# db-tech

## LASER JET PRINTER TRAINER

### GENERAL DESCRIPTION

The db-tech, LJT-312 LASER JET PRINTER TRAINER is designed to instruct service technicians in the operation, theory, servicing, problem diagnosis and repair of the key devices and components used in Information Technology. The trainer is based upon computers and components which have been modified to facilitate training and have a special electronic fault insertion system. The unit consists of one diagram that shows all key internal components and functions.

LJT-312



## Specification

### FEATURES OF THE SYSTEM

➢ Can be connected to compoter and function as an additional equipment
➢ Circuit block diagram of showing the function of the system
➢ LED lights monitor data transfer activity
➢ Electronic Fault Controller into the trainer for student instruction purposes

### ELECTRONIC FAULT CONTROLLER

• LED to indicate the nature and location of the fault on the Block Diagram
• Enabled when touching the push button; Disabled when touching the push button again
• Single or multiple faults can be introduced at any time
• Activated faults are visible as the corresponding LED illuminates on the fault board
• LEDs can be switched off thereby not allowing the student to know where the fault is, this feature is ideal for testing the student's troubleshooting ability
• Single press for Fault Reset

### INPUT POWER & OPERATION CONDITION

AC 220V, 50/60Hz 1-Phase
0°C to 45°C , 85% or Less (R.H.)

### Manuals:

(1)    All manuals are written in English
(2)    Theory Manual
(3)    Experiment Manual

### CURICULUM COVERAGE

This Trainer includes step-by-step diagnosis and troubleshooting procedures including:

➢ Hardware Assembly and Testing
➢ Personal Safety
➢ Block Diagram
➢ Schematic Diagram
➢ Troubleshooting Procedures
➢ Common Fault Simulation Testing
➢ Waveform for Common Test Point
➢ Reference Data

### BLOCK DIAGRAM

• Power Switch
• Voltage Regulator
• Cartridge  Door Switch
• Pickup Solenoid
• Main Motor
• Main Motor Rotation Sensor
• Scanner  Motor
• USB Interface
• Top Sensor PCA