



STAIRWELL DISPLAY

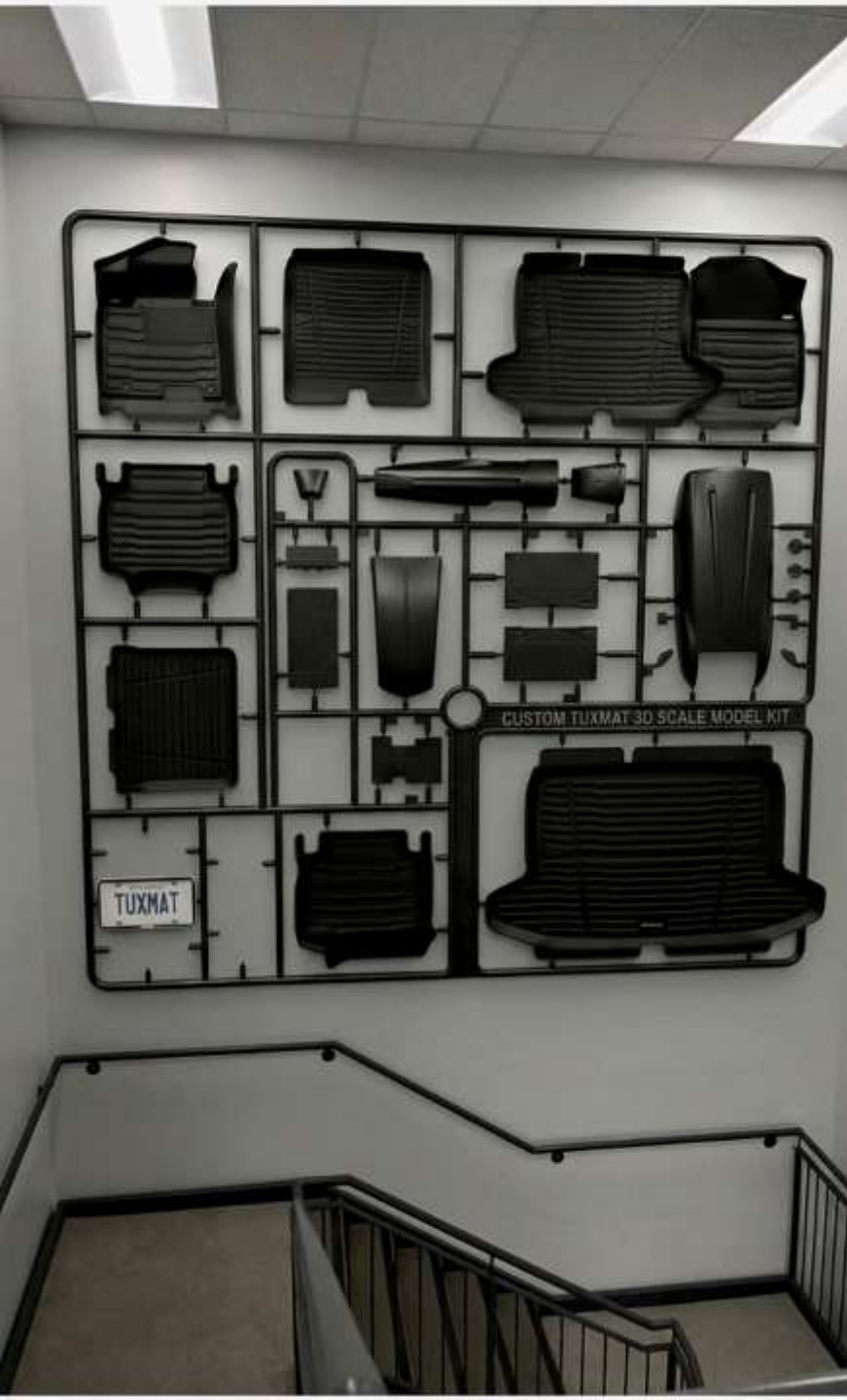
PRODUCT DISPLAY KIT

A product wall display kit for the TuxMat office —
the catalogue as a scale model sprue.

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IN PROGRESS





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Eight stages, one wall

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02

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Four directions, each with its own reference board.

03

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04

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05

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06

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How the frame and the parts get made.

