

# Bronco Leveling Platform

*For the 2021+  
4-Door Bronco*



# Project Overview

My client had a specific problem he needed fixed: when the rear seats of his Bronco Raptor are folded down, they are not flat. The slant of the seats allows for all his belongings to slide to the rear of the vehicle upon acceleration.

My adjustable-height platform both levels out the rear seat and adds convenient lashing points to ensure his gear stays put.

He also kindly agreed to let me own the rights to my design and list additional stock for sale on my website.

## Client

D'Arcy Salzmann

## Role

Industrial Designer/Engineer

## Impact For Client

This project not only solved a specific need for my client who truly uses the offroad capability of his vehicle, but also allowed me to add a physical product for my company to sell on demand via Send Cut Send Marketplace

## Roadmap

Pg. 3 - The Problem

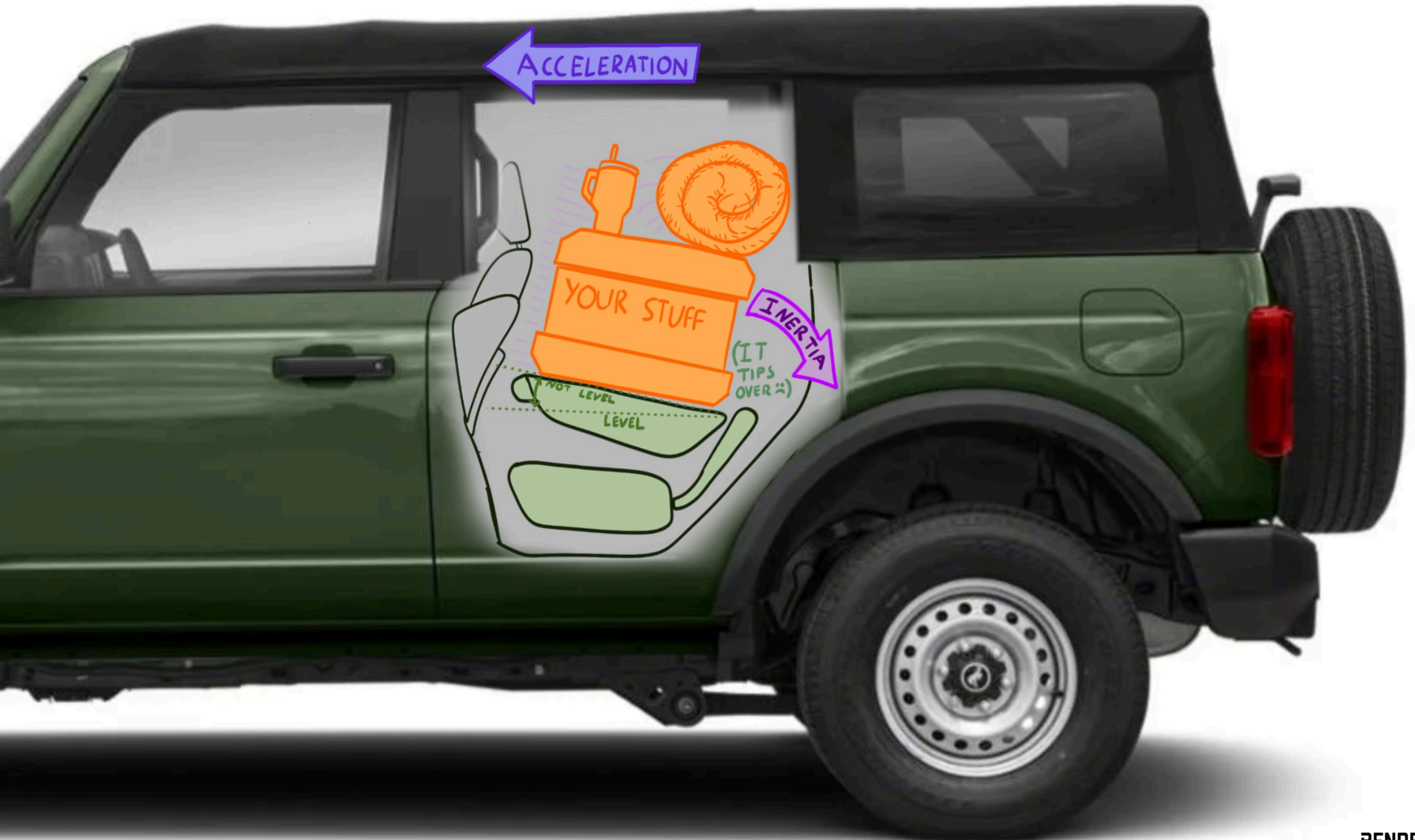
Pg. 4 - The Plan

Pg. 5 - Prototypes

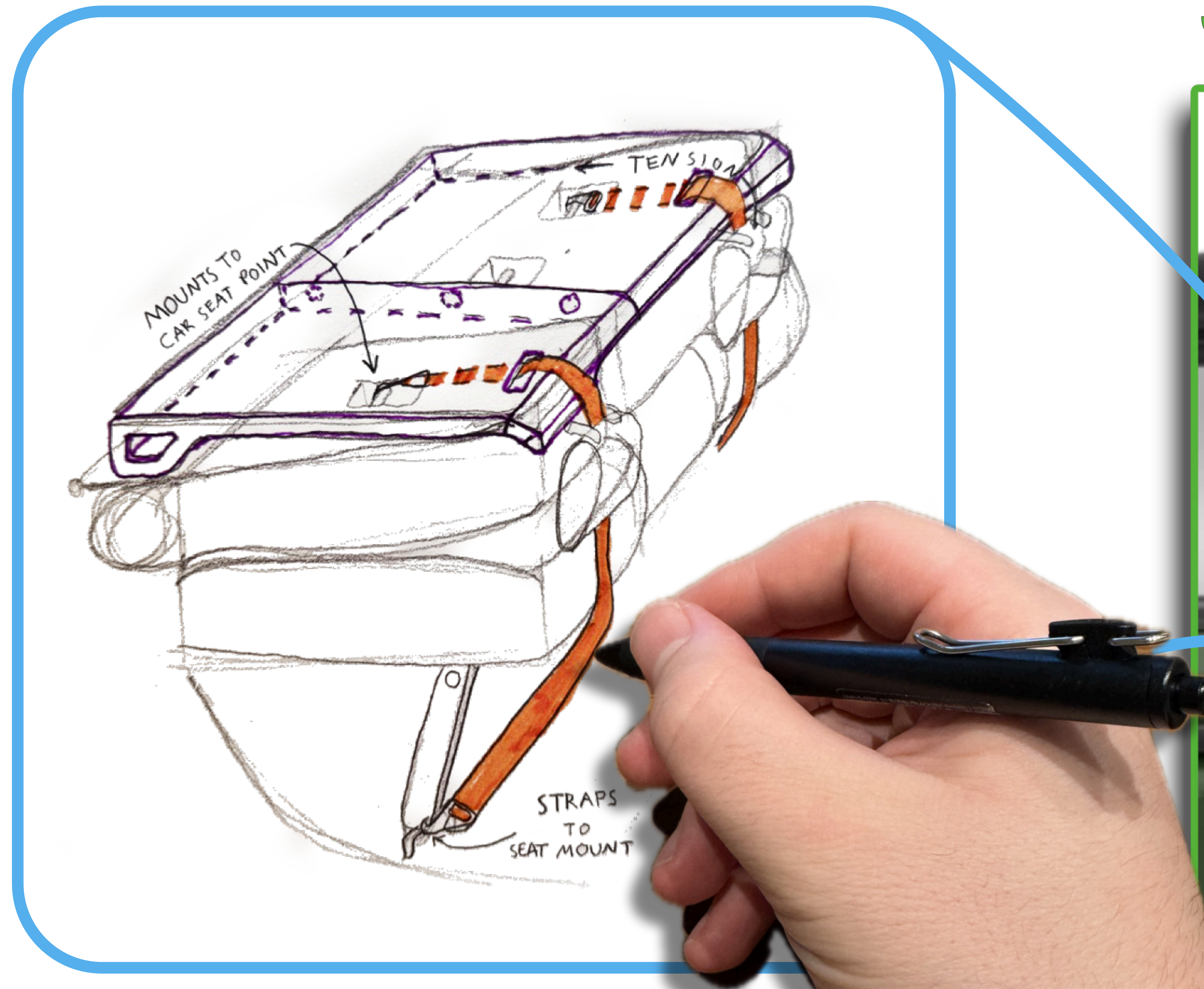
Pg. 9 - Final Rev.

