

TOSHIBA Barcode Printer B-450-R SERIES

Maintenance Manual

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TOSHIBA TEC CORPORATION

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CAUTION!

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1. UNPACKING

1.1 PROCEDURE

- 1) Open the carton.
- 2) Unpack the side pad (R) and cushions and the printer from the carton.



3) Place the printer on a level surface.

1.2 CHECKS

Check for damage or scratches on the printer. **NOTE:** Keep the carton, pads and cushions for later transport.

2. MAJOR UNIT REPLACEMENT

WARNING! Disconnect power cord before replacing important parts.

Lubrication

CAUTION: 1) Lubrication: During parts replacement.2) Kinds of oil: 1Kg can. (Part No. 19454906001).

Any machine is generally in its best condition when delivered; therefore, it is necessary to try to keep this condition. Unexpected failure occurs due to lack of oil, debris or dust. To keep its best condition, periodically clean the machine and apply proper kinds of oil to each part in which lubrication is needed. Although the frequency of lubrication varies according to how much the machine is used, at least it is necessary to lubricate before the machine becomes dry. It is also necessary to wipe off excessive oil as it collects dirt.

CAUTION: Do not spray the inside of the printer with lubricants. Unsuitable oil can damage the mechanism.

2.1 REPLACING THE CPU PC BOARD

- 1) Open the Top Cover.
- 2) Remove the two PT-3x10 screws to detach the Side Cover L.



3) Disconnect KEY/LED Harness from connector CN13 on the CPU PC Board.



2- 1

- PT-3x10 Screw Side Cover R
- 4) Remove the PT-3x10 screw and detach the Side Cover R from the printer.

- 5) Disconnect the seven harnesses from CN1, CN2, CN5, CN8 to CN10, and CN500 on the CPU PC Board.
- 6) Remove the T-3x10 screw and the Ground Wire to detach the CPU PC Board.



7) Release the two Hooks securing the Printer Unit.



8) Detach the Printer Unit from the Bottom Cover.



 Remove the four screws (T-3x10 and SMW-3x6) and detach the CPU PC Board Ass'y from the Printer Block.



10) Remove the four screws (SMW-3x6 and P-3x6) and detach the CPU PC Board from the PC Board Attached Plate.



11) Remove the SMW-3x6 screw, N-3 Nut and Ground Plate.



12) Replace the CPU PC Board with a new one, and then reassemble in the reverse order of removal.

2.2. REPLACING THE MOTOR

2.2 REPLACING THE MOTOR

2.2.1 Ribbon Motor

- 1) Remove the CPU PC Board Ass'y. (Refer to Section 2-1)
- 2) Remove the two PT-3x10 screws and harnesses to detach the Ribbon Motor Attaching Plate.



 Remove the four SMW-2.6x6 screws to detach the two Ribbon Motors from the Ribbon Motor Attaching Plate.



4) Replace the Ribbon Motors with new ones, and then reassemble in the reverse order of removal.

2.2.2 Stepping Motor

WARNING! Be careful not to get burned when handling the stepping motor since it becomes very hot while printing.

- 1) Remove the CPU PC Board Ass'y. (Refer to Section 2.1)
- 2) Remove the two PT-3x10 screws to detach the Stepping Motor Ass'y.



Stepping Motor Ass'y

3) Remove the two SMW-3x6 screws to detach the Stepping Motor.



4) Replace the Stepping Motor with a new one, and then reassemble in the reverse order of removal.

2.3 REPLACING THE PS UNIT

WARNING!

Replace only with the same type and rated of fuse for continued protection against risk of fire.

- 1) Remove the Top Cover and Side Cover L. (Refer to Section 2.1)
- 2) Remove the PT-3x10 screw to detach the Side Cover R.



3) Disconnect the Power Harness and Fan Motor Harness from CN8 and CN10 on the CPU PC Board.



4) Release the two Hooks securing the Printer Unit.



5) Detach the Printer Unit from the Bottom Cover.



6) Detach the PS Unit from the Bottom Cover.



- Replace the PS Unit as an assembly, then, reassemble in the reverse order of steps 1) to 6). To replace the Fan Motor, Power Harness, Inlet Ass'y, PSU Cover, etc. individually, follow the steps 8) to 12) provided below.
- Remove the SMW-3x6, SMW-3x8, and D-3x5 screws to detach the PSU Cover from the PS Unit. SMW-3x6 Screw



9) Disconnect the Power Harness from CN4 on the PS Unit. Remove the SMW-4x8 screw to release the Ground Wire of the Inlet Ass'y.



 Push both sides of the Power Switch with something like pliers and remove it from the frame of the PS Unit. Disconnect the Inlet Ass'y from CN1 on the PS Unit.



11) Remove the SMW-3x4 screw to detach the Fan Motor Attachment Plate from the PS Unit.



12) After replacing the individual part with a new one as necessary, reassemble in the reverse order of steps 8) to 11).

2.4 REPLACING THE PRINT HEAD

CAUTION: 1. NEVER touch the element when handling the print head.
2. NEVER touch the connector pins Touching them may cause a static electric discharge which will damage the print head.

