



Giesecke+Devrient

User Manual

ProNote 1.5
ProNote 1.5F



Original operating instructions

Art.-No. 523775011
Issue 03/2021



Note

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The specifications stated in this documentation do not represent guaranteed characteristics.

This documentation is based on the machine type ProNote 1.5/1.5F. The documentation applies for ProNote 1.5 serial numbers PN1501000001 or higher and ProNote 1.5F serial numbers PN1551000001 or higher. Software release 1.2.

Subject to technical changes.



This product meets the safety requirements of the relevant EU directives and complies with the EN standards as listed in the EU Declaration of Conformity.

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Technical support	→ <i>Chapter B "Technical Support", p. 143</i>
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Changes

Issue Overview

03/2021

Version	Change
1	Initial release
2	Software update

Details:

- → *Section 3.3.2 "Touchscreen Display", p. 22*
Enhanced touchscreen functionality.
- → *Section 3.4 "Counting Modes", p. 24*
New counting modes, including combinations of face and orientation with emission sorting.
- → *Chapter 4 "Technical Data", p. 31*
Site and facility chapter replaced by technical data
- → *Section 6.2 "Selecting User", p. 40*
Selection of up to 4 users.
- → *Section 6.3.2 "Counting Banknotes", p. 41*
General procedure for counting banknotes and performing reconciliation.
- → *Section 6.5 "Selecting the Operating Mode", p. 45*
Selection of operating mode
- → *Section 6.9 "Viewing Deposit Details and Performing Manual Reconciliation", p. 49*
Manual reconciliation of banknotes.
- → *Section 6.10 "Performing Fitness Sorting According to ECB Specification (ProNote 1.5F)", p. 54*
Fitness sorting according to ECB specification (ProNote 1.5F).
- → *Section 6.13 "Printing Reports", p. 60*
New deposit reports.
- → *Section 7.2 "Summary of User Menu", p. 66*
User menu extensions (e.g. print and communication settings, user settings, settings for configuration mode and deposit report, network settings and serial number search list).
- → *Section 7.9 "Changing Reject Pocket Capacity", p. 76*
Reject pocket capacity selectable and retained after switching off the machine.
- → *Section 7.16 "Configuring Network Settings on ProNote 1.5/1.5F", p. 83*
New network settings, including FTP settings.





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1 About This Manual

This chapter contains the following information:

- Overview of all manuals in the ProNote 1.5/1.5F operating instructions
- Target group of this manual
- Content and structure of this manual
- A description of the conventions used in this manual

1.1 Overview of All Manuals for the ProNote 1.5/1.5F System Operating Instructions

Quick Start Guide	<p>This manual forms part of the System Operating Instructions. The following manuals form part of the System Operating Instructions:</p> <p>These quick instructions are intended for all users of the product. They describe the first steps without using text so that the user can operate the product. The quick instructions are supplied with the product.</p>
Safety Information	<p>The safety information is intended for all users of the product. It describes all the necessary safety measures for hazard-free use of the product. The safety information is supplied with the product.</p>
User Manual	<p>The user manual is intended for all users of the product and can contain the following information:</p> <ul style="list-style-type: none"> ● Requirements for the installation site as well as for the transport and secure operation of the product ● Technical data for the product ● Installing and connecting the product ● Operating the product and straightforward cleaning and maintenance work that is not performed by Service ● Installing and using the software applications
Service Manual	<p>The Service Manual describes maintenance work carried out on the product by field engineers.</p> <p>The maintenance work includes:</p> <ul style="list-style-type: none"> ● The replacement of parts for repairs (corrective measures) including the necessary adjustment work ● Installing and using the software application for Service <p>You will only receive a service manual after you or your staff have received training from G+D to become a field engineer.</p>

Troubleshooting Manual

The Troubleshooting Manual offers an interactive troubleshooting including links to detailed procedures and video tutorials.

The Troubleshooting Manual is only available as part of the electronic documentation library EB Suite. The contents of the Troubleshooting Manual depend on your access rights.

Spare Parts Catalog

Please use the electronic spare parts catalog for Banknote Processing Systems on CD/DVD to order spare parts.

1.2 Target Group of this Manual

The manual is intended for the operator.

1.3 Content and Structure of This Manual

This manual contains the following:

- The → *"Safety"* chapter contains important safety information.
- In the → *"General Information about the Product ProNote 1.5/1.5F"* chapter, you will find an overview of the product..
- The→ *"ProNote 1.5/1.5F Site and Facility Requirements"* chapter contains the technical data for the product and describes the requirements that must be met at the installation site to safely operate the product.
- The → *"Installation"* chapter contains information on the transport, installation, and commissioning of the product.
- The → *"Operation"* chapter contains the following information:
 - Operating controls
 - Banknote processing operating procedures
 - Other related procedures
- The → *"Defining Settings via the User Menu"* chapter describes how to define user settings via the user menu.
- The → *"Maintaining the Machine"* chapter describes procedures for cleaning the machine and adjusting the feed gap.
- The → *"Clearing Jam"* chapter describes how to clear a banknote jam.
- The → *"Disposal"* chapter provides you with all the information required for disposal.
- The → *Appendix* contains useful additional information. Examples:
 - Technical details
 - Contact addresses

- A list of abbreviations and glossary of terms
- Table of figures
- Index

1.4 Conventions Used in this Manual

1.4.1 General Document Conventions

The following formatting styles are used as standard to identify certain information:

Conventions	Definition
<u>This text is important.</u>	Underlined text indicates important information.
Mechanical operating control	Names of mechanical operating controls like keys or switches are written in bold. Example: Press Start on the device.
GUI Text	Objects in the graphical user interface (GUI), e. g. a button, are in bold. Example: Click OK .
Menu option > Menu option	Menu names are in bold. Angle brackets indicate navigation through menus. Example: Select File > Print from the menu.
'User input'	User inputs are in single quotes. Example: Enter port = '8080'.
<Placeholder>	Placeholders for display text or user input are in angle brackets. Example: Enter <Password>.
[Key]	Keys on the keyboard are in square brackets. Example: Press [Alt] + [p] to print the file.



Conventions	Definition
<i>File or path</i>	File names or paths are in italics. Example: Open <i>readme.txt</i> .
Command	Commands are in Courier font. Example: Open an input window and enter <code>ping</code> .
Code	Codes are in courier font.
"Title"	Titles of reports, logs, modes, windows, etc. are in quotation marks. Example: The "xy" window appears.
→ "Manual title"	References to other manuals are in italics. The manual title is also in quotation marks. Example: → " <i>Service Manual</i> "
→ Chapter "Chapter heading"	References to other chapters/sections are in italics. The title of the chapter/section is also in quotation marks. For example, → " <i>Jam Recovery</i> " chapter
<i>Homepage Giesecke+Devrient</i>	References to a website address are in italics.
1. list entry 2. list entry	In numbered lists, make sure you follow the sequence of list entries.
● list entry ● list entry	In unnumbered lists, the sequence of list entries is not important.
a) list entry b) list entry	In alphabetical lists, the list entries give alternatives.

Conventions	Definition
	This symbol identifies important information.
*	* indicates optional components. Inquire if the option is available on your machine.
[1]	Numbers in square brackets indicate individual operational steps. You must carry out these steps in the sequence indicated.
⇒	An arrow as shown after a step indicates the result of that step.

1.4.2 Document Conventions for Procedures (Instructions)

This section explains how procedures (instructions) are set out. Follow procedures step by step in the specified order.

Example Procedure

Requirements for the Procedure

- Requirement 1
- Requirement 2



DANGER

Safety information before the procedure

Applies to the whole procedure

Observe the measures to prevent risks at each step.

Procedure

[1] Perform this step.



[2] Perform this step. Note the image above.

⇒ Result of this step



Figure 1: Image of a Result

Secondary Steps

- [3]** To perform this step:
- [3-1]** Perform this secondary step.
- [3-2]** Perform this secondary step.

Prompts to Skip or Repeat Steps

- [4]** Prompt, e.g. has the error been rectified?
No: → **[5]**
Yes: → **[6]**
- [5]** Only carry out this step if you answered the above prompt with No.
Continue with: → **[7]**
- [6]** Only carry out this step if you answered the above prompt with Yes.
Continue with: → **[7]**
- [7]** Perform this step.

Alternative Steps

- [8]** Select the appropriate alternative:
For variant A: → **[8a]**
For variant B: → **[8b]**
- [8a]** **Variant A**
- [8a-1]** Perform this step for variant A.
- [8a-2]** Perform this step for variant A.
- [8b]** **Variant B**
- [8b-1]** Perform this step for variant B.

Result

- ⇒ Result of the procedure



1.4.3 Figures Used

The screenshots used are examples and may differ from what is actually shown on the display.



2 Safety

Before you work with our product, you must have previously read and understood the system operating instructions and especially the safety instructions they contain. You may only then operate and maintain our product if you are trained and authorized to do so. Remain conscious of safety as you work.

This chapter contains the following information:

- Overview of the general symbols for safety information
- Overview of the symbols identifying specific hazards
- Safety instructions for ProNote 1.5/1.5F

2.1 Safety Information Symbols



DANGER

The symbol together with the signal word DANGER indicates an immediate danger to life or health.

Ignoring this warning results in death or serious injury.

The safety information tells you about the type and source of the danger, the consequences if it is not observed, and the measures to take to prevent the danger.



WARNING

The symbol together with the signal word WARNING indicates a possible danger to life or health.

Ignoring this warning may result in death or serious injury.

The safety information tells you about the type and source of the danger, the consequences if it is not observed, and the measures to take to prevent the danger.



CAUTION

The symbol together with the signal word CAUTION indicates a possible danger to health.

Ignoring this warning may result in minor injury.

The safety information tells you about the type and source of the danger, the consequences if it is not observed, and the measures to take to prevent the danger.

**NOTICE**

This symbol, with the signal word **NOTICE**, is used to identify warning information.

Ignoring this information may result in damage to parts of the product or jeopardize data consistency.

The safety information tells you about the type and source of the risk, the consequences if it is not observed, and the measures to take to prevent the risk.

2.2 Symbols Used to Identify Specific Hazards

Safety information with symbols for specific dangers tells you about the type and source for the risk, the consequences if it is not observed, and the measures to take to prevent the risk.



Risk from rotating parts

This symbol indicates a danger from rotating parts.



Risk of electric shock

This symbol indicates a danger of electric shock.



Risk of tripping

This symbol indicates a risk of tripping.



Risk from heavy parts

This symbol indicates a danger from heavy parts.

2.3 Safety Information

2.3.1 Proper Use

Our product has been constructed using the latest technology and is safe for operation. For your safety, you must use it appropriately and properly.

You must comply with the necessary safety measures for hazard-free use of the product. Failure to follow these instructions can put lives at risk or can damage the product.

Proper Use	<p>Always take notice of the safety warnings, even if you are an experienced user with good system knowledge.</p> <p>A banknote processing system may only be used to check banknotes for denomination, authenticity, and condition, to count and to sort them.</p>
Improper Use	<p>Improper use, for example, the singling of hard objects such as coins, paper clips and staples, is not permitted and will result in the invalidation of the warranty.</p>

2.3.2 Prohibition of Unauthorized Modifications or Changes

For safety reasons, no changes may be made to the product without informing and receiving written approval from the manufacturer. Any unauthorized structural changes or additions invalidate the EU Declaration of Conformity for the product.

Only genuine spare parts may be used for repair.

2.3.3 Circumstances Under Which the Product May Not Be Operated

The product may not be operated if the defined ambient and operating conditions are not fulfilled.

Depending on the product, you can find this data in the "Site and Facility Requirements" manual of the system operating instructions or in the "Site and Facility Requirements" or "Technical Data" section of the user manual.

If the product is not in an operational state for technical or other reasons, you must secure the product against being used.

2.3.4 Safety Information to Protect Personnel

Be sure to comply with national accident prevention regulations.

When using the product, ensure the following:

- Avoid wearing loose-fitting or open clothing.
- Remove ties, rings, watches, and jewelry before beginning work.
- Protect long hair with a scarf or hair net.

Refrain from any methods of operation that may compromise the operational safety of the product. Proceed in accordance with the safety information specified in the System Operating Instructions. Ensure that unauthorized personnel are kept away from the product.

Check the product for any externally identifiable damage and faults at least once a day. Immediately report any safety-related changes (including in the operating behavior) to the internal department responsible.

Only operate the product when it is in perfect working condition.

Do not remove any safety devices. Do not disable any safety devices. This can put lives at risk or can damage the product.

2.3.5 Safety Information for Software

The product has been designed to state-of-the-art software technology standards and is safe to operate. Failure to use the software correctly does not pose a hazard to the user.

Some basic knowledge of the software is required to use the product. Take care to consider the effects of changing or resetting parameters.

Incorrect use by insufficiently trained persons can lead to data loss and errors.

2.3.6 Electromagnetic Compatibility

At all stages of configuration, the ProNote 1.5/1.5F complies with the basic requirements of the EMC Directive (emitted interference and interference resistance).

2.3.7 Information on Special Dangers for the Operator

During operation of the product, observe the following information:

Moving Parts

Do not touch moving parts, as they can cause injuries.

Electrical Voltage/Current

Work on live electrical parts and assemblies carries the risk of electric shocks. Only carry out this work if you are authorized to do so.

Ergonomics

Stand or sit in a comfortable manner. Arrange your workstation so that you can work ergonomically.

- Set your chair to the optimum position.
- Adjust the height of the work surface if possible.

- Set the screen to the optimum position if possible.

Non-Specified Materials

Dangers may arise from the use of non-specified materials such as cleaning material, sprays, lubricants, etc. If you use these materials, follow the manufacturer's safety instructions.

Dust

Never use compressed air to clean the product. Breathing in dust can lead to health problems. Dust in the air can also damage the bearings and electronic parts. No claims can be made under the warranty for parts that are damaged in this way. Always vacuum up any dust with a suitable vacuum device, which is fitted with a micro-filter.



3 Overview of ProNote 1.5/1.5F

3.1 General Information on ProNote 1.5/1.5F

ProNote 1.5/1.5F is a banknote counter and sorter. Depending on the operating mode selected, you can count mixed denominations, single denominations or count the quantity only. In addition, various combinations with face, orientation and emission sorting are available. Depending on your machine, fitness sorting* may also be available. All counted banknotes are sorted to the stacker compartment and all suspicious or unrecognized banknotes are sorted to the reject compartment.

You can easily switch between the available currencies and operating modes. In addition, a detailed report of counting results and reject details is available, including manual reconciliation. Detailed information on the display instructs you on how to proceed in case of an error message.

This manual describes all the available options. The availability of these options depends on the configuration of the ProNote 1.5/1.5F.

→ *Section 3.1.1 "Product Variants", p. 16*

* ProNote 1.5F only



Important!

The technical data for external devices supplied by G+D is not included in this documentation.

Special Features

- Banknote counter and sorter with reject compartment
- Quick selection of currency and various counting modes
- Batch function and addition function
- Detailed viewing of deposit information and manual reconciliation
- Automatic sending of XML deposit report and printing of deposit receipts
- Software updates via SD card and USB; also remotely via network (LAN) access
- Security features, including UV, IR, MG, MT, MTS*, image recognition (CIS technology) and EuroMag
- Standard interfaces, including external display/printer, network (LAN), SD card slot and USB

3.1.1 Product Variants

The following product variants are available:

ProNote 1.5	Without fitness sorting mode
ProNote 1.5F	With fitness sorting mode and mechanical thickness sensor (MTS) detection

3.1.2 General Usage Information

Increasing the Durability of the Product

To maximize the durability of the product:

- Arrange for service personnel to perform a checkup of the machine on a regular basis.
- Using a soft brush or cloth, clean the sensor module parts (inside of the open cover on the back side) daily.
→ *Section 8.3 "Cleaning the Banknote Processing Machine", p. 98*
- Do not place the product in a dusty space, making sure that the product stays free of dust and foreign substances.
- Keep and use the product under the optimal operating conditions.
- The machine is intended exclusively for indoors usage. Do not use it outdoors.
- Maintenance must only be performed by approved technicians. If any problems occur, consult the troubleshooting guide. If the problem persists, contact the authorized distributor for assistance.
- Do not attempt to disassemble or repair the product by yourself.
- Place the product away from heat sources or direct sun rays.
- Do not expose the device to liquids, extreme humidity, or moisture.
- Avoid operating the device in environments with strong magnetic and electromagnetic fields (e.g. away from magnets, other electrical appliances, etc.).
- Do not open or operate the product by force.
- Make sure to shut its power off before putting your hands inside the product (e.g. for cleaning or clearing note jamming only).

Additional Safety Information

3.2 Front and Rear View of ProNote 1.5/1.5F

This chapter shows the front and rear view of ProNote 1.5/1.5F.

3.2.1 Front View

The ProNote 1.5/1.5F banknote processing machine has the following operating controls:

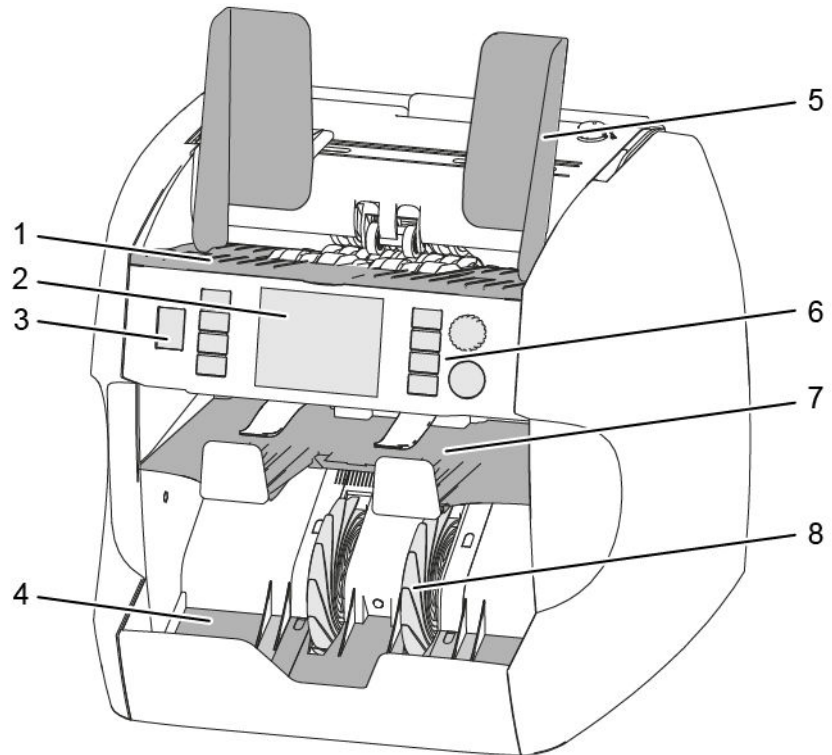


Figure 2: Operating controls

- 1 Singler
Where you place the banknotes to count and sort; also referred to as hopper.
- 2 Display
Displays counting result, error code or setup details, etc.
- 3 Status LED
Green: No error, red: Rejects in reject compartment
- 4 Stacker
Contains counted notes to be stacked.
- 5 Note guide
Used for adjusting size of banknotes.
- 6 Operation keys
Used to select functions and navigate in the menu.

- 7 Reject stacker
Contains suspicious and unrecognized banknotes to be stacked.
- 8 Receiving wheel
Banknote receiving wheel.