07

Final Renders

The display as it will read in the stairwell.

08

Next Steps

What is still open.

Project criteria

Design a wall display for the TuxMat office that showcase the company's current and future product catalog.

CONSTRAINT

Whatever goes up has to keep working as the catalogue grows.



The stairwell wall as it stands — the surface the display has to earn.

Objective

What must be achieved...

01 — Build To Expand

Display the full catalogue today and take on new products without redesigning the wall.

02 — Legible Without a Guide

A visitor should leave understanding the range, with nobody walking them through it.

03 — Evidence Of Capabilities

Show how TuxMat designs and manufactures, not only what it sells.



02 — CONCEPT EXPLORATION

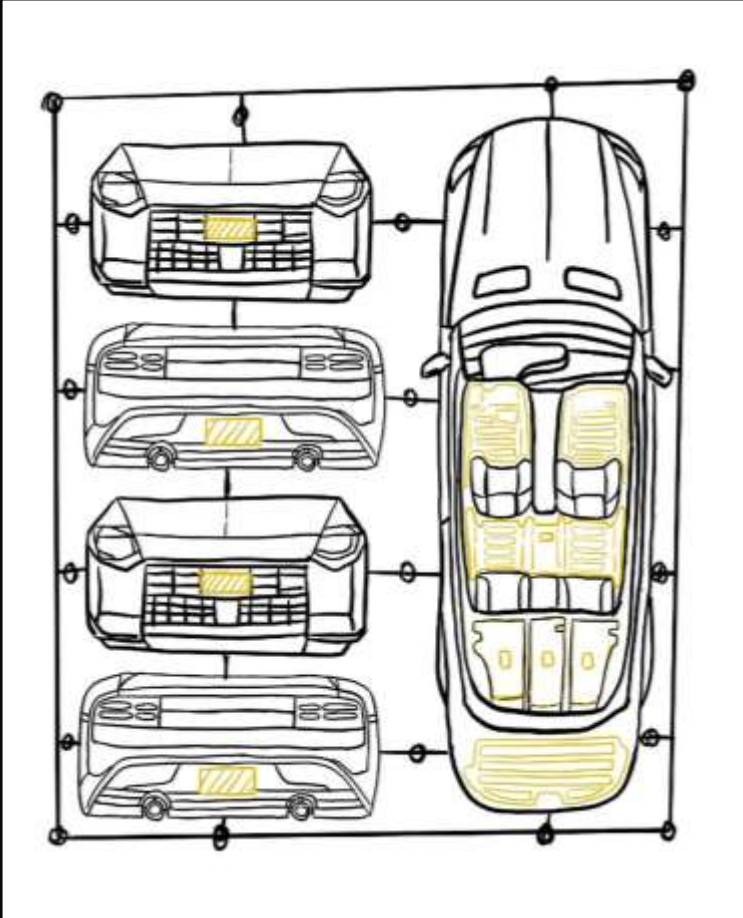
Four directions

Wireframe · Gallery · Sprue · Contour

IN PROGRESS



Concept 01 — wireframe vehicle outline



Layout study — front and top views.



Rendered in place on the stairwell wall.

CONCEPT 01

Wireframe vehicle outline

Yellow area: Mats and the license plate integrated in a wireframe top down and Front view of a vehicle (Black outline).

Concept 01 — references



Model-kit packaging and sprue



Cut-metal vehicle wall art



Framed relief, single part



Wall-mounted model with a spec plaque

WHAT WE TOOK FROM IT

Flat, wall-mounted vehicle art that reads at a glance from across a room — silhouette first, detail second.

Concept 02 — framed gallery wall



CONCEPT 02

Framed gallery wall

Design allows for future modification to add additional new products/accessories.

Each product framed individually and hung as a salon wall.

