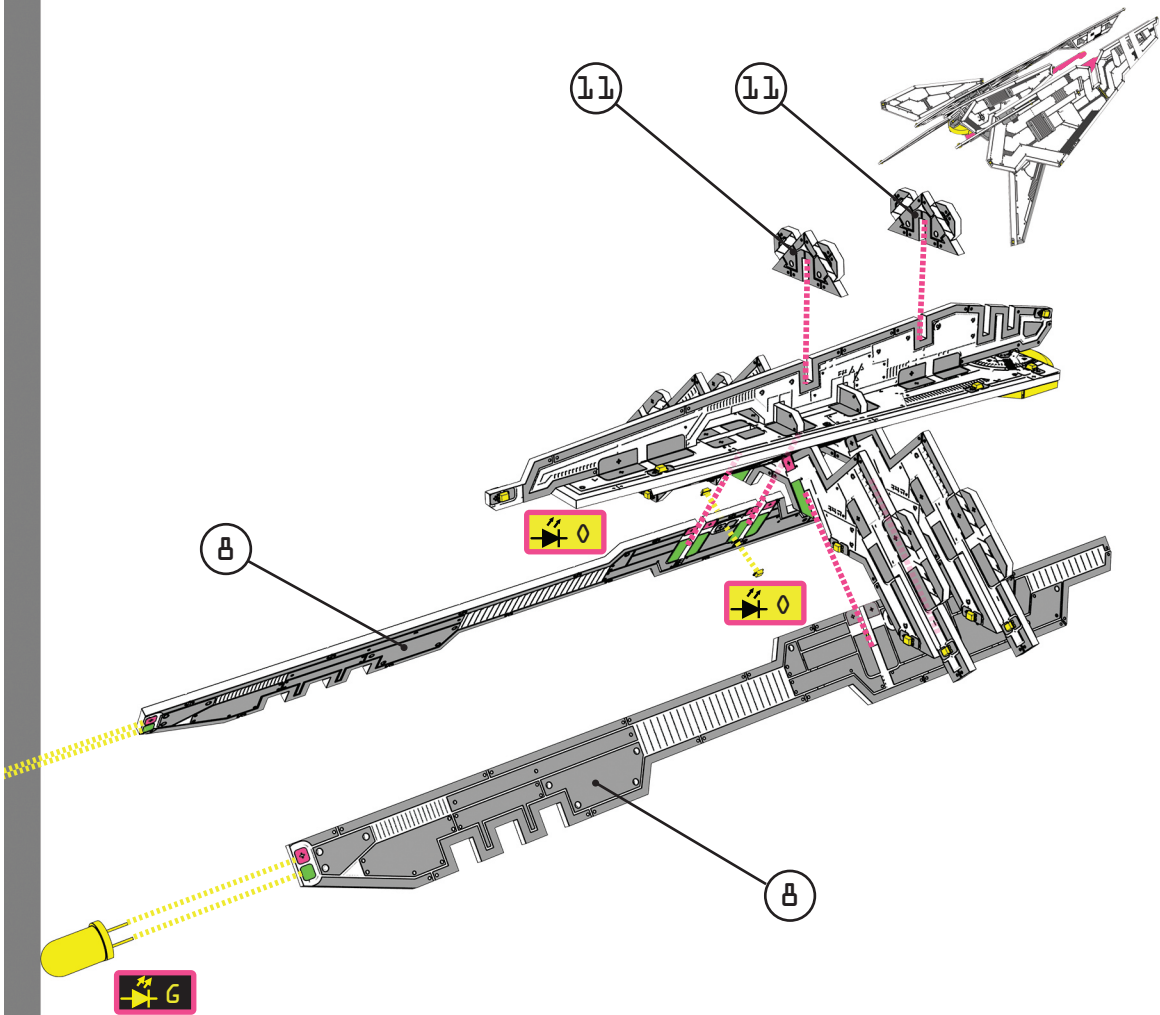
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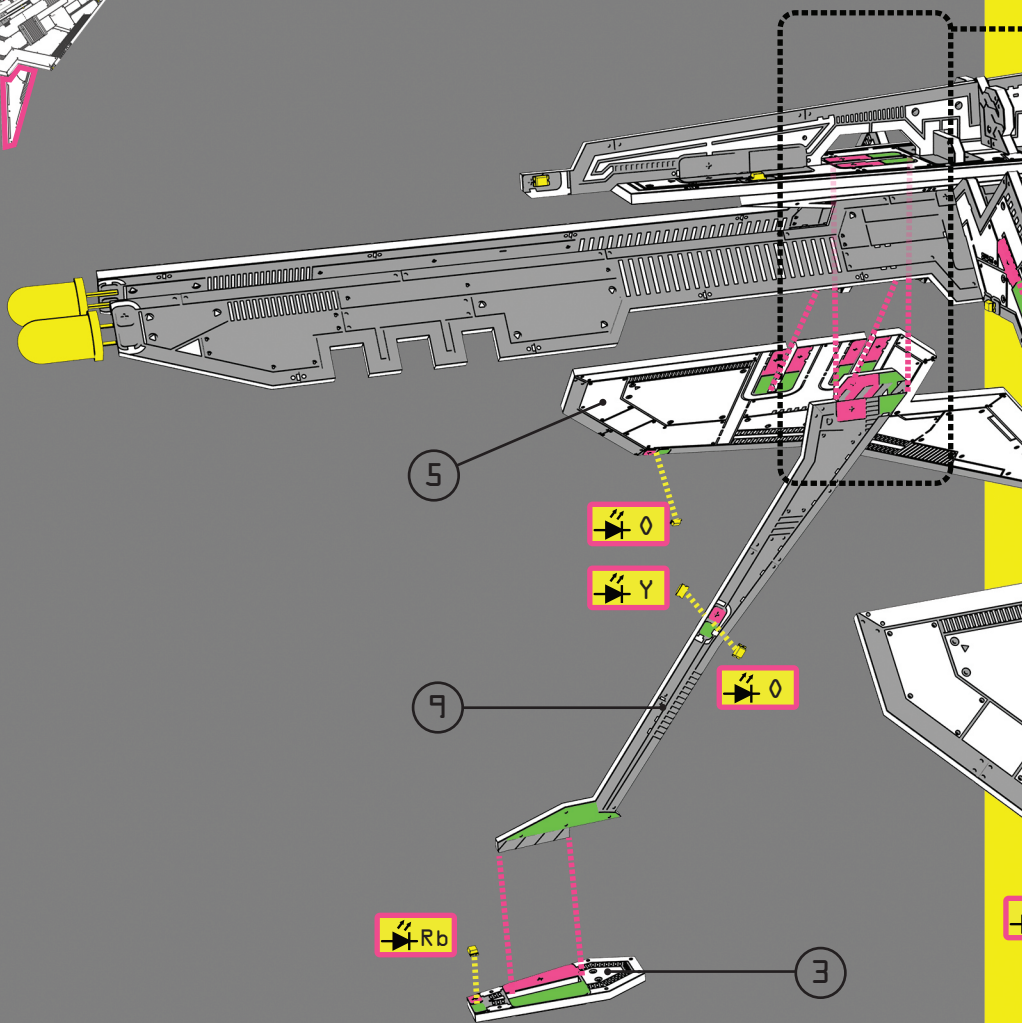
