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Canon Machinery Inc.

## **Proposed Overhauls of Equipment Using Aluminum Electrolytic Capacitors**

Thank you for using our company's products.

As you are probably aware, the "System for Safety Inspection and Labeling of Products for Long-Term Use" for consumer products went into effect on April 1, 2009. This system is designed to prevent accidents involving consumer products intended for long-term use. This legislative system does not apply to industrial instruments and equipment. However, industrial instruments and equipment that use aluminum electrolytic capacitors with the same lives as consumer products also require maintenance and inspection for long-term use. Accordingly, we offer the following proposals with regarding to overhauls of products that we have delivered that use aluminum electrolytic capacitors.

### **1. Proposal Content**

Aluminum electrolytic capacitors have a limited lifespan, so from the perspective of preventive maintenance we propose performing overhauls early.

### **2. Target Equipment Using Aluminum Electrolytic Capacitors**

Products such as servo motor drivers, pulse motor drivers, DC power sources and personal computers use aluminum electrolytic capacitors. Within three to 10 years from the start of use, malfunctions attributable to the lives of aluminum electrolytic capacitors tend to increase. (The lives of capacitors are significantly affected by frequency of use and the environment in which they are used.). For servo motor drivers, a booklet entitled "[Using FA Servos for Many Years to Come](#)" that is published by the Japan Electrical Manufacturers' Association lists five years as the standard replacement period.

### **3. Our Response**

The methods employed, cost and amount of time required to overhaul equipment using aluminum electrolytic capacitors varies depending on such factors as the need to dispatch workers to exchange equipment and the need for lending out other equipment while overhauls are taking place. When placing an order for an overhaul, please feel free to contact us.