Concept 02 — references



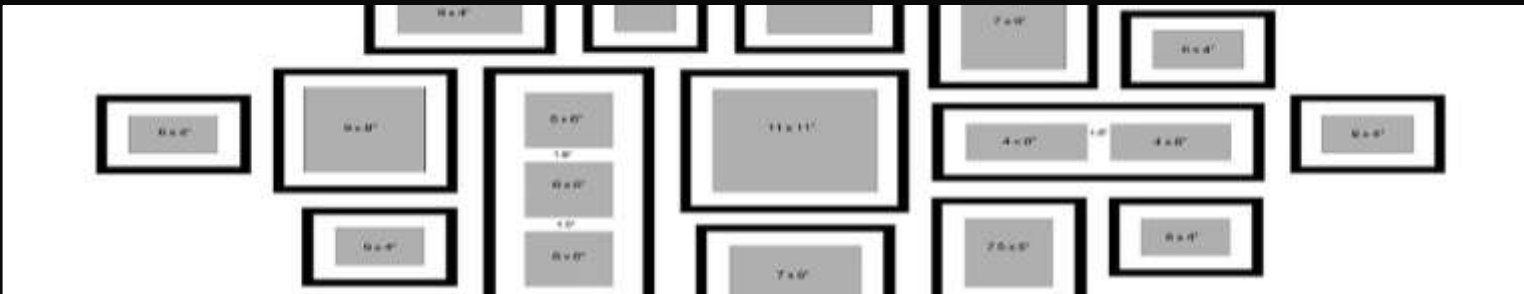
Showroom graphics wrap



Poster wall, mixed frame sizes

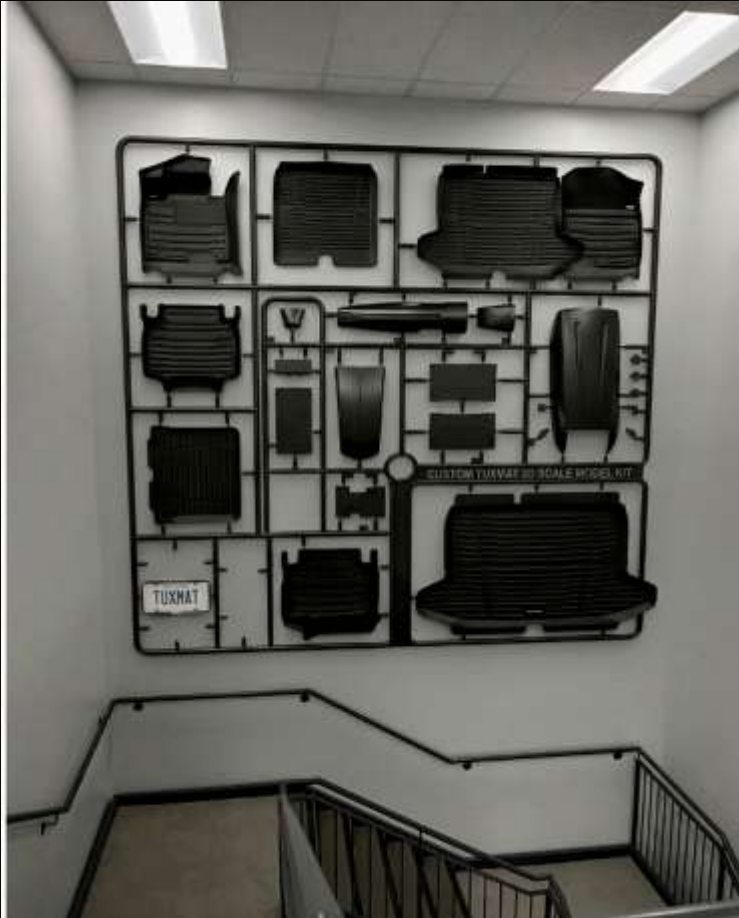
WHAT WE TOOK FROM IT

A grid that tolerates mixed sizes, so a new product just becomes another frame rather than a redesign.



Frame-size layout study.

Concept 03 — scale model kit sprue



Full sprue across the stairwell wall.



Landscape variant with the vehicle body included.

