WINCOR NIXDORF

Self-Service Systems

CCDM

Service Manual

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CCDM

Service Manual

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Introduction

This service manual has been compiled for authorized service personnel only.

Symbols used in this manual

– Text following a dash represents an item in a list.

" " Text in quotation marks refers to other chapters or sections in this document.

- Text following this symbol describes actions to be performed in the specified order.

Text following this symbol should be given special attention in order to avoid damage and injury.

Text following this symbol contains general information to facilitate use of the device and help avoid operating errors.

Important safety precautions

Before performing any work on the CCDM disconnect the device from power and unplug the power supply cable from the CCDM (see chapter "Removal / Installation of Components", section "Power interrupt"). Observe the safety precautions (refer to the service manual of the device).

General information

The check / cash deposit module (or CCDM) is designed to be integrated in automated teller machines and full-function self-service terminals. It consists of the metal detection unit, dispensing station, input/output area, alignment station, magnetic character reader, check/cash reader, escrow unit, print station and cassette module.

The CCDM offers the following functions:

- Processing checks
- Processing banknotes,
- Depositing the media in the appropriate cassettes in the cassette module.

How to operate the CCDM is described in the operating manuals of the devices which are equipped with the CCDM.

Structure of the manual

Outline

The chapter "Introduction" describes the important safety precautions, notes concerning environmental protection and provides a list of abbreviations. It also gives an overview of the possible functions of the CCDM.

The chapter "Device Integration" gives an overview of the possible versions which may be used in the devices.

Views of the individual components of the CCDM, positions of the sensors, actuators, function elements and controls as well as a block diagram illustrating the integration of the individual units are shown in the chapter "Overview of Components".

In the chapter "Function and Integration" you will find a description of the functions of the components and a description of the transport paths.

CCDM testing is described in the chapter "Function test".

The next chapter lists possible malfunctions and provides information how to eliminate them.

The next chapter "Removal / Installation of Components" provides detailed information on how to remove and install the individual units.

The chapter "Maintenance and Service" contains information on required maintenance work.

The last chapter "Appendix" provides technical data and pin assignments.

Supplementary documentation

For the operation and installation of the system, separate manuals are available in several languages. These manuals can be ordered from the publications office. They are also available in the intranet.

Environmental protection

Disposing of used consumables

Please dispose of consumables according to the applicable regulations of your country.

Labels on plastic case parts

Please do not stick any labels on plastic case parts since that would make recycling more difficult.

Returning, recycling and disposing of used units and consumables

Details regarding the return and recycling of used units and consumables can be obtained from your local branch office or from our Recycling Center in Paderborn:

Tel.: +49 (0) 52 51 8-1 80 10
Fax.: +49 (0) 52 51 8-1 80 15

Further information

can be obtained from our Environmental Protection section (Referat Umweltschutz):

Tel.: +49 (0) 52 51 693-67 07
Fax.: +49 (0) 52 51 693-67 09

Email: referat.umweltschutz@wincor-nixdorf.com

Abbreviations

CCDM	Check / Cash Deposit Module
CCE	Check/cash-in detection module
DIN	German Institute for Standardization
EC	Extended Error Code
ECB	European Central Bank
ESD	Electrostatic Discharge
ISO	International Organization for Standardization
KDIAG	Components Diagnostics
LED	Light-Emitting Diode
MICR	Magnetic Ink Character Reader
UART	Universal Asynchronous Receiver Transmitter
VTR	Separator transport