

CM 70

Operating Instructions Programming Instructions



Declaration of Conformity

**CM 70**

- (GB)** The manufacturer hereby declares that the equipment complies with the stipulations defined in the following guidelines and standards:
- (D)** Der Hersteller erklärt hiermit, dass das Gerät mit den Bestimmungen der Richtlinien und Normen übereinstimmt:
- (F)** Le fabricant déclare par la présente que l'appareil est conforme aux règlements et normes en vigueur:
- (E)** Por medio de la presente, el fabricante declara que este aparato está conforme a lo dispuesto en las directivas y normas vigentes:

73/23/EEC	EN 60950: 2000
89/336/EEC	EN 55022: 09.98+A1 :2000+A2 :2003
	EN 50024: 09.98+A1 :10 :2001+A2 :01 :2003
	EN 61000-3-2: 2000
	EN 61000-3-3: 1995+A 1 :2001

OLYMPIA 

Olympia Business Systems



August 2005

Heinz Prygoda

Managing Director

Congratulations!

Dear Customer,

We are pleased that you decided on purchasing the Olympia CM 70 Cash Register.

The CM 70 is a high-quality cash register that implements the latest technologies to best satisfy your needs.

Your new cash register can register up to 99 items, 8 departments, 8 clerks with passwords and 2 foreign currencies. The cash register also has a calculator feature.

Please read the operating instructions to ensure you learn to use the cash register functions properly.

We hope you enjoy using your machine!

Kindest regards

Your Olympia Business Systems

Vertriebs GmbH

Olympia Business Systems Vertriebs GmbH

Weg zum Wasserwerk 10

D-45525 Hattingen

Germany

Internet: www.olympia-vertrieb.de

This operating manual serves purely for informative purposes. Its content is not part of any contract for sale. All the data specified relates to nominal values. The equipment and options described may differ from country to country according to national requirements. We reserve the right to make amendments to the content and technical modifications without notification.

Intended use

This cash register is exclusively intended for processing cash register business indoors. Any other use is considered unintended use.

General information / Safety notes

- Ensure that the mains power supply corresponds to that specified on the rating plate located on the rear side of the cash register.
- This cash register is a highly sophisticated piece of equipment. Never attempt to repair it yourself. If repairs should become necessary, please bring the cash register to an authorised service centre or the sales outlet.
- Never insert metallic objects, such as a screwdriver, paper clip etc., in the cash register. This could damage the cash register and also exposes you to the risk of an electric shock.
- Always switch the cash register off when it no longer needs to be used.
- Clean any dust from the cash register by wiping it gently with a dry cloth. Never use water or solvents, such as paint thinner, spirit etc., to clean the cash register.
- To disconnect the power supply fully, disconnect the plug from the power socket.
- Never expose the cash register to extreme temperatures.
- Keep all the transport locks in a safe place for future use. The transport locks must be reinstalled for any future transportation of the cash register.

Transport locks

Before the cash register can be put into operation, remove any transport locks installed and store them for future use. **Important transport information:** In the event of any transport damage, the machine must be returned in the packaging together with the operating manual and accessories.

Connecting to the power supply

Before connecting the cash register to the mains power supply, please check that the voltage and frequency specifications stipulated on the rating plate coincide with the local power supply.

Safety note: The power outlet must be near the cash register and easily accessible.

This means that the cash register can be disconnected from the power supply quickly in an emergency.

Note: All data in the machine is retained when the power supply is disconnected. The batteries ensure the data is retained for approx. 2 months after the cash register has been disconnected from the power supply.

Printer mechanism

Caution: To guarantee long, trouble-free operation, observe the following information:

- Never
 - print without any paper installed!
 - pull the paper while the printer is operating!
 - use poor quality paper!
 - insert paper rolls which have already been used!
 - tamper with the printer using hard objects or move the drive by hand!
- Pay attention to the markings indicating the end of the paper roll. Change the paper roll immediately.
- Have the cash register / printer mechanism serviced regularly by an authorised service centre.

Table of contents

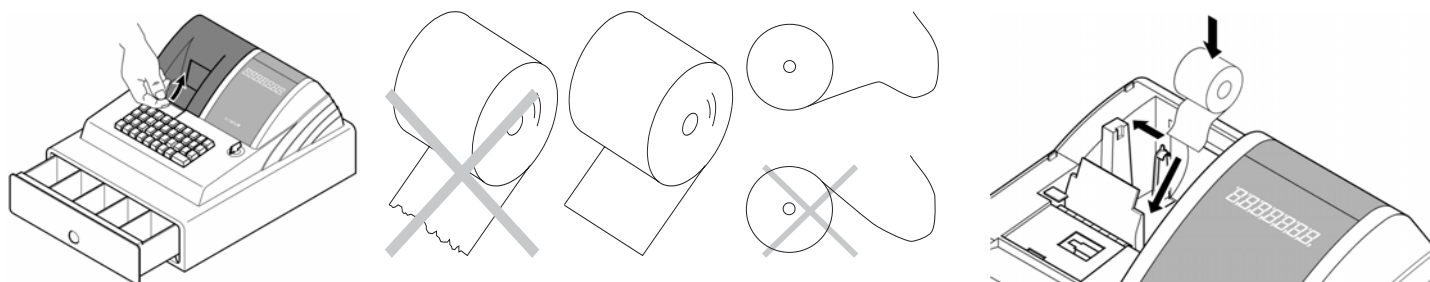
Declaration of Conformity	2
Congratulations!	3
Intended use	4
General information / Safety notes	4
Transport locks	4
Connecting to the power supply	4
Printer mechanism	4
Table of contents	5
1 Basic features	6
2 Inserting a paper roll	7
3 Paper reel	7
4 Inserting batteries	7
5 Changing the colour ribbons	8
6 Basic features and functions	8
6.1 Keyboard	8
6.2 Key-operated switch	9
7 Keyboard assignment	9
8 Calculator	10
9 Programming the date	10
10 Programming the time	10
11 Programming tax rates	10
12 Programming departments (DP)	11
13 Department dump report	11
14 Programming Price Look Up (PLU)	12
15 PLU dump report	13
16 Programming foreign currency	13
17 Programming system settings	14
18 System settings dump report	16
19 Clerk system	17
19.1 Using the clerk system without password (default)	17
19.2 Clerk system with password	17
19.3 Programming clerk passwords	18
20 Clearing errors	18
21 Registration according to departments	18
22 Registration according to PLU numbers	19
23 Conclude receipt	20
24 Foreign currency payment	20
25 Error correction and void	21
26 Other functions	21
27 Operations using the #NS key	22
28 No sale operations	22
29 Received on account operations	22
30 Paid out operations	23
31 Programming the -% key	23
32 Printing a receipt later	23
33 Receipt on / off	24
34 Calculator mode	24
34.1 Addition and subtraction	24
34.2 Multiplication and division	25
34.3 Memory	25
35 Training mode	26
36 Z-report security code	27
36.1 Programming the Z-report security code	27
36.2 Entering the Z-report security code	27
37 Notes on the management report	27
37.1 Printing reports	27
37.2 Sample receipt: Z1 - day's financial report	28
38 Clearing functions: reset grand total and Z counter	28
39 Error messages	29
40 Measures if the cash register fails to print	29
41 Printer malfunction	29