CONCEPT 03

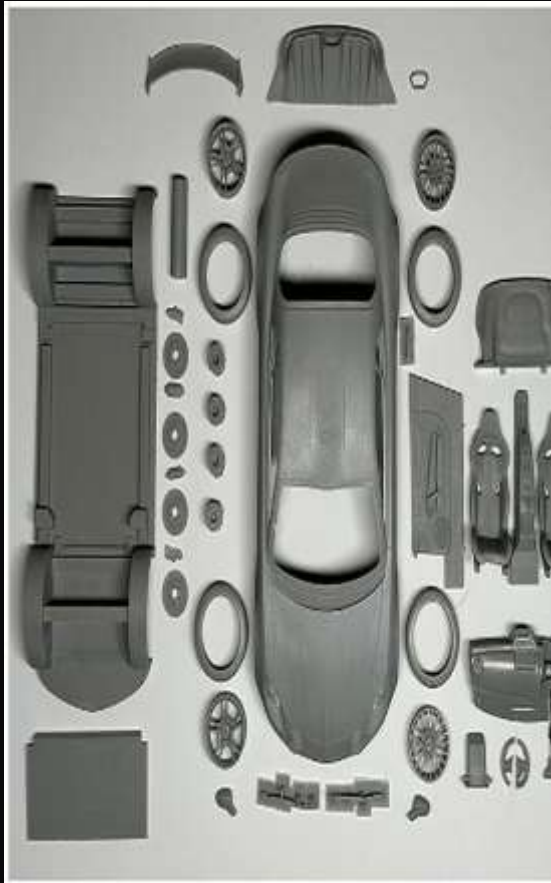
Scale model kit sprue

Design allows for future modification to add additional new products/accessories.

NOTE

PVC pipes for the frame instead of all 3D printed.

Concept 03 — references



Grey sprue, parts laid out



Sprue on the bench



Boxed kit, parts in place

WHAT WE TOOK FROM IT

The sprue itself is the graphic — an ordered grid of parts that reads as one object and explains how the thing is made.

Concept 04 — layered contour vehicle



Contoured vehicle form mounted below a screen.



Backlit



Unlit

CONCEPT 04

Layered contour vehicle

A sliced, stacked vehicle form rendered in place — studied lit and unlit against the stairwell wall.

Concept 04 — references



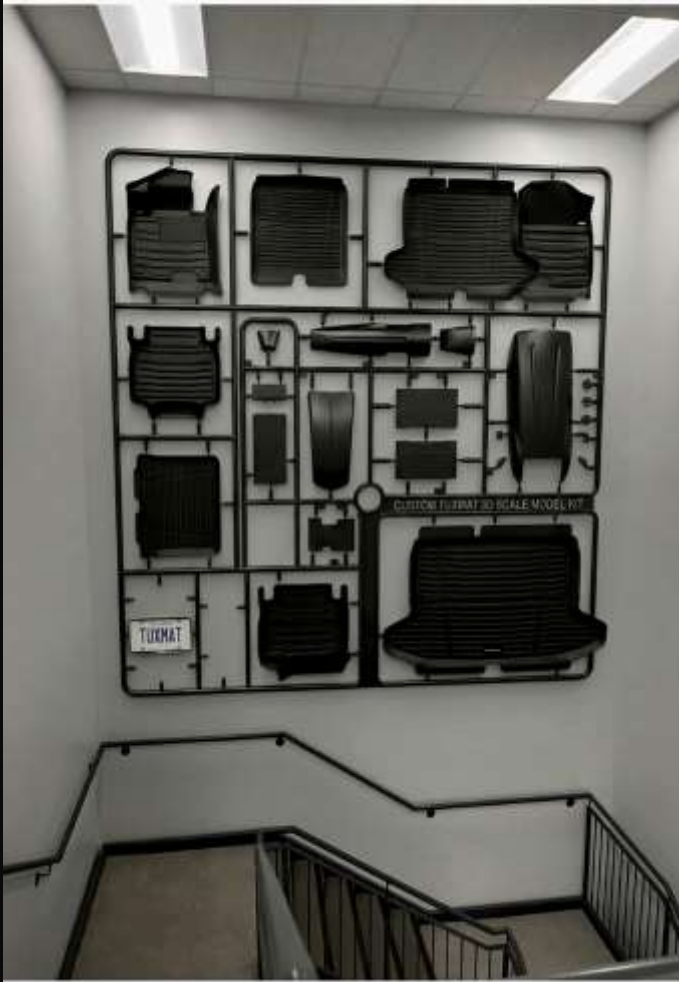
WHAT WE TOOK FROM IT

Depth through stacked layers, and light as a material — the display reads differently as you climb past it.



Layered acrylic, contour display and lit installation references.