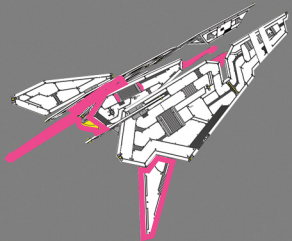
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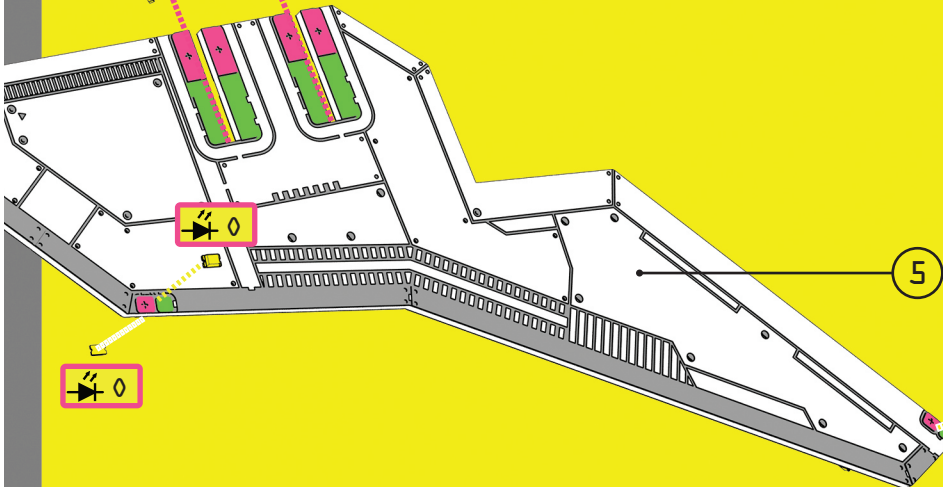
