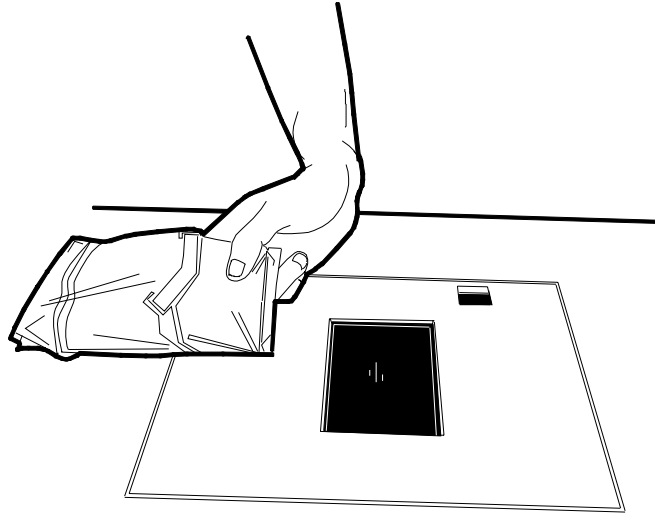


# NCR 7880 Scanner/Scale



12623

## User's Guide

BST0-2125-03

---

# Contents

---

## Chapter 1

### **Introducing the 7880 Scanner/Scale**

The NCR 7880 Scanner/Scale .....	1-1
NCR 7880-1000 Scanner/Scale .....	1-2
NCR 7880-2100 Scale .....	1-3
NCR 7880-3000 Scanner .....	1-4
Models Replaced by the NCR 7880 Scanner...	1-5
NCR 7880 Engine .....	1-5
Power Supply .....	1-5
Scale Display Options .....	1-6
Installing the 7880 Scanner and Scale .....	1-7
Calibrating the NCR 7880 Scale .....	1-7
Discriminating Among Bar Codes .....	1-8
Programming the NCR 7880 .....	1-9
PACESETTER Plus .....	1-11
Mode 1 - Inquiry Mode .....	1-11
Mode 2 - Real-Time Mode .....	1-12
Mode 3 - Operations Mode .....	1-12
Using the NCR 7880 .....	1-13
Soft Power Down/Power Up .....	1-13
Not-On-File-Feature .....	1-14
NCR 7880 Features .....	1-15
Mounting Style .....	1-15
Window Types .....	1-15
Interface Type .....	1-16
Power Cord .....	1-16
Scale Certifications .....	1-17
Decode Characteristics .....	1-17
NCR 7880 Kits .....	1-18

---

Chapter 2

**Preparing Your Site**

About this Chapter .....	2-1
Customer Responsibilities .....	2-3
Physical Characteristics .....	2-5
Weight .....	2-5
Installation Location .....	2-7
Checkstand Requirements .....	2-7
Checkstand Hole .....	2-7
Vertical Installation Requirements .....	2-13
Cable Lengths .....	2-14
AC Power Cords - Outlet to Power Supply .....	2-14
DC Power Cords - NCR 7880 Power Supply .....	2-14
Auxiliary Power Cable - From Host to 7880 .....	2-14
Interface Cables .....	2-15
Display Cables .....	2-18
Hole Requirements for the 7880 Cables .....	2-19
Ventilation Requirements .....	2-19
Environmental Requirements .....	2-21
Power Requirements .....	2-22
Power Application .....	2-22
Typical Checkstand Wiring .....	2-22
Auxiliary Power .....	2-25
Power Transients Protection .....	2-26