Design decision



Stairwell Display · TuxMat Product Wall Display Kit



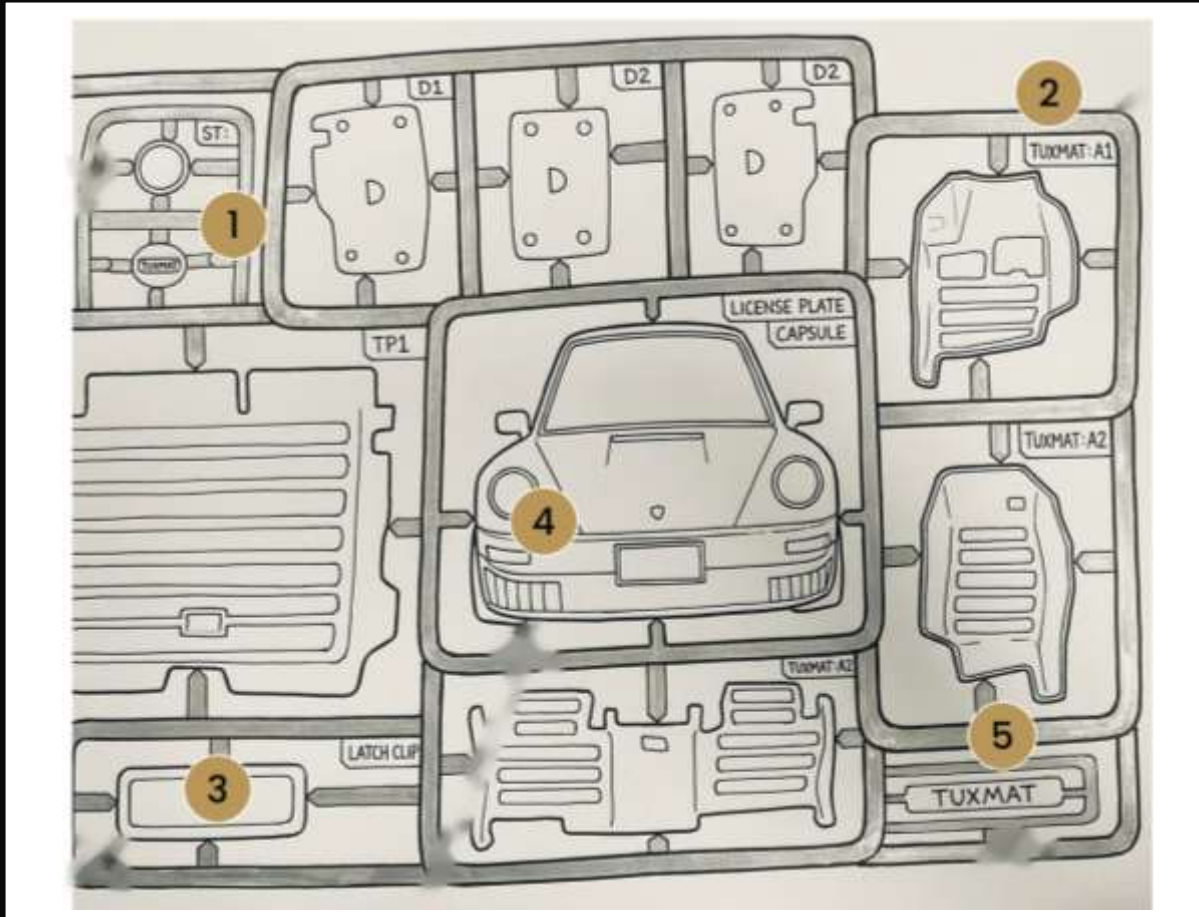
Reference: a production model-kit sprue.

This type of Design allows for future modification to add additional new products/accessories.