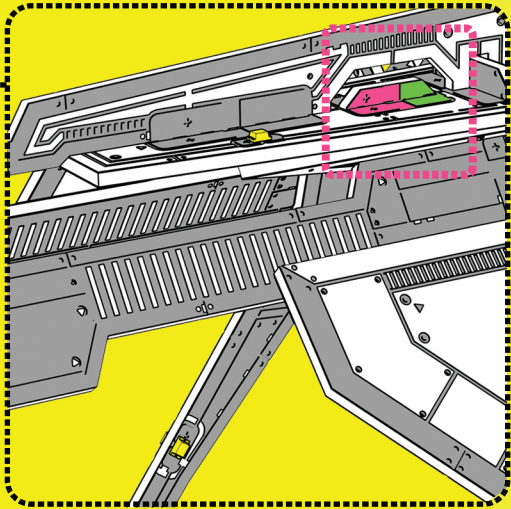
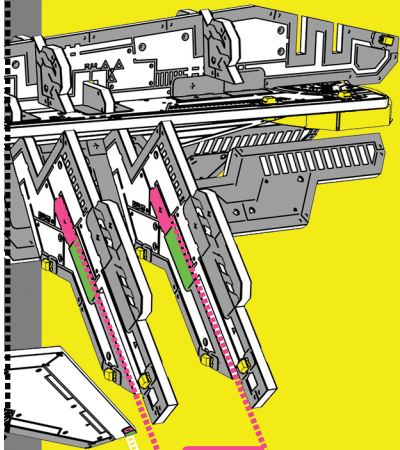




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