PO Box 2626 Athens, OH 45701
Voice: 740-594-8532
Fax: 740-594-8533
Email: sales@mitchell-electronics.com
Web: www.mitchell-electronics.com

Model TI-3000R Servomotor Run Test System

FEATURES

- Test run Fanuc motors with serial, ABS & incremental encoders
- Test run motors with 3 pulse 60 degree and 120 degree commutation from 5 V to 30 V levels
- Test run most motors using resolver position feedback
- Select encoder type via keypad and LCD display
- Portable enough to take to customer's site
- Simplify training by using one common drive system
- Uses the TI-5000 test equipment encoder cables
- Harness to TI-5000 tester to run Continuous Count Test and Phase Angle Tests during test runs
- Runs from 120 VAC power

GENERAL

The TI-3000 is designed to let you perform a no-load test run on a variety of brushless DC motors to verify the repair work. Using the TI-3000 you can:

- *Be confident* that a repaired motor will run on the customer's equipment.
- *Simplify employee training and reduce mistakes* by using one multi-purpose test instrument.
- *Test run a motor* in your shop or at your customer's site.

PART OF THE FAMILY

The TI-3000 equipment was designed to work well independently or in conjunction with your other equipment from the Mitchell test equipment family. Cables that you have either purchased or fabricated for use with the TI-4000 or TI-5000 testers are pin compatible with the TI-3000. A special test harness allows you to route quadrature pulse encoder outputs from the TI-3000 to the TI-5000 tester. This makes it simple to run Continuous Count Tests and Phase Angle Tests on a quadrature pulse encoder while the motor is being test run with the TI-3000 system.

EASY TO USE

The TI-3000 system is easy to operate using the following simple steps:

1. Connect the motor armature leads to the amplifier using the quick change terminal block connector.
2. Connect the encoder feedback device to the TI-3000 terminal block (cables may be purchased for many encoders, TI-5000 test system cables are compatible, or cables may be user fabricated).
3. Select the correct encoder (or commutation system) using the TI-3000 built-in keypad and display.
4. Press the RUN Key and adjust to the desired speed and direction using a 10 turn potentiometer.

A built-in diagnostic routine can insure that proper connections have been made and that the commutation conversion is producing the correct signals for the amplifier. Press the DEBUG key, rotate the motor (and encoder), and watch the display to see that the correct commutation pattern is being produced before attempting to run the motor.