WHY THE SPRUE

- Create a large version of vehicle model kits
- Allows to showcase all of TuxMat products like different building components that brings the company together

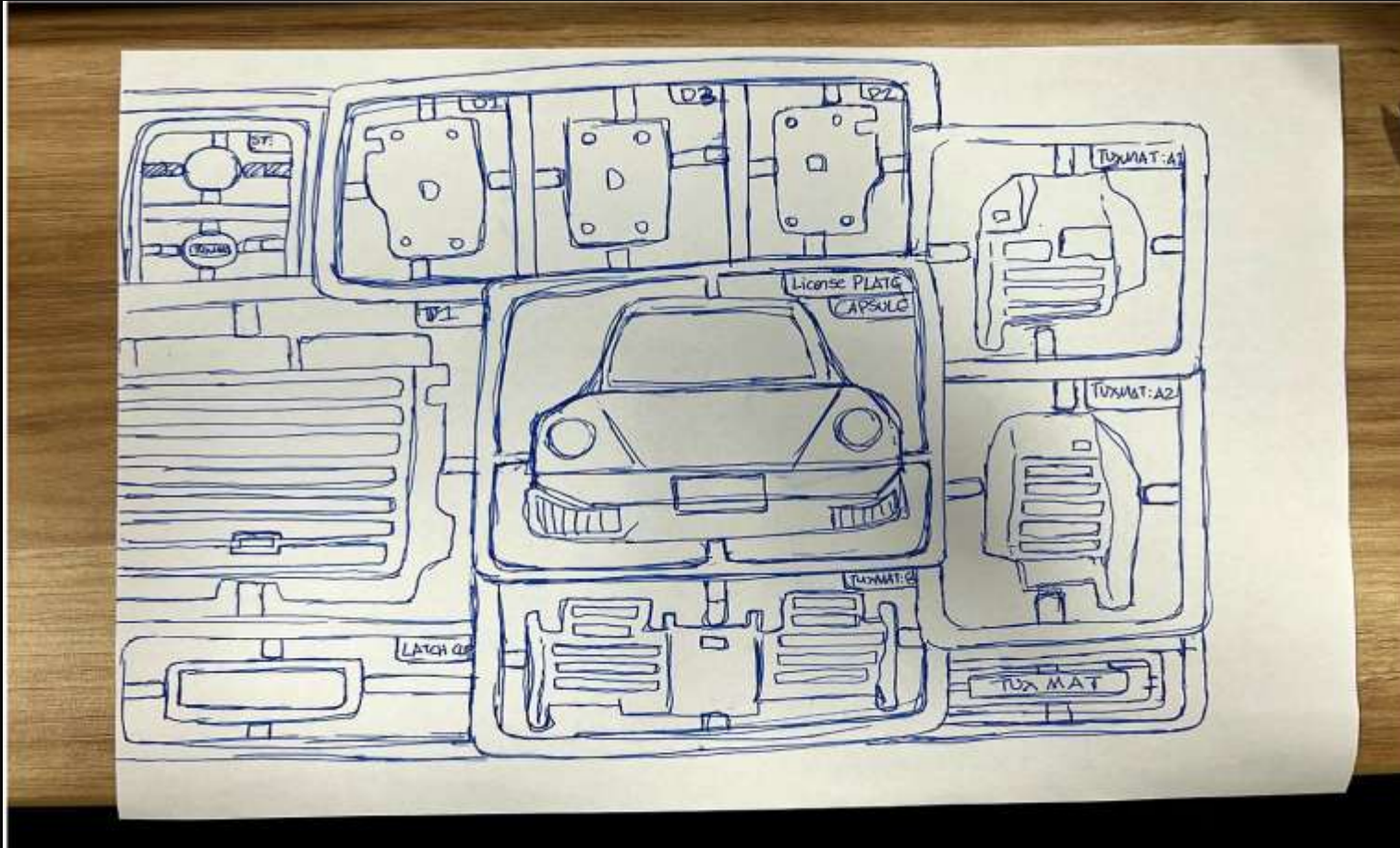
Ideation #1 — the part list



- 1 Enlarged 3D printed version of a SuperTrunk Puck or Retention
- 2 Suggestion: Instead of 3D printing the frame, these can be metal pipes that would be welded and spray painted black
- 3 Enlarged 3D printed version of a latch clip
- 4 3D printed face of the Sku of the vehicle with the License plate
- 5 Enlarged 3D printed version of the TuxMat badge

Display the specific SKU TuxMat — Interior and SuperTrunks.

Ideation #2 — resolving the layout



WHAT IT FIXES

- Centre piece is front face of a vehicle with the license plate
- Surrounding frames with the mats
- Fill in frames with enlarged 3D printed pieces of badges, and other pieces of hardware

Second pass, working out the frame hierarchy in pen.