1 Basic features

Departments	8	
PLUs	99	
Clerks	8 clerks	
Tax rates	4 VAT rates	
Payment	Cash, check, card	
Management report	X1/Z1 day's financial report	
	X2/Z2 monthly financial report	
	X/Z PLU report	
	X/Z clerk report	
	X/Z training report	
	X/Z full report for electronic journal (EJ)	
Display	Numeric display (9-digit LCD)	
Printer	EPSON M-31	
	Type of printer:	Numeric, single station wheel printer
	Print speed:	0.7 lines per second
	Number of columns:	13 columns
	Paper width:	57.5 ± 0.5 mm
	MCBF:	300,000 lines
Programmability	Date	
	Time	
	Tax rate	VAT (0 – 99.999 %)
	Clerk security # Preset	
	Department	Price (max. 7 digits)
		Taxable
		Single item price
		Dump report
	PLU	Price (max. 7 digits)
		Dump report
		-% rate (0 – 99.99 %)
		2 rates: 0.00001 – 999999
	FC	
	Grand total & clear Z report	
	Z-report security code (4 digits)	
	Decimal point position (0. / 0.0 / 0.00 / 0.000)	
	Time display (24 h / 12 h format)	
	Date format (month-day-year / day-month-year)	
	Clerk system active (yes / no)	
	Compulsory to enter the clerk number for all transactions (yes / no)	

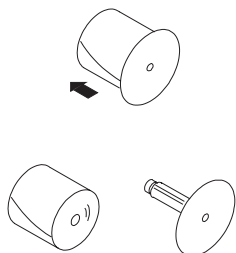
2 Inserting a paper roll

Remove the printer lid. Insert a paper roll of 57 mm width and max. 70 mm diameter. Do not use recycled paper because this causes the printer to wear more quickly. Prepare the paper roll for insertion. Feed the end of the paper roll, which has been cut straight, into the printer mechanism and press the **FEED** key until approx. 10 cm of it has been transported. Depending on the intended use (calculator or journal mode), thread the paper strip through the slot in the printer lid and tear off the paper strip on the lid's tear-off edge. In the case of journal mode, thread the paper strip in the paper reel. Replace the printer lid.



3 Paper reel

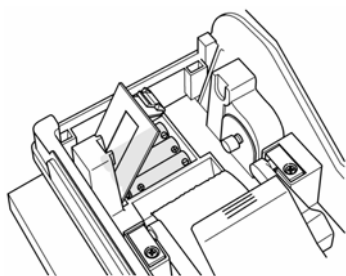
The paper reel is required when the receipt should be wound onto it. Change the system setting no. 18 to 1.



1. Open the printer lid.
2. Remove the paper reel.
3. Thread the end of the journal paper in the slit in the paper reel.
4. Insert the paper reel in the reel guides provided for it.
5. To remove the journal paper after it has been rolled up on the reel, remove the paper reel and pull the journal roll off.
6. Reinsert the paper reel.
7. Close the printer lid.

4 Inserting batteries

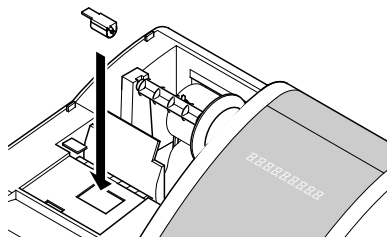
Note: Insert batteries to ensure that all the data is retained in the event of a power failure.



1. Open the printer lid.
2. Open the battery compartment cover (black flap) in the paper compartment.
3. Insert three AA round cell batteries.
Important: Pay attention to the correct position of the batteries (refer to diagram and / or identification).
4. Close the battery compartment cover.
5. Close the printer lid.
6. To ensure data retention, replace the batteries once a year with the cash register switched on.

5 Changing the colour ribbons


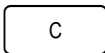









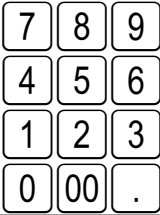


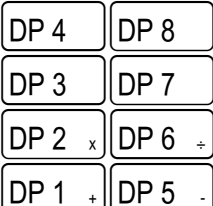
Note: Only use original colour ribbons (Group 744).







1. Open the printer lid.
2. Lift out the colour ribbon using the grip (left).
3. Insert a new colour ribbon in the guide.
4. Close the printer lid.