## **Installing Your NCR 7880 Scanner/Scale**

Overview .....	3-1
Preparing for Installation .....	3-5
Reporting a Damaged NCR 7880 .....	3-5
What is in the Box .....	3-6
Interface Cables .....	3-6
Product Number .....	3-7
NCR 7880 Labeling .....	3-7
Installing the 7880 .....	3-8
Installing the 7880-1000/3000 Scanner Vertically Using a Vertical Mounting Bracket .....	3-9
Installing the 7880-1000/3000 Scanner Horizontally .....	3-12
Setting the NCR 7880-3000 Scan Zone .....	3-14
Horizontal - Pass-by Scanning .....	3-16
Vertical - Pass-by Scanning .....	3-16
Vertical - Presentation Scanning from Top .....	3-17
Vertical - Presentation Scanning from Bottom .....	3-18
Installing the 7880 Scanner/Scale .....	3-19
Cabling for a Single Cable Interface .....	3-23
Cabling for an OCIA Dual Cable Interface .....	3-25
Installing Scanner into Scale Unit .....	3-25
Completing the Installation .....	3-26
Dual Cable Communication Adapter Installation .....	3-29
Auxiliary Power from a 7450 Series 1000 .....	3-32
Auxiliary Power from a 7450 Series 2000 .....	3-34
Auxiliary RS-232 Port .....	3-36
Connecting a 7880 to an NCR 2170 Terminal ...	3-38
Programming the NCR 7880 .....	3-38
Setting up the 2170 .....	3-39

Determining if the Unit is Operational .....	3-40
If the NCR 7880 is Not Operational .....	3-40
Checkout .....	3-41
Programming the NCR 7880 .....	3-41
Determining the Communications Protocol .....	3-47
Scale Address for IBM Communications .....	3-48
Changing the Scale Units of Measure .....	3-40
Calibrating the Scale .....	3-50
Exercise the Scale .....	3-52
Accessing the Calibration Switch .....	3-53
Calibrating .....	3-55
Verifying Calibration .....	3-56
Increasing Load Test .....	3-57
Over-capacity Test .....	3-58
Decreasing Load Test .....	3-58
Shift Test .....	3-59
Securing the Calibration Switch Security	
Cover .....	3-61
Convenience Store Installations .....	3-62

---

Chapter 4

**Operating Your NCR 7880 Scanner/Scale**

Scanner/Scale Components .....	4-1
Scan Window .....	4-4
Status Indicators .....	4-4
Motion Detector .....	4-5
Zeroing the Scale .....	4-5
Remote Display .....	4-6
Audible Tone .....	4-6
Voice Messages .....	4-7
Proper Label Orientation .....	4-9
Active Scan Zone .....	4-10
Multiple Reads .....	4-11
Bar Code Quality .....	4-11

Operation Instructions .....	4-14
Power Up .....	4-14
Scanning Procedure .....	4-15
Not-On-File Error .....	4-16
Weighing Procedure .....	4-16
Changing the Good Read Tone Volume .....	4-18
Miscellaneous Programming Changes .....	4-19
Not-On-File Volume .....	4-19
Lockout Time .....	4-19
Active Time .....	4-20
How to Use PACESETTER Plus .....	4-21
Using Mode 1 .....	4-22
Entering Mode 1 .....	4-22
Mode 1 Tallies .....	4-24
Using Mode 2 .....	4-25
Entering Mode 2 .....	4-25
Routine Maintenance .....	4-29
Cleaning the 7880-1000/3000 Scanner Top Plate and Window .....	4-29
Cleaning the 7880 Scale Top Plate and Window .....	4-30

---

Chapter 5

**Troubleshooting Your NCR 7880 Scanner/Scale**

Fault Identification .....	5-1
Scanner Fault Identification .....	5-1
Problem Correction .....	5-2
Common Problems .....	5-2
Scanner Problems .....	5-3
Scale Problems .....	5-4
Interface Switch .....	5-5
Switch Function .....	5-5
Setting Interface Switch SW1 .....	5-7
Mail-In Repair Information .....	5-8

---

Appendix A

**Programming Worksheets**

Using the Programming Worksheets .....	A-1
Communications Protocol .....	A-3
Good Read Tone .....	A-4
Timers .....	A-5
Bar Codes - 1 .....	A-6
Bar Codes - 2 .....	A-7
Bar Codes - 3 .....	A-8
Bar Codes - 4 .....	A-9
Label Identifiers .....	A-10
RS-232 Parameters - 1 .....	A-11
RS-232 Parameters - 2 .....	A-12
RS-232 Prefix Byte .....	A-13
RS-232 Terminator Byte .....	A-14
RS-232 Communications Options .....	A-15
Scale Parameters .....	A-16
Miscellaneous Parameters .....	A-17
Dual Cable Communications Adapter .....	A-18
ASCII Code Chart .....	A-19

---

Index

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/NCR/7880 user manual.html](https://the-checkout-tech.com/manuals/NCR/7880%20user%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)