



SERVICE MANUAL

7000 Series

T71 Indicators



T71P



T71XW

TABLE OF CONTENTS

	Page No.
CHAPTER 1 GETTING STARTED	
1.1 Introduction.....	1-1
1.2 Service Facilities.....	1-1
1.3 Tools and Test Equipment Required	1-2
1.3.1 Special Tools and Test Equipment List	1-2
1.3.2 Standard Tools and Test Equipment List	1-2
1.4 T71P and T71XW: Top and Bottom Housing	1-2
1.5 Specifications.....	1-4
1.6 Hardware Setup or Disassembly	1-5
1.6.1 Connecting the Scale Base's Load Cell	1-5
1.6.2 Jumper Connections	1-6
1.6.3 RS232 Interface	1-6
1.7 Operation.....	1-7
1.7.1 Power Supply	1-7
1.7.2 Overview of the Controls	1-7
1.7.3 Overview of the Display Indicators	1-7
1.7.4 Overview of the Control Functions	1-8
1.7.5 Menu Setup	1-9
1.7.6 Language Menu Setup	1-12
1.8 Calibration.....	1-13
1.8.1 Zero Calibration.....	1-13
1.8.2 Span Calibration.....	1-14
1.8.3 3-point Linearity Calibration.....	1-15
1.8.4 5-point Linearity Calibration.....	1-16
1.8.5 Calibration Test	1-17
1.8.6 Geographical Adjustment Factor	1-17
1.9 RS232 Interface Connection.....	1-18
1.9.1 Setting Communications Parameters	1-18
1.9.2 Interface Commands	1-19
1.9.3 Output Format	1-20
1.10 Legal For Trade (LFT)	1-21
CHAPTER 2 TROUBLESHOOTING	
2.1 Introduction.....	2-1
2.2 Visual Inspection.....	2-1
2.3 Diagnostic Guide	2-2
2.2.1 Diagnosis.....	2-2
CHAPTER 3 MAINTENANCE PROCEDURES	
3.1 Preventive Maintenance	3-1
3.1.1 Preventive Maintenance Checklist	3-1
3.2 Replacement of Major Components	3-1
3.2.1 Main Printed Circuit Board (PCB) Replacement.....	3-2
3.2.1 Display Printed Circuit Board (PCB) Replacement.....	3-3
3.2.3 Membrane Switch Replacement.....	3-4
CHAPTER 4 TESTING	
4.1. Testing.....	4-1
4.2 Power Test.....	4-1
4.3 Performance Tests Using a Scale Base	4-1

TABLE OF CONTENTS

CHAPTER 4 TESTING <i>(continued)</i>	Page No.
4.3.1 Increasing/Decreasing Load Test.....	4-2
4.3.2 Overload/Underload Test	4-2
4.4 Performance Tests Using a Load Cell Simulator.....	4-3
4.5 Calibration Retention Test	4-3
4.6 RS232 Interface Test.....	4.3
4.7 Print Test	4-3
CHAPTER 5 PARTS LISTS & DIAGRAMS	
5-1 7000 Series T71P Indicator: Housing & Internal Parts	5-2
5-2 7000 Series T71XW Indicator: Housing & Internal Parts.....	5-4
APPENDIX A SETUP & CALIBRATION VALUES	
Appendix A. Geographical Adjustment Values	A-1

LIST OF TABLES

TABLE NO.	TITLE	Page No.
1-1	Specifications	1-3
1-2	Functions of Display Controls.....	1-7
1-3	Functions of Display Keypad.....	1-8
1-4	T71 Menu Structure	1-9
1-5	Interface Command Table.....	1-18
1-6	Default Serial Output Format.....	1-19
2-1	Diagnostic Guide	2-3
4-1	Increasing/Decreasing Load Test.....	4-2
5-1	T71P Indicator: Housing & Internal Parts	5-3
5-2	T71XW Indicator: Housing & Internal Parts.....	5-5
A-1	Geographical Adjustment Values	A-1

LIST OF ILLUSTRATIONS

FIGURE NO.	TITLE	
1-1	Top and Bottom Housing, and Rear Panel, T71P	1-2
1-2	Top and Bottom Housing, and Rear Panel, T71XW.....	1-3
1-3	Printed Circuit Board (PCB), T71 Indicator	1-5
1-4	Load Cell Terminal Blocks J4 (Scale 1) and J7 (Scale 2)	1-5
1-5	Load Cell wiring.....	1-6
1-6	Open/shorted jumpers.....	1-6
1-7	RS232 Pins	1-6
1-8	Battery charge symbol.....	1-7
1-9	T71 Display	1-7
1-10	T71 Display Indicator.....	1-7
1-11	Changing the menu language	1-12
1-12	T71P Wire Seal	1-16
1-13	T71P Paper Seal.....	1-16
1-14	T71XW Wire Seal.....	1-16
1-15	T71XW Paper Seal.....	1-16
2-1	Visual Checking Procedures	2-1
5-1	Series 7000 T71P Indicator: Housing & Internal Parts	5-2
5-1	Series 7000 T71XW Indicator: Housing & Internal Parts	5-4

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*