6 Basic features and functions

6.1 Keyboard

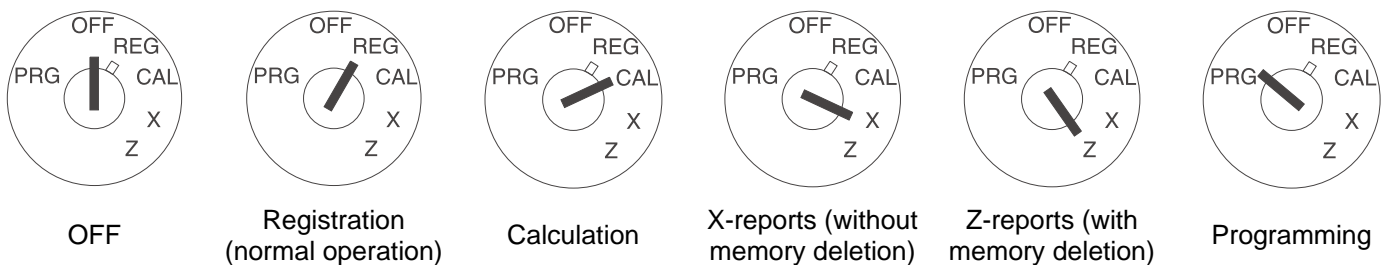
	The CASH TOTAL key is used for a cash tender transactions.
	The C key deletes all entries made using the numeric keyboard or the X/TIME key before the entries have been finalised by pressing a department or function key. The C key is also used to clear error conditions.
	Pressing the FEED key causes the receipt or journal paper to be advanced one line or continuously until the key is released.
	The REF/- key is used to subtract an amount from the total amount of a sale. The total amount registered by the REF/- key is recorded in the financial report. The REF/- key is used for refund operations. The refund total is recorded in the financial report.
	The -% key is used to subtract a percentage from the total amount of a sale. The total amount registered by the -% key is recorded in the financial report.
	Press the SUB TOTAL key to display the total amount of the sale.
	The PO key (PAID OUT) is used to remove amounts from the cash drawer. The total amount registered appears separately in the financial report.
	The RA key (RECEIVED ON ACCOUNT) is used to record payments made into the cash drawer. The total amount received on account is recorded in the financial report.
	The FC key (FOREIGN CURRENCY) is used for conversions into a foreign currency.
	The CHECK key is used for cheque tender transactions.
	The CARD key is used for card tender transactions.
	Numeric keys: The numeric keys are used to enter numbers. The DECIMAL POINT key is used to enter a decimal point.
	Price look up feature (price assignment) (99 types).
	The X/TIME key is used repeat entries for departments or refunds.
	The DP keys (DEPARTMENT) are used to select departments which have been assigned a pre-programmed tax rate (or for departments with non-taxable sales).

	<p>The #/NS key (No Sale) is used for operations in which entries should not be added. It can be used to print a maximally 7 digit number on the receipt. The entry does not affect other sales totals.</p> <p>The #/NS key is used to open the cash drawer.</p>
	<p>The VOID/EC key is used to delete an incorrect entry or initiate error correction operations. The void total is recorded in the financial report.</p>
	<p>This key has a double function. Firstly, it can be used to assign a clerk to a clerk key (Clerk ON/OFF). Secondly, it can be used to switch the printout of receipts on or off (Receipt ON/OFF).</p> <p>Press the button again to switch the corresponding function on or off.</p>
	<p>The key is used to issue one or several receipts.</p> <p>(Multiple receipts are useful when changing the paper roll.)</p>

6.2 Key-operated switch

- OFF The system is inoperable.
- REG Registration mode (printing of receipts is the default setting). When Journal mode is activated (programmed with system setting no. 18.1), "Receipt On/Off" does not work.
- CAL Calculation mode.
- X The X position is used for reading the financial report (without memory deletion).
- Z The Z position is used to read the financial report (with memory deletion).
- PRG The PRG position is used for all programming processes.

The key must be set to position **REG** for normal operation (registration).



Note: Loss of data and jamming of the cash register are possible in Z and PRG operating modes. Only use these modes when you are familiar with programming and operating the cash register.

7 Keyboard assignment

FEED	VOID /EC	7	8	9	PLU	X / TIME	Clerk/Receipt ON/OFF	RECEIPT ISSUE
RA	REF/-	4	5	6	DP 4	DP 8	FC	#/NS
PO	-%	1	2	3	DP 3	DP 7	CHECK	CARD
c		0	00	.	DP 2 x	DP 6 ÷	SUB TOTAL	
					DP 1 +	DP 5 -	CASH TOTAL =	

8 Calculator



When the key is set to position CAL, the cash register operates as a calculator without printing.

The department keys 1, 2, 5 and 6 and the Cash Total key control the calculation functions:

- + Addition using DP 1 +
- x Multiplication using DP 2 x
- Subtraction using DP 5 -
- ÷ Division using DP 6 ÷
- = Total using CASH
TOTAL =

9 Programming the date



Set the key to PRG
Enter the date as 6 digits
(DDMMYY)

Confirm by pressing #/NS

Example: 1 January 2006

Input	Display	Confirm by pressing
0 1 0 1 0 6	010106	#/NS

10 Programming the time



Set the key to PRG
Enter the time as 4 digits (hhmm)

Confirm by pressing X / TIME

Example: 9:30 a.m.

Input	Display	Confirm by pressing
0 9 3 0	9.30	X / TIME

11 Programming tax rates

A maximum of four different tax rates can be programmed.



Set the key to PRG
The entry of a tax rate (1,2,3 or 4;
corresponds to storage location no.)

Confirm by pressing SUB TOTAL

Enter the tax rate (x 1000)

Confirm by pressing CASH
TOTAL =

Example: 16% as tax rate 1

Input	Display	Confirm by pressing
1	0.01	SUB TOTAL
1 6 0 0 0	160.00	CASH TOTAL =



Set the key to PRG
Enter the second tax rate

Confirm by pressing SUB TOTAL

Enter the tax rate (x 1000)

Confirm by pressing CASH
TOTAL =

Example: 7% as tax rate 2

Input	Display	Confirm by pressing
2	0.02	SUB TOTAL
7 0 0 0	70.00	CASH TOTAL =

12 Programming departments (DP)

Example 1: DP1 is an itemised department at tax rate 1 (16%) and without a fixed price.



Step 1: Define status

Set the key to PRG

Enter status S1 or S2 as 3 digits

Input	Display	Confirm by pressing
0 0 1	0.01	CHECK
0 0 0	0.00	DP 1 +

Enter fixed price or free pricing

Assign definitions to DP1 by

pressing **DP 1 +**

Status S1: 0 = itemised department, 1 = single item department

Status S2: 00 = no tax, 01 = tax rate 1, 02 = tax rate 2, 03 = tax rate 3, 04 = tax rate 4
(For information on tax rates, refer to Section "Programming tax rates")

000 = DEP operates without fixed price (free pricing), alternatively: Enter the fixed price

Example 2: DP1 is an itemised department at tax rate 2 (7%) and without a fixed price.



Step 2: Define status

Set the key to PRG

Enter status S1 or S2 as 3 digits

Input	Display	Confirm by pressing
0 0 2	0.02	CHECK
0 0 0	0.00	DP 2 x

Enter fixed price or free pricing

Assign definitions to DP2 by

pressing **DP 2 x**



Step 3: Printing

To print a list with the programmed departments, press **8** six times

Input	Display	Confirm by pressing
8 8 8 8 8 8	8888.88	CASH TOTAL =

and conclude by pressing **CASH TOTAL =**

13 Department dump report

You can print the department dump report as follows:



Set the key to PRG.

Press the **8** key six times.

Confirm by pressing **CASH TOTAL =**.