Wall dimensions

01 Location

This will be displayed in the Stairwell of TuxMat's Office

02 Envelope

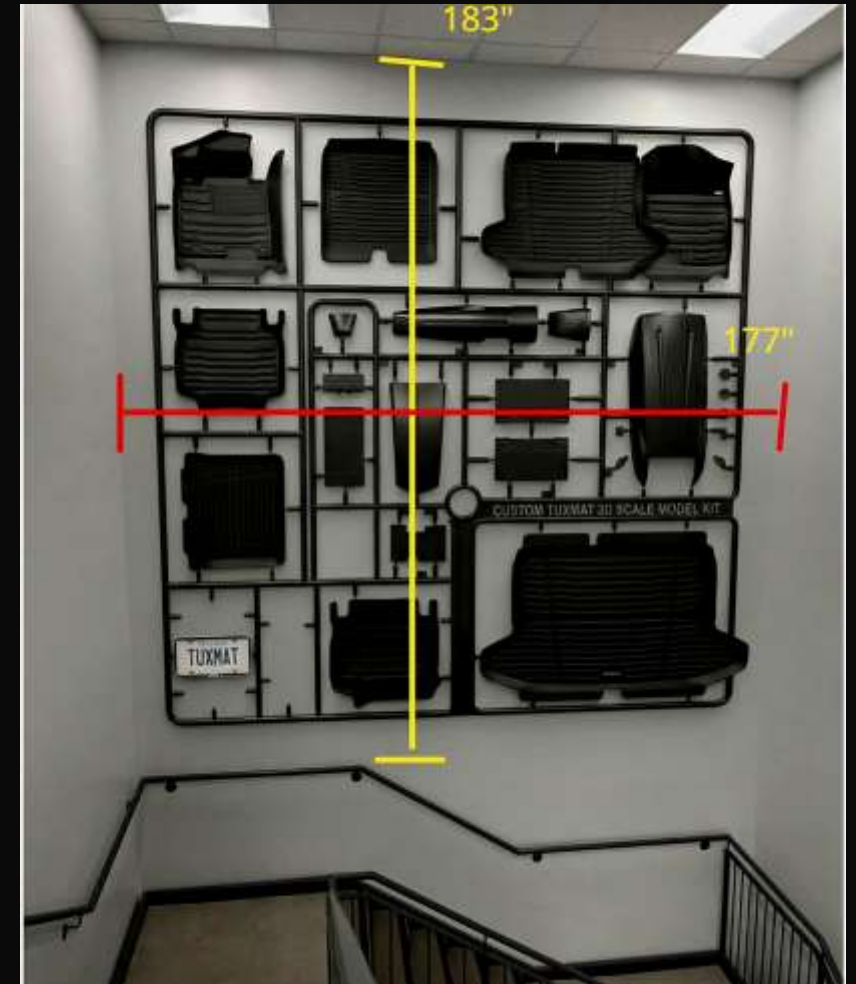
183" height × 177" width inches on top of the railing

03 Rail

2"–2.5" thickness rail

183" × 177"

USABLE WALL, ABOVE THE RAILING



Manufacturing fabrication



Stairwell Display · TuxMat Product Wall Display Kit



Titan Robotics Atlas 3.6 — large-format printer.

APPROACH

Proposed to use PVC pipes or Aluminum pipes for the frame to make fabricating the long bars of the display.

FABRICATION DECISION

All parts of the display from the Frame, vehicle front face, and any of decorative piece will be all 3D printed to showcase TuxMat Manufacturing capabilities with Large format 3D printing.

07 — FINAL RENDERS

Final Renderings

The display as it will read in the stairwell

IN PROGRESS





THE WHOLE WALL

20

Every SKU on one sprue — cargo mat, front face, seat backs and floor liners.



FRONT FACE

21

The vehicle front, moulded on its own runner with the TuxMat plate in the grille.



MID DETAIL

22

The centre run, showing how the frame carries between parts.



PLATES AND SEAT BACKS

23

Flat components sit forward of the wall on short sprue pins.



CARGO MAT

24

The largest part anchors the left of the layout.

In progress — next step



Where the project stands today.

01

CAD Model test pieces for large Format 3D printer — Test

02

Proceed to CAD model components of the Stairwell Display

03

Component test and assembly

NOTHING OVERLOOKED

Thank you

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