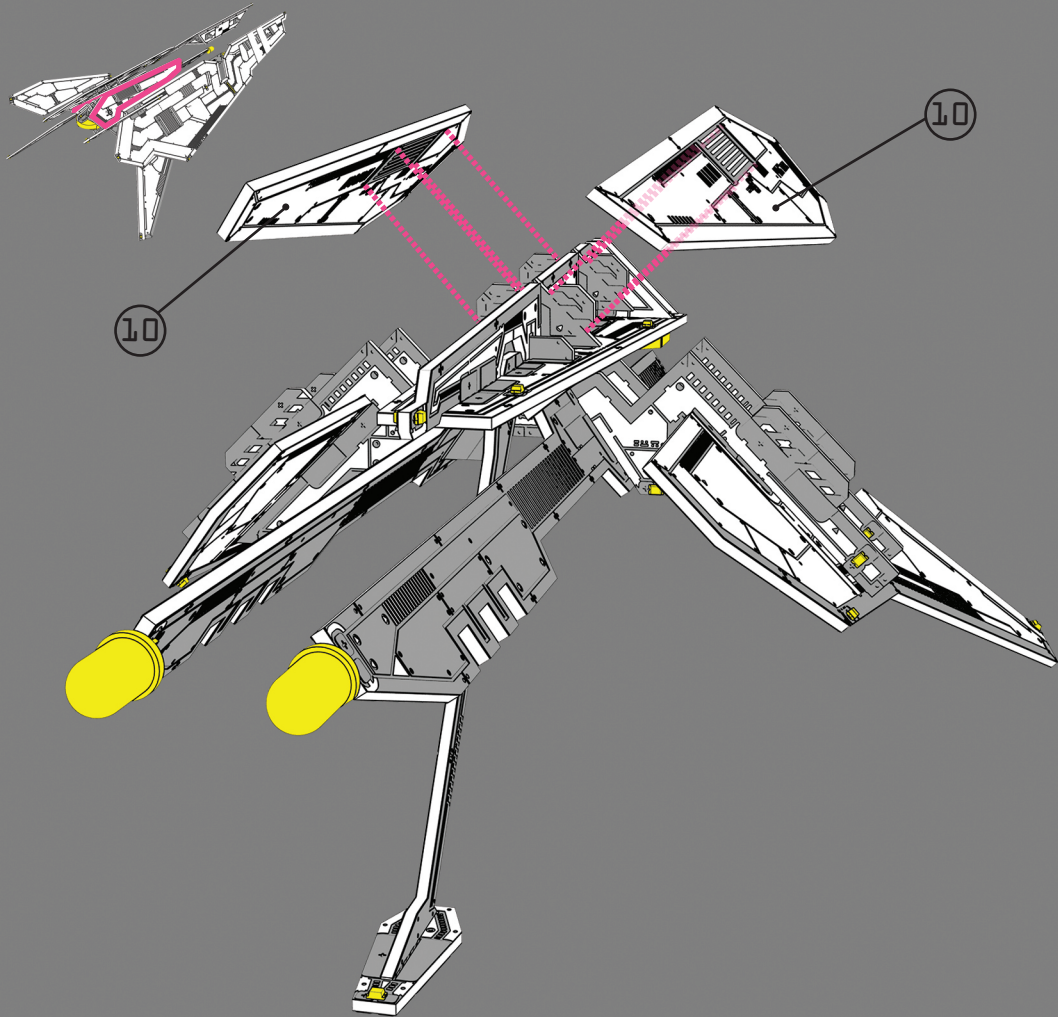


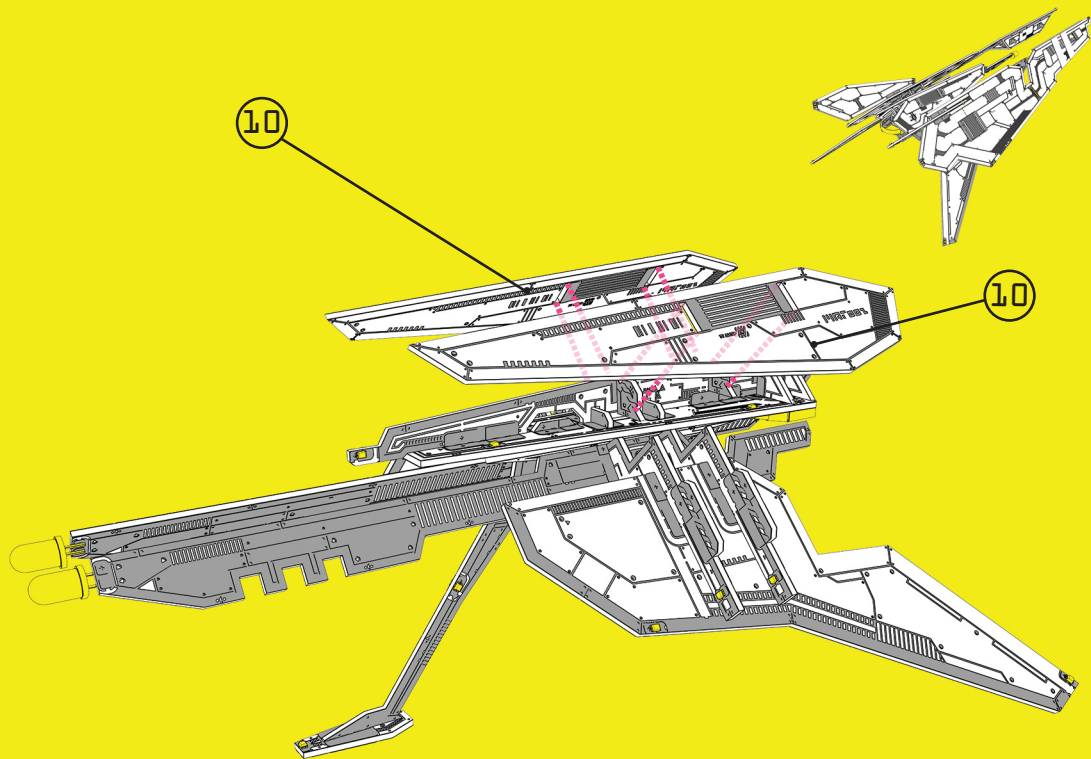
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