3

3.2.2 Rear View

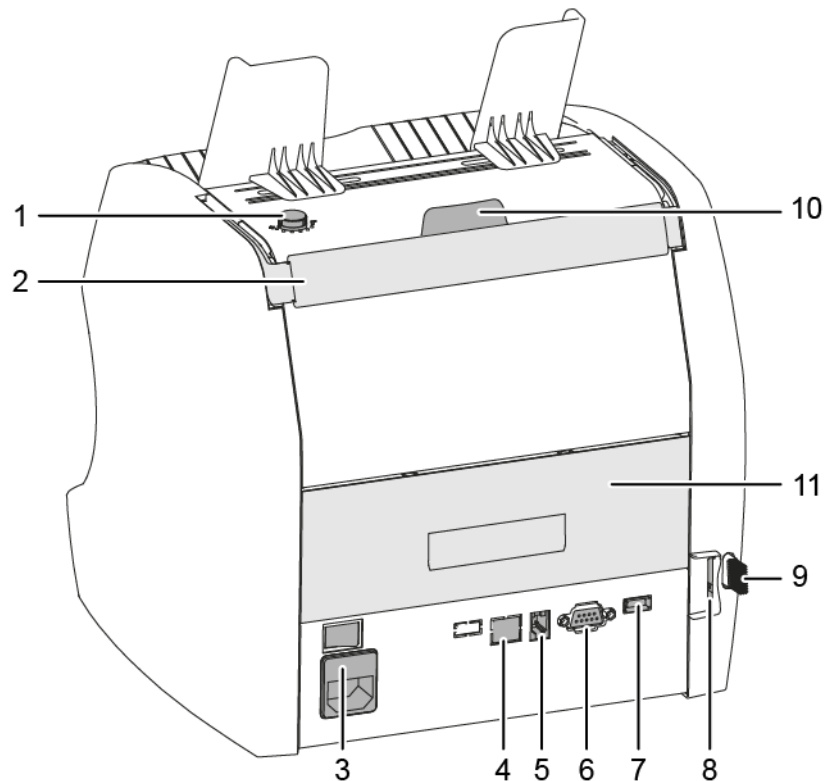


Figure 3: Operating controls

- 1 Gap adjustment screw
Used to regulate note feeding. The adjustment is set to the factory default.
→ *Section 8.4 “Adjusting the Feed Gap”, p. 107*
- 2 Handle
Used for transportation purposes and moving the ProNote 1.5/1.5F banknote processing machine.
- 3 Power supply socket and power switch
Connection for the power cable.
- 4 Network (LAN)
Remote network access; connector type RSJ45.

- 5 External printer
Optional printer; connector type RJ11.
- 6 External display
Optional display; connector type RS232.
- 7 USB
For update and raw data capturing.
- 8 SD card slot
For update; must be inserted when using LAN.
- 9 Brush holder
Tool for cleaning the sensors.
- 10 Hatch of top cover
Lift the hatch to open the upper transport section (i.e. sensor section).
→ *Section 8.2 “Opening and Closing the Upper Transport Section”, p. 97*
- 11 Back sliding door
Remove the back sliding door to access the lower transport section.
→ *Section 8.1 “Opening and Closing the Lower Transport Section”, p. 97*

3.3 Control Panel

The control panel consists of various keys and a display.

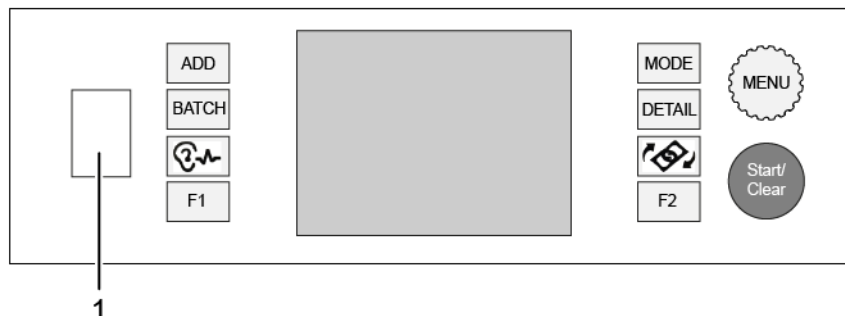


Figure 4: Control Panel

1 Status LED

Meaning of color:

- Green: No error while counting notes.
- Red: Rejects in reject compartment.
- Blinking green: ProNote 1.5/1.5F banknote processing machine is offline

3.3.1 Keys of the Control Panel



Important!

The touchscreen provides similar functionality as many keys of the control panel.

→ Section 3.3.2 “Touchscreen Display”, p. 22

ADD	<p>When active, adds counting results to existing counting results until cleared again.</p> <p>When the ADD function is activated, the lower right corner of the screen displays "Σ:0". This shows the total value of accumulated notes after removing them from the stacker.</p> <p>→ Section 6.6 “Adding Counting Results”, p. 46</p>
BATCH	<p>Used to select or enter individual quantity of notes for the batch stop limit counter (e.g. default: 100).</p> <p>The banknote processing machine automatically stops when batch stop is reached.</p> <p>→ Section 6.7 “Enabling and Disabling Batch Counting”, p. 47</p>

silencing symbol	Reduces noise by reducing the counting speed. → <i>Section 6.8 “Reducing Noise and Counting Speed”, p. 48</i>
F1	User-defined button (default setting: Print). Configurable via the user menu (e.g. for printing counting results). Also used for other functions (e.g. selecting operator or printing of reports). → <i>Section 7.4 “Setting Function of User-Defined Keys”, p. 70</i>
MODE	Selection of the mode. → <i>Section 6.5 “Selecting the Operating Mode”, p. 45</i> Modes can be enabled or disabled via the CONFIG MODE menu of the user menu.
currency symbol	Selection of the desired currency. → <i>Section 6.4 “Selecting the Currency”, p. 44</i>
DETAIL	When pressed, displays details of the counting result (e.g. detailed results of mixed denominations) and allows you to perform manual reconciliation. You can press a second time to display the next page if any. → <i>Section 6.9 “Viewing Deposit Details and Performing Manual Reconciliation”, p. 49</i> Also shows reject reasons when the MENU dial is turned clockwise.
F2	User-defined button; configurable via the user menu (e.g. for enabling printing). When the ADD function is activated, also clears the counting results after confirmation.
MENU	Multi-functioning knob. Push to enter the user menu, turn knob to select menu entries, push to confirm and save a setting. → <i>Chapter 7 “User Menu”, p. 65</i>
Start/Clear	Push to manually start counting (e.g. after correcting an error). When pressed while the ADD function is activated, last stacked banknotes are not accumulated when removed from the stacker (this behavior depends on the software being used). Also works as clear key to return to the previous screen or quit/leave the menu. → <i>Section 6.12 “Starting Counting and Clearing”, p. 60</i>

3.3.2 Touchscreen Display

Display

The touchscreen of ProNote 1.5/1.5F has been enhanced to provide increased user convenience (e.g. selection of currencies and modes or other options directly via the touchscreen instead via the conventional keys on the control panel).



Important!

We recommend using the new touchscreen functionality. However, you can still use the non-touch method.



Figure 5: Enhanced Touchscreen

	Display	Description	Equivalent Key of Control Panel
1	Selected currency (e.g. EUR)	Selection of the desired currency from list of available currencies. An asterisk symbol preceding the currency indicates that the currency was detected as first currency when AUTO currency was selected.	Currency key. → Section 6.4 “Selecting the Currency”, p. 44
2	Xml	Displayed if XML report is enabled.	Configurable via user menu.

	Display	Description	Equivalent Key of Control Panel
3	Reject	Displays reject detail (i.e. list of rejected banknotes).	DETAIL key in combination with the MENU dial. → Section 6.11 "Displaying Reject Details", p. 59
4	Selected mode (e.g. MIX)	Selection of the desired mode from list of available modes. You can scroll between pages.	MODE key. → Section 6.5 "Selecting the Operating Mode", p. 45
5	Add function	Enables or disables ADD mode for accumulation of counting results until cleared again.	ADD key. → Section 7.20 "Enabling ADD Function", p. 89
6	Batch function	Enables or disables batch mode with selection of predefined batch stop limit (e.g. default: 100 banknotes).	BATCH key with selection of batch stop limit. → Section 6.7 "Enabling and Disabling Batch Counting", p. 47
7	Counting results (subtotal and pieces)	Displays counting counted amount and quantity (e.g. set to 0 when banknotes are removed from the stacker).	DETAIL key in combination with MENU dial.
8	User-defined function (e.g. PRINT)	Configurable via user menu (e.g. for printing counting results).	F1 key when configured for printing. → Section 7.4 "Setting Function of User-Defined Keys", p. 70
9	Operator	Selection of operator (e.g. Op 1 to Op4).	Setting via user menu. → Section 7.5 "Saving User Settings", p. 71
10	Serial number	Serial number of banknote if enabled via the user menu.	Setting via user menu. → Section 7.8 "Enabling and Disabling Serial Number Recording", p. 75

	Display	Description	Equivalent Key of Control Panel
11	Total sum	In ADD mode, total sum of accumulated banknotes until cleared again (e.g. via F2 key with confirmation).	

3.4 Counting Modes



Important!

Note the following:

- Whether a mode is enabled or disabled (e.g. grayed or not displayed) can be specified via the **CONFIG MODE** menu of the user menu.
→ Section 7.13 "Configuring the Mode", p. 80
- Whether automatic transfer of the deposit XML file is enabled after removing banknotes from the stacker can be configured via the **Xml Report** menus of the user menu.
→ Section 7.14 "Configure XML Report", p. 82

Operating modes available:

Configuration Mode	Description	Counting Results
MIX	Mixed denomination counting mode (i.e. counting of all denominations of the same currency).	All counted banknotes of the same currency. Display of amount and quantity, including detailed display of counting results and rejects.
MIX(V)	Combination of: <ul style="list-style-type: none"> • MIX • EMI SORT 	All counted banknotes of the same currency, including emission sorting. Display of amount, quantity, including detailed display of counting results and rejects.
SINGLE	Single denomination counting mode; also referred to as "denomination sorting".	All counted banknotes of the same denomination (first denomination detected). Display of amount and quantity, including detailed display of counting results and rejects.

Configuration Mode	Description	Counting Results
SINGLE(V)	Combination of: <ul style="list-style-type: none"> • SINGLE • EMI SORT 	All counted banknotes of the same denomination, including emission sorting. Display of amount, quantity, including detailed display of counting results and rejects.
FACE(M)	Combination of: <ul style="list-style-type: none"> • FACE • MIX 	All counted banknotes of the same face, of the same currency. Display of amount and quantity, including detailed display of counting results and rejects.
FACE(M+V)	Combination of: <ul style="list-style-type: none"> • FACE • MIX • EMI SORT 	All counted banknotes of the same face of the same currency, including emission sorting. Display of amount and quantity, including detailed display of counting results and rejects.
FACE(S)	Combination of: <ul style="list-style-type: none"> • FACE • SINGLE 	All counted banknotes of the same face of the same denomination. Display of amount and quantity, including detailed display of counting results and rejects.
FACE(S+V)	Combination of: <ul style="list-style-type: none"> • FACE • SINGLE • EMI SORT 	All counted banknotes of the same face of the same denomination, including emission sorting. Display of amount and quantity, included detailed display of counting results and rejects.
ORIENT(M)	Combination of: <ul style="list-style-type: none"> • ORIENT • MIX 	All counted banknotes of the same orientation and the same currency. Display of amount and quantity, including detailed display of counting results and rejects.
ORIENT(M+V)	Combination of: <ul style="list-style-type: none"> • ORIENT • MIX • EMI SORT 	All counted banknotes of the same orientation and same currency, including emission sorting. Display of amount and quantity, including detailed display of counting results and rejects.



Configuration Mode	Description	Counting Results
ORIENT(S)	Combination of: <ul style="list-style-type: none"> • ORIENT • SINGLE 	All counted banknotes of the same orientation and same denominations. Display of amount and quantity, including detailed display of counting results and rejects.
ORIENT(S+V)	Combination of: <ul style="list-style-type: none"> • ORIENT • SINGLE • EMI SORT 	All counted banknotes of the same orientation and same denomination, including emission sorting. Display of amount and quantity, including detailed display of counting results and rejects.
COUNT	Count mode, also referred to as piece counting or free counting mode.	All counted banknotes. Display of quantity (pieces) only, including detailed display of rejects.
Additional modes available for ProNote 1.5F. The availability of the fitness modes depends on whether the currency has been adapted for fitness criteria.		
FIT	Fitness counting mode according to fitness quality.	All counted banknotes detected as being fit. Display of the amount and quantity, including detailed display of counting results. Further sorting of rejects to determine unfit and suspects (counterfeits).
SINGLE FIT	Combination of: <ul style="list-style-type: none"> • SINGLE • FIT 	All counted banknotes of the same denomination detected as being fit. Display of the amount and quantity, including detailed display of counting results and rejects.
ATM FIT	ATM counting mode according to ATM quality.	All counted banknotes detected as being ATM fit. Display of the amount and quantity, including detailed display of counting results and rejects.
SINGLE ATM FIT	Combination of: <ul style="list-style-type: none"> • SINGLE • ATM FIT 	All counted banknotes of the same denomination detected as being ATM fit. Display of the amount and quantity, including detailed display of counting results and rejects.

**Important!**

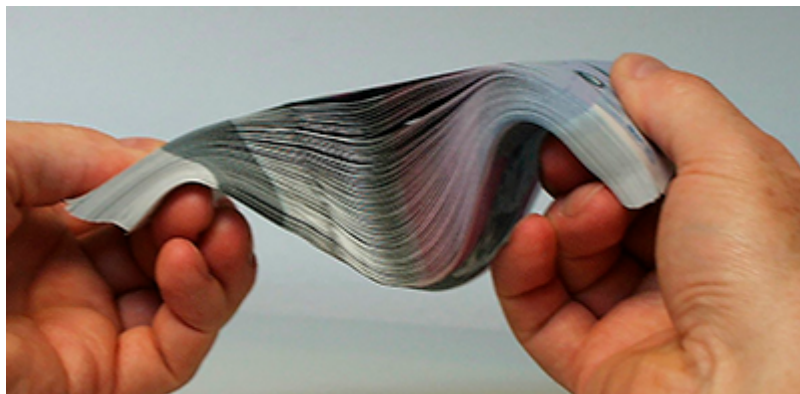
Depending on your software version, other modes may be supported (e.g. **UNFIT**, **SINGLE UNFIT**).

3.5 Preparing Banknotes

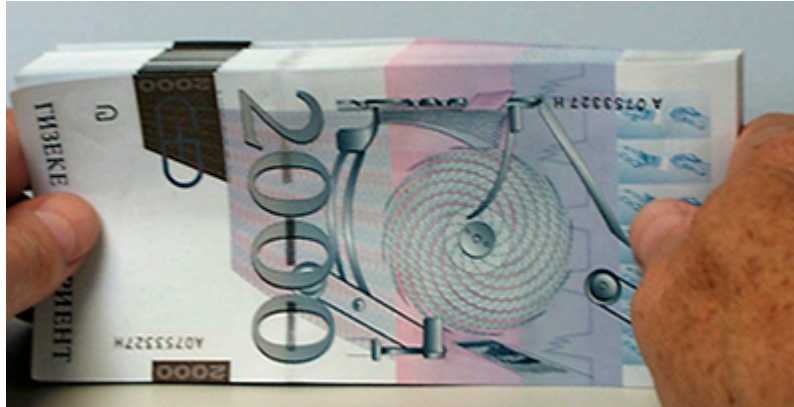
- [1] If necessary, remove the straps.
- [2] Proceed according to internal regulations.



- [3] Fan the banknotes up.



- [4] Fan the banknotes down.



- [5] Straighten the banknote stack.
- [6] Make sure that the edges are flush.
- [7] Smooth the banknotes and remove dog-ears.

**Important!**

Proper banknote preparation improves the banknote processing and increases the throughput.

**NOTICE**

Objects such as clips, paperclips, or rubber bands
 Risk of damaged machine/device
 Make sure that there are no objects on the banknotes.
 Only place banknotes in the singler.

- [8] Before inserting the banknotes in the singler, sort out banknotes with the following characteristics:
 - Extreme damage
 - Heavy soiling
 - Folded/kinked banknotes
 - Very creased banknotes
 - Folded banknotes

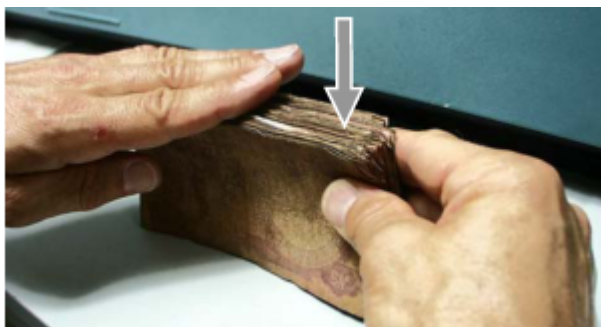


Figure 6: Poor quality banknote

- [9] Place these banknotes to one side for manual inspection.
- [10] Before placing the banknotes in the singler, make sure that the banknotes are not arched downward along their length.

Particularly poor quality banknotes

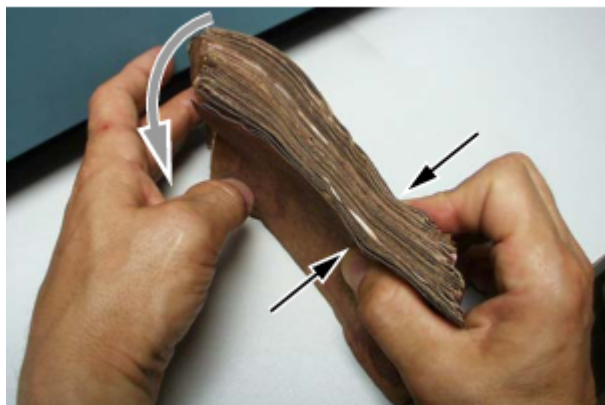
The following procedure is recommended in addition:



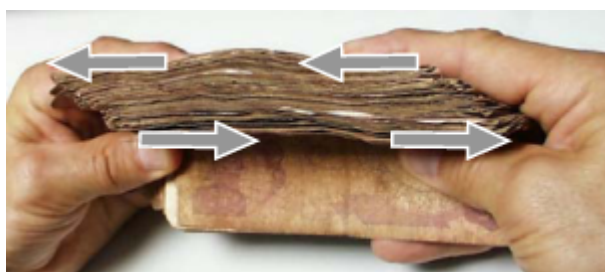
- [11] Straighten the BN lengthwise.



- [12] Fan the right side of the BN package.



[13] Fan the left side of the BN package.



[14] Shift the BN sideways.

[15] Bend the BN in the middle.







[16] Smooth any bent leading edges and dog-ears.

4 Technical Data

This chapter contains the technical data for the product and describes the requirements that must be met at the installation site to safely operate the product.

