

# USER GUIDE CHANGE SUMMARY

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## TQ10X Servo Controller/Drive User Guide

**Revision B**  
June 1999

The following is a summary of the primary technical changes to this document since the previous version was released. This document, p/n 88-015115-02 **B**, supersedes 88-015174-02 A.

### **RS485 Communication Option**

*New* – RS485 is now available as a custom option. Contact Custom Products Department for details. This feature is only available on new controllers, identified by firmware 92-016637-01 rev A and higher.

### **Communication Error Checking** (pg 91 an pg 102)

*New* – SSE and % are two new commands added to support communication error checking. These commands are only available on new controllers, identified by firmware 93-016637-01 rev A and higher.

### **Updated Speed Torque Curves for SM Motors** (pg 40)

*Change* – Peak motor current values were reduced.

**Revision A**  
October 1997

### **Motor Pole Compensation Range** (pg 11)

*Change* – The range has been increased by the addition of a third DIP switch on the bottom of the product. This allows improved current-loop performance with a wider range of motor electrical pole frequencies, including all Parker Neometric 70mm and some of the 92mm motors. If the new switch, SW3-3 is placed in the OFF (up) position, settings are backward-compatible with earlier product.

### **Reset Input Functionality** (pg 27)

*Change* – Asserting the RESET input will now reset controller, as well as drive faults. This is accomplished by cycling +5 volt power to controller. The effect of asserting the RESET input is identical with cycling power, except that power to the encoder and hall sensors is not interrupted by RESET.

**Enable Input Low-State Threshold** (pg 25)

*Change* – Threshold has been increased by approximately one volt for improved noise immunity in applications where this signal originates at some distance from the drive.

**Technical Information on SM & NeoMetric Series Added** (pg 35 – 38)

*Addition* – Complete technical information is now included on SM and NeoMetric Series motors.

**New Back Cover Illustration**

*Change* – The illustration on the back cover of this User Guide has been updated to incorporate the changes listed in this change summary.