Pg. 13 - Anatomy Breakdown

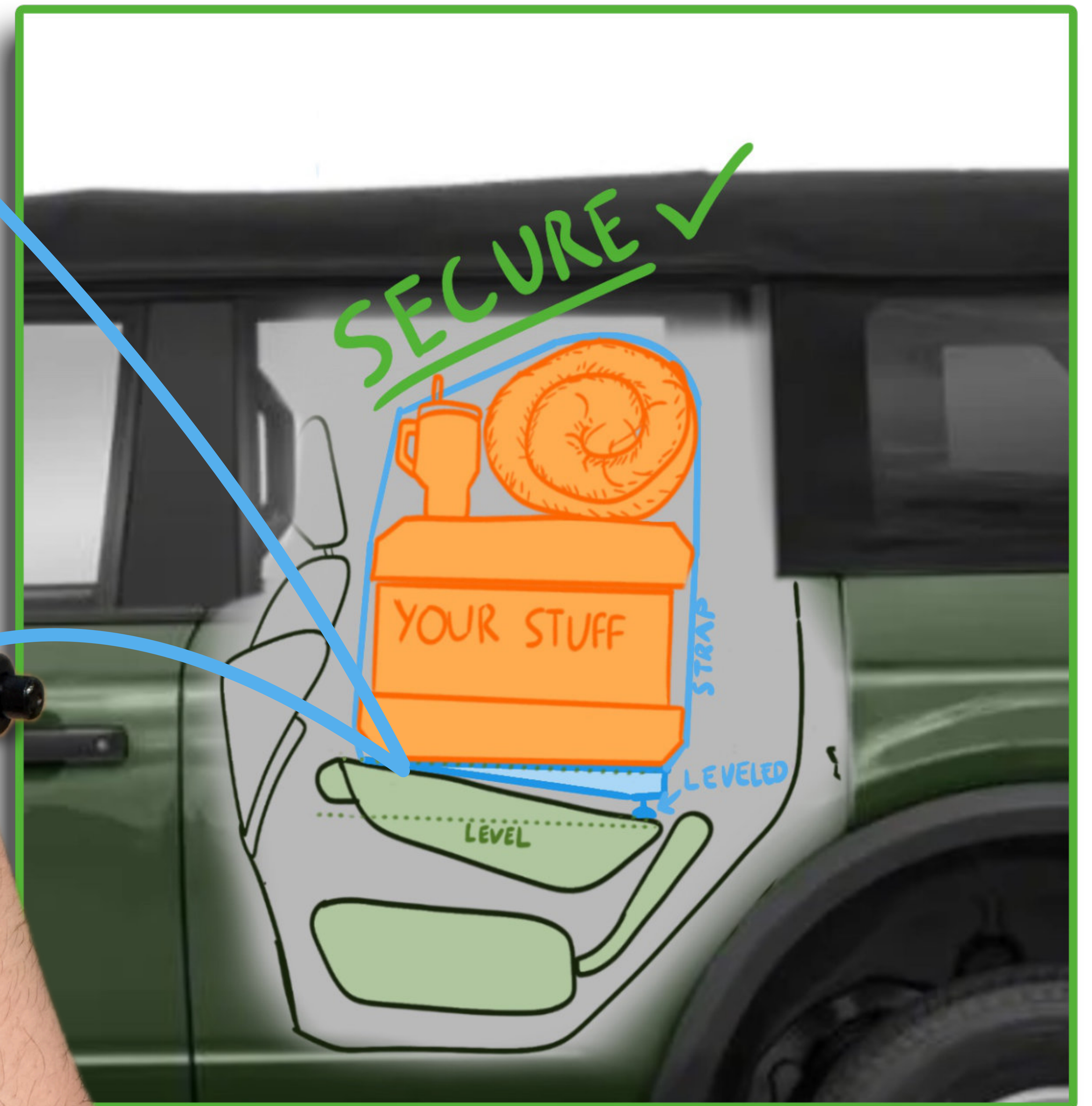
# The Problem:



# The Plan:



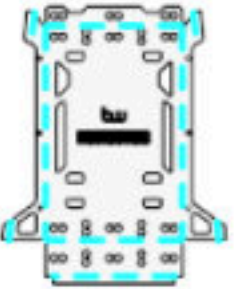
## Solution Concept:



# The Prototypes:

Order #SC17A991 ● Completed  
Placed **July 25, 2025** Order Total **\$289.96**

[CREATE PRODUCT](#) | [INVOICE](#) | [TRACK ORDER](#) | [REORDER](#)

