NOTES:
1. ALL DIMENSIONS TO BE ±0.02 UNLESS OTHERWISE SPECIFIED.
2. MATERIAL - CRES-302
3. 2 REQUIRED
4. FILLETS AND ROUNDS R.03-.04
DSU Support Assembly

EDG 4224

Final Project

Kurt Jacobson
3D Printed DSU Support Assy.
Project Goals

• Make nearly identical to production unit
  • Use originally specified components
  • Use originally specified materials
  • Rivet all joints
  • Make 6/6 Nylon glides
  • Powder coat or anodize

• Make presentation stand
Joggle Tooling
Milestone Timeline

1. Project Initiation
2. Presentation
3. Design Complete
4. OMAX Layout
5. Waterjet Cutting
6. Source Material
7. Source Components
8. Part Forming
9. Assembly
10. Finishing
11. Submission

Initiation -> Modeling and Design -> Production -> Delivery
Original Project (TPTN Enclosure)
3D Model
Alignment Pins

Quote for purchased pins was $44 each. Once set up took about 10 min each to make!
Waterjet Parts
Jury-rig Part Bending
The parts were glued together with CA glue to ensure proper fit-up and to help hold the parts while the rivet holes were drilled.
Drilling Holes
• CLECO temporary rivets and spring-loaded sheet holders were used to hold the parts during drilling and riveting.

• The rivet gun sets the rivet against the bucking bar.
Forming Joggle in Milling Vise
The parts were extremely heavy, hence the cherry picker.
While we're at it . . .
Assembly
Assembly
Making Feet for Support Posts

Thanks goes to David Zambrano for meticulously polishing the support posts.
The DSU unit on the left was made by David Zambrano and Patrick Morgan.
Finished!