



## COST SAVINGS SUCCESS STORY



Report #4-09

### Key Components:

- Reduced Piece Price
- Reduced Assembly Time
- Reduced Rework
- Easier Assembly
- Supplier Consolidation



## High Voltage - Life Critical - Glove Inflator *Part Redesign and Assembly Improvement*

### Opportunity:

**Long assembly time** due to steps required to build. High amount of **rework** due to lack of sealing components, and **constant** fastening problems. Price pressure on the cost of the finished product.

### Previous Design:

The previous design required the operator to count out six stainless steel machine screws and **manually** insert the **lead** washers. The assembly included a very expensive riveted nut that occasionally came loose during assembly causing **scrap** and **rework**.

### New Design:

The new design utilized the fastener to **form threads**, eliminating the riveted nut. The new design included a neoprene backed washer pre-attached to the fastener, "**SEMS**". This "SEMS" decreased the assembly time, while **increasing consistency** and sealing. The new fastener also implemented a 6 lobe recess which **assisted in assembly**. Field rationalized the supply base by being able to provide majority of the components to the assembly

### Field's Design

**80 % Assembly Time Reduction**

Eliminated Scrap Due To Inconsistency

Piece Price Reduction

**Annual Cost Reduction**

**\$44,470**

**Cost of Fasteners**

**\$5,000**

**Cost Reduction = 9 Times The Cost Of The Fasteners!**