301 TURBO CHARGE DISPLAY

Leveraging Multi Jet Fusion to reproduce an OEM-accurate Turbo Charge boost indicator for the 1980-1981 Turbo Trans Am.

CHALLENGE

The original Turbo Charge indicator, injection-molded with an orange plastic base and hand-painted with black paint, suffered from cracking and degradation due to engine heat and UV exposure. With no available replacements, original owner Paul Pinto sought a reliable solution to digitize and reproduce the part to exact specifications

SOLUTION

Endeavor 3D partnered with Southwest Equipment, Inc. to bring the design to life using Multi Jet Fusion (MJF) technology and Nylon PA 12 material. This solution provided enhanced durability and aesthetic precision while offering a cost-effective alternative to injection molding. The manufacturing process included prototyping, iterative adjustments, and quality improvements to ensure the final product met the OEM standard.

BENEFITS

1. Durability

By using Nylon PA 12, Endeavor 3D improved the part's resistance to heat and UV damage, resolving the cracking and fading issues of the original part.

2. Quick Turnaround

Endeavor 3D delivered high-quality parts in just 5-7 days, providing a modern solution where the original injection molding method for this part was no longer available.

2. Cost Efficiency

MJF 3D printing cut tooling costs by more than $11,500.

AT A GLANCE

INDUSTRY

Automotive

TECHNOLOGY

Multi Jet Fusion

MATERIAL

Nylon PA 12

BENEFITS

- Durability
- Lead times
- Cost efficiency