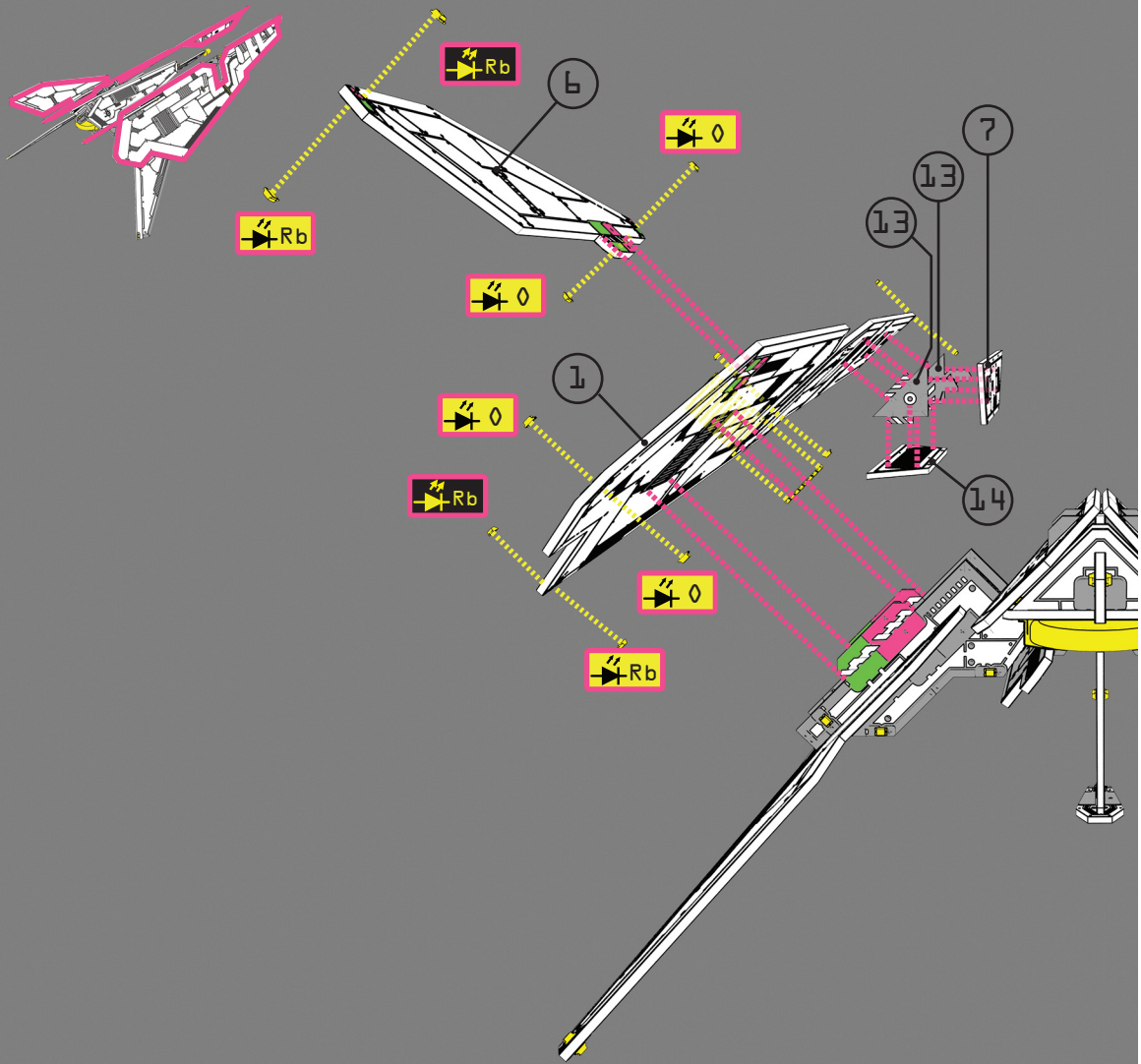


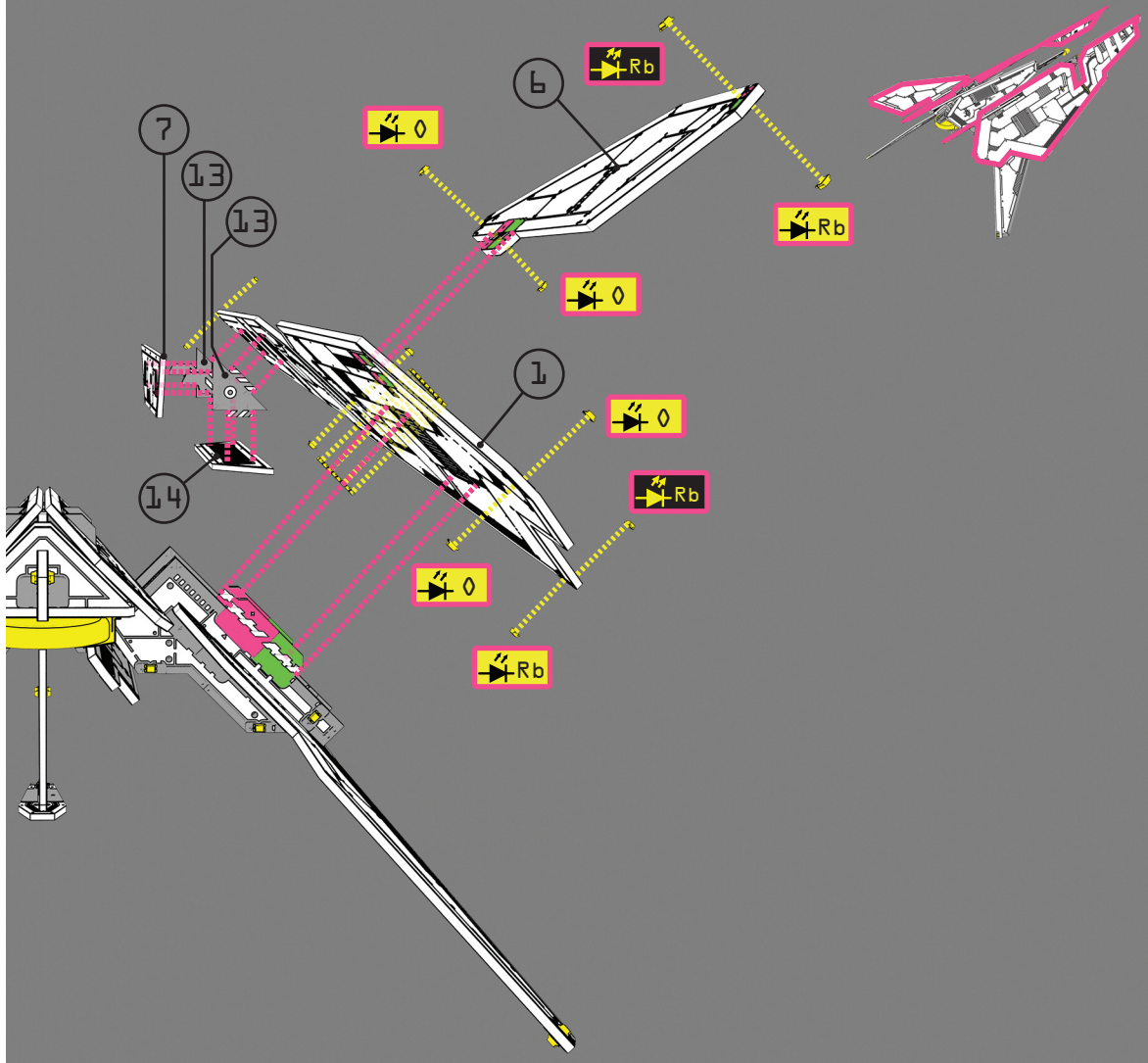
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