Input	Display	Confirm by pressing
8 8 8 8 8 8	8888.88	CASH TOTAL =

Department no.	1	10·00	1 TX	Fixed price or 0.00 (for free price input)
		001	CK	
	2	20·00	2 TX	Tax rate
		002	CK	
	3	30·00	3 TX	Status
		003	CK	
	4	40·00	4 TX	
		004	CK	
	5	50·00		
		000	CK	
	6	60·00		
		001	CK	
	7	70·00		
		002	CK	
	8	90·00		
		000	CK	

14 Programming Price Look Up (PLU)

PLUs are programmed in 2 steps:

1. Enter the price and department assignment for all PLUs.
2. Enter the status of the PLU and department assignment for all PLUs.
(Not necessary if the PLU is operated with a fixed price.)

Example: PLU12 for 2.50 EURO belongs to department 1.



1. PLU price and assignment:

Set the key to PRG

Press

Enter the required PLU number, confirm by pressing .

Now enter the PLU fixed price and the department assignment by pressing the department key .

The next PLU automatically appears in the display. Proceed in the same way.

Conclude input by pressing

Input	Display	Confirm by pressing
<input type="button" value="X/TIME"/>	P001 0.00	
<input type="button" value="1"/> <input type="button" value="2"/>	P 12 0.12	<input type="button" value="PLU"/>
<input type="button" value="2"/> <input type="button" value="5"/> <input type="button" value="0"/>	2.50	<input type="button" value="DP 1 +"/>
	P 13 0.00	
		<input type="button" value="X/TIME"/>

Example: PLU12 / DP1 with free pricing permitted.



2. PLU status:
Note: This step is only necessary for PLUs which operate with free pricing.

Status 0 = fixed price
 Status 1 = free pricing

Set the key to PRG

Press

Enter the PLU no. to be programmed and confirm by pressing

Enter the PLU status, assign by pressing the corresponding department key and confirm.

The next PLU automatically appears in the display. Proceed in the same way.

Conclude input by pressing

Input

Display

P001 0.00

P 12 0.12

0.01

P 13 0.00

Confirm by pressing

A **list** of the programmed PLUs can be printed out.



Set the key to PRG

Send the print job by pressing

Confirm by pressing

15 PLU dump report

You can print the PLU dump report as follows:



Set the key to PRG.

Press the key.

Input

Example: PLU 01 with Status 0 is assigned to DP 1, has a fixed price of 1.00 EURO and implements tax rate 1.

PLU no.			Status
	01	0	
Number of the assigned department	1	1 - 00	1 TX
	02	1	
	2	2 - 00	
	01	0	
	3	3 - 00	2 TX

16 Programming foreign currency

A maximum of 4 foreign currencies can be programmed.


The following information must be entered for the programming process:

- Foreign currency identification: 1, 2, 3 or 4.
- Decimal places for the exchange rate (EXP): 0 to 8 decimal places are possible
- Decimal places for the foreign currency (D.P.): 0 to 3 decimal places are possible
- Exchange rate (RATE): 6-digit entry from 000001 to 999999

The digits for this setting are entered in the following way for programming purposes:

Enter the <digit for foreign currency identification> and confirm by pressing .












The following digits are then entered in succession without any spaces or other intermediate characters:

<Digit for EXP> <Digit for D.P.> <Digits for RATE> The entry of these digits is confirmed by pressing the  key.

Example: EURO to US Dollars (1 USD = 0.76494 EURO) as foreign currency no. 1




Set the key to PRG
 Foreign currency 1 = 1
 EXP = 5
 D.P. = 2
 RATE = 076494

Input	Display	Confirm by pressing
	0.01	
       	520764.94	

17 Programming system settings

The basic program of the cash register is stored in the system settings.



Set the key to PRG
 The system settings are entered as
 2 or 3 digit numbers.
 The input is confirmed by pressing
.

Example: Change the time display to the 24-hour format.

Input	Display	Confirm by pressing
 	40	

Note: The **standard settings** appear in **bold** print.

System setting no.	Status no.	Setting
1	0	Decimal point position: 0 (no point)
	1	Decimal point position: 0.0
	2	Decimal point position: 0.00
	3	Decimal point position: 0.000
2		(reserved)
3	1	Net price (exclusive of tax)
	2	Gross price (including tax)
4	0	Time: 24-hour format
	1	Time: 12-hour format
5	0	Print total tax amount: No printing
	1	Print total tax amount: Print
6	0	Print taxable amount for each tax rate: No printing
	1	Print taxable amount for each tax rate: Print
7	0	Date format: Month-Day-Year
	1	Date format: Day-Month-Year
8	0	Clerk system not active
	1	Clerk system active
9	0	Clerk log on not active after each transaction
	1	Clerk log on active after each transaction
10	0	Print extra line "Net total": No printing
	1	Print extra line "Net total": Print

- Continued on next page -

- Table, continued -

Note: The **standard settings** appear in **bold print**.

System setting no.	Status no.	Setting
11	0	Zero skip printing for Z-report
	1	No zero skip printing for Z-report
12	0	Zero price of a PLU or department not permitted
	1	Zero price of a PLU or department permitted (default)
13	0	No special European rounding*
	1	European rounding: Swiss
	2	European rounding: Swedish
	3	European rounding: Danish
14	0	Printing of an additional bill permitted
	1	Printing of an additional bill not permitted
15	0	Z1 and Z2 counters are not deleted after Z-financial report printout
	1	Z1 and Z2 counters are deleted after Z-financial report printout
16	0	Grand Total is not deleted after Z1 financial report printout
	1	Grand Total is deleted after Z1 financial report printout
17	0	Grand Total is not printed on the financial report
	1	Grand Total is printed on the financial report
18	0	Calculator mode
	1	Journal mode
19	0	Basic currency is the local currency (amount ÷ conversion factor)
	1	Basic currency is foreign currency (amount × conversion factor)
20	0	Refunds are printed on the financial report
	1	Refunds are not printed on the financial report

*** Note on system setting no. 13:**

If no European rounding is selected, the payment amount is rounded according to the following methods.

Rounding is performed when  or  key is pressed.

Swiss rounding:

- 0.01 – 0.02 = 0.00
- 0.03 – 0.07 = 0.05
- 0.08 – 0.09 = 0.10

Swedish rounding:

- 0.00 – 0.24 = 0.00
- 0.25 – 0.74 = 0.50
- 0.75 – 0.99 = 1.00

Danish rounding:


- 0.00 – 0.12 = 0.00
- 0.13 – 0.37 = 0.25
- 0.38 – 0.62 = 0.50
- 0.63 – 0.87 = 0.75
- 0.88 – 0.99 = 1.00


The system settings set can be printed out.