- 1) Open the Top Cover.
- 2) Push down the Head Release Lever R to open the Print Head Block.



Head Release Lever R

3) Disconnect the two Print Head Harnesses. Then, pull the Print Head Ass'y upward while pulling the Knob.



4) Replace the Print Head with a new one, and then reassemble in the reverse order of removal.

2.5 REPLACING THE MEDIA SENSOR

2.5.1 Replacing the Sensor PCB (TR)

- 1) Push down the Head Release Lever R to open the Print Head Block. (Refer to Section 2.4)
- 2) Remove the Sensor Holder from the Sensor Holder Arm.



Sensor Holder

3) Remove the Sensor Cover Sheet from the Sensor Holder.



4) Release the Sensor Holder while spreading the tabs of the Sensor Holder. Be careful not to break the tabs when spreading them.



Pontion

Sensor Holder

- Sensor Holder
- 5) Disconnect the harness from the Sensor PCB (TR), and remove the Sensor PCB (TR) from the Sensor Holder by releasing the two Rivets.

6) Replace the Sensor PCB (TR) with a new one, and then reassemble in the reverse order of removal.

2.5.2 Replacing the Sensor PCB (LED)

- 1) Open the Top Cover.
- 2) Remove the two PT-3x10 screws to detach the Side Cover L.



3) Disconnect KEY/LED Harness from connector CN13 on the CPU PC Board.



KEY/LED Harness

Side Cover L

4) Remove the PT-3x10 screw and detach the Side Cover R from the printer.





5) Disconnect the Power Harness and Fan Motor Harness from CN8 and CN10 on the CPU PC Board.

Fan Motor Harness

6) Release the two Hooks securing the Printer Unit.



9)

7) Detach the Printer Unit from the Bottom Cover.



8) Disconnect the harness from the Sensor PCB (LED) which is attached to the bottom of the Printer Unit. Then remove the Rivet to detach the Sensor PCB (LED) from the Printer Unit.



Replace the Sensor PCB (LED) with a new one, and then reassemble in the reverse order of removal.

3. TROUBLESHOOTING

Problems	Cause	Solution
Power is not turned ON.	1. Input voltage to the printer is not	• Replace the power cord or power
	within the rated voltage.	inlet.
	2. Output voltage from the printer is not	 Replace the PS unit.
	within the rated voltage.	
	3. MAIN PC Board is not applied with	 Replace the power harness.
	voltage.	
LED dooo not light	4. Failure of the KEVLED DC heard	Replace the MAIN PC board.
LED does not light.	1. Failure of the KEYLED PC board.	Replace the KEYLED PC board. Benlage the KEYLED herness
	2 Eailure of the KEVLED barness	Replace the MAIN PC hoard
	3 Failure of the MAIN PC board	· Replace the MAIN FC board.
Poor printing	1 The print paper is of poor quality	• Use the paper approved by
r oor printing.		TOSHIBA TEC.
	2. Dirty print head.	Clean the print head.
	3. The head lever fastens the print head	Fasten the head lever completely.
	incompletely.	
	4. Alignment adjustment of the print	 Re-adjust the print head.
	head is improper.	
Printer does not print.	1. Print head failure.	 Replace the print head.
	2. Connection of the print head	• Connect the harness completely,
	connector is incomplete, a bad	or replace the harness.
	contact, or broken wires.	
	3. Failure of the MAIN PC board.	Replace the MAIN PC board.
	4. Failure of the software.	Check the program.
	5. Failure of the printer cable.	Replace the printer cable.
Dot missing.	1. Broken element of the print head.	Replace the print head.
	2. Broken wires of the print head cable.	Replace the print head namess. Poplace the MAIN PC heard
Blurred print	1 Poor quality of paper	Lise only TOSHIBA TEC specified
Bidried print.		naper
	2. Dust is attached to the paper.	• Clean the print head and remove
		the dust from the paper.
Label feed failure.	1. Paper is not set properly.	Set the paper properly.
	2. Paper of poor quality.	• Use the paper approved by
		TOSHIBA TEC.
	3. Improper adjustment of the feed gap sensor or black mark sensor.	 Re-adjust the sensor.
	4. Failure of the feed gap sensor or	• Replace the feed gap sensor or
	blackmark sensor.	black mark sensor.
	5. Labels cannot be stripped off the	Replace the take-up motor or
	backing paper or the backing paper	black mark sensor.
	with labels cannot be would properly.	•
	6. The cutter mechanism is not installed	Install the cutter mechanism
	properly.	properly.
	7. Failure of the stepping motor.	Replace the stepping motor or MAIN PC board.
Communication error.	1. Failure of the communication cable.	Replace the cable.
	2. Failure of the RS-232C interface.	 Replace the serial I/F Board.
	3. Failure of the communication	Replace the connector.
	connector.	
	4. Failure of the PC or application	Modify the program.
	5 Failure of the MAIN PC board	Replace the MAIN PC heard
		Replace the MAIN FC buald.

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