

BASIC ELECTRONIC TRAINER

Model Number : GOTT-BE-5000

**FEATURES**

- A complete laboratory training system.
- Understanding the theory and application of basic electronic circuits.
- Suitable for both technician and vocational high school training.

PRODUCT MODULES**BASIC ELECTRONIC CIRCUITS****CODE
500-101****Basic Electronic Circuits****Experiment 1: Diode and transistor switch**

- 1) Diode switch
- 2) Transistor switch
- 3) Improved transistor switch

Experiment 2: Basic applications of operating amplifier (I)

- 1) Inverter OP amplifier
- 2) Inverter
- 3) Non-inverter OP amplifier
- 4) Voltage follower

Experiment 3: Basic applications of operational amplifier (II)

- 1) Comparator
- 2) Zero-crossing detector
- 3) Photoelectric controller

WAVEFORM GENERATOR CIRCUIT**CODE
500-102****Waveform Generator Circuits****Experiment 1 : Schmitt trigger circuit**

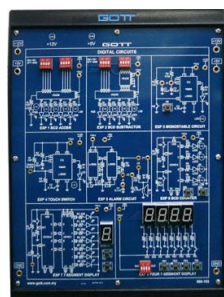
- 1) Schmitt trigger circuit
- 2) 555 delay circuit
- 3) Delay turn-off circuit

Experiment 2 : Crystal oscillator

- 1) TLL crystal oscillator
- OPA crystal oscillator

Experiment 3: Astable multivibrator

- 1) OPA astable multivibrator
- 2) 555 astable multivibrator
- 3) Sparking lamp

DIGITAL CIRCUITS**CODE
500-103****Digital Circuits****Experiment 1 : BCD adder**

- 1) BCD adder

Experiment 2 : BCD subtractor

- 1) BCD subtractor

Experiment 3 : Application of Timer

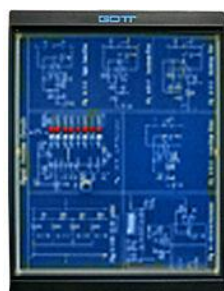
- 1) Monostable circuit
- 2) Touch switch Alarm circuit

Experiment 4 : Digit display circuit

- 1) 4518 counter
- 2) Digit display circuit

Experiment 5 : Digit display circuit

- 1) LCDM circuit

SIGNAL PROCESS CIRCUITS**CODE
500-104****Signal Process Circuits****Experiment 1 : Digital to analog converter**

- 1) R-2R ladder network
- 2) D/A converter

Experiment 2 : Analog to digital converter

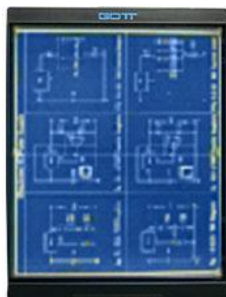
- 1) A/D converter

Experiment 3 : Filters

- 1) Low-pass filter
- 2) High-pass filter
- 3) Bandpass filter
- 4) Bandstop filter

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REGULATOR DC SUPPLY		CODE 500-105									
	Regulator DC Supply										
	Experiment 1 : Application of 7805 series regulator 1) 7805 regulator 2) 7805 variable regulator 3) 7805 current source	Experiment 2 : Application of 7905 series regulator 1) 7905 regulator 2) 7905 variable regulator 3) 7905 current source									
LED AND TRANSISTOR APPLICATION CIRCUITS		CODE 500-106									
	LED and Transistor Application Circuits										
	Experiment 1 : Electronic Competition-Answer machine 1) Electronic Competition-Answer machine Experiment 2 : Electronic Wheel-Amusement machine 1) Electronic Wheel-Amusement machine	Experiment 3 : Remote lamp controller 1)DC remote lamp controller 2)AC remote lamp controller									
DC POWER SUPPLY & FUNCTION GENERATOR (OPTIONAL ITEM)		CODE 500-107									
	DC Power Supply • Tripple Bipolar Voltage Outputs ○ DC 0 – +/-15V ○ DC +/-5V ○ DC +/-12V • Constant & variable Voltage Operation • Low Ripple and Noise										
	Function Generator • Two Signals Output Ports • Frequency Range<table><tr><td>FG (I): 0 – 10Hz</td><td>FG (II): 0 – 100Hz</td></tr><tr><td>0 – 100kHz</td><td>0 – 1kHz</td></tr><tr><td>0 – 1kHz</td><td>0 – 10kHz</td></tr><tr><td>0 – 10kHz</td><td>0 – 100kHz</td></tr><tr><td>0 – 100kHz</td><td>0 – 1MHz</td></tr></table> • Waveform : Sine, Triangle, Square, TTL Pulse • Amplitude : 10Vpp • Built-in-6-Digit Frequency Counter • Two Large 0.5" LED Display • Overload Protection	FG (I): 0 – 10Hz	FG (II): 0 – 100Hz	0 – 100kHz	0 – 1kHz	0 – 1kHz	0 – 10kHz	0 – 10kHz	0 – 100kHz	0 – 100kHz	0 – 1MHz
FG (I): 0 – 10Hz	FG (II): 0 – 100Hz										
0 – 100kHz	0 – 1kHz										
0 – 1kHz	0 – 10kHz										
0 – 10kHz	0 – 100kHz										
0 – 100kHz	0 – 1MHz										

Manuals :

- (1) All manuals are written in English
- (2) Model Answer
- (3) Teaching Manuals

General Terms :

- (1) Accessories will be provided where applicable
- (2) Manuals & Training will be provided where applicable
- (3) Designs & Specifications are subject to change without notice
- (4) We reserve the right to discontinue the manufacturing of any product.

Warranty :

2 Years

ORDERING INFORMATION :

ITEM	MODEL NUMBER	CODE
BASIC ELECTRONIC CIRCUIT TRAINER	GOTT-BE-5000	500-000
DC POWER SUPPLY & FUNCTION GENERATOR	GOTT-DC POWER SUPPLY & FUNCTION GENERATOR	500-107

*Proposed design only, subject to changes without any notice.