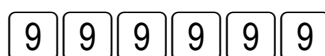
Printing system settings:

Set the key to PRG

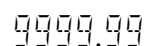
Press  6 times,

conclude by pressing .

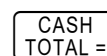
Input



Display



Confirm by pressing



18 System settings dump report

You can print the System Settings Dump Report as follows:



Set the key to PRG.

Press the **9** key six times.

Confirm by pressing **CASH TOTAL =**.

Input

9 9 9 9 9 9

Display

9999.99

Confirm by pressing

CASH TOTAL =

System settings	01	2	RA	Status
	03	2	RA	
	04	0	RA	
	05	1	RA	
	06	0	RA	
	07	1	RA	
	08	0	RA	
	09	0	RA	
	10	1	RA	
	11	0	RA	
	12	1	RA	
	13	0	RA	
14	0	RA		
15	0	RA		
16	1	RA		
17	0	RA		
18	0	RA		
19	0	RA		
20	0	RA		
	10· 00	-%	-%	- % rate
Tax rates	10· 000	1TX		
	20· 000	2TX		
	30· 000	3TX		
	40· 000	4TX		
Foreign currencies	02000001	1 @		
	02000001	2 @		
	1234 Z			Z report password
Clerk passwords	#1	111		
	#2	222		
	#3	---		
	#4	---		
	#5	---		
	#6	---		
	#7	---		
	#8	---		

19 Clerk system

The clerk system is deactivated by default. It can be activated or deactivated; status identifier 0 signifies "not active", status identifier signifies 1 "active" (system setting no. 8).

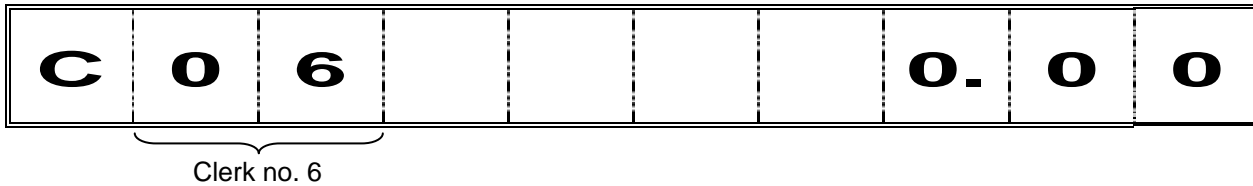


Set the key to PRG
Press the **8** **1** keys
and confirm by pressing **RA**.

Example: Activate the clerk system.

Input	Display	Confirm by pressing
8 1	0.00	RA

When the clerk system is activated, the clerk number appears in the display:



19.1 Using the clerk system without password (default)

This only works when the clerk system is activated (see above). If no password has been programmed for the clerk (default 000), he/she can only log on using their clerk number.



Logging on:
Set the key to REG.
Enter the single digit clerk number
and conclude by pressing **Clerk/Receipt ON/OFF**.

Example: Cashier with clerk number 6 logs on.

Input	Display	Confirm by pressing
6	0.06	Clerk/Receipt ON/OFF

Up to 8 clerks can be registered in the system.



Logging off:
Turn the key switch from REG to OFF,
and then back to REG.
The new cashier must now log on.

Example: A cashier logs off.

System setting no. 9 can be used to request a clerk to log on again after each completed registration.

19.2 Clerk system with password

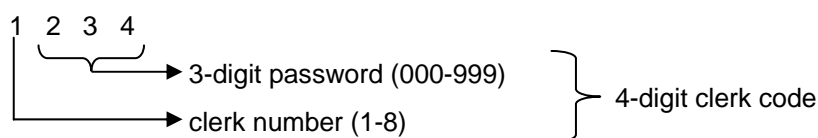
It is possible to protect clerk log on codes by means of a password.

Clerks then log on using their clerk number and associated password.

The password is a 3-digit code (000 to 999).

The clerk number and password thus comprise the 4-digit clerk code.

Clerk code structure





Logging on:

Set the key to REG.

Enter the single digit clerk number, enter the 3-digit password directly following and conclude by pressing .

Example: Clerk no. 1 logs on with his password "456" (clerk code: 1456).

Input	Display	Confirm by pressing
1	1	
4 5 6	14.56	

If an incorrect password is entered, error message **RE LL** appears in the display.

Clerks remain logged on until they log off properly (see above).

19.3 Programming clerk passwords



Example: Programming the passwords for clerk no. 1 (password: 456) and clerk no. 2 (password: 987).

Set the key to PRG

Activate Programming mode for clerk passwords:

Press 6 times

Input	Display	Confirm by pressing
4 4 4 4 4 4	4444.44	

Confirm by pressing

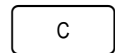
Enter all the passwords in sequence (max. 8 passwords).

Enter the 4-digit clerk code (1-digit clerk number plus 3-digit password) and conclude by pressing .

1 4 5 6	14.56	
2 9 8 7	29.87	

Exit Programming mode for clerk passwords:

Press .



20 Clearing errors

Incorrect entries and error status (acoustic signal) can be cleared by pressing .