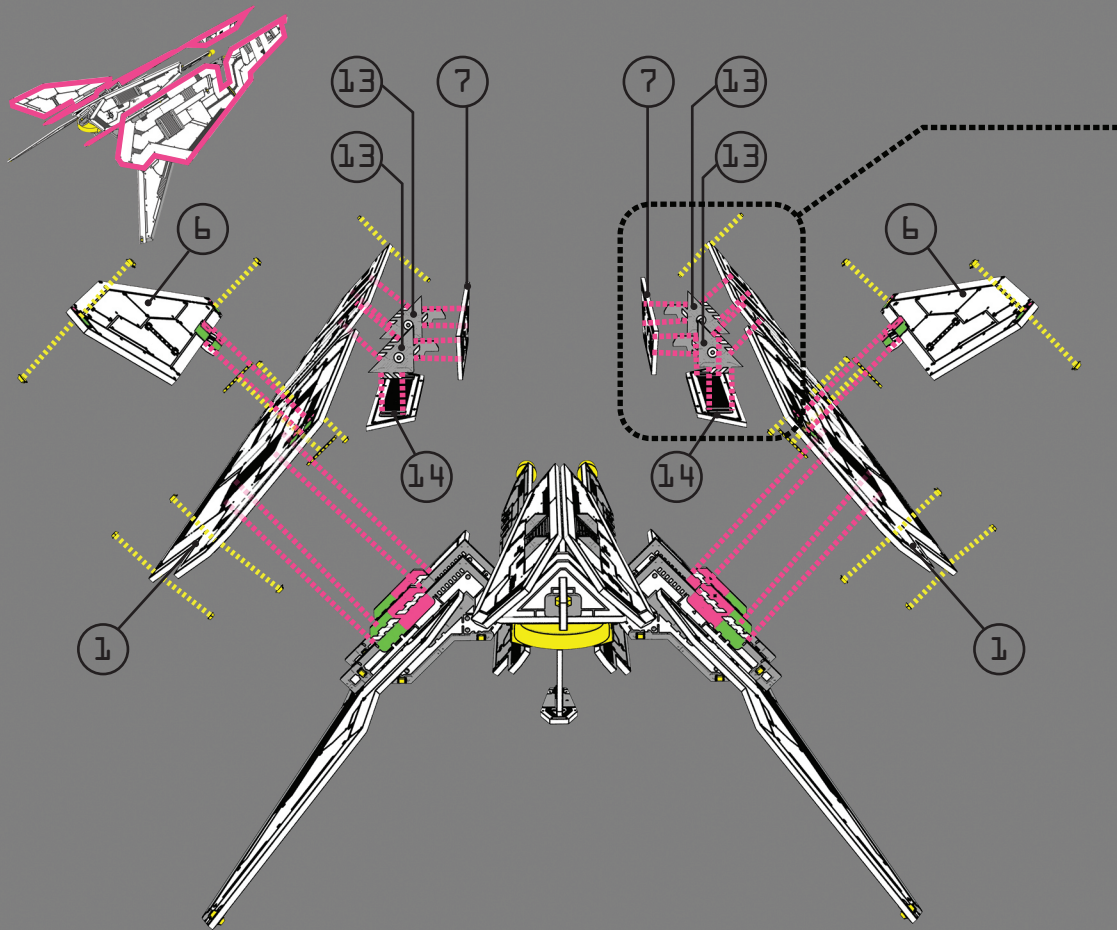


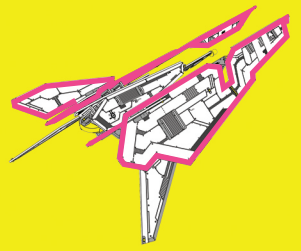
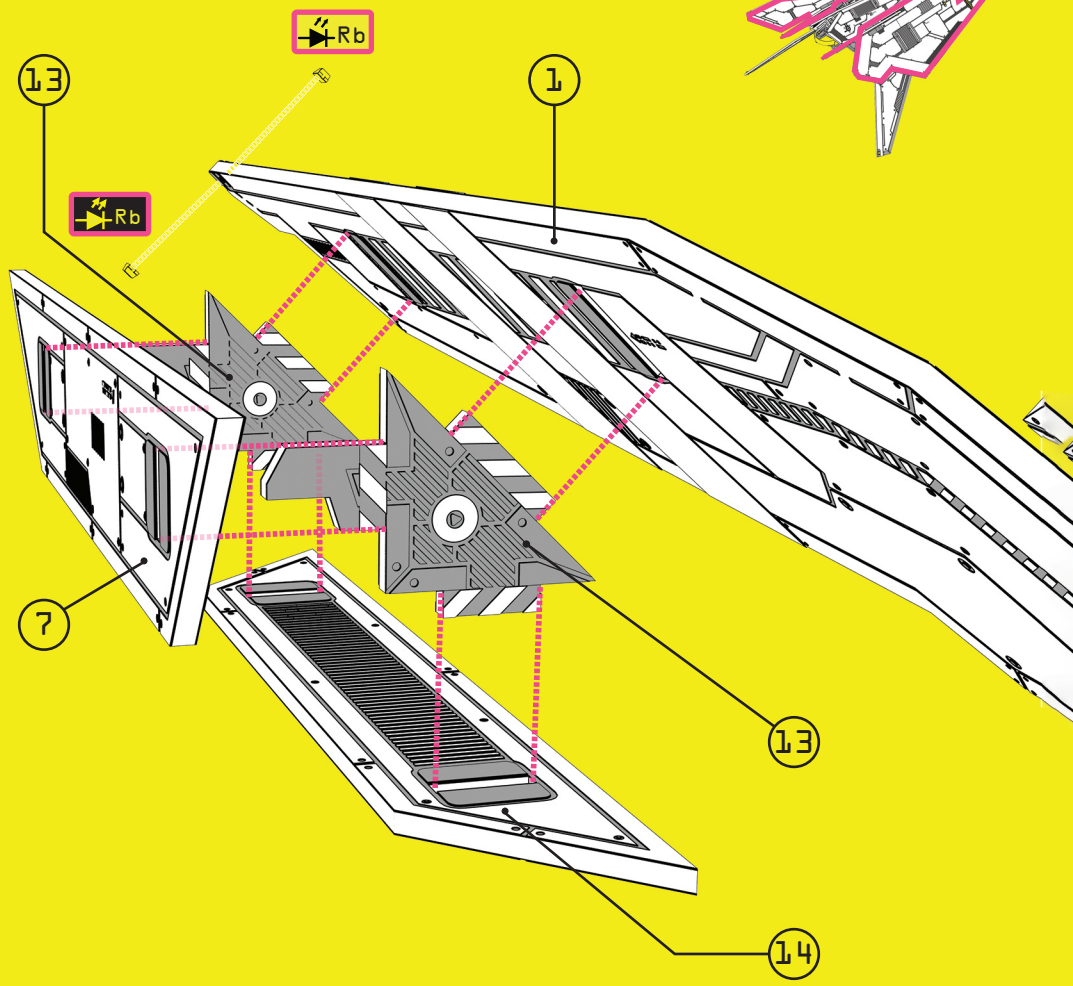


