

# 2524 Upgrade

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The 2524 upgrade replaces the control system, terminal selector, and instrumentation of earlier DIT-MCO systems without sacrificing your investment in switching, adapter cables, and test programs. The 2524 upgrade offers you:

- Improved reliability and decreased downtime
  - Easily maintained modular components
  - Compatibility with DIT-MCO's Series 12, 13\*, 15, 21\*\*, 23, 24, 25\*\* switching systems
  - The benefits of computer automation and simple, user friendly software
  - State-of-the-art electronics to replace obsolete or hard-to-find components
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Reduce downtime while improving reliability with your Model 660, 770, 8210, and 9100. The 2524 upgrade eliminates obsolete and expensive, hard-to-find older parts. Included in the upgrade is an industry standard computer to replace the less versatile paper tape reader and older computer control console. Your network-ready computer helps automate and streamline processes while reducing human error. This computer delivers greater versatility and interfaces with your test system through its enhanced parallel port (EPP). It also supports the time-saving features found in DIT-MCO's latest software. With Windows™ support and menu-driven, the new software does not demand computer training or typing skills to use.

A 2524 upgrade consists of a single 10-½" x 19" chassis to replace all existing control and instrumentation hardware. The new chassis contains a printed circuit board for the EPP (IEEE 1284) and ATA control interfaces, terminal selector as well as a Single Board Comparator (SBC). These boards provide a modular system that's easy to maintain. The upgrade also replaces the AC input assembly on Model 660 and 770 testers. You gain from significant maintenance cost reductions as well as more test capabilities. For example, one new capability is Compensated Continuity Resistance. Now you can perform resistance tests without using costly four-wire switching and adapter cables.

The 2524 upgrade also accommodates Digital Comparator Systems (DCS). To use an existing DCS, make sure it is at least a DCS-III. The DCS option produces precise digital measurements conservatively specified at ±1% for greater fault detection. The completely self-calibrating instrument has its own standard reference eliminating external instruments. Self-calibration takes only minutes for vast maintenance cost savings.

When upgrading, choose the configuration that best meets your specific needs. The basic configuration incorporates a new control and comparator chassis into your existing cabinet. Or choose a new, low-profile cabinet with a rack-mounted computer to completely replace the existing control console. Either configuration can include the DCS option. Talk to your DIT-MCO regional sales manager or corporate sales department for information on upgrading your particular configuration.

With the 2524, you can gain the *power and reliability of a new system at a fraction of the cost.*

\* Rated 1000VAC maximum

\*\*Series 17 test speeds applicable



## TERMINAL SELECTOR SPECIFICATIONS

<b>Voltage</b>	1500 VDC 1000 VAC
<b>Switching Interface</b>	30,000 test points standard

## SINGLE BOARD COMPARATOR SPECIFICATIONS

The SBC is a single printed circuit assembly for measuring resistance, voltage, and capacitance while comparing these values to programmable limits. Since the SBC is not ground referenced, you can test grounded products easily and effectively.

### Single Board Comparator (SBC-3) Specifications

#### Stimulus

<u>Source</u>	<u>Range</u>	<u>Programming Steps</u>	<u>Accuracy</u>
Low Voltage	0.225 to 29.75V	0.075V	±5%±0.25V
High Voltage	30 to 1500V	2V	±5%±5V
Constant Current	0.005 to 2.0A	2.5mA	±5%±5mA

#### Constant Current Measurements

<u>Stimulus(Amps)</u>	<u>Range (Ohms)</u>	<u>Accuracy</u>
0.005 to 0.0975	10 to 99.9K	±10%, ±1Ω
0.1 to 2.0	1 to 999	±2% ±1Ω
0.1 to 2.0	1K to 99.9K	±1% ±1Ω
1.0 to 2.0 (Compensated)	1 to 99.9	±3% ±0.1Ω
0.1 to 0.975 (4-Wire only)	0.1 to 999	±2% ±0.03Ω
1.0 to 2.0 (4-Wire only)	0.01 to 0.0999	±1% ±0.003Ω
1.0 to 2.0 (4-Wire only)	0.1 to 999	±1% ±0.015Ω

#### Constant Voltage Resistance Measurements

<u>Stimulus(Volts)</u>	<u>Range (Ohms)</u>	<u>Accuracy</u>
0.25 to 5.00	10 to 9.99K	±20%, ±10Ω
5.25 to 29.75	10 to 99.9K	±3%, ±10Ω
30 to 98	100K to 9.99M	±3 %
100 to 498	100K to 99.9M	±3 %
500 to 1500	100M to 499M	±5%
500 to 1500	500M to 1000M	±10%

#### Dielectric Detector

<u>Stimulus(Volts DC)</u>	<u>Limits (mAmps)</u>	<u>Accuracy</u>
250 to 1500 in 2VDC steps	0.5 to 2.5 in 0.5mA steps	±20%

#### Voltage Measurements

<u>DC Voltage (Volts)</u>	<u>Accuracy</u>	<u>AC Voltage (Volts)</u>	<u>Accuracy</u>
0.01 to 0.990	±10%±10mV	1 to 9.99	±15%±0.1V
1 to 9.99	±5%±10mV	10.0 to 99.9	±15%±1V
10 to 99.9	±5%±100mV	100 to 500	±10%±5V
100 to 1500	±5%±1V		

#### Capacitance Measurement

<u>Range</u>	<u>Accuracy</u>
10 to 99 nF	±20%
0.1 to 1000 µF	±10%

#### Dwell Times

<u>Range (Seconds)</u>	<u>Accuracy</u>
0.001 to 16.383	±2mS±1 conversion
0.01 to 163.83	±2mS±1 conversion
0.1 to 1638.2	±2mS±1 conversion

