



Project: Design & prototype climate control & radio units

Scope:

Five samples each of 4 designs of HVAC / audio electrical assemblies required for exhibition at Detroit area trade show. Empod responsible for complete packages including all major printed circuit boards, component placements, displays, knobs, switches, connectors, mounting interfaces, and tooling and assembly required for each. Units must look exactly like production units.

Project definition:

Project definition though to be very good, with West Coast interior design studio providing front exterior styling data.

Logistics hurdles:

With styling data, work commenced with 8-week lead-time. BUT, in 6th week, client's customer required 3 of the 4 units to have new styling! With prototype injection molds already complete for each of the units, the new data must be integrated into the design and rapid prototype plastic made to match quality of molded units.

Resources brought to bear:

Multiple CAD design engineers using state-of the art 3-D CAD system to design parts and tooling. Experienced lead engineer multiply sources custom parts and electrical components to assure best prices and fastest turn-around. Completed painting, printing, and assembly on-site.

Results:

Customer apologetic about late change in direction, but delighted that Empod was capable of the extra effort needed to deliver the 20 units on-time for the show which was a huge success. Units were fully functional and looked and felt like the "real thing".