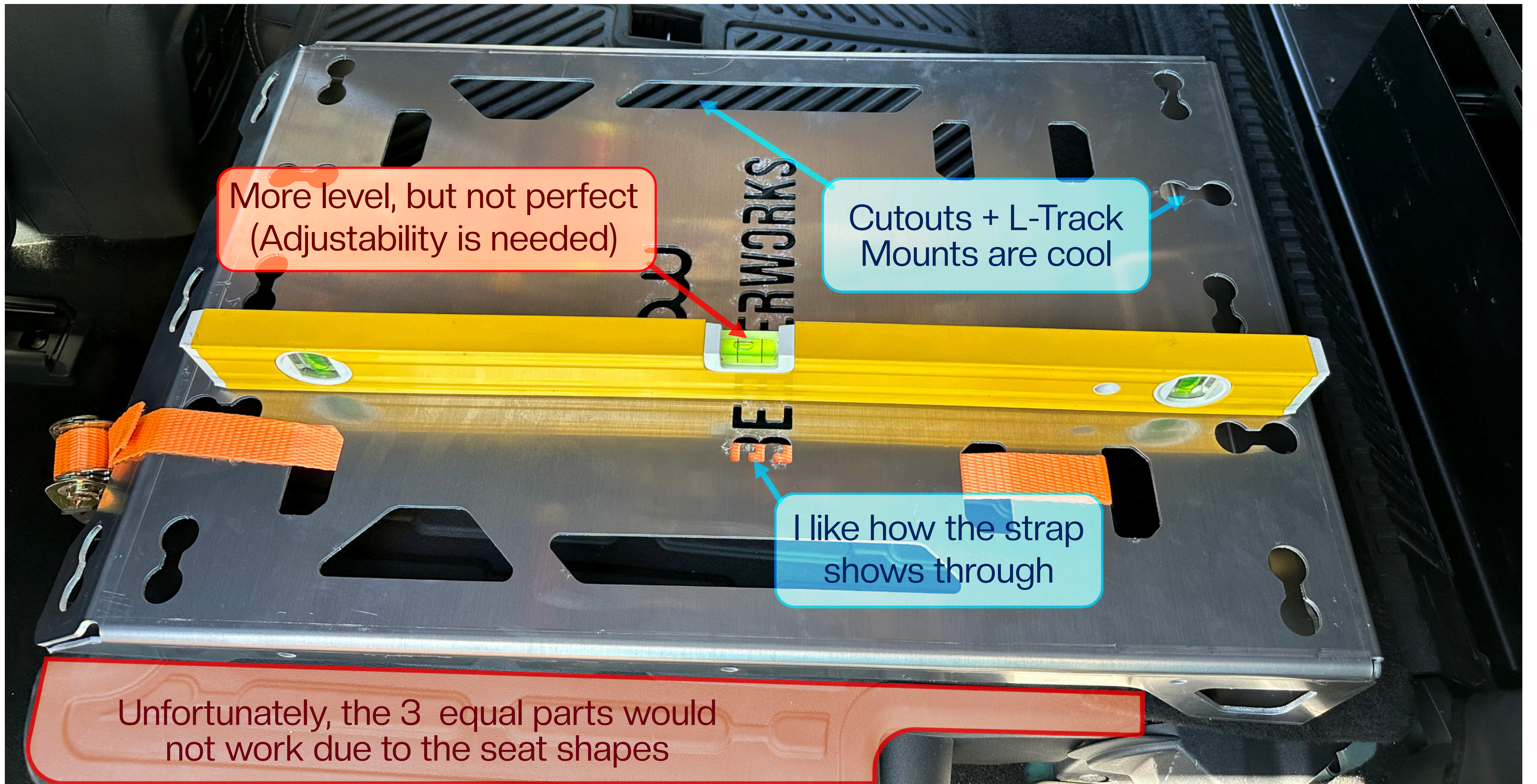
	5052 H32 Aluminum (.125") 26.148" x 32.329" <b>Part_Studio_1__Flat_patte...</b>	Sheet Cutting Bending (9 bends)	Qty: <b>2</b>
			Item Total: <b>\$263.36</b>

Initially, I wanted to make this product 2 or 3 identical parts so manufacturing would be simpler and cheaper.

The rear seat splits 66/33 so in theory, 3 identical parts should have worked...

... In theory





# Prototype Breakdown

Good

Needs  
Improvement

Order #ST71B692  
Placed **August 28, 2025**

● Completed  
Order Total **\$362.39**

[CREATE PRODUCT](#) | [INVOICE](#) | [TRACK ORDER](#) | [REORDER](#)

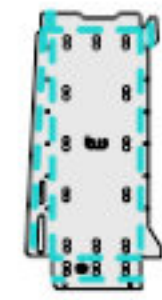


5052 H32 Aluminum (.125")  
22.468" x 37.467"  
**Rev\_02\_Driver\_Side.dxf**

Sheet Cutting  
Deburring  
Bending (10 bends)

Qty: **1**

Item Total: **\$199.71**

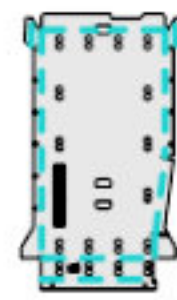


5052 H32 Aluminum (.125")  
18.328" x 37.467"  
**Rev\_02\_Middle\_\_Rev02.2....**

Sheet Cutting  
Deburring  
Bending (9 bends)

