



Value Analysis / Value Engineering



Details of the Project

Existing Project
Alternate Vendor

This Case study is a result of GSIE performing a VA/VE analysis with our Customers existing products. GSIE was able to “Engineer and Design-In” quality and savings.



List of Issues

Existing Project Contributors

Multiple Step Production Process with inconsistency

Negative Effects

- High PPM's
- Excessive Cycle Time
- Part Inconsistency
- Customer Rejections



Creating a Solution

GSIE's team of engineers and manufacturing experts worked with the customer to re-design the product and tooling, utilizing 2-shot molding technology to develop a part that would improve quality and reduce costs.

New 2-Shot Injection Mold

Elimination of 9 Components

Lean Manufacturing Processes



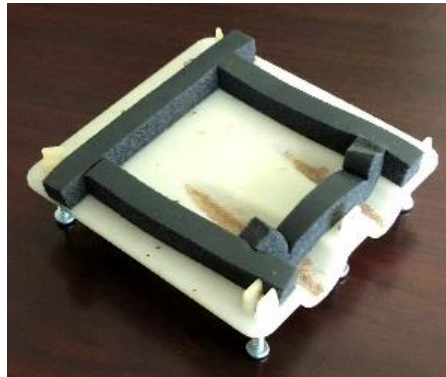
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Existing Product 10 Components



5 Screws

- Installation time.
- Cross threading.
- Torque not consistent.
- Loose screws rattle.



4 pieces Foam

- Installation time.
- Adhesion issues.
- Not properly positioned.

Quality Issues

- Water Leaks.
- Loose/missing screws.
- Foam not in position.

GSIE's Solution 1 Component



Engineered Snap in Design - 2-Shot process that eliminated water leaks, reduced overall cycle time as well as reduced the number of components from ten to one.

80% Improvement
in overall cycle time.

72% Cost Savings

Visit our website or contact Randall Leach on how GSIE can provide solutions for your next manufacturing project.