Banknote format	Length: 115 to 183 mm, width: 55 to 87 mm, thickness: 0.07 to 0.15 mm
Moisture content of the banknotes to be processed	<ul style="list-style-type: none"> • Relative humidity: 35 % – ca. 65 % r.H. • Moisture content of the banknotes: 4.5 g/kg at 20 °C (water/kg of banknotes)
Capacity	<ul style="list-style-type: none"> • Singler: 900 notes • Stacker: 200 notes • Reject stacker: 50 (recommended); max. of 50 notes retained value after rebooting
Dimensions (D x W x H) without packing	270 x 280 x 265/335 mm with/without guides
Dimensions (D x W x H) with packing	370 x 370 x 435 mm
Weight	ProNote 1.5: 9 kg/10 kg (without/with packing) ProNote 1.5F: 10 kg/11.5 kg (without/with packing)
Operating temperature	0 °C – +40 °C
Room humidity	30 % – 80 % r.H.
Voltage	100 – 240 V ± 10 %
Frequency	50 Hz – 60 Hz ± 1 %
Fuse protection	F4A 250 V
Maximum current consumption	1 A

Electrical power consumption	Max. 50 VA (during counting)
Noise level values according to test report	74.5 up to 82.9 dB(A) depending on the banknote quality, banknote stiffness, operating mode, room characteristics, etc. The uncertainty comprises ± 2 dB (A).
External interfaces	<ul style="list-style-type: none"> ● DP9 for optional display ● RJ11 for optional printer ● RJ45 for remote network access ● SD card slot: For software updates; must be inserted for network (LAN) ● USB: For software updates/data collection
Minimum installation area	1200 mm x 640 mm
Exposure to magnetic fields in installation room	<p>Avoid exposure to strong magnetic fields (e.g. monitors, high-voltage cables or high-voltage transformers), because external magnetic fields will influence the measuring accuracy of the magnetic sensor.</p> <p>Maintain a minimum distance of two meters to the product from mobile end devices which are switched on.</p>
Type label on back side of machine	<div>  <div> G+D Currency Technology </div> <div> Prinzregentenstrasse 159, 81677 Munich, Germany </div> </div> <div> Banknote Processing Maschine Model ProNote 1.5F YoM 2019 Serial-No. PN1551000001 Input 100-240V AC, 50/60Hz 1.5A Fuse 4A/250V Quick-break Made in China </div> <div>  </div>
	<div>  <div> G+D Currency Technology </div> <div> Prinzregentenstrasse 159, 81677 Munich, Germany </div> </div> <div> Banknote Processing Maschine Model ProNote 1.5 YoM 2019 Serial-No. PN1501000001 Input 100-240V AC, 50/60Hz 1.5A Fuse 4A/250V Quick-break Made in China </div> <div>  </div>

5 Installation

The following must be observed during the installation.

5.1 Transport

Please take note of the following information during transport.

Make sure that the unloading area at the installation site is dry and protected from the elements.

Please take note of the following safety information during transport.



WARNING

Incorrectly transporting heavy equipment

Danger of personal injury, damage to property and to a loss of warranty

When transporting the machine, follow the legal regulations on transporting heavy equipment.

- Use appropriate lifting and transport equipment.
- Use personal protective equipment.
 - Safety shoes
 - Gloves



DANGER

Danger of electric shock

Danger of death or serious injury from electric shock

Always unplug the machine by pulling on the plug and never by pulling on the cable.



NOTICE

Existing plug connections

Risk of damage to the machine during transportation.

Unplug all plug connections.

5.1.1 Transport Inside Buildings

You can transport the ProNote 1.5/1.5F product inside buildings without special packaging.

You must carry the ProNote 1.5/1.5F product as follows:

One Person

- [1] Grasp the handles with the fingertips of both hands.

- [2] Hold the machine against your upper body.
- [3] Support the machine with your forearms at either side.

Two People

- [1] Two people grasp the handles with the fingertips of one hand.
- [2] Both people support the machine with their other hand on the rear panel.

5.1.2 Transport Outside of Buildings

When transporting the product ProNote 1.5/1.5F outside of buildings you must transport it in the original packaging or equivalent.

5

5.2 Unpacking

The packaging consists of the following components:

- Accessories located in the foam packing
 - Any supplied cleaning aids (e.g. brush and cleaning cloth) and documentation
- Foam packing
- Outer cardboard box

The power cable is supplied separately.

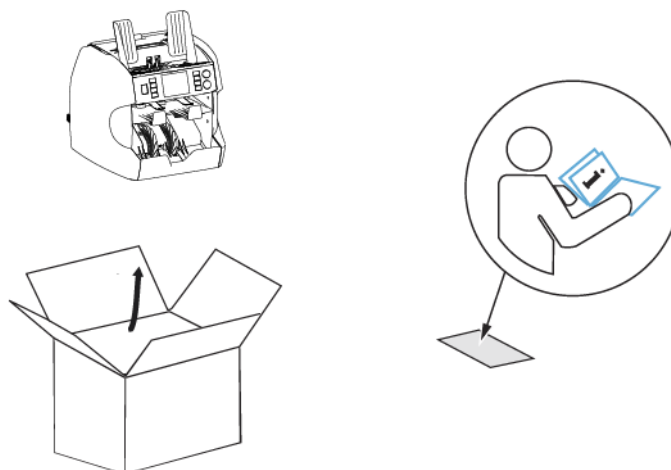


Figure 7: Unpacking

Procedure

- [1] If shipped on a pallet, remove the cardboard box from the wooden shipping pallet.

**Important!**

Note the following:

- If two ProNote 1.5/1.5F machines are shipped in one shipping box, remove each of the cardboard boxes.
- Remove any plastic sealing straps wrapped around the cardboard box.

**Important!**

If the seal is broken or damaged, check the content before signing the receipt.

- [2] Carefully cut open the adhesive tape on the outer cardboard box and open it.
- [3] Remove the accessories from the top.
- [4] Gently pull the ProNote 1.5/1.5F machine out of the cardboard box and remove any foam packing.

**Important!**

You can also place the cardboard box on the side and then remove the machine.

- [5] Remove the ProNote 1.5/1.5F machine from the plastic bag.

**Important!**

Check the machine for any damage during transport.

- [6] Retain the packaging for possible future transport.

5.3 Installing and Connecting

Requirement

The machine is unpacked.

Items Supplied

Check the items supplied:

- ProNote 1.5/1.5F machine

External devices (e.g. such as printers, or external displays) are optional and must be ordered separately.

The mains cable (country-specific) is supplied separately.

You will find the connections on the rear of the machine.

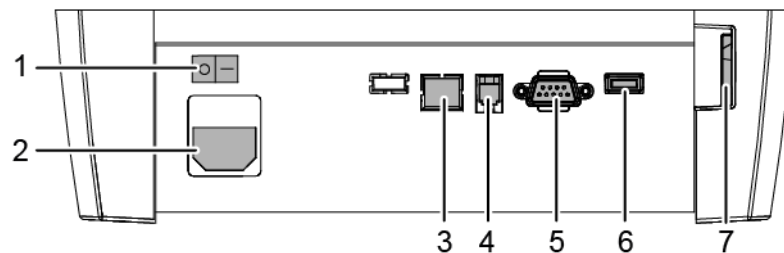


Figure 8: Connections

- 1 Power switch
- 2 Connection for power cable
- 3 Network (LAN) RJ45
- 4 External printer RJ11
- 5 External display RS-232
- 6 USB
- 7 SD card slot



DANGER

Danger of electric shock

Damaged cables or plugs can cause electric shock, short circuits, fire, etc. This may result in death or serious injury.

- Ensure that plugs or cables are not crushed or placed under extreme weight.
- Ensure that the cables are routed safely.
- Ensure that the cables do not hang out.



CAUTION

Cables are routed along the floor.

Danger of tripping

Make sure that all cables are routed safely.

Procedure

**NOTICE**

Skewed installation of the machine/device

Risk of impaired function

1. Make sure the machine/device is on a horizontal table top.
2. Make sure that no objects, such as pens or screwdrivers, are located underneath the machine/device.

- [1] Place the machine on a suitable, sufficiently stable surface.
- [2] Make sure that the machine and all cable connections are easily accessible.
- [3] Make sure that the machine is easy to open.
- [4] Connect the power cable (2).
- [5a] Connect LAN/network (3); requires that SD card (7) is connected.
- [5b] Connect external printer (4).
- [5c] Connect external display (5).
- [5d] Connect USB device (6).
- [6] For software updates, insert SD card (7).

5.4 Disposal

Dispose the transport packaging and the product after the discontinuation of use according to the local legal requirements.



6 Operation

This chapter contains information on how to operate the machine.
Please note the following:



NOTICE

Ensure that no metal objects (for example, staples) and/or liquids find their way into the machine/device.

Risk of damaged machine/device

If metal objects and/or liquids get into the machine/device:

1. Switch off the machine/device.
2. Disconnect the machine/device from the power supply.
3. Have the machine/device checked by qualified personnel before continuing work.



Important!

You may need to set the language of the user interface via the user menu if not already set.

→ *Section 7.15 “Changing Language of User Interface”, p. 83.*

6.1 Switching the Machine On and Off

This procedure describes how to switch on and off the machine.
The power switch is located on the rear side of the machine.

→ *Section 3.2.2 “Rear View”, p. 18*

Switching On

- [1]** Press the main power switch to the on position (i.e. opposite position of **O**).

⇒ A short self-test is performed and the machine is switched on.

After booting up, the main screen appears and the machine enters the ready state.

Switching Off



Important!

All unsaved results will be deleted when the machine is switched off.

- [2]** Print or save your results if necessary,
[3] Press the power switch to the position **O**.

⇒ The machine is switched off.

6.2 Selecting User

The procedure describes how to select between four users.

Requirements

- The machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*
- The number of operators has been defined by service via the **Operator Set** menu of the maintenance menu.
→ *"Maintenance Menu" of Service Manual*
- Settings for users are saved.
→ *Section 7.5 "Saving User Settings", p. 71*

Procedure

6



Important!

The touchscreen provides similar functionality as many keys of the control panel.

- [1]** Depending on the user, hold down either **F1** or **F2** key the control panel until the desired user is displayed (e.g. users 1 and 3 via **F1** and users 2 and 4 via **F2**). As an alternative, press the **Op** symbol on the touchscreen to select the user.

→ *Section 3.3.1 "Keys of the Control Panel", p. 20*

⇒ The user is displayed (e.g. "Op 1" for user 1).

Result

⇒ The current user is selected.

6.3 Counting and Sorting Banknotes

6.3.1 Suggestions for Good Banknote Feeding

Checking Banknotes

- Remove banknotes which are wet, dirty, spoiled, severely damaged or mixed with alien substances.
- Check for bad quality banknotes and remove kinks, folds and dog ears.
- Check the note bundle for foreign objects which could jam the note path or even damage the sensors (e.g. coins, clamps, paper clips, rubber bands, dust, etc.).

Feeding Banknotes

- Based on the size of the banknotes, adjust the left and right singler guide to a suitable position.
- Properly arrange banknotes before placing them onto the singler. Align all the corners and edges of the notes, since unevenness could cause errors.
- Fan bundles to avoid banknotes from sticking to each other.
- Place the bundle with the aligned side towards the singler. Always place the banknotes from above and centered onto the singler.
By default, the machine will then start counting automatically.
- To achieve a good feeding even with bad quality notes, you may guide the bundle gently with 2 fingers while counting.
Before counting, hit the bundle at the long side on a bench to align the notes.
- Take care that the notes do not move sideways on the singler.

6.3.2 Counting Banknotes

This procedure describes how to count and sort banknotes using the counting modes available on your ProNote 1.5/1.5F banknote processing machine.

Requirements

- The machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*
- The banknote guides of the machine have been adjusted according to the banknote size.
- User settings have been configured accordingly (e.g. automatic printing/sending of counting results or deposit XML file, serial number recording, reject pocket capacity, configuration mode, deposit XML report, language, network settings, **ADD** function, batch setup, etc).
→ *Chapter 7 "User Menu", p. 65*
- Service settings for your machine have been made (e.g. **MULT MIX** mode, setup for deposit XML file transfer, etc.).
→ *"Maintenance Menu" of Service Manual*



Important!

If **AUTO** is displayed, the first banknote recognized will be counted (e.g. EURO, USD, etc.). This also applies for **COUNT** mode.

Procedure

Assumption is made that any functions such as **ADD** or **BATCH** have been enabled as needed.

- *Section 6.6 “Adding Counting Results”, p. 46*
 → *Section 6.7 “Enabling and Disabling Batch Counting”, p. 47*

**Important!**

The touch screen provides similar functionality as many keys of the control panel.

- [1]** Press the currency key to select the desired currency.

TIP: As an alternative, use the touch screen.

→ *Section 6.4 “Selecting the Currency”, p. 44*

⇒ The selected currency is displayed.

**Important!**

Only the modes which are configured are displayed.

- [2]** Press the **MODE** key on the control panel to select the desired mode (e.g. **MIX** or **SINGLE**, **COUNT** or other combinations with face or orientation and emission sorting). For ProNote 1.5F, additional fitness sorting modes are available.

→ *Section 3.4 “Counting Modes”, p. 24*

⇒ The selected mode is displayed.

**Important!**

- Be careful when placing banknotes on the singler. Keep your hands away from the singler and stacker while counting and sorting banknotes.
- Pay attention to the suggestions for good banknote feeding.
 → *Section 6.3.1 “Suggestions for Good Banknote Feeding”, p. 40*

- [3]** Gently place the banknotes to be sorted to the singler. Always place the banknotes from above and centered onto the singler.

⇒ The counted banknotes are sorted to the stacker compartment and all other banknotes (e.g. suspicious or unrecognized banknotes or banknotes not meeting the mode criteria) are sorted to the reject compartment.

The display shows the counting results (e.g. amount and quantity of banknotes).



Important!

If the reject compartment contains rejects, the status LED illuminates. You can display the reject details via the **DETAIL** key or pressing **Reject** on the touch screen.

→ *Section 6.11 “Displaying Reject Details”, p. 59*



Important!

In case of an error message, follow the instructions on the screen (e.g. remove the last banknote or remove all banknotes and pass again).

→ *Chapter A “Error Messages”, p. 111*

[4] After passing the banknotes, remove them from the stacker.

⇒ Depending on the configuration, the following occurs:

- The displayed totals will be cleared for next passing of banknotes.
- If configured, the XML deposit report is sent and the deposit receipt is printed.

If transfer fails, you are informed that results will be saved on SD card if configured.



Important!

When the **ADD** function is enabled, note the following behavior:

- The running total is displayed until cleared again (e.g. via **F2** key with confirmation).
- If you press the **Start/Clear** before removing banknotes from the output stacker, the last stacked banknotes will not be added to the accumulated total (e.g. this behavior may vary depending on the software being used).

Options

[5] Other processing options after processing a deposit:

[5a] **Viewing Details and Performing Manual Reconciliation**

[5a-1] Press the **DETAILS** key on the control panel.

⇒ A detailed screen of counting results displayed.

[5a-2] To view details and perform manual reconciliation, perform related procedure.

→ *Section 6.9 “Viewing Deposit Details and Performing Manual Reconciliation”, p. 49*

[5a-3] To display reject details, perform the related procedure.

→ *Section 6.11 “Displaying Reject Details”, p. 59*

[5b] Printing Report

[5b-1] To print reports of the counting results, press the **F1** key.

→ *Section 6.13 “Printing Reports”, p. 60*

[5c] Performing Second Run When Sorting Unfit Banknotes (ProNote 1.5F Only)

During the first run, all fit banknotes are sorted to the stacker compartment and all unfit banknotes are sorted to the reject compartment. In a second run, you further sort the unfit banknotes of the first run to distinguish between:

- Unfit banknotes
- Suspects (e.g. counterfeits)

[5c-1] When requested, place the rejected banknotes from the first run onto the singler and sort again.

⇒ All unfit banknotes are sorted to the stacker compartment and all suspects (e.g. counterfeit) are sorted to the reject compartment.

[5d] Performing Fitness Sorting and Reconciliation According to ECB Specification (ProNote 1.5F Only)

[5d-1] To perform fitness sorting and reconciliation in accordance with the ECB specification, refer to the separate procedure.

→ *Section 6.10 “Performing Fitness Sorting According to ECB Specification (ProNote 1.5F)”, p. 54*

6.4 Selecting the Currency

The procedure describes how to select the currency to be used.

Requirements

- The machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*
- Currency settings are set.
→ *"Maintenance Menu" of Service Manual*

Procedure



Important!

The touchscreen provides similar functionality as many keys of the control panel.



Important!

If you hold down the currency selection key longer, the **Quick CUR Selection** dialog will be displayed for selecting the currency.

- [1] Press the currency selection key on the control panel and press again until the desired currency is displayed.

As an alternative, press the displayed currency on the touch screen (e.g. EUR) and select the select the currency from the **Quick CUR Selection** dialog.

→ *Section 3.3.1 "Keys of the Control Panel", p. 20*

⇒ The currency is displayed.

Result

⇒ The currency is selected.

6.5 Selecting the Operating Mode

The procedure describes how to select the operating mode to be used. For more information on the available operating modes, refer to the referenced section below.

→ *Section 3.4 "Counting Modes", p. 24*

Requirements

- The machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*
- Modes to be used are enabled.
→ *Section 7.13 "Configuring the Mode", p. 80*

Procedure

**Important!**

The touchscreen provides similar functionality as many keys of the control panel.

- [1]** Press the **MODE** key on the control panel and press again until the desired mode is displayed.

As an alternative, press the current mode displayed on the touchscreen and select the mode from the **Mode Selection** dialog.

→ *Section 3.3.1 “Keys of the Control Panel”, p. 20*

⇒ The mode is displayed.

Result

⇒ The mode is selected.

6

6.6 Adding Counting Results

This procedure describes how to add counting results to previous counting results until cleared again (e.g. via the **F2** key). Also referred to as accumulation mode or cumulative counting. All banknote bundles will be counted together instead of restarting the counting with every new bundle.

Clearing the Accumulated Total

When the **ADD** function is activated, the lower right corner of the screen displays “Σ:0”. This shows the total value of the counted notes after removing the notes from the stacker.

- **F2** key

Reset the total value after confirmation.

- **Start/Clear** key

You can remove last stacked banknotes without accumulating them via the **Start/Clear** key (this behavior may depend on the software version you are using).

Requirements

- The machine is switched on.
→ *Section 6.1 “Switching the Machine On and Off”, p. 39*
- The **ADD** function is enabled via the **ADD Function** menu of the user menu.
→ *Section 7.20 “Enabling ADD Function”, p. 89*

Procedure

**Important!**

The touchscreen provides similar functionality as many keys of the control panel.

- [1]** Press the **ADD** key on the control panel.
 - *Section 3.3.1 “Keys of the Control Panel”, p. 20*
 - *Section 3.3.2 “Touchscreen Display”, p. 22*
 - ⇒ **ADD** is displayed.

When counting banknotes, the results will be added to the previous counting results until cleared again (e.g. via **F2** key).
- [2]** To disable again, select press the **ADD** key on the control panel.

6.7 Enabling and Disabling Batch Counting

This procedure describes how to enable and disable the batch counting function. A batch is where the machine is set to count a specific number of notes. When the specified number is reached, the machine will stop automatically. After you remove the banknotes from the stacker, the counter will begin counting the next batch.

For batch mode, you enter the batch stop limit, indicating when the machine should stop. This allows you to stack the banknotes according to the batch amount specified.

Requirements

- The machine is switched on.
 - *Section 6.1 “Switching the Machine On and Off”, p. 39*
- The batch settings are configured via the **Batch Setup** menu of the user menu.
 - *Section 7.22 “Setting Batch Setup”, p. 91*

Procedure

**Important!**

The touch screen provides similar functionality as many keys of the control panel.

