

SERVICE MANUAL

(without price)

ELECTRONIC CASH REGISTER

CE-310 (EX-248D)

MAY. 2001



Printer Model : M-190G-071

CASIO[®]

CONTENTS

CE-310	Page
1. SPECIFICATIONS	1
2. INITIALIZE (MAC) OPERATION.....	2
3. BLOCK DIAGRAM	3
3-1. PCB CONNECTION	3
3-1. BLOCK DIAGRAM.....	4
4. DISASSEMBLY	5
5. CIRCUIT EXPLANATION	7
5-1. Power supply circuit	7
5-2. CPU (uPD78052GC-159-3B9)	8
5-3. Display controller (uPD16312GB-3B4)	10
5-4. Initialize IC (Reset circuit)	11
5-5. Power down detection circuit (PWD)	11
5-6. Address latch circuit	11
5-7. RAM / ROM bank selection circuit	12
5-8. Head drive circuit for printer	13
5-9. Power supply circuit for display	14
6. DIAGNOSTIC OPERATION	15
6-1. To start the diagnostic program	15
6-2. Check item	15
6-3. Operation of each test	15
6-4. To exit the diagnostic test	20
7. ERROR CODE LIST	21
7-1. Operation error code	21
7-2. System lock code	22
8. IC DATA	23
9. PCB LAYOUT	26
10. CIRCUIT DIAGRAM	27
11. PARTS LIST	42

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

The full manual can be purchased from our store:

[https://the-checkout-tech.com/manuals/casio/CE-310 service manual.html](https://the-checkout-tech.com/manuals/casio/CE-310%20service%20manual.html)

And our free Online Keysheet maker:

<https://the-checkout-tech.com/Cash-Register-Keysheet-Creator/>

[HTTPS://THE-CHECKOUT-TECH.COM](https://THE-CHECKOUT-TECH.COM)