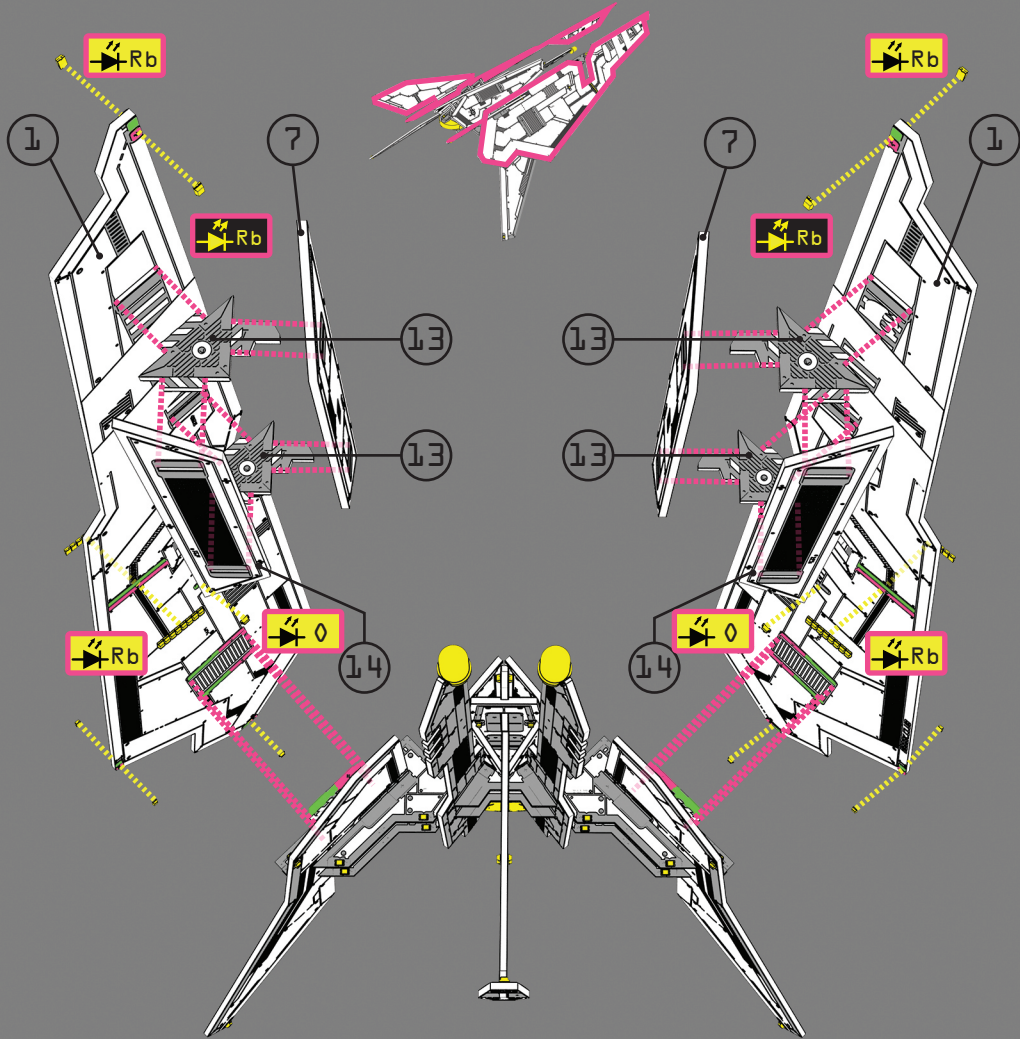


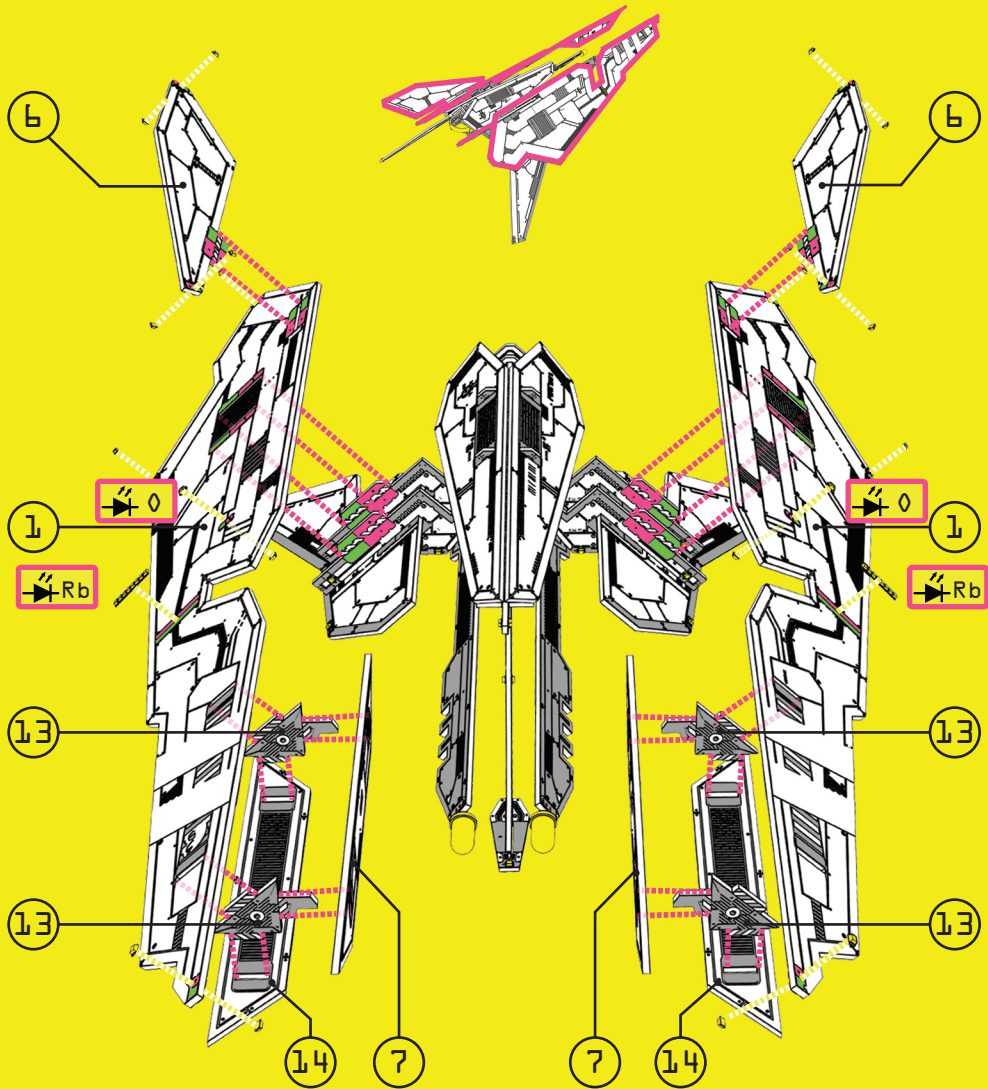


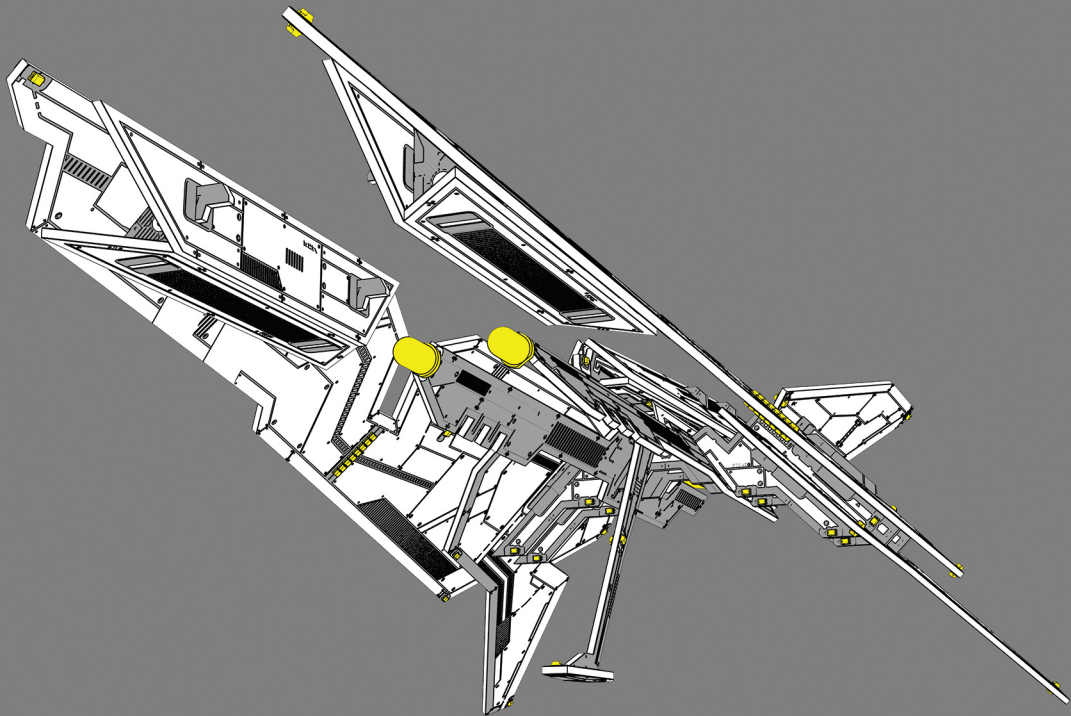


