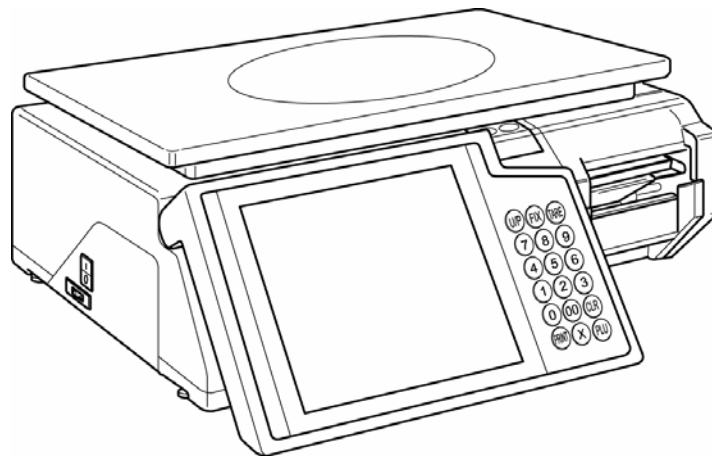




Automatic Scale Register

SR-2000 α

SERVICE MANUAL



 **CAUTION**

READ AND UNDERSTAND THIS MANUAL

- Thoroughly read and understand this manual before installing, operating, inspecting, or servicing the machine.
- Keep this manual in a safe place where you can refer to it whenever necessary.

© 2004 ISHIDA Co., Ltd.

COPYRIGHT AND COPY PERMISSION

This manual shall not be copied without permission.

This manual is protected by copyright and is intended solely for use in conjunction with the machine.

Please notify us before copying or reproducing this manual in any manner, for any other purpose.

SAFETY PRECAUTIONS

Those who handle the machine must be aware of the hazards involved. These dangers may not be obvious, so it is imperative to follow the instructions detailed in this manual when installing, operating, inspecting, or servicing the machine. Therefore, we recommend that you thoroughly read and understand this manual before installing, operating, inspecting, or servicing the machine.

ISHIDA is not liable for any damage, loss or injury that results from incorrect handling, insufficient caution, unauthorized modifications to the machine, or failure to follow the instructions contained in this manual.

In the recent weighing industry, the latent hazards involved with handling the machine have increased due to new materials, new processing methods, and higher processing speeds, and it is impossible to predict all of the possible dangers.



Likewise, there are far too many operations which cannot or should not be performed to fully describe all of them in the manual. Please assume that any operation not specifically described in this manual should never be performed.

Safety countermeasures should be carefully considered and implemented before performing any installation, operation, inspection, or maintenance procedure not specifically described in this manual or indicated on the machine itself.

MEANINGS OF SIGNAL WORDS

This machine is manufactured for use according to proper procedures by a qualified person and only for the purposes described in this manual. The following conventions are used to indicate and classify precautions depending on the level of danger, or seriousness of potential injury. Always heed the information provided in this manual. Failure to heed precautions can result in personal injury or property damage.

The following signal words are used in this manual.

 WARNING	Indicates a potentially hazardous situation which, if not avoided, will result in minor or moderate injury, or may result in serious injury or death. Additionally, there may be significant property damage
 CAUTION	Indicates a potentially hazardous situation where, if not avoided, may result in minor or moderate injury or in property damage.

