## ArmaKleen Technical Service Report Summary

Cleaning Trial Type: Aqueous

Industry: Electronics component manufacturing

Segment: 08 – Mechanical & Equipment Service

Soil: Shop dirt, oil, glue/adhesive, grime, cutting fluids, silicone, drawing lube, grease, rust/oxides

Substrate: Steel, stainless steel, aluminum, copper, brass, glass, plastic, rubber

Description of Part(s): Frames, filters, circuits boards

**Customer objective:** The customer was looking to improve their cleaning performance, automate their cleaning process and eliminate hazardous chemicals and waste.

Cleaner used: 5% by volume ArmaKleen<sup>™</sup> 4 in 1 Cleaner

Machine used:

- 1. Agitating Immersion Washer (SK 81.8, Graymills T12, Graymills T24)
- 2. Ultrasonic Washer (Blackstone SK 6315)

**Temperature used:** 150°F – 160°F

Time required: 10 to 20 minutes

**Post Cleaning:** Fresh water rinse followed by air pressure drying.

**Recommendation to Customer:** The ArmaKleen Technical Center recommended using 5% by volume ArmaKleen<sup>™</sup> 4 in 1 Cleaner in an Agitating Immersion Washer at 150°F for a minimum of 15 to 30+ minutes.

## **Before Picture**

## **After Picture**