**Important!**

In previous software versions, you were required to press the **BATCH** key on the control panel and press again until the desired amount was displayed (e.g. 200, 100, 50, 25, 20, 10, or none). In newer software versions, The **Batch Setup** dialog is displayed for entering the batch value (default: 100).

- [1] Press the **BATCH** key and enter the amount using the numeric keys (e.g. default: 100) and confirm by pressing the return key symbol.

Use the back key on the touchscreen to correct a wrong entry.

TIP: If using a touchscreen, press the **B:---** symbol on the touchscreen, enter the amount using the numeric keys (e.g. 20) and confirm by pressing the return key symbol.

→ *Section 3.3.1 "Keys of the Control Panel", p. 20*

⇒ The batch stop limit is displayed.

Result

- ⇒ The batch function is enabled or disabled. If enabled, the machine prompts you when the specified batch stop amount is reached.

6.8 Reducing Noise and Counting Speed

This procedure describes how to reduce noise and counting speed when processing banknotes.

Requirements

- You are counting or sorting banknotes on the banknote processing machine.

Procedure

**Important!**

The silencing symbol is located below the **BATCH** key on the control panel.

- [1] During processing, press the silencing key on the control panel.

→ Section 3.3.1 “Keys of the Control Panel”, p. 20

Result ⇒ The noise and counting speed are reduced.

6.9 Viewing Deposit Details and Performing Manual Reconciliation

After processing deposits you can press the **DETAIL** key to view deposit details and perform manual reconciliation of rejected banknotes.

Requirements

- You have processed banknotes and want to view deposit details or perform manual reconciliation of unfit notes in the reject stacker.
- Print and communication settings have been made (**AUTO-PRINT, DATA-SEND**).
→ Section 7.3 “Setting Print & Communication”, p. 69
- Mode and deposit report are configured.
→ Section 7.13 “Configuring the Mode”, p. 80
→ Section 7.14 “Configure XML Report”, p. 82

Viewing Deposit Details

- [1] After performing the deposit, press the **DETAIL** key to view details (e.g. denomination details).

⇒ The detailed screen is displayed.



Important!

You can press the **ADD** key to change between views (e.g. rejected notes, stacked serial numbers, rejected serial numbers, etc.).

- [2] Rotate the **MENU** dial on the control panel to view more details (e.g. rejected banknotes).

Performing Manual Reconciliation of Rejected Banknotes

Manual reconciliation is necessary when the reject stacker contains unfit banknotes to be accounted for in the deposit results. During manual reconciliation, it is also possible to enter total values of coins.



Figure 9: Screen Before Reconciliation

**Important!**

Do not remove the banknotes from the output stacker.

- [3] Remove the rejected banknotes from the reject stacker (not from the output stacker).

- [4] Press the **DETAIL** key.

⇒ The reconciliation screen is displayed.

500 x	0 +	0 =	0
200 x	0 +	0 =	0
100 x	0 +	0 =	0
50 x	5 +	0 =	250
20 x	0 +	0 =	0
10 x	0 +	0 =	0
5 x	0 +	0 =	0
Total pcs: 5		Reject: 1	
Coin: 0.00	EUR		250.00

- [5] Touch the screen.

⇒ One of the lines is highlighted and reconciliation is activated.

500 x	0 +	0 =	0
200 x	0 +	0 =	0
100 x	0 +	0 =	0
50 x	5 +	0 =	250
20 x	0 +	0 =	0
10 x	0 +	0 =	0
5 x	0 +	0 =	0
Total pcs: 5		Reject: 1	
Coin: 0.00		EUR 250.00	

[6] Navigate to the desired row by rotating the **MENU** dial.

⇒ The row of the of the selected denomination is highlighted.

500 x	0 +	0 =	0
200 x	0 +	0 =	0
100 x	0 +	0 =	0
50 x	5 +	0 =	250
20 x	0 +	0 =	0
10 x	0 +	0 =	0
5 x	0 +	0 =	0
Total pcs: 5		Reject: 1	
Coin: 0.00		EUR 250.00	

[7] Touch the column (or press the **MENU** dial) for entering the number of rejects in the third column.

⇒ The field for entering rejected banknotes is highlighted in red.

500 x	0 +	0 =	0
200 x	0 +	0 =	0
100 x	0 +	0 =	0
50 x	5 +	1 =	300
20 x	0 +	0 =	0
10 x	0 +	0 =	0
5 x	0 +	0 =	0
Total pcs: 5		Reject: 1	
Coin: 0.00		EUR 300.00	

- [8] Enter the number of reject by rotating the **MENU** dial and confirm afterwards.

⇒ The color changes to gray and the number of rejected banknotes is displayed.



Important!

The total denomination value and the total deposit value are updated accordingly. The total pieces and number of rejects at the bottom remain unchanged as in the original screen.

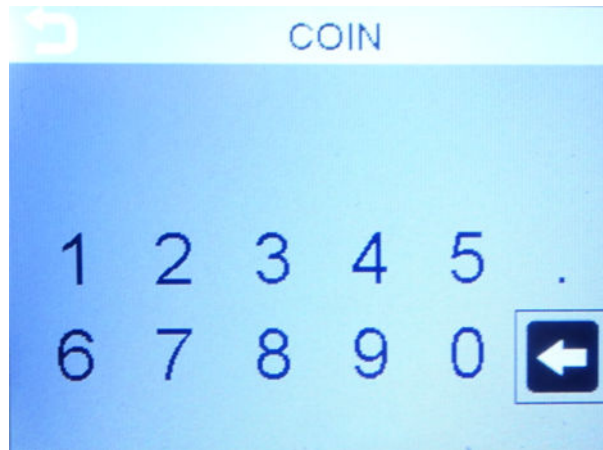
500 x	0 +	0 =	0
200 x	0 +	0 =	0
100 x	0 +	0 =	0
50 x	5 +	1 =	300
20 x	0 +	0 =	0
10 x	0 +	0 =	0
5 x	0 +	0 =	0
Total pcs: 5		Reject: 1	
Coin: 0.00		EUR 300.00	

- [9] To reconcile coins, navigate to the coin (appears gray) area and press the touch screen (or press the **MENU** dial).

⇒ The coin keypad is displayed.

**Important!**

A minimum of three digits and two decimal digits is allowed.



- [10]** Enter a value via the touch keypad and press the **MENU** key to confirm.

⇒ The row changes to gray again.

- [11]** Press the **DETAIL** dial to return to the deposit screen.

⇒ The screen now displays the reconciliation results (i.e. value of pieces and sum of counted banknotes plus reconciled banknotes).



Figure 10: Screen After Reconciliation

When you print the reports, all values are updated accordingly.

6.10 Performing Fitness Sorting According to ECB Specification (Pro-Note 1.5F)

This procedure describes how to perform fitness sorting according to the ECB specification (i.e. perform manual reconciliation of rejected notes to assure that total deposit values are correct). When sorting banknotes in this fitness mode, fit banknotes are sent to the output stacker (referred to here as **Down**) and unfit banknotes are sent to the reject stacker (referred to here as **Up**).

In case of rejected banknotes, these may be either:

- Unfit notes only
- Suspect notes only
- Unfit and suspect notes (both)

The value and count of both fit and unfit notes and total deposit value are visible at the end of deposit processing. If no suspect notes are sent to the reject stacker, the deposit can be completed without a second run.

Requirements

- Fitness mode is selected.
→ *Section 6.5 "Selecting the Operating Mode", p. 45*
- Print and communication settings have been made (**AUTO-PRINT, DATA-SEND**).
→ *Section 7.3 "Setting Print & Communication", p. 69*
- Mode and deposit report are configured.
→ *Section 7.13 "Configuring the Mode", p. 80*
→ *Section 7.14 "Configure XML Report", p. 82*
- ECB Function is enabled by service.
→ *"Maintenance Menu" of Service Manual*

Procedure

You have selected fitness mode and the ECB function has been enabled by service.

[1] Insert the banknotes onto the singler.

⇒ Depending on the results, the following cases are differentiated:

- Reject stacker does not contain any notes
- Reject stacker contains unfit notes only
- Reject stacker contains suspect notes only
- Reject stacker contains both unfit and suspect note

Cases

[2] Depending on the state of the reject stacker, perform the following procedures:

[2a] Reject Stacker Does Not Contain Any Notes

[2a-1] Remove banknotes from stacker.

⇒ The following occurs:

- When configured, the deposit report is sent and the deposit receipt is printed.
- Status **Ready for FIT Sorting** is displayed for further processing.

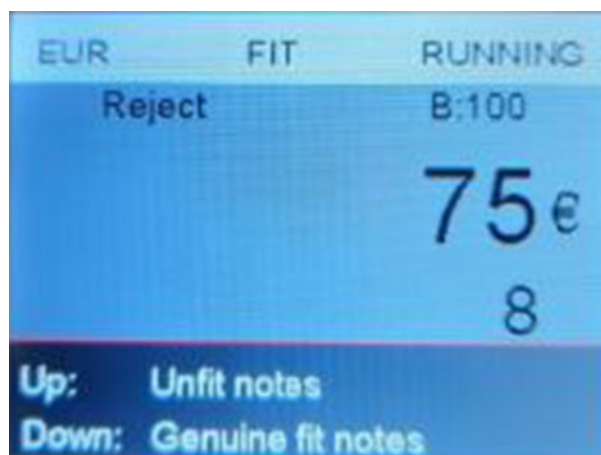
[2b] Reject Stacker Contains Unfit Notes Only

The reject stacker contains unfit notes only (i.e. no suspect notes or combinations of unfit notes and suspect notes). The deposit is counted and the value and count of fit notes is displayed (e.g. 8 pieces of fit banknotes, 75 Euro total).



Important!

Since the number and value of unfit banknotes is already known, a second run is not necessary.

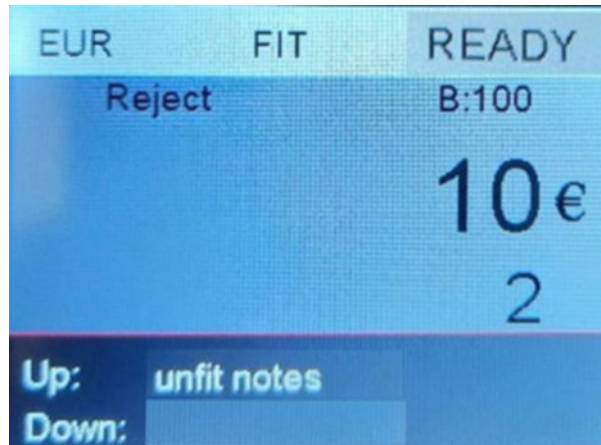


[2b-1] Remove banknotes from the output stacker.

⇒ The following occurs:

- The value and pieces of unfit notes from the reject stacker is displayed (e.g. 2 pieces of unfit banknotes, 10 Euro total).

- Status in upper line changes from **RUNNING** to **READY**.
- Status of down stacker (i.e. **Genuine fit notes**) disappears.



[2b-2] Remove unfit banknotes from the reject stacker.

⇒ The final deposit results are displayed and the total line is updated accordingly.

EUR	Deposit Result
ATM/Fit	75 € 8 pcs
Unfit	10 € 2 pcs
Recon.	0 € 0 pcs
Total	85 € 10 pcs
PRINT / OK	F2

Figure 11: Deposit Information



Important!

If any manual reconciliation is necessary, you can press the **Detail** key to view details and perform manual reconciliation. This is helpful if some notes cannot be processed due to very bad quality and have been separated before. After you leave the screen, the deposit information is displayed again.

[2b-3] Press the **F1** key or touch **PRINT/OK**.

⇒ The following occurs.

- When configured, the deposit report is sent and the deposit receipt is printed.
- Status changes to **Ready for FIT Sorting** for further processing.

[2c] Reject Stacker Contains Suspect Notes Only

The reject stacker contains suspects only (i.e. no unfit notes or combinations of suspect notes und unfit notes). The deposit is counted and the value and count of fit notes is displayed (e.g. 8 pieces of banknotes, 75 total).



[2c-1] Remove banknotes from the output stacker.

⇒ Status in the upper line changes from **RUNNING** to **READY**.

[2c-2] Remove suspects from the reject stacker.

⇒ The reconciliation screen is displayed for performing manual reconciliation. No second run is necessary, since the reject stacker contains suspect banknotes only.

[2c-3] Perform manual reconciliation and leave the screen.

→ [2b-2]

⇒ The final deposit information is displayed.



Important!

If any manual reconciliation is necessary, you can press the **Detail** key. In this case the reconciliation screen is displayed. This is helpful if some notes cannot be processed due to very bad quality and have been separated before. When you leave the screen, the deposit information is displayed again.

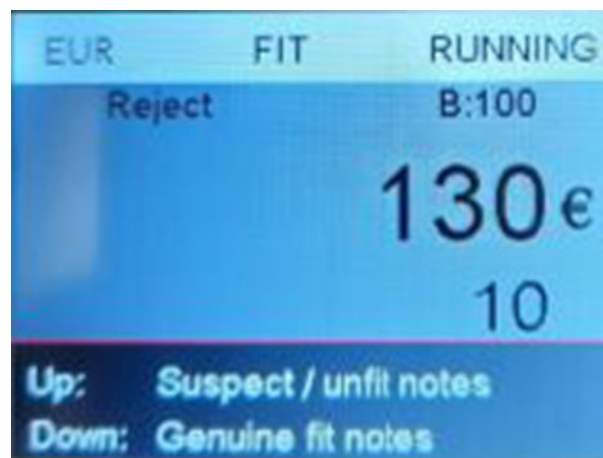
[2c-4] Press the **F1** key or touch **PRINT/OK**.

⇒ The following occurs

- When configured, the deposit report is sent and the deposit receipt is printed.
- Status changes to **Ready for FIT Sorting** for further processing.

[2d] Reject Stacker Contains Both Unfit and Suspect Notes

The reject stacker contains both unfit notes and suspect notes. The deposit is counted and the value and count of fit notes is displayed (e.g. 10 pieces of banknotes, 130 Euro total).



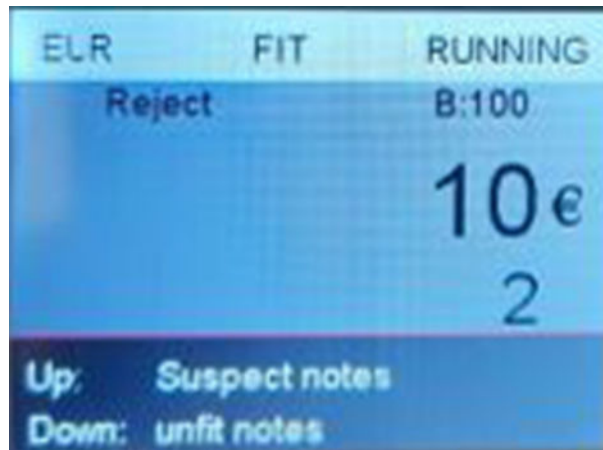
[2d-1] Remove banknotes from the output stacker.

[2d-2] Remove the suspect / unfit notes from the reject stacker.

⇒ The message **Start 2nd RUN** is displayed.

[2d-3] Place the rejected notes onto the singler.

⇒ Second run is executed and the results are displayed (e.g. 2 pieces of banknotes, 10 Euro total).



[2d-4] Perform subsequent steps similar to steps for suspect notes.

→ [2c-1]

6

6.11 Displaying Reject Details

This procedure describes how to display reject details. When a banknote is sorted to the reject compartment during the counting and sorting process, you can evaluate the error details.

Requirements

- The reject compartment contains rejected banknotes.

Procedure

[1] Press the **DETAIL** key on the control panel or press **Rejects** on the touchscreen.

→ Section 3.3.1 “Keys of the Control Panel”, p. 20

⇒ A reject list of denominations is displayed.



Important!

TIP: You can press the **ADD** key to change between views which show details of counting results, rejects and rejected serial numbers.

[2] Press the **MENU** key on the control panel to view the error description of the rejected notes.

⇒ The error description of the rejected notes is displayed for further evaluation.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.

- [3] Turn the **MENU** dial on the control panel and select the next one.

Results

⇒ The reject details of the rejected banknote are displayed for further evaluation.

6.12 Starting Counting and Clearing

This procedure describes how to start counting and clear results.

Requirements

- The banknote processing machine is switched on.
→ Section 6.1 “Switching the Machine On and Off”, p. 39

Procedure

- [1] Press the **Start/Clear** key on the control panel.
→ Section 3.3.1 “Keys of the Control Panel”, p. 20

Depending on the action being performed, the button has the following functions:

- Start counting
- Clear counting result when pressed and held down for a few seconds
- When pressed in combination with the **ADD** function on some machines, allows you to remove last stacked banknotes without accumulating them (this behavior may vary depending on the software you are using).
- When selecting settings, return to the previous screen or quit/leave the menu

Result

⇒ The counting and clearing action is performed accordingly.

6.13 Printing Reports

The procedure describes how to print deposit reports based on machine activity.

Requirements

- The machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*
- The printer is connected to the proper port and switched on.
- You have counted or sorted banknotes on the banknote processing machine.

Configuration

- The print function has been assigned to the **F1** key (default).
→ *Section 7.4 "Setting Function of User-Defined Keys", p. 70*
- Settings for print and communication (e.g. **AUTO-PRINT**, **DATA-SEND**) as well as transfer of deposit report (e.g. **Xml Report**) have been configured .
- → *Section 7.3 "Setting Print & Communication", p. 69*
→ *Section 7.14 "Configure XML Report", p. 82*
- For automatic transfer of the deposit XML file when removing stacked banknotes, the connection to the FTP server, the Pro-Note 1.5/1.5F banknote processing system must be established and the corresponding settings must be made by service.
→ *"Transferring Deposit XML File" chapter of Service Manual*

Procedure

**Important!**

The touchscreen provides similar functionality as many keys of the control panel.

- [1]** Press the **F1** key or **PRINT** on the touch screen.
→ *Section 3.3.1 "Keys of the Control Panel", p. 20*
⇒ The "Report" screen is displayed.
- [2]** Select the desired report by confirming with the **MENU** key or touching the report on the touch screen.
 - **Standard Report**
 - **Deposit Balance Report**
 - **Daily Balance Report**
 - **Customer Balance Report**
 - **Operator Balance Report**
 - **Reject Report**
 - **Machine Balance Report**
 ⇒ If configured, a message is displayed if the report is being printed or sent.

**Important!**

If the report is not printed, do the following:

- Check if the printer is switched on.
- Check if the printer is connected to the proper port on the back-side of the machine.
- Make sure that the **F1** key on the control panel has been configured for printing. When properly configured, the text **PRINT** will be display next to it.

Result

⇒ The current user is selected.

6.14 Working with the SN Search List

This procedure describes how to manually add, delete and edit serial numbers in the serial number search list (blacklist). The serial number search list is used to identify banknotes to be rejected (e.g. serial numbers of banknotes not to be accepted). Using this procedure, you can add only a limited amount of serial numbers.

For more sophisticated serial number functionality, refer to the "BlackList" function available in the TE Controller tool or ask your service specialist.

→ *"SN Search (BlackList)" chapter of Service Manual*

Requirements

- Serial number recording is enabled via the **SERIAL** menu.
→ *Section 7.8 "Enabling and Disabling Serial Number Recording", p. 75*
- Serial number detection is supported for the selected currency and operating mode.
- Up to 32 serial numbers are supported using this functionality.