CONTENTS

Chapter 1	OUTLINE	1-1
1.1	NAME OF EACH PART	1-1
1.2	SPECIFICATIONS	1-2
1.3	FEATURE	1-3
Chapter 2	MACHINE SETUP	2-1
2.1	DELIVERY WORK FLOW	2-1
2.2	CONFIRMATION OF INSTALLATION PLACE	2-2
2.3	POWER SUPPLY	2-2
2.4	CONFIRMATION OF INSTALLATION CONDITIONS	2-2
2.5	BACK-UP DEVICE CONNECTION	2-3
2.6	LEVEL ADJUSTMENT	2-4
2.7	PROCESSING IN EACH MODE	2-5
2.8	SPAN CONFIRMATION	2-6
2.9	OPERATION CHECK	2-6
2.10	OPERATION PROCEDURES AND PRECAUTIONS	2-6
Chapter 3	TEST MODE	3-1
3.1	START UP OF TEST MODE	3-1
3.2	TEST MODE HIERARCHICAL CHART	3-2
3.3	KEY CHECK	3-3
3.4	MACHINE TYPE SELECTION	3-5
3.5	SELF DIAGNOSTIC	3-6
3.6	MEMORY CLEAR	3-7
3.7	DISPLAY CONFIRMATION	3-7
3.8	SCALE CALIBRATION	3-8
3.9	PRINTER ADJUSTMENT	3-8
3.10	PROGRAM NUMBER	3-12
3.11	COMMUNICATION CHECK	3-13
3.12	OPTION CHECK	3-15
3.13	MEMORY DATA CHANGE	3-15
Chapter 4	SYSTEM SETTING MENU	4-1
4.1	START UP OF SYSTEM SETTING MENU	4-1
4.2	HIERARCHICAL CHART OF SYSTEM SETTING MENU	4-2
4.3	SALES MODE SETTING	4-3
4.4	MACHINE NUMBER SETTING	4-4
4.5	HOLD DATA SETTING	4-5
4.6	AUTOMATIC PROGRAM SETTING	4-6
4.7	OPTION SETTING	4-7
4.8	CASSETTE SETTING	4-8
4.9	LABEL SPECIFICATION SETTING	4-10
4.10	FORMAT SETTING	4-12
4.11	UNIT SETTING	4-13
4.12	PRINT SETTING	4-13
4.13	FILE CHECK	4-14
4.14	FILE SAVE/LOAD	4-15

Chapter 5	SET UP MENU	5-1
5.1	START-UP OF SET UP MENU	5-1
5.2	SET UP MENU 1	5-2
1.	Expiry Data Setting	5-2
2.	Password Setting	5-3
3.	Reference Data Setting	5-3
4.	Total Setting	5-4
5.	Preset Report Setting	5-4
6.	Download Setting	5-5
7.	Word Wrap Width Setting	5-6
8.	Key Image Select	5-6
5.3	SET UP MENU 2	5-7
1.	System Data Setting	5-8
2.	Barcode Setting	5-9
3.	Product Code Setting	5-9
4.	PLU Update	5-10
5.	Default PLU Data Setting	5-11
Chapter 6	ELECTRICITY	6-1
6.1	NAME OF EACH ELECTRICAL COMPONENT	6-1
6.2	ELECTRIC BLOCK DIAGRAM (BENCH TYPE)	6-2
6.3	ELECTRIC BLOCK DIAGRAM (POLE TYPE)	6-3
6.4	MAIN BOARD (P-910)	6-4
6.5	THERMAL BOARD (P-909)	6-6
6.6	A/D BOARD (P-888)	6-8
6.7	POWER SUPPLY UNIT	6-9
6.8	CONNECTOR BOARD (P-989)	6-10
6.9	MAIN BODY ASSEMBLY	6-11
6.10	PRINTER UNIT ASSEMBLY	6-12
6.11	OPERATING CONSOLE ASSEMBLY	6-13
6.12	POLE UNIT ASSEMBLY	6-14
Chapter 7	MECHANICAL COMPONENTS	7-1
7.1	DETACH OF TOP HOUSING	7-1
7.2	EXCHANGE OF THERMAL HEAD	7-3
7.3	EXCHANGE OF LABEL SENSOR	7-5
7.4	EXCHANGE OF PEEL SENSOR	7-6
7.5	EXCHANGE OF CASSETTE SENSOR	7-7
7.6	POSITIONING OF THE THERMAL HEAD	7-8
APPENDIX	LABEL FORMATTING	A-1
A.1	LABEL FORMAT TABLE	A-1
A.2	CONFIGURATION OF LABEL FORMAT TABLE	A-2
A.3	MAX. NUMBER OF LABEL FORMAT TABLES	A-2
A.4	CHANGE OF PRINTING POSITION	A-3
A.5	CHANGE OF THE PRINT SIZE	A-4
A.6	CHANGE OF THE FIXED CHARACTER CONTENTS	A-5

[Click here to download the full manual at THE-CHECKOUT-TECH.COM](http://THE-CHECKOUT-TECH.COM)