Qty: **1**

Item Total: **\$165.25**



5052 H32 Aluminum (.125")  
21.929" x 37.467"  
**Rev\_02\_Passenger.dxf.dxf**

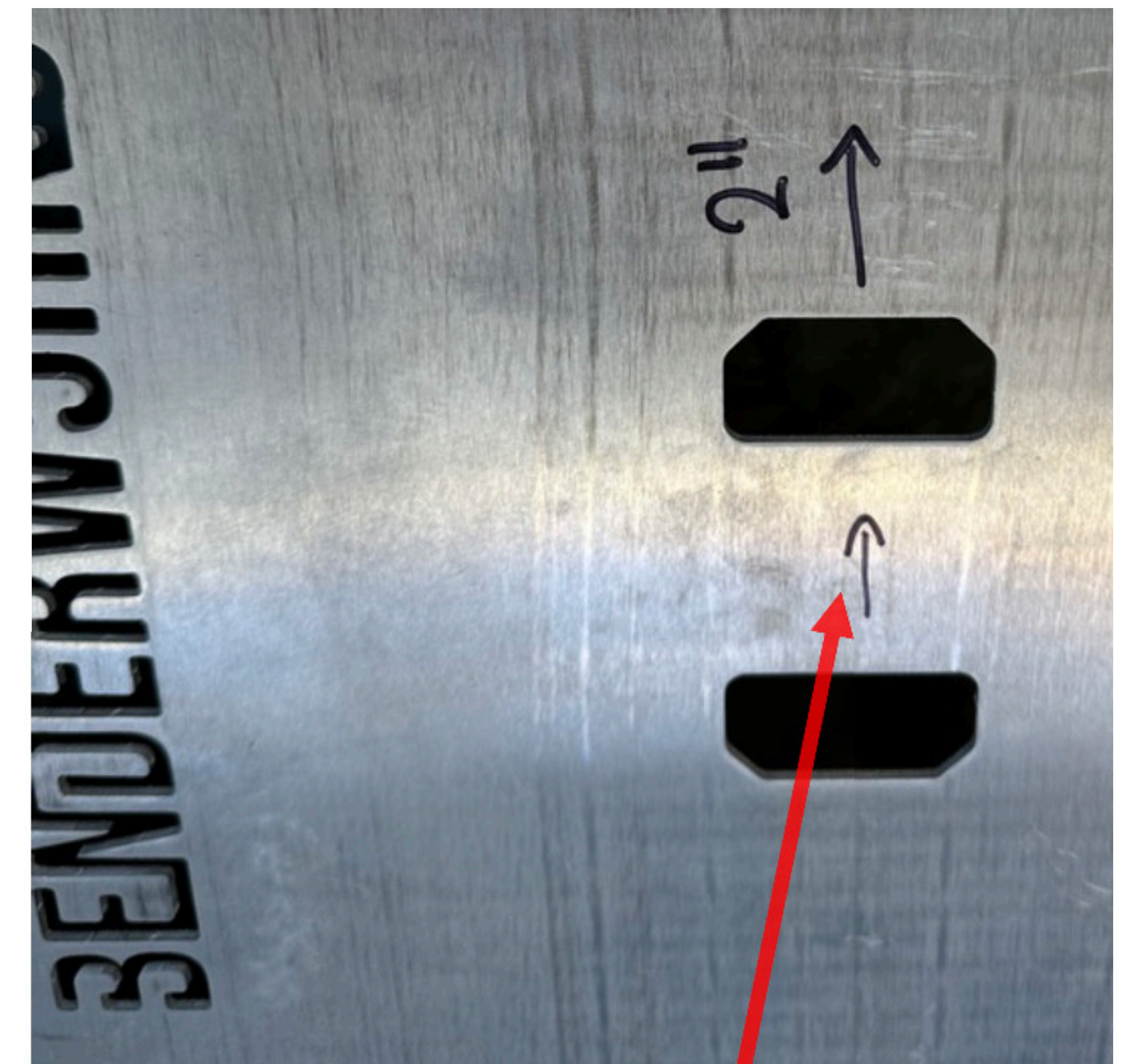
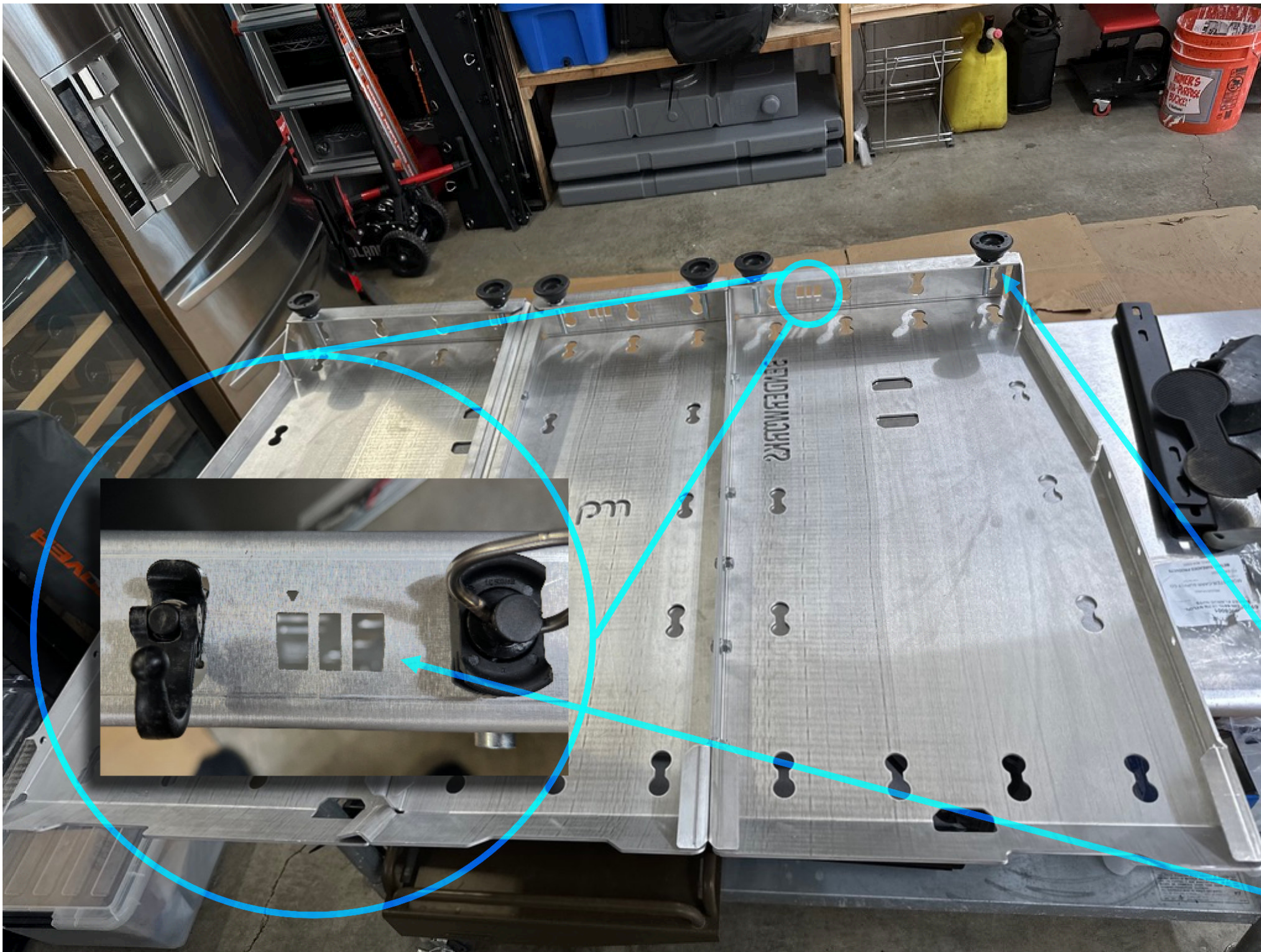
Sheet Cutting  
Deburring  
Bending (10 bends)