Procedure

[1] Access the **SN search list** screen via:

- User menu
Rotate the **MENU** dial until **SN search list** is displayed and press to confirm..
- Details (statistics) screen
After you have counting banknotes and pressed the **DETAIL** key to show details (statistics), hold down the **MENU** key.

⇒ The **SN search list** screen is displayed.

Options

[2] Perform one of the following procedures:

[2a] Adding Serial Numbers Last Stacked Banknotes via the Details (Statistics) Screen

You are in the details (statistics) screen.

[2a-1] To add serial numbers of last stacked banknotes to the SN search list, hold down the following key for a one or two seconds:

ADD Add the serial number of the last stacked banknotes to the SN search list.

BATCH Add the serial numbers of the last 32 banknotes in the stacker to the SN search list.

[2a-2] To edit the serial number in the **SN search list** screen afterwards,, hold down the **MENU** key.

⇒ The "SN search list" dialog displayed.

[2b] Adding, Deleting and Editing Serial Numbers in the SN Search List

You are in the **SN search list** screen.



Important!

You can also enter the SN search list by holding down the **MENU** key while viewing details of counting results via the **DETAIL** key.

[2b-1] To add, delete or edit serial numbers in the SN search list, press the corresponding key:

F1 Add and edit a new (empty) serial number. Use the touch keyboard to enter information.

F2 Delete the selected entry. To delete all entries, press and hold down the **F2** key.

MENU Edit the selected entry. Use the touch keyboard to enter information.

**Important!**

To enter a wildcard as part of the serial number, scroll forward or backward using the up and down keys and enter the “*” symbol for each digit to be used as wildcard.

**WARNING**

Loss of serial numbers when you switch off the machine.

Serial numbers will not normally be retained after you switch off the machine.

After adding, deleting or editing serial numbers in the **SN search list** screen, hold down the **MENU** key to save the settings to EEPROM.

[2b-2] To save the serial numbers to EEPROM after editing, hold down the **MENU** key.

⇒ A message informs you that the serial numbers were successfully saved.

7 User Menu

This chapter describes how to define settings via the user menu.

→ *Section 7.1 “How to Access the User Menu”, p. 65*

7.1 How to Access the User Menu

This procedure describes how to define user settings via the user menu.

Requirements

- The banknote processing machine is switched on.
→ *Section 6.1 “Switching the Machine On and Off”, p. 39*

Procedure



Important!

If the MENU Delay setting of the user is enabled, you may need to hold down for several of seconds.

→ *Section 7.19 “Setting Menu Button Delay”, p. 88*

- [1] Press the **MENU** dial on the control panel.
→ *Section 3.3.1 “Keys of the Control Panel”, p. 20*



Important!

If you are requested to enter a password, enter the correct password.

⇒ The **Use Menu** screen is displayed.



Important!

The touchscreen provides similar functionality as many keys of the control panel.

- [2] Rotate the **MENU** dial in either direction until a menu is reached and press again to accept.
⇒ The screen of the selected setting is displayed.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.

- [3] Rotate the **MENU** dial in either direction to select the desired setting and press the dial to accept the setting.
→ *Section 7.2 “Summary of User Menu”, p. 66*

⇒ A confirmation message displays that the action was successful.

Result

⇒ User settings are saved for future use.

7.2 Summary of User Menu

Overview of Menu Settings

When you press **MENU** on the control panel, the **User Menu** screen is displayed for defining user settings.

→ *Section 7.1 “How to Access the User Menu”, p. 65*

**Important!**

In many of the menus, selecting **BACK** takes you back to the previous menu and selecting **EXIT** exits the menu. Press the **Start/Clear** button to go back to a previous level

Setting	Description
PRINT & COMMUNICATION	Defines the setting for print key and selects whether AUTO-PRINT and DATA-SEND are set on or off (e.g. for printing or sending counting results). → <i>Section 7.3 “Setting Print & Communication”, p. 69</i>
F1 FUNCTION KEY	Defines the menu assignment for the F1 function key (e.g. assign print function to this key for printing reports). → <i>Section 7.4 “Setting Function of User-Defined Keys”, p. 70</i>
F2 FUNCTION KEY	Similar to the F1 function key above. Also used for clearing the total sum when using the ADD function.
USER SETTINGS	Saves settings for the up to four selectable operators. You can switch up to four operators on the ProNote 1.5/1.5F bank-note processing machine by pressing down the F1 and F2 keys for

Setting	Description
	several seconds on the control panel or via the "Op "symbol on the touch screen. → <i>Section 7.5 "Saving User Settings", p. 71</i>
DATE TIME	Selects the formats for date and time. → <i>Section 7.6 "Selecting Format for Date and Time", p. 72</i>
SPEED	Depending on the mode selected, allows you to select the speed (e.g. low speed, medium speed or high speed). → <i>Section 7.7 "Setting the Speed", p. 74</i>
SERIAL (= SERIAL NUMBER)	Here you can select whether serial number function is set on or off. When enabled, the "SN:" is displayed. If this setting is set on, processing speed may take longer. → <i>Section 7.8 "Enabling and Disabling Serial Number Recording", p. 75</i>
REJECT POCKET CAPACITY	Used to select the capacity of the reject pocket (e.g. 30, 50, 70 or 100). For capturing raw data, you may need to change the reject pocket capacity to the size of the counter of the raw data capturing software. → <i>Section 7.9 "Changing Reject Pocket Capacity", p. 76</i>
VERSION	Display system information, including version of hardware, software and other relevant information. → <i>Section 7.10 "Displaying Version (System Information)", p. 78</i>
ALARM BEEP	Used to select whether the alarm beep is set on, off or completely off. → <i>Section 7.11 "Setting Alarm Beep", p. 78</i>
cc Talk	Special-use function. Selects whether the cc Talk function is set on or off. → <i>Section 7.12 "Setting cc Talk", p. 79</i>
CONFIG MODE	Allows you to select the configuration mode on or off. The modes MIX , SINGLE and COUNT are always enabled. ProNote 1.5F: Also allows you to select which fitness mode is set on or off.

Setting	Description
	→ <i>Section 7.13 "Configuring the Mode", p. 80</i> IMPORTANT: If a mode is disabled, it will not be displayed when you press the MODE key on the control panel.
Xml Report (=Deposit XML Report)	Allows you to configure the settings of the deposit XML report for the specified modes (i.e. select whether automatic transfer is on or off). → <i>Section 7.14 "Configure XML Report", p. 82</i>
LANGUAGE	Used to select the language of the user interface. The currently supported languages are displayed (others on request). → <i>Section 7.15 "Changing Language of User Interface", p. 83</i>
Network Setting	Allows you to edit the network settings (e.g. Client IP, Server IP, Netmask, Gateway, Client, Server Port and MAC as well as FTP settings). → <i>Section 7.16 "Configuring Network Settings on ProNote 1.5/1.5F", p. 83</i>
Network Status	Shows whether the SD card is inserted and whether the network is connected. → <i>Section 7.17 "Displaying Network Status", p. 87</i>
Refuse paper notes	Special function which allows you to refuse paper notes. When enabled, polymer and paper notes are differentiated and paper notes are rejected. → <i>Section 7.18 "Refusing Paper Notes", p. 87</i>
MENU Button Delay	Selects whether the menu button delay is on or off (for normal users, this option is set to off). → <i>Section 7.19 "Setting Menu Button Delay", p. 88</i>
ADD Function	Selects whether the ADD key on the control panel is set on or off. The ADD function adds results to previous counting results until cleared again (e.g. by pressing the F2 key). → <i>Section 7.20 "Enabling ADD Function", p. 89</i>
STATISTICS	ProNote 1.5F. Displays statistics of the currency and denominations in form of a table (e.g. total, fit and unfit). → <i>Section 7.21 "Displaying Statistics (FIT/UNFIT)", p. 90</i>

Setting	Description
Batch Setup	Defines if Cur Batch is on or off and allows section of settings for Cur Batch Setup . → Section 7.22 "Setting Batch Setup", p. 91
Auto/Manual	Selects whether manual or automatic feeding is enabled the when you feed banknotes. → Section 7.23 "Setting Auto/Manual Feeding", p. 92
USER PARA DEF	Engineering use only. Used for refreshing the software when performing software updates. A warning message informs you before you continue. → Section 7.24 "Resetting Parameters to Factory Setting", p. 93
Station ID Setup	Provides a screen with keyboard for entering station ID setup if used, otherwise empty and not used. → Section 7.25 "Setting Station ID", p. 94
SN search list	Entry of serial numbers via the SN search list screen. Serial numbers detected will be rejected. → Section 7.26 "Using the SN Search List", p. 95
EXIT	Returns you to the main screen.

7.3 Setting Print & Communication

This procedure describes how to define the setting for print key and selects whether the **AUTO-PRINT** and **DATA-SEND** functions are set on or of (e.g. for automatically printing deposit report or sending deposit XML file). When both are set to on, the printing and sending are triggered when the reject and output stackers are emptied.

Requirements

- The machine is switched on.
→ Section 6.1 "Switching the Machine On and Off", p. 39

Procedure

- [1]** Press the **MENU** dial on the control panel.
⇒ The "User Menu" is displayed.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

The touchscreen provides similar functionality as many keys of the control panel.

- [2] Rotate the **MENU** dial until **PRINT & COMMUNICATION** is displayed and press the dial to select.
- ⇒ The "PRINT & COMMUNICATION" screen is displayed.

- [3] Rotate the **MENU** dial to the desired setting:

- **AUTO-PRINT**

Automatic printing of deposit report enabled or disabled after performing a deposit. When enabled, the report is printed automatically as standard report after deposit (i.e. machine emptied).

To print the report manually, the **Deposit Balance Report** can be selected via the **F1** key.

→ Section 6.13 "Printing Reports", p. 60

- **DATA-SEND**

Automatic sending of counting results enabled or disabled (e.g. sending deposit XML file).

NOTE: If sending is not possible due to a network failure, the deposit XML file will be saved temporarily to the inserted SD card until the network connection is available again.

- [4] Press the **MENU** dial to select.
- [5] Rotate the **MENU** dial to set on or off and press the dial to accept.
- ⇒ The print and communication setting is set on or off.

7.4 Setting Function of User-Defined Keys

This procedure describes how to assign functions of the user menu to the function keys. Afterwards, you can press the function key on the control panel to directly access the assigned function.

This is a type of shortcut which allows you to access a menu function without having to open the user menu first (e.g. assign the print function to the **F1** key).

Requirements

- The banknote processing machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*

Procedure

- [1] Press the **MENU** dial on the control panel.
→ *Section 3.3.1 "Keys of the Control Panel", p. 20*
⇒ The "User Menu" is displayed.



Important!

The touchscreen provides similar functionality as many keys of the control panel.

- [2] Rotate the **MENU** dial until the **F1 FUNCTION KEY** or **F2 FUNCTION KEY** submenus are displayed and press the dial.
→ *Section 7.2 "Summary of User Menu", p. 66*
- [3] Rotate the **MENU** dial to select the desired function to be assigned to the function key and press the dial.
⇒ A confirmation message displays that the assignment was successful. The function is assigned to the function key on the control panel.



Important!

To go back to the previous menu, press the **Start/Clear** key on the control panel.

Result

- ⇒ The function is assigned to the function key on the control panel and can be used for future use.

7.5 Saving User Settings

This procedure describes how to save settings for up to four users. You can switch between the users on the ProNote 1.5/1.5F banknote processing machine by pressing down the **F1** and **F2** keys for several of seconds on the control panel touching the "Op" symbol on the touch screen.

→ *Section 6.2 "Selecting User", p. 40*

Requirements

- The machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*

Procedure

- [1] Press **MENU** dial on the control panel.

⇒ The "User Menu" is displayed.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

The touchscreen provides similar functionality as many keys of the control panel.

- [2] Rotate the **MENU** dial until **USER SETTINGS** is displayed and press the dial to select.

⇒ The "USER SETTINGS" screen is displayed.

- [3] Rotate the **MENU** dial to select the desired setting:

- **USER1: SAVE**
Saves settings for first user.
- **USER2: SAVE**
Saves settings for second user.
- **USER3: SAVE**
Saves settings for third user.
- **USER4: SAVE**
Saves settings for forth user.

- [4] Press the **MENU** dial to accept.

⇒ The settings are saved to the selected user.

7.6 Selecting Format for Date and Time

This procedure describes how to select the format for date and time used by the machine (e.g. in printed reports).

Requirements

- The machine is switched on.
- → *Section 6.1 "Switching the Machine On and Off", p. 39*

Procedure

- [1] Press the **MENU** dial on the control panel.

⇒ The "User Menu" is displayed.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

The touchscreen provides similar functionality as many keys of the control panel.

[2] Rotate the **MENU** dial until the **DATE TIME** is displayed and press the dial to select.

⇒ The "DATE TIME" screen displays the following settings.

- **DATE FORMAT**
→ [3a-1]
- **DATE SET**
→ [3b-1]
- **TIME SET**
→ [3c-1]

**Important!**

Select **BACK** to return to the previous screen. Select **EXIT** to exit the user menu.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.

[3] Perform any of the desired procedures:

[3a] Setting Date Format

[3a-1] Rotate the **MENU** dial, select **DATE FORMAT** and press the dial to select.

⇒ The "DATE FORMAT" screen displays the following date formats:

- **DD-MM-YY**
- **MM-DD-YY**
- **YY-MM-DD**

[3a-2] Rotate the **MENU** dial, select the desired date format and press the dial accept.

⇒ A confirmation message displays that the action was successful.

[3b] Setting Date

[3b-1] Rotate the **MENU** dial until the **DATE SET** menu is displayed and press the dial.

⇒ The "DATE TIME" screen displays the date format which is currently selected (e.g. **DD-MM-YY**).

[3b-2] Rotate the **MENU** dial to set the day, month and year and press the dial to accept.

⇒ A confirmation message is displayed and the date is set.

[3c] Setting Time

[3c-1] Rotate the **MENU** dial until the **TIME SET** is displayed and press the dial to select.

⇒ The "TIME SET" screen displays the time **HH-MM-SS**.

[3c-2] Rotate the **MENU** dial to set the hour, minute and second and press the dial to accept.

⇒ A confirmation message displays that the action was successful.

Result

⇒ The format of date and time are changed.

7.7 Setting the Speed

This procedure describes how to set the speed for processing banknotes. Depending on the mode selected, allows you to select the speed (e.g. low , medium speed or high speed). By lowering the speed, noise is also reduced.

Requirements

- The machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*

Procedure

[1] Press the **MENU** dial on the control panel.

⇒ The "User Menu" is displayed.



Important!

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

The touchscreen provides similar functionality as many keys of the control panel.

- [2] Rotate the **MENU** dial until **SPEED** is displayed and press the dial to select.

⇒ The "SPEED" screen is displayed.

- [3] Rotate the **MENU** dial to select the desired speed:

- **SPEED L**
Low speed, also reduces noise
- **SPEED M**
Medium speed
- **SPEED H**
High speed

- [4] Press the **MENU** dial to accept.

⇒ The speed is changed accordingly.

7.8 Enabling and Disabling Serial Number Recording

This procedure describes how to enable and disable serial number recording when counting and sorting banknotes. If enabled, the serial number will also be displayed.

Requirements

- Banknotes have serial numbers which can be detected.

Procedure

- [1] Press the **MENU** dial on the control panel.

⇒ The "User Menu" screen is displayed.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

The touchscreen provides similar functionality as many keys of the control panel.

- [2] Rotate the **MENU** dial until the **SERIAL** setting is displayed and press the dial to select.

⇒ The "SERIAL" screen is displayed.



Important!

To go back to the previous menu, press the **Start/Clear** key on the control panel.

- [3] Rotate the **MENU** dial to the desired setting (on or off) and press the dial to accept.

⇒ A short confirmation message is displayed. Serial numbers of banknotes will be recorded when counting and sorting banknotes.



Important!

When serial number recording is enabled, **SN:** is displayed on the control panel. TIP: When you view counting results via the **DETAIL** key, you can press the **ADD** key to display serial number details. For more information on working with the serial number search list, refer to the procedure in this manual.

→ *Section 6.14 "Working with the SN Search List", p. 62*

⇒ Serial number recording is configured.

Result

7

7.9 Changing Reject Pocket Capacity

This procedure describes how to change the reject pocket capacity of ProNote 1.5/1.5F. This may be necessary, for example, for service purposes when capturing raw data.

Requirements

- The ProNote 1.5/1.5F banknote processing machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*

Procedure

- [1] Press the **MENU** dial on the control panel.

⇒ The "User Menu" is displayed.



Important!

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

The touchscreen provides similar functionality as many keys of the control panel.

- [2] Rotate the **MENU** dial until **REJECT POCKET CAPACITY** is displayed and press the dial to select.

⇒ The "REJECT POCKET CAPACITY" screen is displayed.

**Important!**

After reboot the configurable values remain. When selecting the red items (e.g. 70 or 100 notes), please consider that this may cause overfilling of the reject stacker and jams in case of poor banknote quality.

- [3] Rotate the **MENU** dial to the desired reject pocket capacity:

- **100 NOTES**
Extended capacity of 100 notes (red)
- **70 NOTES**
Extended capacity of 70 notes (red)
- **50 NOTES**
Maximum retained value after rebooting.
- **30 NOTES**

**Important!**

If capturing raw data, it is recommended to set the reject pocket size as follows:

- ProNote 1.5: 50
- ProNote 1.5F (newer models with ARM processor and most recent release of data capturing software): 50
- ProNote 1.5F (older models with older release of data capturing software data): 20

⇒ The confirmation message is displayed (e.g. "OK").

Result

⇒ The reject pocket capacity has been changed accordingly.

7.10 Displaying Version (System Information)

This procedure describes how to display system information, including version of hardware, software and other relevant information. This information is useful when contacting service or support.

Requirements

- The machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*

Procedure

[1] Press the **MENU** dial on the control panel.

⇒ The "User Menu" is displayed.



Important!

To go back to the previous menu, press the **Start/Clear** key on the control panel.



Important!

The touchscreen provides similar functionality as many keys of the control panel.

[2] Rotate the **MENU** dial until **VERSION** is displayed and press the dial to select.

⇒ The **SYSTEM INFORMATION** screen displays information such as machine type, serial number, pack, hardware, software, etc.

⇒ The version information is displayed.

7.11 Setting Alarm Beep

This procedure describes how to set the alarm beep function on, off or completely off.

Requirements

- The machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*

Procedure

[1] Press the **MENU** dial on the control panel.

⇒ The "User Menu" is displayed.



Important!

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

The touchscreen provides similar functionality as many keys of the control panel.

- [2] Rotate the **MENU** dial until **ALARM BEEP** is displayed and press the dial to select.

⇒ The "ALARM BEEP" screen is displayed.

- [3] Rotate the **MENU** dial to the desired setting:

- **ON**
Alarm beep is enabled.
- **OFF**
Alarm beep is disabled.
- **COMPLETELY OFF**
Alarm beep is completely switched off.

- [4] Press the **MENU** dial to accept.

⇒ The alarm beep is set accordingly.

7.12 Setting cc Talk

This procedure describes how to set cc Talk on or off. This is a special-use function only which is not normally used.

Requirements

- The machine is switched on.
→ Section 6.1 "Switching the Machine On and Off", p. 39

Procedure

- [1] Press the **MENU** dial on the control panel.