21 Registration according to departments

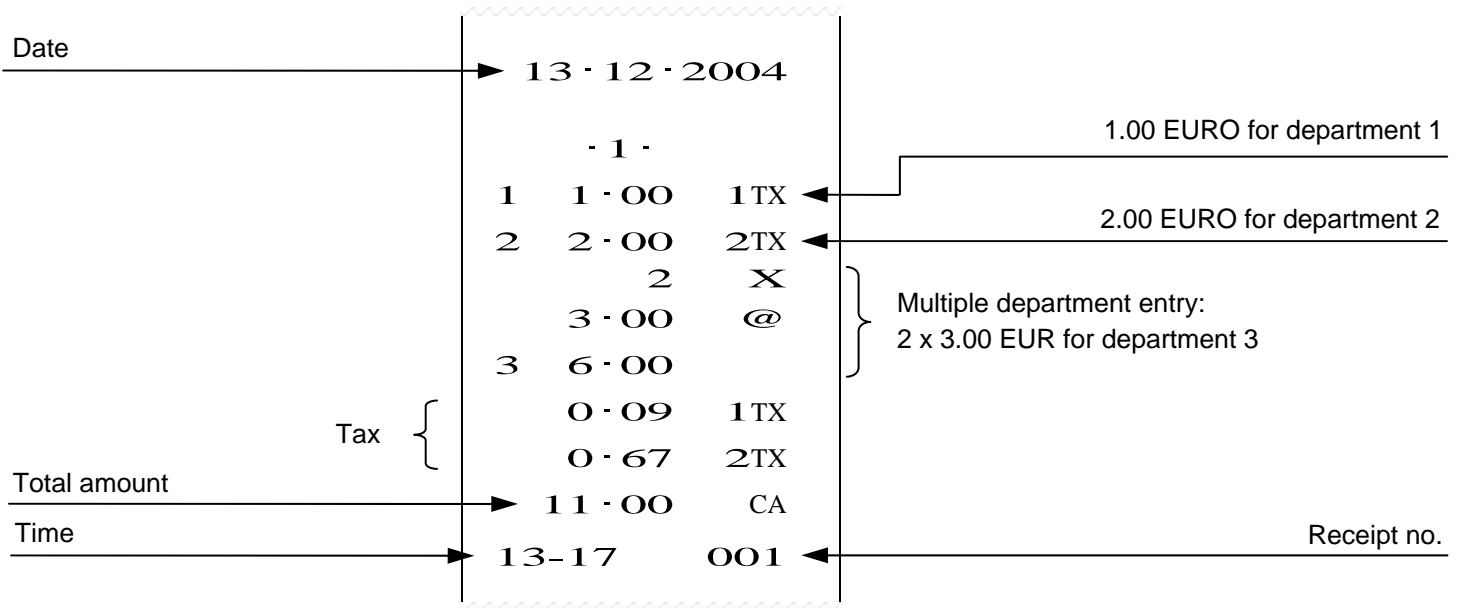
Enter price without decimal point (max. 7 digits).

Price	Department
PPPPPP	

Or: If the same PLU should be registered several times:

No. of PLUs	Price	Department
NN		

The sum of NN x PPPPPP is limited to the maximum capacity of the cash register.



22 Registration according to PLU numbers

Enter the PLU number (max. 3 digits)



Or: If the same PLU should be registered several times:



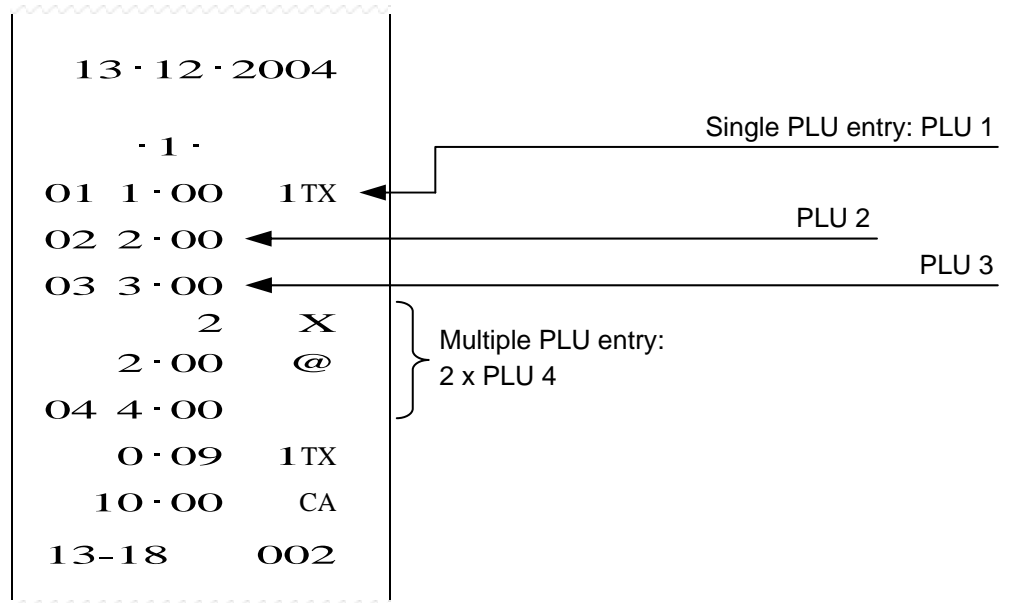
The sum of NN x PLU price is limited to the maximum capacity of the cash register.

Or: When a PLU is being used which has been programmed with free pricing:



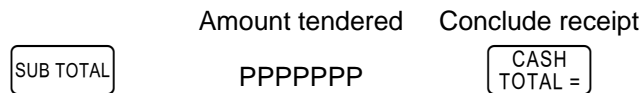
Or: When a department or PLU should operate with minus:





23 Conclude receipt

When all the PLUs have been registered, press the **SUB TOTAL** key to display and print the subtotal.
 Enter the amount paid without a decimal point and conclude the receipt by pressing **CASH TOTAL =**.



24 Foreign currency payment

When all the PLUs have been registered, press the **SUB TOTAL** key to display and print the subtotal.
 Enter the foreign currency identification and press **FC**. The total is displayed in the foreign currency. After pressing **FC** again, the local currency is displayed. Enter the amount tendered in the local or foreign currency and conclude the receipt by pressing **CASH TOTAL =**.

Example: A customer pays a bill amounting to 15.- EUR with 20 US Dollars.

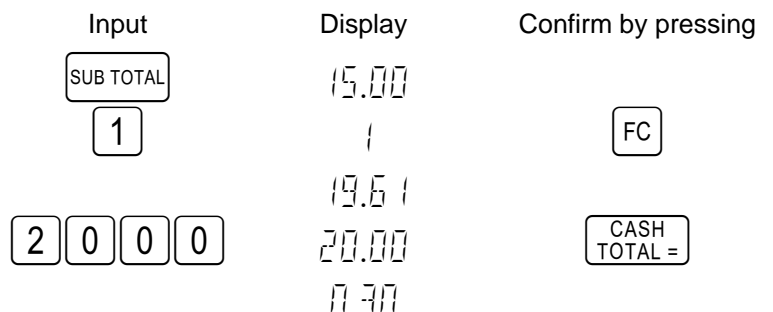


Set the key to REG

After the transactions have been registered, produce the subtotal.

Enter the foreign currency identification (in this case: US-Dollar = foreign currency identification 1) and confirm.

Enter the amount received in the foreign currency mode and conclude the receipt.



Example: The customer receives either 30 Euro Cents or 39 US Cents change.

