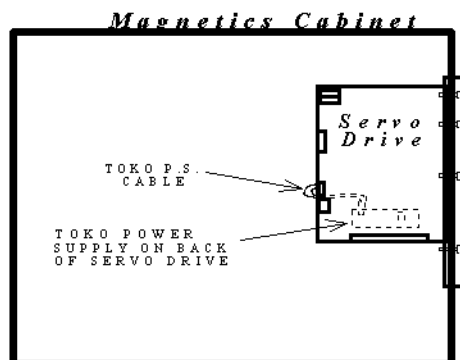


TB109 (Rev1) - TOKO Cable Problem

Overview

This document describes a problem that may occur on older Centroid controls that use the Toko brand drive logic power supply and have connectors on both ends of the cable. (Not soldered to the power supply).



Problem

Customer complains of jerky axis movement. While jogging, homing, or running a program.... the axis momentarily stops and then rapids a short distance to "catch up" to the position that it "should" be at. This problem will also produce an occasional "411_axis full power without motion error" on all axes. The problem is usually intermittent and seems to go away for a short time when you turn the power off and on.

Cause of the Problem

The cause of the problem is a bad connection at either end of the supply cable running from the TOKO power supply to the servo drive. Over time the connection develops oxidation, which inhibits a good connection.

Solution

Remove and reseat cable at both ends (make sure that none of the pins are pushed out of place on the connector). Before reseating the cable, you should clean any oxidation off of the header connector pins. Another solution would be to eliminate the connector by soldering the wires directly to the TOKO.

Document History

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