⇒ The "User Menu" is displayed.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

The touchscreen provides similar functionality as many keys of the control panel.

- [2] Rotate the **MENU** dial until **cc Talk** is displayed and press the dial to select.

⇒ The "cc Talk" screen is displayed.

[3] Rotate the **MENU** dial to the desired setting:

- **ON**
The cc Talk function is enabled.
- **OFF**
The cc Talk function is disabled.

[4] Press the **MENU** dial to accept.

⇒ The cc Talk function is set on or off.

7.13 Configuring the Mode

This procedure describes how to configure the mode selectable via the **MODE** key on the control panel. Allows you to select whether the configuration mode is set on or off.

Requirements

- The ProNote 1.5/1.5F banknote processing machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*

Procedure

[1] Press the **MENU** dial on the control panel.

⇒ The "User Menu" is displayed.



Important!

To go back to the previous menu, press the **Start/Clear** key on the control panel.



Important!

The touchscreen provides similar functionality as many keys of the control panel.

[2] Rotate the **MENU** dial until **CONFIG MODE** is displayed and press the dial to select.

⇒ The "CONFIG MODE" screen is displayed.



Important!

Note the following:

- The modes **MIX**, **SINGLE** and **COUNT** are always enabled.
- For more information on the counting modes, refer to the section of this manual.
→ *Section 3.4 “Counting Modes”, p. 24*
- For the counting modes, you can select whether automatic transfer of the deposit XML file is enabled or disabled when removing banknotes from the stacker.
→ *Section 7.14 “Configure XML Report”, p. 82*

[3] Rotate the **MENU** dial to select the mode.

→ *Section 3.4 “Counting Modes”, p. 24*

- **Mix(V)**
- **Single(V)**
- **Face(M)**, **Face(M+V)**, **Face(S)**, **Face(S+V)**
- **Orient(M)**, **Orient(M+V)**, **Orient(S)**, **Orient(S+V)**
- **COUNT**
- Additionally for ProNote 1.5F:
FIT, **SINGLE FIT**, **ATM FIT**, **Single ATM**



Important!

Some modes may not be available for all currencies (e.g. **FIT**, **ATM FIT**).

[4] Rotate the **MENU** dial to set **ON** or **OFF** and press the dial to accept.

⇒ The mode is set on or off.

Result

⇒ The mode has been enabled or disabled accordingly. If enabled, the mode will be displayed when you select the **MODE** key on the control panel.



Important!

If the mode is set to **OFF**, it will not be displayed when you select the **MODE** key on the control panel.

7.14 Configure XML Report

This procedure describes how to configure the XML deposit report for various modes (i.e. enable or disable automatic transfer of the deposit XML file when banknotes are removed from the stacker for various modes).

Requirements

- The ProNote 1.5/1.5F banknote processing machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*

Procedure

- [1]** Press the **MENU** dial on the control panel.
⇒ The "User Menu" is displayed.



Important!

To go back to the previous menu, press the **Start/Clear** key on the control panel.



Important!

The touchscreen provides similar functionality as many keys of the control panel.

- [2]** Rotate the **MENU** dial until **Xml Report** is displayed and press the dial to select.
⇒ The "Xml Report" screen is displayed.



Important!

For more information on the counting modes, refer to the corresponding sections.

→ *Section 3.4 "Counting Modes", p. 24*

→ *Section 7.13 "Configuring the Mode", p. 80*

- [3]** Rotate the **MENU** dial to select the mode (e.g. **COUNT**).
→ *Section 3.4 "Counting Modes", p. 24*

- **MIX, Mix(V)**
- **SINGLE, Single(V)**
- **Face(M), Face(M+V), Face(S), Face(S+V)**
- **Orient(M), Orient(M+V), Orient(S), Orient(S+V)**
- Additionally for ProNote 1.5F:
FIT, SINGLE FIT, ATM FIT, Single ATM

- [4]** Rotate the **MENU** dial to set **ON** or **OFF** and press the dial to accept.
- ⇒ The mode is set on or off.
- Result** ⇒ Automatic transfer of the deposit XML file is enabled or disabled.

7.15 Changing Language of User Interface

This procedure describes how to change the language of the user interface.

Requirements

- The machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*
- The language is available; other languages on request

Procedure

- [1]** Press the **MENU** dial on the control panel.

⇒ The "User Menu" is displayed.



Important!

To go back to the previous menu, press the **Start/Clear** key on the control panel.



Important!

The touchscreen provides similar functionality as many keys of the control panel.

- [2]** Rotate the **MENU** dial until **Language** is displayed and press the dial to select.

⇒ The "Language" screen is displayed (e.g. "English", "Deutsche").

- [3]** Rotate the **MENU** dial to select the desired language and press the dial to accept.

⇒ A confirmation message displays that the action was successful.

- Result** ⇒ The language is changed.

7.16 Configuring Network Settings on ProNote 1.5/1.5F

This procedure describes how to configure the network settings (e.g. Client IP, Server IP, etc. as well as FTP settings).

Requirements

- The machine is switched on.
→ Section 6.1 "Switching the Machine On and Off", p. 39

Procedure

- [1]** Press the **MENU** dial on the control panel.

⇒ The "User Menu" is displayed.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

The touchscreen provides similar functionality as many keys of the control panel.

- [2]** Rotate the **MENU** dial until **Network Setting** is displayed and press the dial to select.

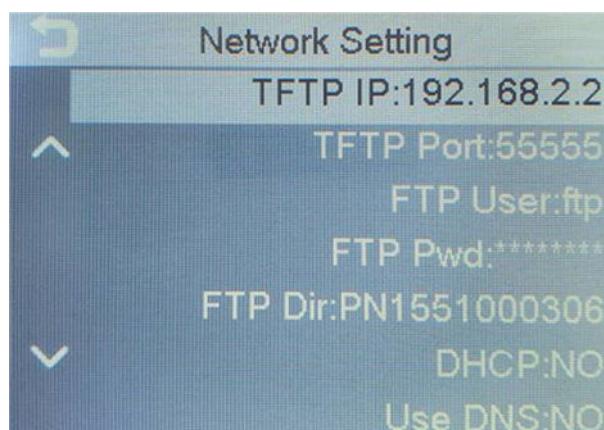
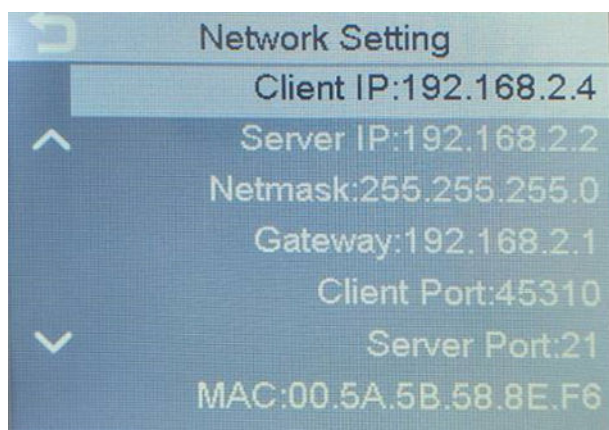
⇒ The "Network Setting" screen is displayed.

**Important!**

For assistance, contact your responsible IT person.

- [3]** Rotate the **MENU** dial to the desired setting:

Example:



Parameter	Example	Description	Corresponds to:		
			Your Network Connection Details	Server Configuration TE Controller	dpConfigure.conf File ¹⁾
Client IP:	192.168.2.4	IP address of your ProNote 1.5/1.5F banknote processing machine. Ensure it is unique and on the same network segment with the Server IP .			myip
Server IP:	192.168.2.2	IP address of your PC.	IPv4 Address	Server IP	pcip
Netmask:	255.255.255.0	Netmask.	IPv4 Subnet Mask		subnet-mask
Gateway:	192.168.2.1	Gateway.	IPv4 Default Gateway		subnet-gate
Client Port:	45310	Network port number of counter, usually from 1024 to 65535.			myport
Server Port:	21	FTP server port; server (PC) port number, usually from 1024 to 65535.			pcport
MAC:	00.5A.5B.58.8E.F6	Cannot be changed.			mac
TFTP IP	192.168.2.2	TFTP IP			
TFTP Port:	55555	ProNote 1.5/1.5F uses the TFTP protocol to communicate with the banknote counters;.		Server Port	tftp_port
FTP User:	ftp	FTP user			ftp_name

Parameter	Example	Description	Corresponds to:		
			Your Network Connection Details	Server Configuration TE Controller	dpConfigure.conf File ¹⁾
FTP Pwd:	*****	FTP password specified by IT			ftp_password
FTP Dir:	PN155100306	Transfer folder (e.g. machine type)			ftp_dir
DHCP:	NO				
Use DNS:	NO	Determines which network settings should be set automatically or manually.			usedns
Auto DNS:	NO	Determines which network settings should be set automatically or manually.			autodns
DNS Name:	pronote.internal	e.g. pronote.internal			dnsname
DNS IP:					
¹⁾ The dpConfig.conf file has been replaced by the settings above. If this file is still being used (e.g. for mass update of machines), refer to the service manual. → <i>Service Manual</i>					

**Important!**

For more information on how to view the PC IP configuration of your PC and configure the server of TE Controller, refer to the corresponding chapters in the service manual.

→ *"Service Manual"*

[4] Press the **MENU** dial to select.

[5] Enter the value (e.g. via the touchscreen).

[6] Select **OK** to confirm.

⇒ The network setting is configured accordingly.

7.17 Displaying Network Status

This procedure describes how to display the network status. The network status shows, for example, whether the SD card is inserted and whether the network is connected.

Requirements

- The machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*

Procedure

- [1]** Press the **MENU** dial on the control panel.

⇒ The "User Menu" is displayed.



Important!

To go back to the previous menu, press the **Start/Clear** key on the control panel.



Important!

The touchscreen provides similar functionality as many keys of the control panel.

- [2]** Rotate the **MENU** dial until **Network Status** is displayed and press the dial to select.

⇒ The "Network Status" screen is displayed. A message such as **FTP connect test, wait ..** is displayed.

Afterwards, the network status is displayed (e.g. **SD-Card inserted, Network not connected, FTP not connected**, etc.)

⇒ The network status is displayed.

7.18 Refusing Paper Notes

This procedure describes how to set the machine to refuse paper notes. This is a special function. In this case, polymer and paper notes are differentiated when sorting.

Requirements

- The machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*

Procedure

- [1]** Press the **MENU** dial on the control panel.

⇒ The "User Menu" is displayed.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

The touchscreen provides similar functionality as many keys of the control panel.

- [2] Rotate the **MENU** dial until **Refuse Paper Notes** is displayed and press the dial to select.

⇒ The "Refuse paper notes" screen is displayed.

- [3] Rotate the **MENU** dial to the desired setting:

- **ON**
Paper notes will be refused when sorting.
- **OFF**
Polymer and paper notes are not distinguished when sorting.

- [4] Press the **MENU** dial to accept.

⇒ The refuse papers notes function is set on or off.

7.19 Setting Menu Button Delay

This procedure describes how to select whether the menu button delay is set on or off. For normal users, this option is set to off.

Requirements

- The machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*

Procedure

- [1] Press the **MENU** dial on the control panel.

⇒ The "User Menu" is displayed.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.



Important!

The touchscreen provides similar functionality as many keys of the control panel.

[2] Rotate the **MENU** dial until **MENU Button Delay** is displayed and press the dial to select.

⇒ The "MENU Button Delay" screen is displayed.

[3] Rotate the **MENU** dial to the desired setting:

- **ON**
The menu delay function is enabled.
- **OFF**
The menu delay function is disabled.

[4] Press the **MENU** dial to accept.

⇒ The menu button delay is set on or off.

7.20 Enabling ADD Function

This procedure describes how to set **ADD** function on or off. When this function is enabled, counting results are accumulated until cleared again. The total sum at the bottom shows accumulated counting results.

When you remove banknotes from the stacker, the subtotal amount and pieces displayed are set to 0. When the **ADD** function is activated, the total sum displayed at the bottom shows the accumulated total until cleared again.

Clearing Counting Results

In combination with the **ADD** function, you can clear counting results as follows:

- **F2 key**
Clears counting results after a confirmation with the **MENU** key.
- **Start/Clear key**
If pressed before removing banknotes from the stacker, the last passed banknotes will not be accumulated (this behavior may vary depending on the software being used).

Requirements

- The machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*

Procedure

[1] Press the **MENU** dial on the control panel.

⇒ The "User Menu" is displayed.



Important!

To go back to the previous menu, press the **Start/Clear** key on the control panel.



Important!

The touchscreen provides similar functionality as many keys of the control panel.

- [2]** Rotate the **MENU** dial until **ADD Function** is displayed and press the dial to select.

⇒ The "ADD Function" screen is displayed.

- [3]** Rotate the **MENU** dial to the desired setting:

- **ON**
Counting results are accumulated until cleared again.
- **OFF**
The Add function is disabled.

- [4]** Press the **MENU** dial to accept.

⇒ The ADD function is set on or off.

7.21 Displaying Statistics (FIT/UNFIT)

Applies to ProNote 1.5F only. This procedure describes how to display statistics of the currency and denominations in form of a table (e.g. total, fit and unfit).

Requirements

- The machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*

Procedure

- [1]** Press the **MENU** dial on the control panel.

⇒ The "User Menu" is displayed.



Important!

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

The touchscreen provides similar functionality as many keys of the control panel.

- [2] Rotate the **MENU** dial until **STATISTICS** is displayed and press the dial to select.
- ⇒ The "STATISTICS" screen displays the totals of fit and unfit banknote.
- ⇒ The statistics are displayed for evaluation.

7.22 Setting Batch Setup

This procedure describes how to set **Cur Batch** on or off and select the settings for **Cur Batch Setup**.

Requirements

- The machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*

Procedure

- [1] Press the **MENU** dial on the control panel.
- ⇒ The "User Menu" is displayed.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

The touchscreen provides similar functionality as many keys of the control panel.

- [2] Rotate the **MENU** dial until **Batch Setup** is displayed and press the dial to select.
- ⇒ The "Batch Setup" screen is displayed.
- [3] Rotate the **MENU** dial to the desired setting:
- **Cur Batch**
→ [4a-1]
 - **Cur Batch Setup**
→ p. 92

Options

[4] Perform the desired procedures:

[4a] Setting Cur Batch

[4a-1] Press the **MENU** dial to select.

[4a-2] Rotate the **MENU** dial to the desired setting:

- **ON**
Cur Batch function enabled.
- **OFF**
Cur Batch function disabled.

[4a-3] Press the **MENU** dial to accept.

[4b] Setting Cur Batch Setup

[4b-1] Press the **MENU** dial to select.

[4b-2] Rotate the **MENU** dial to the desired currency.

Example:

- **EUR**
- **USD**
- **GBP**
- **GDN**

[4b-3] Press the **MENU** dial to accept.

⇒ The denominations of the selected currency and amounts are displayed.

[4b-4] Rotate the **MENU** dial to select the denomination to be changed and press the dial to select.

[4b-5] Enter the amount for the selected denomination and select the return symbol when done.

⇒ Batch setup is completed.

7.23 Setting Auto/Manual Feeding

This procedure describes how to enable or disable automatic feeding of banknotes when placed onto the feeder. If **Manual** mode is selected, you must press the **Start/Clear** key to begin feeding.

Requirements

- The machine is switched on.
→ Section 6.1 "Switching the Machine On and Off", p. 39

Procedure

- [1]** Press the **MENU** dial on the control panel.
⇒ The "User Menu" is displayed.



Important!

To go back to the previous menu, press the **Start/Clear** key on the control panel.



Important!

The touchscreen provides similar functionality as many keys of the control panel.

- [2]** Rotate the **MENU** dial until **Auto/Manual** is displayed and press the dial to select.

⇒ The " **Auto/Manual** " screen is displayed.

- [3]** Rotate the **MENU** dial to the desired setting:

- **Auto**
Banknotes are automatically fed when placed onto the singler.
- **Manual**
You must press the **Start/Clear** key to begin feeding.

- [4]** Press the **MENU** dial to accept.

⇒ Auto or manual banknote feeding is selected accordingly.

7.24 Resetting Parameters to Factory Setting

This procedure describes how to reset parameters to the original factory setting.

Requirements

- The ProNote 1.5/1.5F banknote processing machine is switched on.

Procedure

- [1]** Hold down the **Start/Clear** key on the control panel for several of seconds and enter the password.
⇒ The "User Menu" is displayed.

**Important!**

To go back to the previous screens without saving changes, press the **Start/Clear** key.

**Important!**

The touchscreen provides similar functionality as many keys of the control panel.

- [2] Rotate the **MENU** dial until **FACTORY DEF** is displayed and press the dial to select.

⇒ The "FACTORY DEF" screen is displayed.

- [3] Rotate the **MENU** dial to the desired setting:

- **USER PARA DEF**
Switches to user parameters defaults.
- **FACTORY DEF**
Switches to factory defaults.

- [4] Press the **MENU** dial to accept.

**Important!**

When **USER PARA DEF** or **FACTORY DEF** is selected, a warning informs you to press **Start/Clear** or press **MENU** to make sure.

- [5] Afterwards, restart the ProNote 1.5/1.5F banknote processing machine.

⇒ The parameters are reset accordingly.

7.25 Setting Station ID

This function is used to set up the station ID if used, otherwise it is empty.

Requirements

- The machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*

Procedure

- [1] Press the **MENU** dial on the control panel.

⇒ The "User Menu" is displayed.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

The touchscreen provides similar functionality as many keys of the control panel.

- [2]** Rotate the **MENU** dial until **Station ID Setup** is displayed and press the dial to select.

⇒ The "Station ID Setup" screen is displayed.

- [3]** Enter the station ID setup (e.g. via the touchscreen).

- [4]** Select **OK** to confirm.

⇒ The station ID is set accordingly.

7.26 Using the SN Search List

7

This procedure describes how to access the SN search list. You use the SN search list to add serial numbers to be rejected during banknote processing.

Requirements

- The machine is switched on.
→ *Section 6.1 "Switching the Machine On and Off", p. 39*
- Serial number recording is activated.
→ *Section 7.8 "Enabling and Disabling Serial Number Recording", p. 75*
- Serial number detection is supported for the selected currency and operating mode.
- The maximum number of serial numbers supported (e.g. 32 serial numbers).

Procedure

- [1]** Press the **MENU** dial on the control panel.

⇒ The "User Menu" is displayed.

**Important!**

To go back to the previous menu, press the **Start/Clear** key on the control panel.

**Important!**

The touchscreen provides similar functionality as many keys of the control panel.

- [2] Rotate the **MENU** dial until **SN search list** is displayed and press the dial to select.
 - ⇒ The "SN search list" screen is displayed.
- [3] Process the serial numbers in the **SN Search list** screen using the available functions (e.g. using **F1**, **F2** and **MENU** keys to add, deleted or edit entries using the touch keyboard).

Hold down the **MENU** key after editing to save changes permanently after rebooting.

→ *Section 6.14 "Working with the SN Search List", p. 62*

 - ⇒ You have accessed the SN search list for defining serial numbers to be rejected.

