

TEC B-452 Thermal Printer

Superior Features! Small Footprint! So Affordable!

■ **Highly Flexible Desktop**

Printer The advantage of the TEC B-452 desktop printer's flexibility provides a powerful solution for moderate volume tag and label applications. The B-452 comes standard with 2MB of DRAM and Flash ROM that is loaded with fonts, barcodes, and 2-D symbologies. This printer can also be used for stand-alone printing with the optional keyboard, (KB-80). The B-452 has the ability to interface with a host system or scanner via direct connection or networked. In addition, the B-452 can be equipped with a variety of options for the utmost in flexibility over a wide range of office or light manufacturing applications.

■ **Options that Complement a Wide Range of Applications**

The B-452 boasts an extensive list of options including the cutter and strip modules, an external programmable keyboard or external rewinder to name a few. The communication options for networks, parallel and expansion I/O modules allow for easy system integration. The B-452 is a perfect fit for applications where high-end printers are cost prohibitive and low-end printers just cannot handle the job.

■ **Compact and Reliable**

Individual motors and control for ribbon and media movement insure reliable printed output time after time. And, TEC backs up its commitment to performance, reliability and value with a warranty above the industry standard. TEC's compact design of the B-452, makes it perfect for the office, retail, warehouse or wherever space is tight.



■ **Feature Rich and Economical**

Standard features include a high resolution 300 DPI print head and, with print speeds up to 4 inches per second and media widths up to 4.5 inches, the B-452 is at the top of its class. TEC's wide mouth print head design opens perpendicular to the feed path making it easy to load media and clear the paper path. Whether you need a simple shipping label with a wax ribbon, or a more advanced UL label with a durable resin ribbon, TEC's B-452 is the right decision.

■ **User Friendly**

The B-452 friendliness is built right into all aspects of its design from firmware to hardware. The printer operates under any host system using the simple TPCL language or Windows with the Windows® driver for 95, 98, and NT™ 4.0. The hardware encompasses TEC's standard use of green operating cues which provides ease of operator training, along with simple ribbon and media loading. The snap in print head design, which is user replaceable, means less down time and more productivity.

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ADVANCED FEATURES for EASE OF USE...

■ **Self-Centering Paper Media Guide** This rack and pinion mechanism takes the guesswork out of loading media. It automatically adjusts labels from the center outward to ensure proper media loading.

■ **Center Loaded Media** TEC's exclusive center loaded media path means media is pulled through evenly and uniformly. As a result, print head pressure is equal from edge to edge, producing a sharp, clear and consistent print quality across the full width of the media.

■ **Rugged and Attractive ABS Construction** The B-452's rugged ABS plastic exterior construction is tough enough for warehouses yet attractive enough for retail stores and office environments.

■ **Warranty** As a member of the Toshiba Group, our printers are built with the quality and reliability you expect from the world's leading printer manufacturer. The B-452 carries TEC's standard 1-Year Warranty on parts. The print head is guaranteed for two million linear inches or 1-year, whichever comes first.

TECHNICAL SPECIFICATIONS

B-452 Thermal Printer

FEATURES

Print Head Resolution	11.8 dots/mm (300 dpi) Traditional
Number of Print Heads	1
Print Method	Direct thermal/thermal transfer
Print Speed	2"/s, 4"/s
Issue Methods	Continuous (Option: strip, cut)
Media Alignment	Center Loaded
Communication Interface	Two Serial: DB9 and DIN9 (2400, 4800, 9600, 19200 baud)
	Options:
	-Centronics
	-External I/O Interface
	-External Twinax to Parallel
	-External Ethernet to Parallel BNC
	-External Ethernet to Parallel RJ45
	-Internal Ethernet Interface
Media Sensors	Transmissive (gap or notch), Reflective (black mark)
Panel Switches	FEED, PAUSE
LEDs	POWER, ONLINE, ERROR
	Optional Keyboard Module (KB-80-QM)

PRINT AREA

Length	Continuous	15 mm to 500 mm
	Strip	21.4 mm to 500 mm
	Cut Tag Label	23.4 mm to 500 mm
Width	Label	22.0 mm to 500 mm
		10.0 to 105.7 mm

