

# CITIZEN

## *Service Manual*

---

**LINE THERMAL PRINTER**  
**MODEL iDP3240**

Rev. 1.0 First created Feb 10th, 2000

# TABLE OF CONTENTS

<b>1. MECHANISMS AND OPERATING PRINCIPLES .....</b>	<b>1</b>
1.1 Power transmission and mechanism for feeding recording paper .....	1
1.2 Mechanism for attaching and detaching the platen roller .....	2
1.3 Sensor mechanism .....	2
1.3.1 Paper sensor .....	2
1.3.2 Paper-near-end sensor .....	3
1.4 Print head mechanism .....	3
1.4.1 Outline of drive control .....	3
1.4.2 Print data and print position .....	4
<b>2. DISASSEMBLING AND ASSEMBLING METHODS .....</b>	<b>5</b>
2.1 Required tools .....	5
2.2 Disassembling procedure .....	5
2.2.1 Before starting disassembling: .....	5
2.2.2 Remove the printer cover: .....	5
2.2.3 Remove the top cover: .....	6
2.2.4 Remove rollers from the top cover: .....	6
2.2.5 Disassemble the platen roller SA: .....	6
2.2.6 Remove the pressure roller: .....	7
2.2.7 Remove the bottom cover: .....	7
2.2.8 Remove the Auto Cutter ACS-241 from the chassis: .....	7
2.2.9 Remove the control board from the chassis: .....	7
2.2.10 Remove the thermal head from the chassis: .....	8
2.2.11 Remove the motor assembly from the chassis: .....	8
2.2.12 Remove the paper-end sensor SA: .....	8
2.2.13 Remove the wire springs from the chassis: .....	9
<b>3. MECHANICAL SERVICE PARTS LIST .....</b>	<b>10</b>
3.1 Parts List .....	10
3.2 Exploded View 1 .....	12
3.2 Exploded View 2 .....	13
<b>4 iDP3240 CIRCUIT DIAGRAMS .....</b>	<b>14</b>
4.1 Parts List for Control PCB Assy .....	14
4.2 Block diagram .....	18
4.3 Parts Layout Drawing .....	19
4.3.1 Control PCB Assy –Top side of the board ( Serial Interface D-sub 25) .....	19
4.3.2 Control PCB Assy–Reverse side of the board .....	20
4.3.3 Control PCB Assy –Top side of the board (Parallel Interface) .....	21
4.3.4 Control PCB Assy–Reverse side of the board .....	22
4.4 Circuit Diagram .....	23
4.4.1 Control PCB Assy (Serial Interface D-sub 25) .....	23
4.4.2 Control PCB Assy (Parallel Interface) .....	24
<b>5. TROUBLESHOOTING .....</b>	<b>25</b>
5.1 Troubleshooting Procedure .....	25
5.2 Repair guide .....	26
5.2.1 Faulty power supply .....	26
5.2.2 Faulty printing .....	27
5.2.3 Faulty feeding of recording paper .....	28
5.2.4 Faulty sensor .....	29
5.2.5 Faulty auto cutter .....	29
<b>6. OUTLINE DRAWING .....</b>	<b>30</b>

This is a “Table of Contents preview” for quality assurance

The full manual can be found at <http://the-checkout-tech.com/estore/catalog/>

We also offer free downloads, a free keyboard layout designer, cable diagrams, free help and support.

<http://the-checkout-tech.com> : *the biggest supplier of cash register and scale manuals on the net*