



TRANSPORTATION



TIME FRAME



FINAL PART QUALITY

## APPLICATION SNAPSHOT

Reframe the challenge, recapture success

### Challenge

Not every challenge is about a fixture. Sometimes, it's about redefining the challenge itself. In this case, the initial ask was to design a fixture to marry the subassemblies for a train cab. Time was tight, and because there were only three different prototypes to build, dedicated fixtures weren't an option. To win the production contract this company had to get everything right.

### Solution

- Two large Custom Welding Tables
- Kit of standard modular components
- A new plan: fixture the subs AND the final part

A tailored package of modular tooling and two large tables allows sub-assemblies to be built in groups of three. Once the 11 subs are built, the same system is used to assemble the cab, answering the original request. CAD designs with setup instructions for each build are accessed from a tablet on the shop floor.

### Result

Fixturing experts delivered repeatable designs for every sub.

**Prototypes** are built faster than originally quoted for **production**, with the final marriage of subs only taking 4 hours rather than 4 days. The time savings translated to a lower selling cost to the customer. Finished interior panels fit like a glove.

**Customer quote:** "We originally thought we wanted to use the modular tooling for just the final marriage cell. You have proven that it was better to use it for all the sub-assemblies. When the subs are all made correctly the marriage is a piece of cake! Everything fit like it was supposed to. Well done Bluco!" ■

Got a challenge that needs to be solved? We've engineered solutions for hundreds of customers and thousands of applications. Show us your part and let's make it better.

For more information, call **800.535.0135**, email **[sales@bluco.com](mailto:sales@bluco.com)** or visit **[bluco.com](http://bluco.com)**