25 Error correction and void

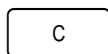
Faulty registrations can be corrected immediately after entry or later in the transaction.

Error correction (direct): The last item entered during a registration can be corrected directly.



Correction is completed

Void (designated correction): Errors in amounts, PLU prices and department prices in transaction entered previously can be corrected during the registration.



Void function is activated



Then press the Void key.

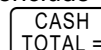
Enter same PLU or total of the department again.
(Complete the registration to be cancelled.)

Correcting refund/returned goods: Registrations via amounts, PLU numbers or department prices which have already been concluded can be reverted.



Refund function is activated Complete the registration to be reverted

Conclude with



26 Other functions



Cash register is opened





For cash payments out of the drawer, enter the amount and press the key.



For payments received on account, enter the amount and press the key.



Following a registration or conclusion of the subtotal, a percentage discount can be entered.

Example: Entry for 5%:  



Prints a receipt when the print receipt function has been switched off via the  key.

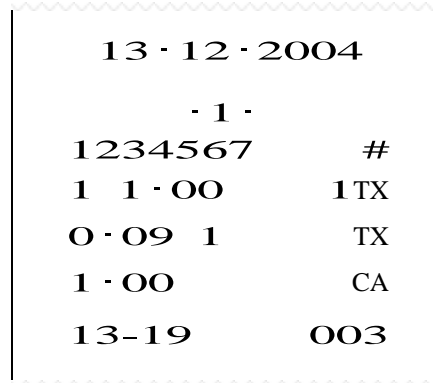


1. Clerk log on (when clerk system is active).
2. The key switches receipt printing off. Receipt OFF is indicated in the display by a dot.

27 Operations using the #NS key



The **#NS** key is a non-add key which can be used to enter a maximally 7-digit number.
The entry is not added to any activity or sales totals.

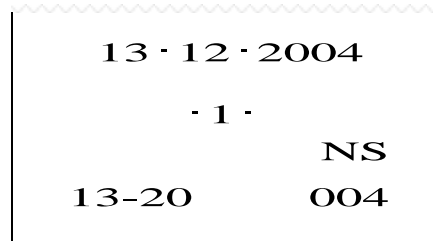


28 No sale operations



A no sale operation will simply open the cash drawer.
However, the financial report records the no sale activity count.

To open the cash drawer, simply press **#NS**.



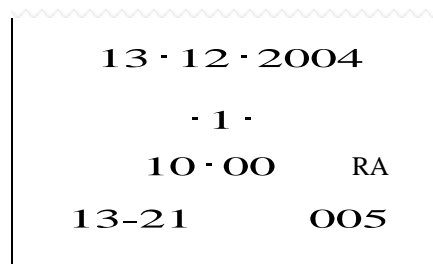
29 Received on account operations



Set the key to REG.
Enter the amount to be placed in the cash register (max. 7 digits)
and then press the **RA** key.

Example: 10 EUR are placed in the cash register.

Input	Display	Confirm by pressing
1 0 0 0	10.00	RA



30 Paid out operations



Set the key to REG.

Enter the amount withdrawn from the cash register (max. 7 digits) and then press the **PO** key.

Example: 5 EUR were paid out of the cash register.

Input	Display	Confirm by pressing
5 0 0	5.00	PO

13 · 12 · 2004	
· 1 ·	
-5 · 00	PO
13-22	006

31 Programming the -% key

You can enter a discount value from 0.00 to 99.99%.



Set the key to PRG.

Enter the discount using 4 digits.
(10% = 10.00 %).

Confirm by pressing **-%**.

Example: 10% discount

Input	Display	Confirm by pressing
1 0 0 0	10.00	-%

Note: The attribute of -% in REG mode is identical with the attribute of the item (DP or PLU) registered just before. When -% is used after Subtotal, it is applied to all the items in the current registration.

13 · 12 · 2004	
· 1 ·	
10 · 00	-%
13-23	007

32 Printing a receipt later

Note: This function can be performed when the following conditions are fulfilled:

- The key is set to REG.
- System setting no. 18 is set to status 0 (Journal mode).
- System setting no. 14 is set to status 0 (printing a receipt later is permitted).



Set the key to REG.

Press the **RECEIPT ISSUE** key after completing a transaction to print a receipt.

Input



33 Receipt on / off



Set the key to REG.

When the cash register is configured to print receipts, press the key to deactivate the receipt printing function.

Press the key again to reactivate receipt printing.

Input



34 Calculator mode

In Calculator mode, the operational keys are limited to the following keys. No printing can be carried out when this mode is activated.

Key	Meaning	Key	Meaning	Key	Meaning
	Clear		+		00, 0 - 9
	=		X		
			-		
			÷		

Note 1: When a result from a division includes a fraction, it is rounded to the nearest integer after rounding up/down (5/4) the first decimal position.

Note 2: When Calculator mode is active, the key tone is suppressed.

34.1 Addition and subtraction



Set the key to **CAL**

Calculation:

```

500
+ 90
- 15
- 20
-----
= 555
    
```

Input

+ 500

+ 90

- 15

- 20

= 555

0

Confirm by pressing



34.2 Multiplication and division



Set the key to **CAL**

Calculation:

$$\begin{array}{r} 500 \\ \times 2 \\ \hline \div 4 \\ \hline = 250 \end{array}$$

Input	Display	Confirm by pressing
5 0 0	+ 500	
DP 2 x 2	x 2	CASH TOTAL =
	= 1000	
DP 6 ÷ 4	÷ 4	CASH TOTAL =
	= 250	

34.3 Memory

A value is saved to the memory using the **SUB TOTAL** key; a value is retrieved from the memory using the **PO** key.

When working with the memory, it does not matter if the value to be saved is the result of a calculation in CAL mode (see above) or from within a normal product registration in REG mode.

The memory can be used in both modes:



Set the key to **REG**

Calculation (part 1):

$$\begin{array}{r} 10 \\ + 20 \\ \hline = 30 \text{ (save)} \end{array}$$

Input	Confirm by pressing	Display
1 0 0 0	DP 1 +	01 10.00
2 0 0 0	DP 2 x	02 20.00
	SUB TOTAL	5 30.00

Save with the **SUB TOTAL** key.

Retrieve with the **PO** key.