MEDIA

Width	47 mm to 114 mm	
Length	Continuous	8 mm to 999 mm
	Strip	23.4 mm to 999 mm
	Cut Tag Label	24.0 mm to 999 mm
Thickness	Tag	100 µm to 170 µm
	Label	100 µm to 170 µm
Outside Diameter (Max)	152 mm	
Core Inside Diameter	38, 40, 42, 76.2 mm	
Gap between labels	2.0 mm to 20 mm	
Black Mark Length	2.0 mm to 10 mm (black mark is printed on the back side)	

RIBBON

Width	60, 90, 110 mm
Length (Max)	300 mm
TEC Models	TEC Authentic I (Wax) TEC Authentic II (Resin) TEC Authentic III (Premium Resin)

FORMAT

Characters	Built-in Fonts	Bit map font: 20 types (Times Roman, Helvetica, Presentation, Letter Gothic, Prestige Elite, Courier, OCR-A, OCR-B) Outline fonts: TEC Helvetica, TEC Helvetica Proportional, Times Roman, 3 Price Fonts, Brush
	Programmable Logos & Fonts Rotation	Downloadable to Internal 2 MB Flash ROM True Type Fonts 0°, 90°, 180°, 270°

FORMAT

Bar Codes	One Dimensional	JAN8, JAN13, EAN8, EAN13, UPC-A, UPC-E, EAN8+2, EAN8+5, EAN13+2, EAN13+5, UPC-A, UPC-A+2, UPC-A+5, UPC-E, UPC-E+2, UPC-E+5, MSI, ITF, NW-7, CODE39, CODE93, CODE128 (subset a, b, c), UCC/EAN 128, Industrial 2 of 5, POSTNET, RMASCC, KIX
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Line	Two Dimensional	MaxiCode, PDF417, QR Code, Datamatrix
Graphic	Rotation	0°, 90°, 180°, 270°
		Line, Rectangle, Ellipse
Language		BMP, TOPIX Compression, 1 to 1 Bit Map, PCX TPCL2

MEMORY

Flash ROM	2 MB
EE PROM	128 Kbytes
D-RAM	2 MB

FUNCTIONS

Thermal Head broken dots check	N/A
On-the-fly format	Standard (Automatic)

OPTIONAL EQUIPMENT

Cutter Module (B-7204-QM)
Strip Module (B-7904-H-QM)
External Twinax to Parallel (B-4850-ETP-LP)
External Ethernet to Parallel BNC (B-4850-EET-LP)
External Ethernet to Parallel RJ45 (B-4851-EET-LP)
Internal Ethernet Interface (B-7704-LAN-QM)
Centronics Interface (B-7704-C-QM)
External Rewinder (B-RW01-LP)
Expansion I/O Interface (B-7704-IO-QM)
Keyboard Module (KB-80-QM)
External Label Holder (B-7604-LP)

ENVIRONMENTAL REQUIREMENT

Operating Temperature	5 to 40 °C
Humidity	25 to 85% RH
Storage Temperature	-40 to 60 °C
Humidity	10 to 90% RH

ELECTRICAL

Power Supply	100 to 120 V 60 Hz
Standards	Safety: UL, C-UL, Taiwan EMC
	Radio Interference: CE Class A, FCC Class A

EXTERIOR

Cover	ABS Plastic
Dimensions	245 (H) x 270 (W) x 200 (D) mm
Supply Roll Holder	External with Rotating Mounted Holders
Operation Panel	ABS Plastic
Color	Light Cream
Panel	Light Cream
Weight	4.7 Kg (Without media and ribbon)

ACCESSORIES

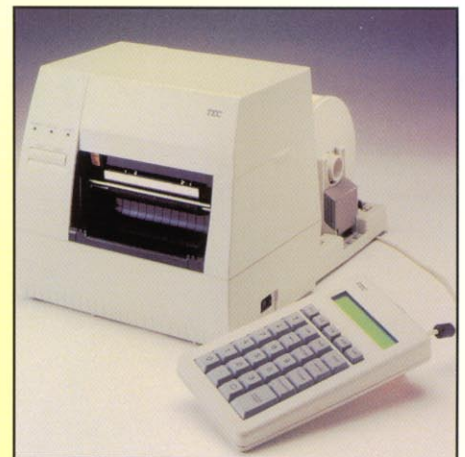
Owner's Manual on CD ROM, Power Cord, Print Head Cleaner, Supply Holder

SOFTWARE

Windows Drivers 3.1, 95, 98, NT 4.0 (Downloadable from www.tecamerica.com) (Not included with printer)



Internal View



Keyboard Module



Strip Module

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