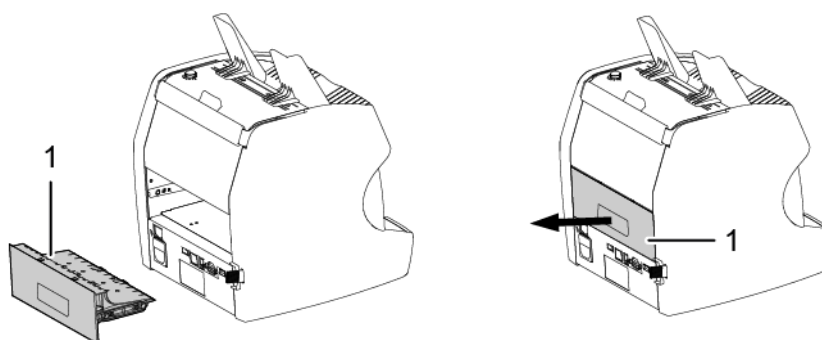
8 Maintenance

This section describes procedures for maintaining ProNote 1.5/1.5F.

8.1 Opening and Closing the Lower Transport Section

This procedure describes how to open the lower transport section for performing various work (e.g. clearing jams and cleaning the ProNote 1.5/1.5F banknote processing machine).

Procedure



- [1]** Pull out the back drawer (1) on the back side of the ProNote 1.5/1.5F banknote processing machine.

⇒ The lower transport section is accessible.

- [2]** Perform the required action (e.g. clear jam or clean ProNote 1.5/1.5F banknote processing machine).

→ *Section 8.3 “Cleaning the Banknote Processing Machine”, p. 98*

→ *Chapter 9 “Clearing a Banknote Jam”, p. 109*

- [3]** When done, push in the back drawer again until it stops.

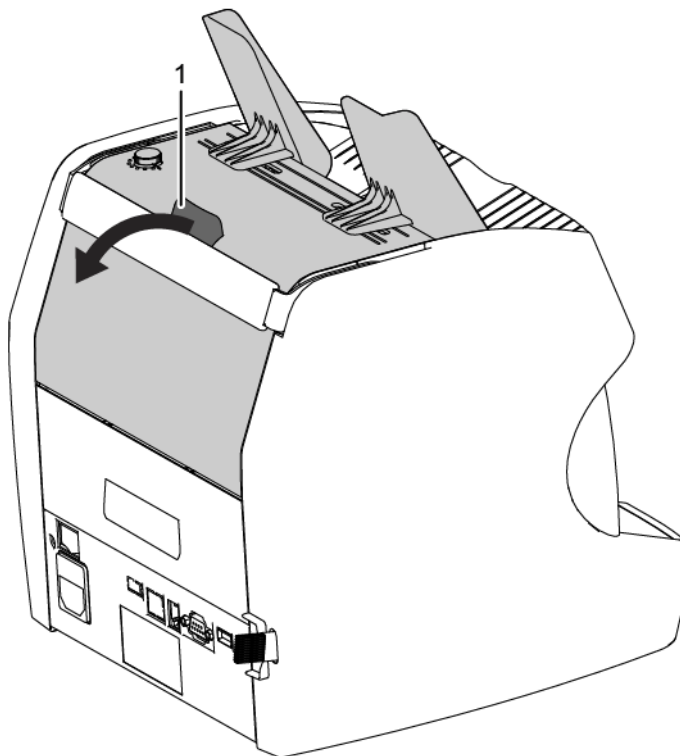
Result

⇒ The lower transport section is opened or closed accordingly.

8.2 Opening and Closing the Upper Transport Section

This procedure describes how to open the upper transport section for performing various work (e.g. clearing jams and cleaning the ProNote 1.5/1.5F banknote processing machine).

Procedure



- [1] Pull the hatch (1) on the back side of the ProNote 1.5/1.5F banknote processing machine and pull back the cover as far as possible.
⇒ The upper transport section is accessible.
- [2] Perform the required action (e.g. clear jam or clean ProNote 1.5/1.5F banknote processing machine).
→ *Section 8.3 “Cleaning the Banknote Processing Machine”, p. 98*
→ *Chapter 9 “Clearing a Banknote Jam”, p. 109*
- [3] When done, push the cover back until it snaps into its closing position.

Result

- ⇒ The upper transport section is opened or closed accordingly.

8.3 Cleaning the Banknote Processing Machine

This section describes how to clean the ProNote 1.5/1.5F banknote processing machine.

8.3.1 Cleaning Aids

The following tools are used for cleaning purposes:

- Commercially available cleaning solutions
- Isopropyl alcohol for heavier soiling
- Lint-free, non-abrasive cloth or lint-free, non-abrasive cloth dampened with water
- Soft bristled brush (e.g. brush placed in brush holder on back-side of the counter)

8.3.2 Cleaning the Cover

This procedure describes how to clean the cover and exterior of the ProNote 1.5/1.5F banknote processing machine.

Requirements

- Cleaning aids (e.g. lint-free, non-abrasive cloth)
→ *Section 8.3.1 "Cleaning Aids", p. 99*

Procedure

**DANGER**

Danger of electric shock

Danger of death or serious injury from electric shock

1. Before starting any work, switch off the machine/device.
2. Disconnect the machine from the power supply.
3. Secure the machine/device against being switched back on.

**DANGER**

Danger of electric shock

Danger of death or serious injury from electric shock

Only field engineers are permitted to remove panel sections screwed in place on the machine/device.

**WARNING**

Do not perform any maintenance and service work.

There is a danger of serious injury.

Have maintenance and service work carried out by specially trained maintenance personnel and field engineers.

**CAUTION**

Danger from raised dust

Inhaling dust can be hazardous to your health.

Dust in the air can also damage bearings and electronic parts.

Use a vacuum cleaner with a micro-filter.

Never use compressed air for cleaning purposes.

**NOTICE**

Incorrect cleaning materials

Risk of damage to the machine/device

Do not use cleaning material with a corrosive or scouring effect.

**NOTICE**

Contaminated cleaning cloth

Risk of damage to the measurement window

Always use a new cleaning cloth. Grit contamination from previous cleaning may damage the measurement window.

Use each cleaning cloth once only.

- [1] Switch off the ProNote 1.5/1.5F banknote processing machine.
→ *Section 6.1 “Switching the Machine On and Off”, p. 39*



DANGER

Danger of electric shock

Danger of death or serious injury from electric shock

Always unplug the machine by pulling on the plug and never by pulling on the cable.

- [2] Unplug the mains plug from the power socket.

- [3] Check the ProNote 1.5/1.5F banknote processing machine for damage.



Important!

In the event of safety-relevant damage, e. g. damaged network cables or plugs and broken, sharp-edged parts, contact Service.



Important!

Thoroughly wring out the moistened cleaning cloth. Ensure that no fluid leaks into the inside of the ProNote 1.5/1.5F banknote processing machine.

- [4] Clean the cover in circular movements using a lint-free, non-abrasive dampened cloth.

- [5] Remove the cleaning fluid with a clean, dry cloth.

Result

- ⇒ The cover of the ProNote 1.5/1.5F banknote processing machine is cleaned.

8.3.3 Cleaning the Upper Transport Section

This procedure describes how to clean the upper transport section of the ProNote 1.5/1.5F banknote processing machine.

Requirements

- Cleaning aids (e.g. soft bristled brush and non-abrasive cleaning cloth to avoid damage)
→ *Section 8.3.1 “Cleaning Aids”, p. 99*

Procedure

**DANGER**

Danger of electric shock

Danger of death or serious injury from electric shock

1. Before starting any work, switch off the machine/device.
2. Disconnect the machine from the power supply.
3. Secure the machine/device against being switched back on.

**DANGER**

Danger of electric shock

Danger of death or serious injury from electric shock

Only field engineers are permitted to remove panel sections screwed in place on the machine/device.

**WARNING**

Do not perform any maintenance and service work.

There is a danger of serious injury.

Have maintenance and service work carried out by specially trained maintenance personnel and field engineers.

**CAUTION**

Danger from raised dust

Inhaling dust can be hazardous to your health.

Dust in the air can also damage bearings and electronic parts.

Use a vacuum cleaner with a micro-filter.

Never use compressed air for cleaning purposes.

**NOTICE**

Incorrect cleaning materials

Risk of damage to the machine/device

Do not use cleaning material with a corrosive or scouring effect.

**NOTICE**

Contaminated cleaning cloth

Risk of damage to the measurement window

Always use a new cleaning cloth. Grit contamination from previous cleaning may damage the measurement window.

Use each cleaning cloth once only.

- [1] Switch off the ProNote 1.5/1.5F banknote processing machine.
→ *Section 6.1 “Switching the Machine On and Off”, p. 39*

**DANGER**

Danger of electric shock

Danger of death or serious injury from electric shock

Always unplug the machine by pulling on the plug and never by pulling on the cable.

- [2] Unplug the mains plug from the power socket.
- [3] Check the ProNote 1.5/1.5F banknote processing machine for damage.

**Important!**

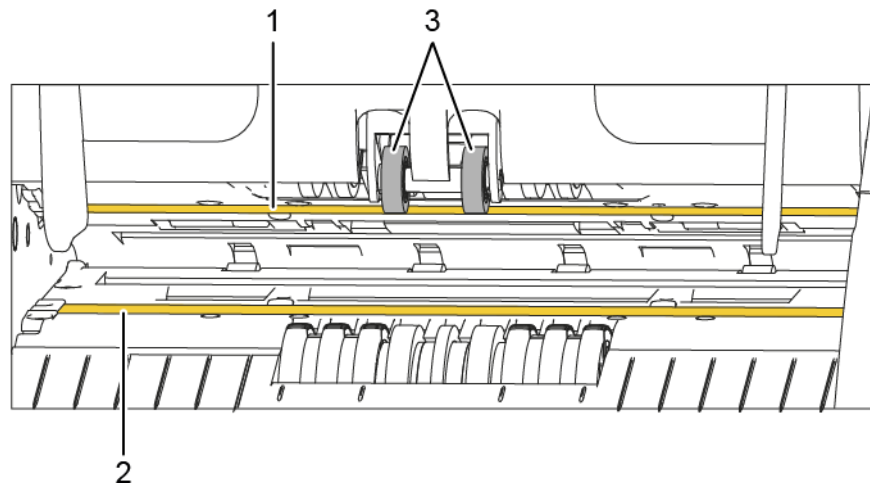
In the event of safety-relevant damage, e. g. damaged network cables or plugs and broken, sharp-edged parts, contact Service.

- [4] Open the upper transport section.
→ *Section 8.2 “Opening and Closing the Upper Transport Section”, p. 97*
⇒ The upper transport section is accessible.
- [5] Gently wipe or dust the transport section using a small, soft brush or lint-free, non-abrasive cloth.

**Important!**

If stains remain, moisten a soft, lint-free cloth with water or a 50/50 mixture of isopropyl alcohol and water that does not contain impurities. Wring out as much of the liquid as you can.

Do not let any liquid drop into the device.



[6] Clean the sensor components, especially the glass of the image sensor unit (e.g. upper image sensor unit (1) and lower image sensor unit (2))

[7] Due to soiling, check the rollers (3) for soiling and clean.

Result

⇒ The upper transport section of the ProNote 1.5/1.5F banknote processing machine is cleaned.

8.3.4 Cleaning the Lower Transport Section

This procedure describes how to clean the lower transport section or the ProNote 1.5/1.5F banknote processing machine.

Requirements

- Cleaning aids (e.g. soft bristled brush and non-abrasive cleaning cloth to avoid damage)
→ *Section 8.3.1 "Cleaning Aids", p. 99*

Procedure

**DANGER**

Danger of electric shock

Danger of death or serious injury from electric shock

1. Before starting any work, switch off the machine/device.
2. Disconnect the machine from the power supply.
3. Secure the machine/device against being switched back on.

**DANGER**

Danger of electric shock

Danger of death or serious injury from electric shock

Only field engineers are permitted to remove panel sections screwed in place on the machine/device.

**WARNING**

Do not perform any maintenance and service work.

There is a danger of serious injury.

Have maintenance and service work carried out by specially trained maintenance personnel and field engineers.

**CAUTION**

Danger from raised dust

Inhaling dust can be hazardous to your health.

Dust in the air can also damage bearings and electronic parts.

Use a vacuum cleaner with a micro-filter.

Never use compressed air for cleaning purposes.

**NOTICE**

Incorrect cleaning materials

Risk of damage to the machine/device

Do not use cleaning material with a corrosive or scouring effect.

**NOTICE**

Contaminated cleaning cloth

Risk of damage to the measurement window

Always use a new cleaning cloth. Grit contamination from previous cleaning may damage the measurement window.

Use each cleaning cloth once only.

**Important!**

Ensure that no fluid leaks into the inside of the ProNote 1.5/1.5F banknote processing machine.

- [1]** Switch off the ProNote 1.5/1.5F banknote processing machine.

→ *Section 6.1 “Switching the Machine On and Off”, p. 39*

**DANGER**

Danger of electric shock

Danger of death or serious injury from electric shock

Always unplug the machine by pulling on the plug and never by pulling on the cable.

- [2]** Unplug the mains plug from the power socket.

- [3]** Check the ProNote 1.5/1.5F banknote processing machine for damage.

**Important!**

In the event of safety-relevant damage, e. g. damaged network cables or plugs and broken, sharp-edged parts, contact Service.

- [4]** Pull out the door on the backside of the ProNote 1.5/1.5F banknote processing machine.

→ *Section 8.1 “Opening and Closing the Lower Transport Section”, p. 97*

⇒ The lower transport section is accessible.

- [5]** Gently wipe or dust the transport section with a small, soft brush or lint-free non-abrasive cloth.

**Important!**

If stains remain, moisten a soft, lint-free cloth with water or a 50/50 mixture of isopropyl alcohol and water that does not contain impurities. Wring out as much of the liquid as you can.

Do not let any liquid drop into the device.

Result

⇒ The lower transport section of the ProNote 1.5/1.5F banknote processing machine is cleaned.

8.4 Adjusting the Feed Gap

This procedure describes how to adjust the feed gap.

Requirements

- Any of the following conditions exist:
 - Gap of different mechanical note transportation components is too narrow or wide
 - Note input is not working smoothly

Procedure

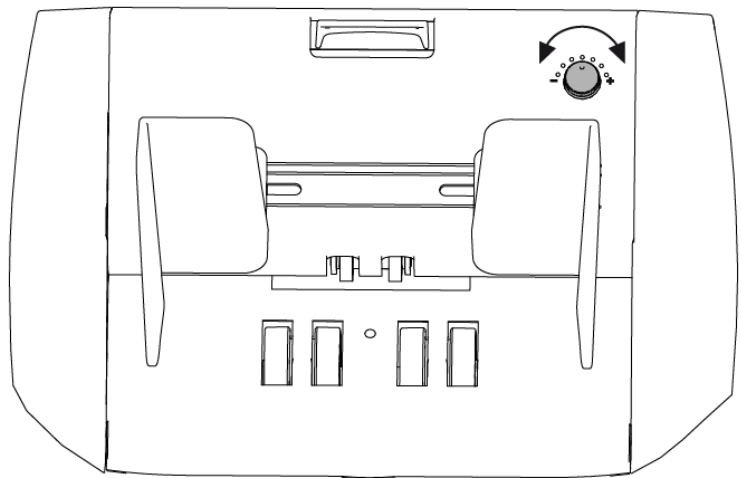


Figure 12: Adjustment Screw

- [1] Adjust the feed by turning the gap adjustment screw.
You can widen or shorten the gap as needed:

- Widening the gap
→ [2a]
- Shortening the gap
→ [3a]

Widening the Gap

- [2a] Turn the gap adjustment screw clockwise.

Shortening the Gap



Important!

This is necessary in case of the errors such as **Chain Note** or **Double Note**.

- [3a] Turn the gap adjustment screw counter-clockwise.

Result



The feed gap is adjusted as required.

9 Clearing a Banknote Jam

This section describes how to clear a banknote jam.

9.1 Clearing the Jam in the Upper Transport Section

This procedure describes how to clear a jam in the upper transport section.

Requirements

- Jam in the upper transport section.

Procedure



WARNING

Do not perform any maintenance and service work.

There is a danger of serious injury.

Have maintenance and service work carried out by specially trained maintenance personnel and field engineers.

- [1] Open the upper transport section.
 → *Section 8.2 "Opening and Closing the Upper Transport Section", p. 97*
 ⇒ The upper transport section is accessible.



Important!

If an error message is displayed during processing, follow the instructions for solving the problem. If you cannot solve the problem yourself, contact service.

→ *Chapter A "Error Messages", p. 111*

- [2] Remove the jammed note.
- [3] After inspection of any further jammed notes, close the cover by pushing it back to the closed position.

Result

- ⇒ The banknote jam is cleared in the upper transport section.

9.2 Clearing the Jam in the Lower Transport Section

This procedure describes how to clear a jam in the lower transport section.

Requirements

- Jam in the lower transport section.

Procedure

**WARNING**

Do not perform any maintenance and service work.

There is a danger of serious injury.

Have maintenance and service work carried out by specially trained maintenance personnel and field engineers.

[1]

Open the lower transport section.

→ *Section 8.1 “Opening and Closing the Lower Transport Section”, p. 97*

⇒ The lower transport section is accessible.

**Important!**

If an error message is displayed during processing, follow the instructions for solving the problem. If you cannot solve the problem yourself, contact service.

→ *Chapter A “Error Messages”, p. 111*

[2]

Remove the jammed note.

[3]

After inspection of any further jammed notes, push in the door again and move it to the closed position.

⇒

The banknote jam is cleared in the lower transport section.

Result

A Error Messages

A

If an error occurs when operating the ProNote 1.5/1.5F banknote processing machine, an error message is displayed. You are instructed on how to solve the problem.

If you cannot solve the problem yourself, contact service.



Important!

Certain components are described in this documentation may only be replaced or repaired by service technicians or trained persons. This assures the safety of the product. Improper handling can cause material damage to the device and disturbances during operation.



Important!

Assure that only trained persons perform work on the device. The manufacturer does not assume liability for any damage caused by disregarding this advise, e.g. when repairing or exchanging components by untrained persons.

A.1 Errors During Counting

If the following error messages are displayed during counting, stop the ProNote 1.5/1.5F banknote processing machine before handling them.



Important!

If you cannot solve the problem yourself (e.g. adjustment or calibration procedure), contact service.

A.1.1 Back Drawer Open Error

Error message	Back Drawer Open!
Error description	An error occurred when operating the ProNote 1.5/1.5F banknote processing machine. The back drawer is open.
Close back drawer	<p>[1] Close the back drawer.</p> <p>→ <i>Section 8.1 "Opening and Closing the Lower Transport Section", p. 97</i></p>

A

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.1.2 Bat Full Error

Error message

Bat Full

Error description

An error occurred when operating the ProNote 1.5/1.5F banknote processing machine. The batch is full.

Remove the banknotes from stacker**[1]** Remove the banknotes from the stacker.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.1.3 Check Stacker Error

Error message

Check Stacker

Error description

An error occurred when operating the ProNote 1.5/1.5F banknote processing machine. The stacker is full.

Remove banknotes from stacker

[1] Remove the banknotes from the stacker.

Question	Answer	Go to
Problem solved_	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Troubleshooting unsuccessful

Call help desk.

A.1.4 Composed Error

Error message

Composed-Error
 Corner Folds
 Count_Error
 Crumples
 Deinked
 Fold
 Graffiti
 Holes
 Image
 Image#1 to Image#9
 Limpness
 Mutilation
 Repairs
 Soiling
 Stains
 Tears

Error description

A composed error occurred when operating the ProNote 1.5/1.5F banknote processing machine (e.g. combined banknotes).