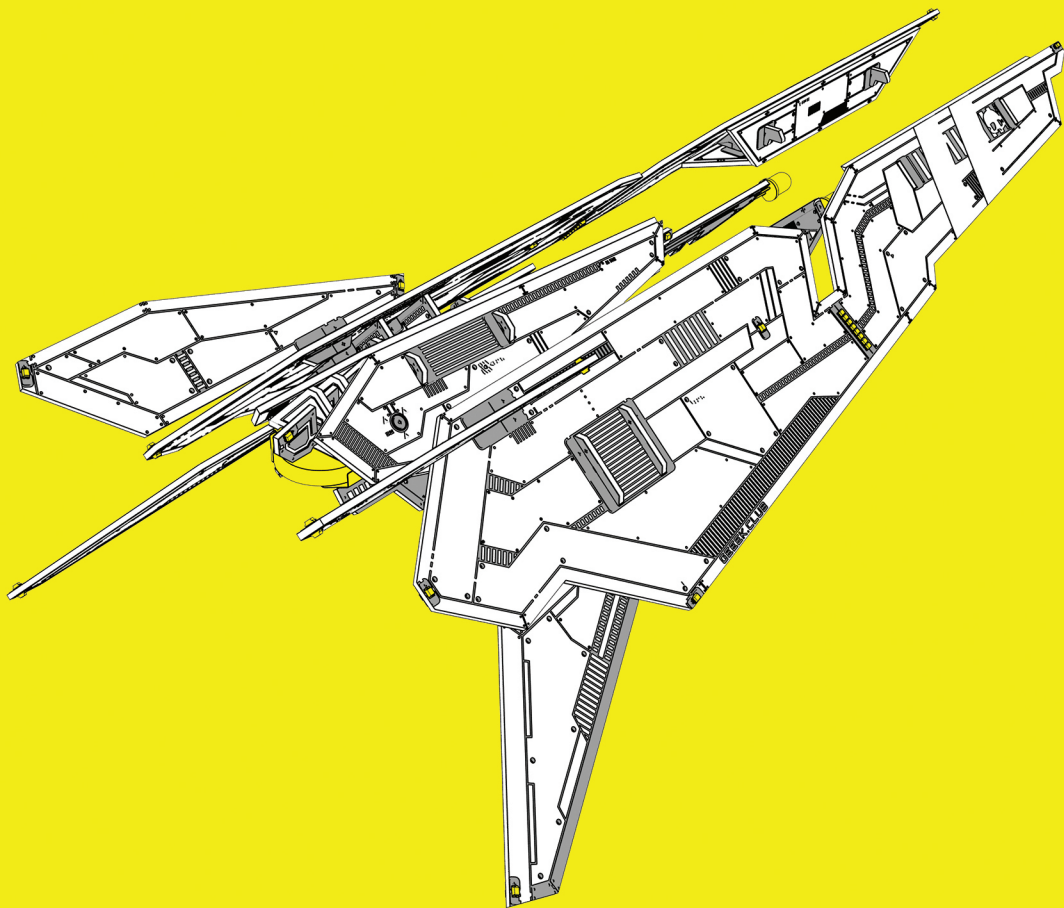














WELL



INSERT
THE CR2032
BATTERY
[NOT INCLUDED]





DO NOT

