Carbon Fiber Subwoofer Enclosure

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Abstract

This project addressed a gap between consumer demand and market supply for performance car audio systems. It was recognized that there is a current desire for products made with carbon fiber due to its aesthetic appeal, strength to weight qualities, and general popularity. And this desire for such products applies to audio systems, and more specifically to aftermarket subwoofer systems. The projects main goal was to develop a product to meet the largely unmet demand for a carbon fiber subwoofer enclosure. This project centered on the best way to manufacture a carbon fiber subwoofer enclosure, with a focus on materials, design, and process. The main deliverables of the project were: a product design for the subwoofer enclosure, a design for manufacturing processes, a prototype of the enclosure, and a production costs analysis.