Remove banknotes from machine

[1] Remove the banknotes from the ProNote 1.5/1.5F banknote processing machine.

A

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ [2]

Select proper currency

[2] Select the right currency (same type as the currency you are counting).

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ [3]

Scan data for analysis

[3] If the problem still persists, scan the data and forward for analysis.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.1.5 Count Error

Error message

Count

Error description

A count error occurred when operating the ProNote 1.5/1.5F bank-note processing machine.

Remove banknotes from stacker and reject compartment and recount

- [1]** Remove the banknotes from the stacker and reject compartment and recount.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End Problem solved.

Troubleshooting unsuccessful Call help desk.

A.1.6 Cover Open Error

Error message Cover Open!

Error description An error occurred when operating the ProNote 1.5/1.5F banknote processing machine. The cover is open.

- Close top cover** **[1]** Close the top cover.
→ Section 8.2 "Opening and Closing the Upper Transport Section", p. 97

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End Problem solved.

Troubleshooting unsuccessful Call help desk.

A.1.7 Diff and SN Error

Error message	Deno Diff
	Face Diff
	Old Ver
	Orient Diff
	SN Invalid
	SN Repeat
	SN Error
	Ver Diff

Remove banknotes and recount

[1] Remove the banknotes and recount.

Question	Answer	Go to
Problem solved_	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Troubleshooting unsuccessful

Call help desk.

A.1.8 Double or Chained Error

Error message	Double
	Chained#1 to Chained#5

Error description	A double or chained error occurred when operating the ProNote 1.5/1.5F banknote processing machine. Some banknotes are attached to each other or are overlapping.
-------------------	---

Place banknotes onto singler and recount

[1] Place the banknotes from the stacker back onto the singler and recount.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ [2]

Turn adjusting screw ant-clock-wise

- [2]** If the error frequently occurs, turn the adjusting screw ant-clockwise to tighten the gap smaller.
→ Section 8.4 “Adjusting the Feed Gap”, p. 107

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.1.9 Half Error

Error message

Half

Error description

A half error occurred when operating the ProNote 1.5/1.5F bank-note processing machine. A half banknote was encountered.

Remove half bank-note

- [1]** Remove the half banknote.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

A

Troubleshooting unsuccessful

Call help desk.

A.1.10 Image Error

Error message

Image#1

Image#2

Image#3

Error description

An image error occurred when operating the ProNote 1.5/1.5F banknote processing machine. The CIS is affected.

Check if problem reoccurs**[1]** Check if the problem reoccurs.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.1.11 IR Error

Error message

IR-Error

IR1-Error to IR9-Error

Error description

An IR error occurred when operating the ProNote 1.5/1.5F banknote processing machine. The IR sensor is affected.

Occurs, for example, when checking details (e.g. by pressing the **DETAIL** key and turning the **MENU** dial clockwise).

Check if error reoccurs**[1]** Check if the error reoccurs.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.1.12 Jam Error

Error message

Jam

Error description

A jam error occurred when operating the ProNote 1.5/1.5F banknote processing machine. Some foreign substance falls inside the ProNote 1.5/1.5F banknote processing machine or notes are blocked.

Open back cover and remove

- [1]** Open the back cover and remove the jammed banknotes.
→ *User Manual*
→ *Chapter 9 “Clearing a Banknote Jam”, p. 109*

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.1.13 Length Error

Error message

Length

A

Error description

A length error occurred when operating the ProNote 1.5/1.5F banknote processing machine.

Occurs, for example, when checking details (e.g. by pressing the **DETAIL** key and turning the **MENU** dial clockwise).

Remove banknotes and recount

[1] Remove the banknotes and recount them.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.1.14 Mainloop Broken Error

Error message

Mainloop Broken

Error description

An error occurred when operating the ProNote 1.5/1.5F banknote processing machine. The mainloop is broken.

Restart machine

[1] Turn off the ProNote 1.5/1.5F banknote processing machine and restart it.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

**A.1.15 MG Error**

Error message

MG-Error
MG1-Error to MG9-Error

Error description

An MG error occurred when operating the ProNote 1.5/1.5F bank-note processing machine. The magnetic sensor is affected.
Occurs, for example, when checking details (e.g. by pressing the **DETAIL** key and turning the **MENU** dial clockwise).

Remove banknotes from machine and remove dust from magnetic sensor

- [1]** Remove the banknotes from the ProNote 1.5/1.5F bank-note processing machine and/or remove dust from the magnetic sensor.
→ *Section 8.3 “Cleaning the Banknote Processing Machine”, p. 98*

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.1.16 Old Ver, SN, Face, Orient, Ver or Deno Error

Error message

Old Ver
SN-Error
SN Repeat
SN Invalid
Face Diff
Orient Diff
Ver Diff
Deno Diff

A

Error description

An error occurred when operating the ProNote 1.5/1.5F banknote processing machine. One of the errors listed in the error message has been encountered.

Remove banknotes and recount

[1] Remove the banknotes and recount.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.1.17 Rejector Full Error

Error message

Rejector Full

Error description

An error occurred when operating the ProNote 1.5/1.5F banknote processing machine. The reject compartment is full.

Remove banknotes from reject compartment

[1] Remove the banknotes from the reject compartment.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.



A.1.18 Slant Error

Error message

Slant

Slant#1 to Slant#4

Error description

A slant (i.e. skew, tilted) error occurred when operating the Pro-Note 1.5/1.5F banknote processing machine. The banknotes are not being fed straight through the ProNote 1.5/1.5F banknote processing machine.

Center banknotes on singler

- [1] Ensure that the banknotes are placed neatly and are inserted centered on the singler.
→ *Section 6.3.1 "Suggestions for Good Banknote Feeding", p. 40*

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ [2]

Center banknotes using guides when counting banknotes

- [2] Use the singler guides to center the banknotes when counting a large stack of banknotes.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.1.19 Soiling, Stains, etc. Error

Error message

Soiling

A

Stains
Graffiti
De-inked note
Tears
Mutilation
Repairs
Crumbles
Limpness
Fold
Corner Folds

Error description One of the error messages was encountered when operating the ProNote 1.5/1.5F banknote processing machine.

Remove banknotes [1] Remove the banknotes.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End Problem solved.

Troubleshooting unsuccessful Call help desk.

A.1.20 Stacker Full Error

Error message Stacker Full

Error description An error occurred when operating the ProNote 1.5/1.5F banknote processing machine. The stacker is full.

Remove banknotes from stacker [1] Remove the banknotes from the stacker

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End Problem solved.

Troubleshooting unsuccessful Call help desk.

A.1.21 Thick Error

Error message Thick

Error description An error occurred when operating the ProNote 1.5/1.5F banknote processing machine. A thick error occurred.

Check if banknotes attached together [1] Check if the banknotes are attached together.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Troubleshooting unsuccessful Call help desk.

A.1.22 TIME 2 Error

Error message TIME 2

Error description A TIME 2 error occurred when operating the ProNote 1.5/1.5F banknote processing machine.

A

Place banknotes from singler onto singler and recount

- [1] Place banknotes from the stacker back onto the singler and recount.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.1.23 UV Error

Error message

UV-Error

Error description

An UV error occurred when operating the ProNote 1.5/1.5F bank-note processing machine. The UV sensor is affected.
Occurs, for example, when checking details (e.g. by pressing the **DETAIL** key and turning the **MENU** dial clockwise).

Remove banknotes from machine and remove dust from UV sensor

- [1] Remove the banknotes from the ProNote 1.5/1.5F bank-note processing machine and/or remove dust from the UV sensor.
→ *Section 8.3 "Cleaning the Banknote Processing Machine", p. 98*

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.1.24 Width Error

Error message

Width

Error description

A width error occurred when operating the ProNote 1.5/1.5F bank-note processing machine.

Occurs, for example, when checking details (e.g. by pressing the **DETAIL** key and turning the **MENU** dial clockwise).

Check if problem reoccurs

[1] Check if the problem reoccurs.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.2 Faults During Selftest

This section is provided for references purposes.

If you cannot solve the problem yourself (e.g. adjust or replace a component), contact service.



Important!

The following error messages are displayed after performing the self test.

A.2.1 AD Fault

Error message

AD Fault

A

Error description

An AD fault occurred when operating the ProNote 1.5/1.5F bank-note processing machine. The AD chip on the main board is affected (the chip is used to convert analog signals to digital signals).

Turn off machine and restart

- [1] Turn off the ProNote 1.5/1.5F banknote processing machine and restart.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.2.2 Auto Adjust IR Fault

Error message

Auto Adjust IR Fault

Error description

An auto adjust IR fault occurred when operating the ProNote 1.5/1.5F banknote processing machine.

Remove banknote from stacker

- [1] Remove the banknote from the stacker and/or remove dust from all the IR sensors in the path.
→ *Section 8.3 "Cleaning the Banknote Processing Machine", p. 98*

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Troubleshooting unsuccessful

Call help desk.



A.2.3 Brake Fault

Error message

Brake Fault

Error description

A brake fault occurred when operating the ProNote 1.5/1.5F bank-note processing machine. The brake component is affected.

Check if problem reoccurs

[1] Check if the problem reoccurs.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.2.4 CIS#1 to CIS#7 Fault

Error message

CIS#1 to CIS#7 Fault

Error description

A CIS fault occurred when operating the ProNote 1.5/1.5F bank-note processing machine. The CIS sensor is affected.

Remove banknote from machine

[1] Remove the banknote from the ProNote 1.5/1.5F bank-note processing machine and/or remove dust from the CIS sensor.
→ *Section 8.3 "Cleaning the Banknote Processing Machine", p. 98*

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

A

Troubleshooting unsuccessful

Call help desk.

A.2.5 Clean IR Sensor A Fault

Error message

Clean IR sensor A

Error description

An cleaning message was displayed when operating the ProNote 1.5/1.5F banknote processing machine. IR sensor A needs to be cleaned.

Remove banknote from machine

- [1]** Remove the banknote from the ProNote 1.5/1.5F banknote processing machine and remove dust from group A IR sensor.
- *Section 8.3 “Cleaning the Banknote Processing Machine”, p. 98*

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.2.6 Clean IR Sensor BX Fault

Error message

Clean IR sensor BX

Symptom

Error description

A cleaning message was displayed when operating the ProNote 1.5/1.5F banknote processing machine. IR sensor BX needs to be cleaned.

→ *Section 8.3 “Cleaning the Banknote Processing Machine”, p. 98*

Remove banknote from machine

- [1] Remove the banknote the ProNote 1.5/1.5F banknote processing machine and remove dust from group B&D sensor.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.2.7 Clean IR Sensor C Fault

Error message

Clean IR sensor C

Error description

A cleaning message was displayed when operating the ProNote 1.5/1.5F banknote processing machine. IR sensor C needs to be cleaned.

→ Section 8.3 “Cleaning the Banknote Processing Machine”, p. 98

Remove banknote from machine

- [1] Remove the banknote from the ProNote 1.5/1.5F banknote processing machine and remove dust from group C IR sensor.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.2.8 Diverter#1 to Diverter#4 Fault

Error message Diverter#1 to Diverter#4 Fault

Error description A diverter# fault occurred when operating the ProNote 1.5/1.5F banknote processing machine. The commutator is affected.

Diverter #1	Fault: Up signal has been sent to commutator, but commutator did not switch upwards or the sensor did not detect the signal of this switch.
Diverter #2	Fault: Up signal has been sent to commutator, but the switch time of commutator exceeded the maximum allowable value.
Diverter #3	Fault: Down signal has been sent to commutator, but commutator did not switch upwards or the sensor did not detect the signal of this switch.
Diverter #4	Fault: Down signal has been sent to commutator, but the switch time of commutator exceeded the maximum allowable value.

Check if problem reoccurs

[1] Check if the problem reoccurs.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.2.9 Feeding Fault

Error message Feeding Fault

Error description

A feeding fault occurred when operating the ProNote 1.5/1.5F banknote processing machine. The feeding sensor is affected.

Remove banknote from feeder

- [1]** Remove the banknote from the feeder and/or remove dust from the feeding sensor.
→ *Section 8.3 "Cleaning the Banknote Processing Machine", p. 98*

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.2.10 Left BackIR Fault

Error message

Left BackIR Fault

Error description

A Left BackIR fault occurred when operating the ProNote 1.5/1.5F banknote processing machine.

Remove banknote from back drawer

- [1]** Remove the banknote from the back drawer and/or remove dust from the Left BackIR/Group C IR sensor.
→ *Section 8.3 "Cleaning the Banknote Processing Machine", p. 98*

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

A

Troubleshooting unsuccessful

Call help desk.

A.2.11 Left or Right Counting Fault

Error message

Left#1 Counting Fault
 Right#1 Counting Fault
 Left#2 Counting Fault
 Right#2 Counting Fault

Error description

A counting fault occurred when operating the ProNote 1.5/1.5F banknote processing machine. The counting IR/Group BX IR sensor is affected.

Remove banknote from machine

- [1]** Remove the banknote from the ProNote 1.5/1.5F banknote processing machine and/or remove dust from the counting sensor/Group B&D/group BX IR sensor and restart the machine
 → *Section 8.3 “Cleaning the Banknote Processing Machine”, p. 98*

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.2.12 Left or Right CIS IR Fault

Error message

Left CIS IR Fault
 Right CIS IR Fault

Error description

A CIS IR fault occurred when operating the ProNote 1.5/1.5F banknote processing machine. The CIS IR sensor is affected.

Remove banknote from machine

- [1]** Remove the banknote from the ProNote 1.5/1.5F banknote processing machine and remove dust from the CIS IR sensor/Group A IR sensor.
→ *Section 8.3 "Cleaning the Banknote Processing Machine", p. 98*

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.2.13 MG#1 to MG#3 Fault

Error message

MG# 1 to MG# 3 Fault

Error description

Problem with MG detected when operating the ProNote 1.5/1.5F banknote processing machine. The left magnetic board is affected.

Check if problem reoccurs

- [1]** Check if the problem reoccurs.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.2.14 MG#4 to MG#5 Fault

Error message MG# 4 to MG# 4 Fault

Error description Problem with MG detected when operating the ProNote 1.5/1.5F banknote processing machine. The MRS magnetic board is affected.

Check if problem reoccurs

[1] Check if the problem reoccurs.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End Problem solved.

Troubleshooting unsuccessful Call help desk.

A.2.15 MG#6 to MG#9 Fault

Error message MG#6 to MG#9 Fault

Error description Problem with MG detected when operating the ProNote 1.5/1.5F banknote processing machine. The right magnetic board is affected.

Check if problem reoccurs

[1] Check if the problem reoccurs.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End Problem solved.

**Troubleshooting unsuccessful**

Call help desk.

A.2.16 MG#10 to MG#15 Fault

Error message

MG#10 to MG#15 Fault

Error description

Problem with MG detected when operating the ProNote 1.5/1.5F banknote processing machine. The middle magnetic board is affected.

Check if problem reoccurs**[1]** Check if the problem reoccurs.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.2.17 MID-MG or MID-MT Fault

Error message

MID-MG Fault
MID-MT Fault

Error description

A MID-MG or MID-MT fault occurred when operating the ProNote 1.5/1.5F banknote processing machine. The middle magnetic board is affected.

Check if problem reoccurs**[1]** Check if the problem reoccurs.

A

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End Problem solved.

Troubleshooting unsuccessful Call help desk.

A.2.18 Please Clean Left Counting Sensor Fault

Error message Please Clean Left Counting Sensor!

Error description The left counting sensor was detected as being soiled or dirty when operating the ProNote 1.5/1.5F banknote processing machine and needs to be cleaned.

Remove banknote from machine

- [1] Remove the banknote from the ProNote 1.5/1.5F banknote processing machine and/or remove dust from the IR sensor/Group BX IR sensor.
→ Section 8.3 “Cleaning the Banknote Processing Machine”, p. 98

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End Problem solved.

Troubleshooting unsuccessful Call help desk.

A.2.19 Please Clean Right Counting Sensor Fault

Error message Please Clean Right Counting Sensor!

Error description

The right counting sensor was detected as being soiled or dirty when operating the ProNote 1.5/1.5F banknote processing machine and needs to be cleaned.

Remove banknote from machine

- [1]** Remove the banknote from the ProNote 1.5/1.5F banknote processing machine and/or remove dust from the IR sensor/Group BX IR sensor.
→ *Section 8.3 "Cleaning the Banknote Processing Machine", p. 98*

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.2.20 Receiving Fault

Error message

Receiving Fault

Error description

A receiving fault occurred when operating the ProNote 1.5/1.5F banknote processing machine. The receiving sensor is affected.

Remove banknote from stacker

- [1]** Remove the banknote from the stacker and/or remove dust from the receiving sensor.
→ *Section 8.3 "Cleaning the Banknote Processing Machine", p. 98*

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

A

Troubleshooting unsuccessful

Call help desk.

A.2.21 Rejector Fault

Error message

Rejector Fault

Error description

A reject fault occurred when operating the ProNote 1.5/1.5F banknote processing machine. The reject sensor is affected.

The reject prism may have fallen out or is missing.

Remove banknote from reject compartment

- [1]** Remove the banknote from the reject compartment and/or remove dust from the reject sensor.
- *Section 8.3 “Cleaning the Banknote Processing Machine”, p. 98*

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.

A.2.22 Right BackIR Fault

Error message

Right BackIR Fault

Error description

A Right BackIR fault occurred when operating the ProNote 1.5/1.5F banknote processing machine.

Remove banknote from back drawer

- [1]** Remove the banknote from the back drawer and/or remove dust from the Right BackIR/Group C IR sensor.
- *Section 8.3 “Cleaning the Banknote Processing Machine”, p. 98*

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End Problem solved.

Troubleshooting unsuccessful Call help desk.

A.2.23 Rotate Speed Fault

Error message Rotate#1 Speed Fault
Rotate#2 Speed Fault

Error description A rotate speed fault occurred when operating the ProNote 1.5/1.5F banknote processing machine. The rotating speed sensor is affected.

Remove dust from rotate speed sensor [1] Remove dust from the rotate speed sensor.
→ Section 8.3 “Cleaning the Banknote Processing Machine”, p. 98

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End Problem solved.

Troubleshooting unsuccessful Call help desk.

A.2.24 UV Fault

Error message UV Fault

Error description

A UV fault occurred when operating the ProNote 1.5/1.5F banknote processing machine. The UV sensor is affected.

Adjust top cover to avoid strong light source

[1] Position the ProNote 1.5/1.5F banknote processing machine so that the top cover avoids strong light source.

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ [2]

Remove banknote from machine

[2] Remove the banknote from the ProNote 1.5/1.5F banknote processing machine and remove dust from the UV sensor.

→ *Section 8.3 “Cleaning the Banknote Processing Machine”, p. 98*

Question	Answer	Go to
Problem solved?	Yes	→ End
	No	→ Troubleshooting unsuccessful

End

Problem solved.

Troubleshooting unsuccessful

Call help desk.



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Glossary

C

CD	compact disk digital storage medium
----	--

D

DVD	digital versatile disk digital storage medium
-----	--

E

EMC	electromagnetic compatibility capability of electronic components working proper in an electronic environment
EN	European standard
EU	European Union (since December 1, 2009)

G

GUI	graphical user interface
-----	--------------------------

H

Hz	hertz (physical unit of frequency)
----	------------------------------------

V

V	volt (physical unit of electrical potential)
---	--





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USER MANUAL

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