Qty: **1**

Item Total: **\$194.80**



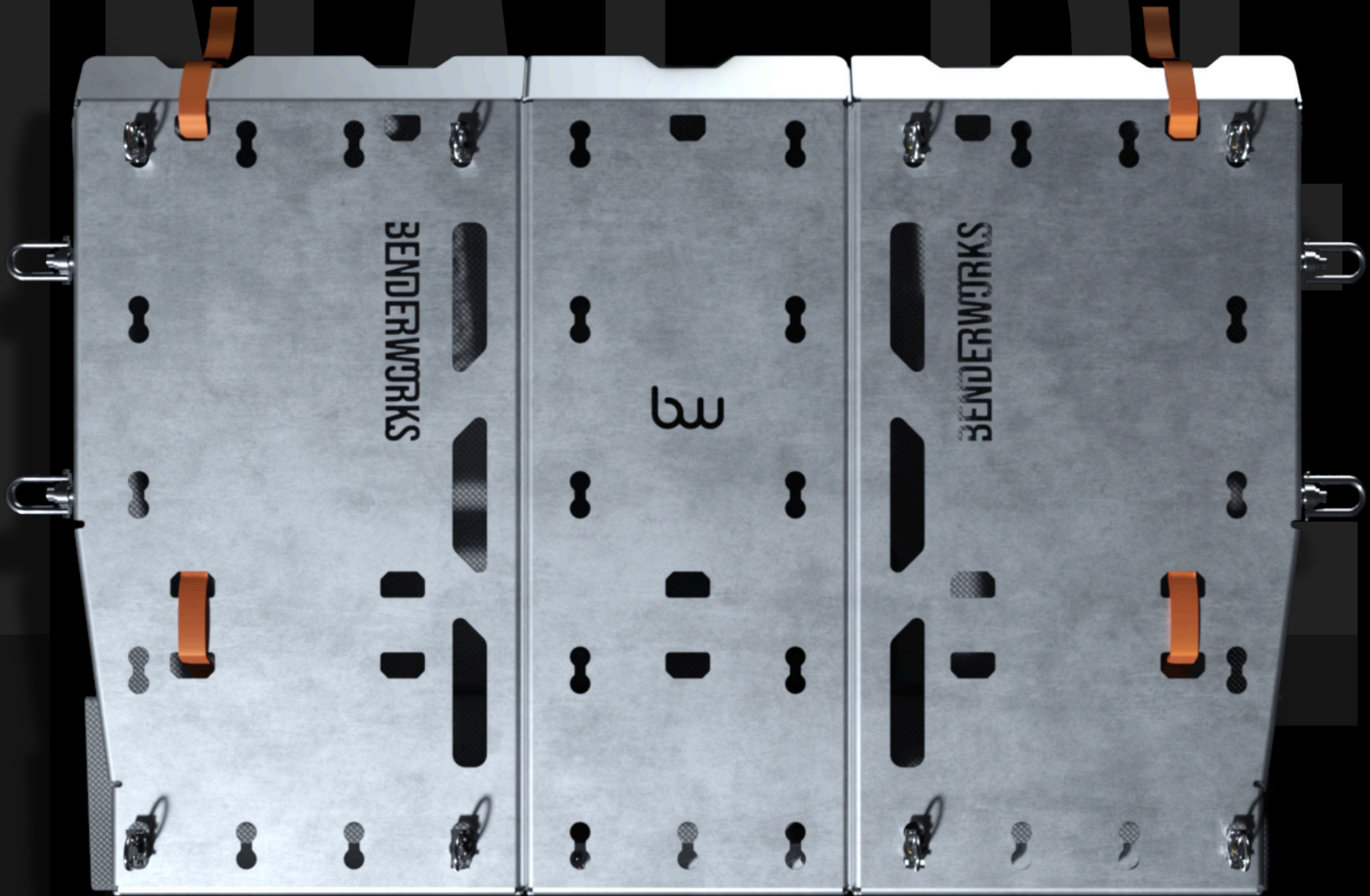
Pivoting to a design with a center platform + 2 mirrored side panels proved to be effective and accurate. This remained through the final design.



