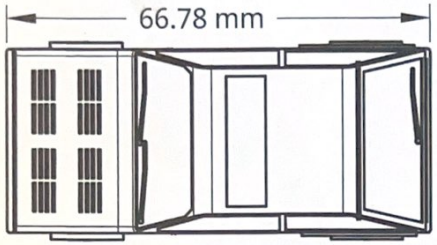
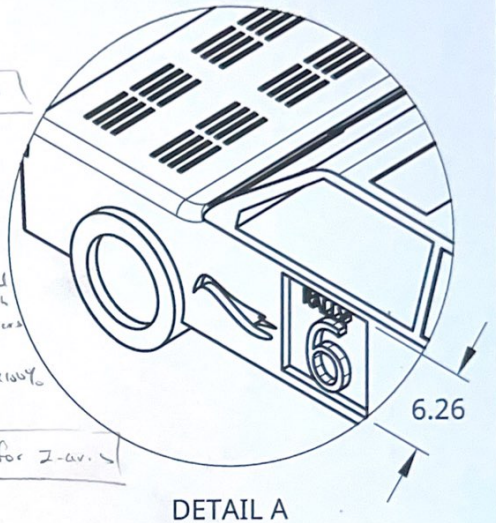
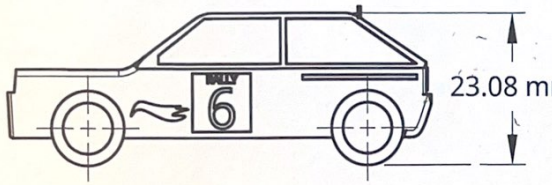


percent error = $\left|\frac{66.78 - 66.73}{66.78}\right| \times 100\%$

= 0% error for the x-axis



DETAIL A
SCALE 2:1



Onshape value → 23.08

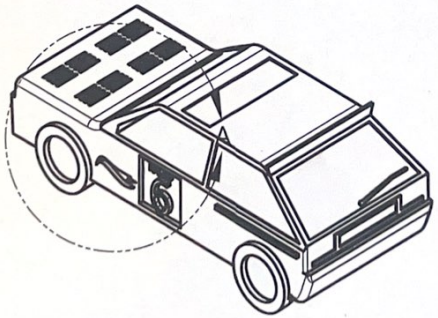
measured value with calipers → 23.12

percent error = $\left|\frac{23.08 - 23.12}{23.12}\right| \times 100\%$

= .17% error for z-axis

percent error = $\left|\frac{29.72 - 27.72}{27.72}\right| \times 100\%$

= 7.22% error for y-axis



There were inaccuracies for the z-axis (only very slightly here) and for the y-axis. This was a result of modification. For example, the y-axis had a larger percent error of 7.22% because adding the wheels caused the width of the car to increase since the original width of the car without wheels on onShape already had the width of the physical car including the wheels. Adding the wheels to the car on onshape essentially meant adding extra width to the car that was already accounted for in the initial engineering drawing. (since the original engineering drawing included the wheels already)

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES .XX = ±.0- .XXX = ±.00- .XXXX = ±.000- ANGULAR = ± ° FRACTIONAL = ± SURFACE FINISH √		NAME	DATE
	DRAWN	BEN WU	02/24/2023
	CHECKED		
	APPROVED		
DO NOT SCALE DRAWING			
BREAK ALL SHARP EDGES AND REMOVE BURRS			
THIRD ANGLE PROJECTION	MATERIAL	FINISH	

TITLE: 3D Extrusion Car

SIZE	DWG NO.	REV.
A		
SCALE 1:1	WEIGHT	SHEET 1 of 1