Set the key to **CAL**

Calculation (part 2):

$$\begin{array}{r} 30 \text{ (from the memory)} \\ \div 3 \\ \hline = 10 \end{array}$$

Input	Display	Confirm by pressing
PO	- 30.00	
DP 6 ÷ 3	÷ 3	CASH TOTAL =
	= 10	



Set the key to **REG**

PO	10.00	
CASH TOTAL =	20.00	
PO CASH TOTAL =	10.00	
PO CASH TOTAL =	C 0.00	

```

13 · 12 · 2004

· 1 ·

1 10 · 00  1TX
2 20 · 00  2TX
  30 · 00   ST
  0 · 91  1TX
  3 · 33  2TX
10 · 00   CA
10 · 00   CA
10 · 00   CA
  0 · 00   CG

13-24    008
    
```

35 Training mode



Start Training mode:

Set the key to PRG

Press **6** 6 times, conclude by pressing **CASH TOTAL =**.

Input

6 6 6 6 6 6

Display

.....

Confirm by pressing

CASH TOTAL =



To operate in Training mode:

Set the key to REG

To indicate that Training mode is active, a point appears at the 6th position in the display.

Note: No reports can be printed in Training mode.



End Training mode:

Set the key to PRG

Press **5** 6 times, conclude by pressing **CASH TOTAL =**.

Input

5 5 5 5 5 5

Display

.....

Confirm by pressing

CASH TOTAL =

36 Z-report security code

Management reports can be printed when the key-operated switch is set to position "X" or "Z". When printing with the key in position "Z", transaction totals are reset to zero. Assigning a security-code can prevent an accidental reset of transaction totals. Once assigned, "Z" reports can only be printed after entering the security code.

36.1 Programming the Z-report security code

Note: Assign a number easily remembered. You should also keep the programme receipt as a reminder. If you do forget the code, reset this program by entering a new code. Then, print the report using the new code.



Set the key to PRG.
Enter the security code as 4 digits.
Confirm by pressing .

Example: "6543" is to be programmed as the new security code.

Input	Confirm by pressing	Display
6 5 4 3		65.43

36.2 Entering the Z-report security code



Set the key to Z
Enter the security code. Confirm by pressing .
If the security code is preset to "0000", simply press the key.

Example: Enter security code "6543".

Input	Display	Confirm by pressing
6 5 4 3	65.43	

37 Notes on the management report

This section provides instructions on producing reports. Reports can be produced with the key switch in position X or Z.

1. X position - produces the financial report.
2. Z position - produces the financial report and resets totals to zero.

The printout of the financial report is identical in positions X and Z. The only difference is that after printing a Z-report, the totals are reset to zero.

37.1 Printing reports



X-reports: Without memory deletion. **Z-reports:** With memory deletion.
Set the key to X (to print X-reports) or Z (to print Z-reports) as necessary.



Report type:	Start printout with
Day's X and Z financial report	
Day's X and Z PLU report	
X and Z-clerk report	
Monthly X2 and Z2 financial report	
X and Z training report	

37.2 Sample receipt: Z1 - day's financial report

13 - 12 - 2004		Date
002	1Z	Z1 counter (3-digit)
003	--	Number of registrations in department 1
1 350.00	1TX	Sales for department 1
001	--	Number of registrations in department 2
2 100.00	2TX	Sales for department 2
450.00	ST	Sales of all departments
41.37	1TX	Total tax 1
258.63	-TX	Net total without tax 1
6.54	2TX	Total tax 2
93.46	-TX	Net total without tax 2
47.91	#TX	Total tax
-50.00	- %	Total percentage discount
400.00	ST	Total sales (receipts minus deductions)
352.09	#ST	Net total (receipts minus tax)
-50.00 --		Minus and refunds
004		Number of cash payments
300.00	CA-	Total cash payments
001		Number of card payments
100.00	CH	Total of card payments
001		Number of received on account transactions
20.00	RA	Total of received on account transactions
001		Number of paid out transactions
-20.00	PO	Total of paid out transactions
51.13	1@	Total of foreign currency
002	##	Number of "No Sale" transactions
300.00	#CA	Cash in drawer
400.00		Grand total (total amount of payments made with card and in cash)
13-45	009	Time and receipt no.

38 Clearing functions: reset grand total and Z counter



Start Training mode:

Set the key to PRG

Press the **2** and **0** keys.

Conclude by pressing **RA**.

Input

2 **0**

Display

20

Confirm by pressing

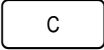


RA

Proceed as follows to reset the cash register to its initial state and clear all the programmed values:

1. Disconnect the cash register power plug.
2. Open the battery compartment and remove the 3 AA batteries.
3. Leave the cash register without any power supply for 10 minutes; all the data is deleted as a result.
4. Replace the batteries and reconnect the power plug.

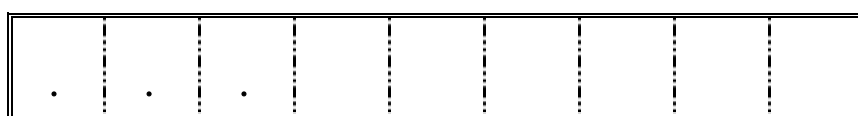
39 Error messages

Error messages appear in the display in the case of incorrect operation.



Error message	Cause	Corrective measure
E	Wrong key pressed.	Press  .
ΣEE--C0IE	A password has been programmed for Z-reports.	Enter the 4-digit password, press  .
ΣEE--C0IE	A password has been programmed for the clerk.	Enter the clerk number. Then enter the 3-digit password. Conclude by pressing  .

40 Measures if the cash register fails to print

In the event the cash register fails to print receipts or reports, check whether a special function has been activated. Special functions are indicated by a dot in the display:




The cash register is in Training mode; no reports can be printed in this mode.

What to do: Deactivate Training mode. To do this, set the key-operated switch to PRG and press  6 times. Conclude by pressing .

(Also refer to the Section "Training mode".)

The Receipt function has been deactivated on the cash register. There is no paper transport and, therefore, no receipt is printed.

What to do: Press the  key to activate the receipt printing function.

The cash register is in Calculator mode; the key-operated switch is set to CAL.

There is no paper transport in Calculator mode. In addition, only the calculation keys are operational.

What to do: Set the key to REG.

41 Printer malfunction

In the event of a printer error, switch off the cash register immediately and disconnect the power plug. Check the paper roll is inserted correctly or whether there is a foreign body in the printer mechanism. Remove it, if present.

Caution: Remove the foreign body very carefully. Do not use a knife, screwdriver or anything similar. Never use force. This could damage the printer mechanism.

Switch the cash register on again and complete a registration.
If the printer error reoccurs, contact the service centre.