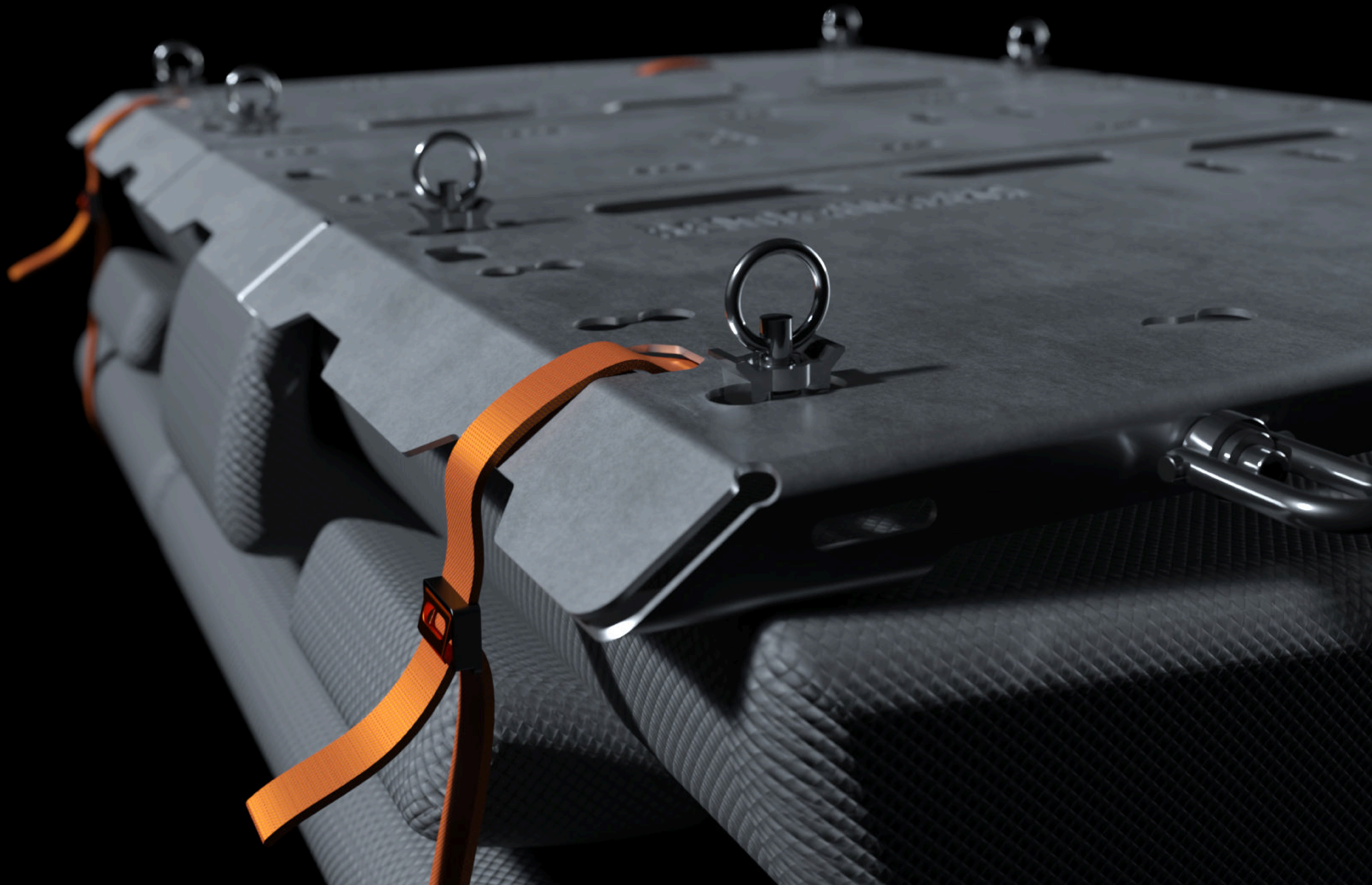
Still needed minor fitment adjustments

Added adjustable feet for fine tuning

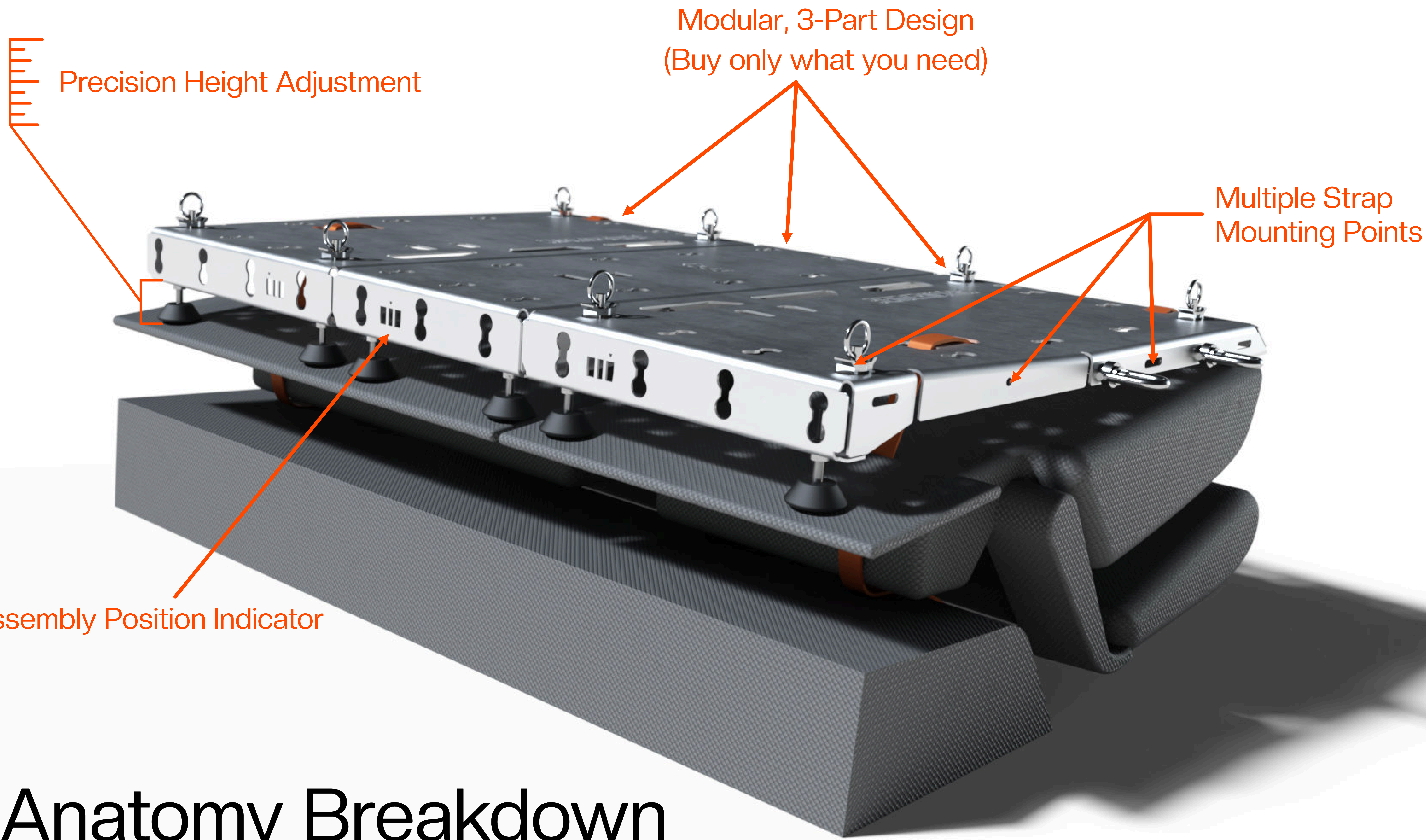
Assembly Position Indicator











Precision Height Adjustment

Modular, 3-Part Design  
(Buy only what you need)

Multiple Strap  
Mounting Points

Assembly Position Indicator

# Anatomy Breakdown

# strap routing:



# Final Product:

