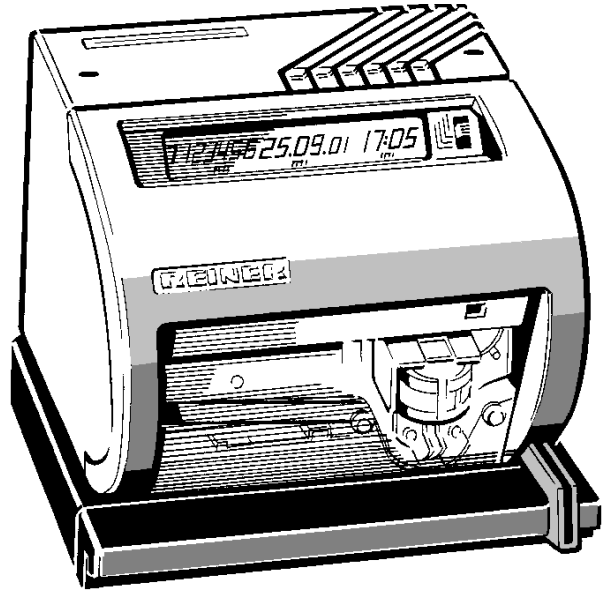
REINER

Operating Instructions

Multi - Printer
Models 780 / 785 / 787

Multi-purpose electronic stamp
with selectable printing functions



Version 4.5

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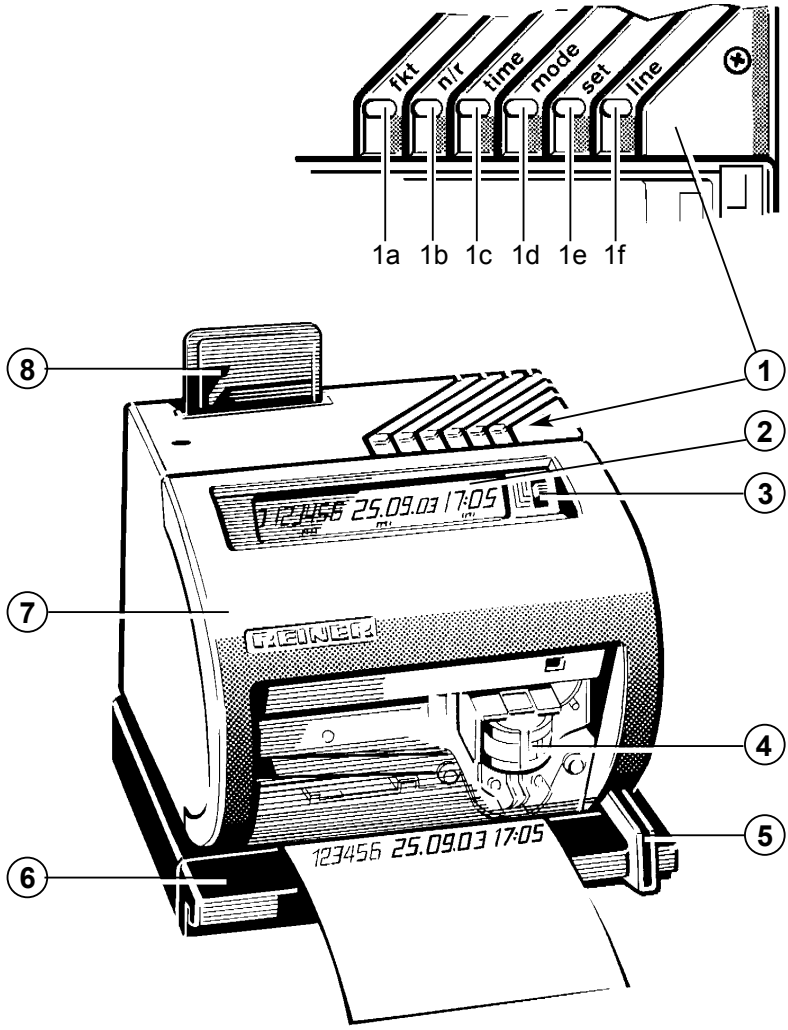
Safety instructions

In this section, you will find safety instructions that you must always observe when handling and working with your Electronic Stamp.

- This machine complies with the relevant safety regulations for information technology equipment, including office machinery
- Transport the machine only in its original package or other suitable package that provides protection against shock and impact
- If the machine is taken from a cold environment into a warm room, dew may form on it. Wait until the machine has warmed up to room temperature and is absolutely dry before starting to use it.
- Check that the local mains supply corresponds to the voltage, given on the typeplate
- This machine is intended for use with a safety-tested mains supply and must only be connected to a mains socket with a protective earth
- Make sure that the locally-installed mains socket with protective earth, which you use to connect the machine, is readily accessible
- The machine has no ON / OFF switch. To disconnect it from the mains, you must pull out the plug.
- Arrange the connection leads so that they do not create a hazard (danger of tripping) and cannot be damaged.
- Take care that no objects (e.g. necklaces, paper clips etc.) or liquids fall into the machine (danger of electric shock or a short circuit)
- In an emergency (e.g. in the event of damage to the machine casing, control elements or the mains lead, or if an object or liquid falls into the machine) disconnect the mains plug and notify your sales agent or our service department
- The machine contains components that carry a dangerous voltage when the machine is in service. The machine must only be opened by a qualified service-man. After maintenance or repair, the effectiveness of electrical protective measures must be checked to DIN VDE 0701. Unauthorised opening of the machine casing and improper repairs can cause considerable danger to the user (electric shock, fire hazard).
- Avoid contact with freely-accessible PCB components, electrostatic discharge could damage the machine or cause malfunctions
- Freely-accessible PCB components **do not** carry mains voltage

Controls



1	=	Keypad	2	=	Display
1a	=	Key **[fkt]**	3	=	Trigger mode switch
1b	=	Key **[n/r]**	4	=	Print head
1c	=	Key **[time]**	5	=	Side stop
1d	=	Key **[mode]**	6	=	Feedplate (table trigger)
1e	=	Key **[set]**	7	=	Front cover
1f	=	Key **[line]**	8	=	Chip card for Model 785 / 787

Transport lock

- Take out carton next to the print head on the left.
  Attention! While taking out the carton don't pull out the ink ribbon.

- Take out carton on the left between upper part of machine and document table

Choosing a suitable location

The choice of location for a REINER Multi-Printer is not particularly critical. However, for safe, correct operation, please observe the following points:

- Place the machine on a stable, smooth, and level surface in a room with adequate ventilation (see also page 38, 'Technical data')
- If the radio-clock function is to be used, make sure there is good radio reception
- Make sure that the mains socket which you use to connect the machine is readily accessible

Mains connection and commissioning

Make sure that the device is connected to the correct mains voltage as specified on the type plate on bottom of the device.
~ 230 V, 50 Hz or ~ 115 V, 60 Hz

Note

The device is also intended for IT - performance distributing net with a phase voltage of ~ 230 V

After plug in of the mains connector, the display indicates the following:

01 rep **000000** num **27.05.08** date **09: 38** h min (see also page 17, imprint no. 38)

Accumulator

Note

The accumulator saves data at power failure and is also sufficient for a limited number of prints (see page 38, 'Technical data').

Meaning of the accumulator symbol in the display:

- **Device is connected to mains:**

is not displayed :	Accumulator is fully charged.
is flashing : (by high frequents of printing)	With constantly frequenting of printouts, it is possible to trigger up to 100 prints. Following the display **CHArGE bAT** will appear.
Display CHArGE bAT :	Accumulator is charging, device not yet ready for use. The device is ready again in approx. 15 minutes. The accumulator is fully recharged after approx. 20 hours.

- **Device is not connected to mains:**

is displayed :	Unit is in accumulator operation
is flashing :	Accumulator is close to be discharged. About 100 prints are possible, subsequent the display **EMPTY bAT** will appear.
Display shows EMPTY bAT or no display:	Accumulator is discharged. Stamping is not possible. Connect the device to the mains, after that the display **CHArGE bAT** will appear.

Setting the date and time

Note

- Date and time can only be set if a selected imprint contains at least the date (see pages 13 ... 17)
- The device disposes of dual input of time and date, designated as **date 1** and **date 2**

  Date 1 will be used for the internal stored imprints

  Date 2 will be used exclusively in 785. In this case, *date 1* and *date 2* are used for special stamp pictures, stored on the chip card

Setting:

- Press **[time]** : The display shows **MInUTE 1**
  The date and time appear and the minutes are flashing.

  If **PASS 0000** appears in the display, then date and time setting is protected by a password. Enter the password via the keys **[set]** and **[mode]** (see also page 25, 'Password clock')

- Press **[line]** to switch between ***Date 1*** and ***Date 2*** .
  The display changes corresponding between **MInUTE 1** and **MInUTE 2**

- Press **[set]** repeatedly until desired minutes appear

- Press the key **[mode] :** The hour display flashes.
  Set the value of hours with **[set]** as described above

- Press the key **[mode]** for successively calling the year, month and day and set in each case with the key **[set]**

- Press **[time]** to exit the date and time settings.
  The set imprint appears on the display.

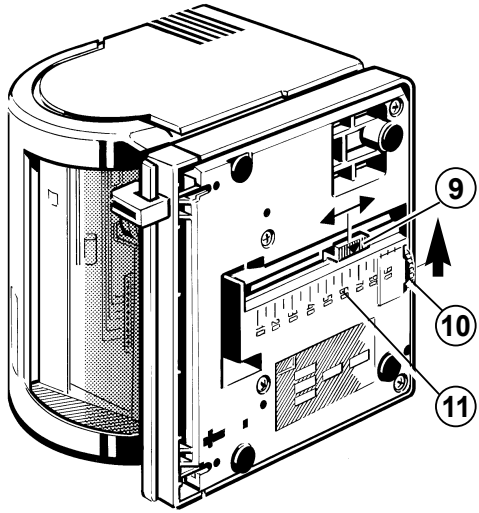
The printing process can only be triggered when no numerals or words are flashing in the display. If necessary, press **[time]** or **[n/r]** to stop the display from flashing. The printing process can be triggered in various ways, selected by the trigger mode switch (3).
Take off the front cover and set the trigger mode switch to the desired trigger mode by pushing it up or down.

Description of the different trigger modes:

1 = Printing **only** by pressing down the feedplate
2 = Printing **only** by depth stop with contact switch
3 = Printing by depth stop with contact switch **and** pressing down the feedplate
4 = Printing by depth stop with contact switch **or** by pressing down the feedplate

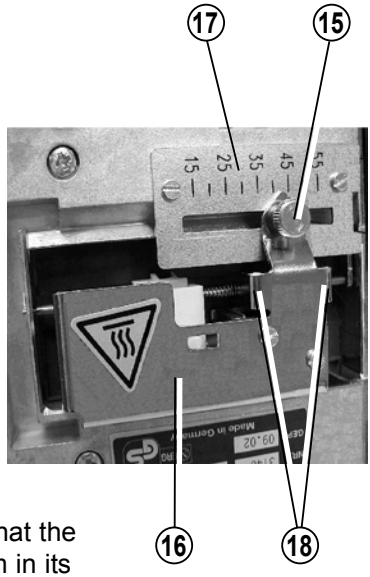
Model 780 - 785: Setting of the depth stop with contact switch

- Place the device on its left side
- Turn the red wheel (10) in the direction of the arrow to ***position 1*** (see figure)
- Press down the yellow slide (9) and move it to the desired value on the scale (11). (scale value = distance from the top edge of the paper to the centre of the imprint in mm)
- Release the yellow slide (9)
- Set the desired trigger mode



Model 787: Setting of the depth stop with contact switch

- Move the trigger mode switch (3) to position 2
- Tip the machine on to its left side
- Loosen the clamping screw (15)
- Move the complete depth-stop assembly (16) to the required dimension on scale (17) (scale value = distance from upper margin to bottom edge of impression in millimetres)



Caution

Be careful: Danger of squeezing the fingers! The depth-stop (16) may be hot.

When adjusting, take care that the depth-stop unit does not jam in its guide. Touching the depth-stop unit near its guide axis (18) helps to prevent jamming.

- Retighten the clamping screw (15)
- Set the desired kind of triggering (see page 9)

Switching off the depth stop with contact switch

- Push the yellow slide (figure on page 9) to scale value 95
- Turn the red setting wheel (10) in the opposite direction of the arrow (figure on page 9) to position 0
- Turn the trigger mode switch (3) to the desired kind of triggering

Note

With Model 787, the depth stop cannot be switched off

Setting of the side stop

The red side stop for documents is located at the feedplate.
The adjustment can be carried out by moving the stop lateral.

Test of the imprint position

- Carry out a test imprint

Note

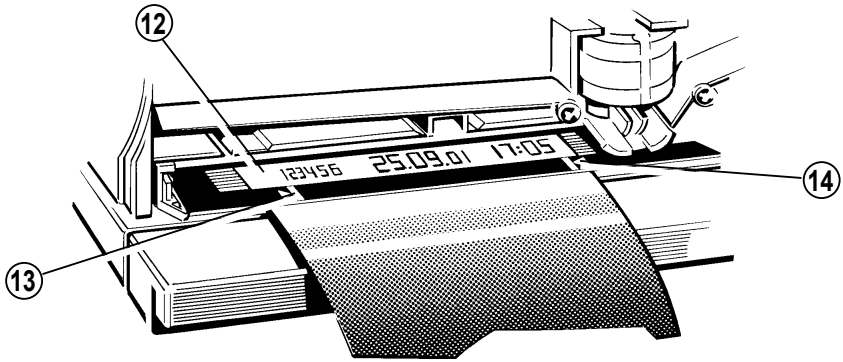
The rectangular cut-out (12) in the foil mask marks the printing position. The imprint commences at the left mark (13) on the foil mask

Activating upside down imprint

- Keep the key **[fkt]** pressed and at the same time press the key **[set]**
  An upside down symbol appears at the top right of the display.
  The imprint commences at the right mark (14) on the foil mask.

Note

To switch off upside down imprint, press the keys **[fkt]** and **[set]** again.
The symbol disappears from the display.



Setting the imprints

Note

Altogether there are 39 standard imprints stored in the device. An overview of the stored imprints is shown on the pages 13 ... 17. To select a desired imprint, enter its corresponding number as follows:

- Press the key **[mode]** for at least 5 seconds until **SETTinGS** appears in the display
  If **PASS 0000** appears, the settings are protected by a password. Enter the password via the keys **[set]** and **[mode]**
- Press **[line]** — the display shows **ChiPCArd**
- Press **[mode]** — the display shows **ST PiCTUrE**
- Press **[line]** — the number of the imprint is displayed with one digit flashing
- **Entering the number:** Press **[set]** repeatedly, until the desired tens digit number is shown
- Press **[mode]** — the next digit is flashing
- Press **[set]** — repeatedly until the desired digit is shown
- Press **[n/r]** — repeatedly, until the imprint appears in the display

Note

By setting **imprint 00** (possible only at Mod. 785 and 787) the device prints exclusively data stored on a chip card.
(see also page 28, 'Additional functions in Model 785 + 787')

Examples of imprint no. 38 with explanations:

QUIT. 123456 **29.05.08** **09:40**
pre-text number date time

123456 **29.05.08** **09:40** BSP
number date time operator's identification from chip card

Stored imprints

Note

The following imprints are shown below at their actual size. An imprint which can be expanded with a pre-text is shown under this with a pre-text example. The pre-texts and the names of the months depend on the set language (see page 23).

	No.	Imprint	Operator's identification Mod. 785/787
	00	*Reserved for use of chip cards with customized imprints and functions (Mod. 785 and 787)*	yes
Daters	**01**	**29. MAY 2008**	yes
		SENT 29. MAY 2008 (pre-text sample)	yes
	02	**29. 05. 2008**	yes
		RECVD 29. 05. 2008 (pre-text sample)	yes
	03	**2008 - 05 - 29**	yes
		INV. 2008 - 05 - 29 (pre-text sample)	yes
	04	**MAY 29 2008**	yes
		FAX MAY 29 2008 (pre-text sample)	yes
	05	**2008 001**	yes
		RECVD 2008 001 (pre-text sample)	yes
	06	**29. MAY 2008**	yes
		PAID 29. MAY 2008 (pre-text sample)	yes

	No.	Imprint	Operator's identification Mod. 785/787
	07	free	
Numberers	08	**12345678** **RECVD 12345678** (pre-text sample)	yes yes
	09	**12345678** **SENT 12345678** (Pre-text sample)	yes yes
	10	**12345678** **INV. 12345678** (pre-text sample)	yes yes
Numerical stamps	11	**1234567890** **FAX 1234567890** (pre-text sample)	yes yes
	12	**1234567890** **FAX 1234567890** (pre-text sample)	yes yes
	13	**1234567890** **RECVD 1234567890** (pre-text sample)	yes yes
Numberers with date right	14	**12345678 29. MAY 08** **FAX 12345678 29. FEB 08** (pre-text sample)	yes no
	15	**12345678 29. 05. 08** **FAX 12345678 29. 05. 08** (pre-text sample)	yes no

	No.	Imprint	Operator's identification Mod. 785/787
Numberer with date right	16	**12345678 08 - 05 - 29**ye	
		RECVD 12345678 08 - 05 - 29 (pre-text sample)	no
	17	**12345678 MAY 24 08**	yes
		INV. 12345678 MAY 24 08 (pre-text sample)	no
	18	**12345678 2008 001**	yes
		INV. 12345678 2008 001 (pre-text sample)	no
	19	**12345678 29. MAY 2008**	yes
		FAX 12345678 29. MAY 2008 (pre-text sample)	no
Numberer with date left	20	**29. MAY 08 12345678**	yes
		FILE 29. MAY 08 12345678 (pre-text sample)	no
	21	**29. MAY 08 12345678**	yes
		PAID 29. MAY 08 12345678 (pre-text sample)	no
	22	**08 - 05 - 29 12345678**	yes
		FAX 08 - 05 - 29 12345678 (pre-text sample)	no
	23	**MAY 29 08 12345678**	yes
		SENT MAY 29 08 12345678 (pre-text sample)	no

	No.	Imprint	Operator's identification Mod. 785/787
Numberer with date left	24	**2008 001 12345678**	yes
		RECVD 2008 001 12345678 (pre-text sample)	no
	25	**29. MAY 2008 12345678**	yes
		INV. 29. MAY 2008 12345678 (pre-text sample)	no
Date / time stamp	26	**29. MAY 08 08:45**	yes
		SENT 29. MAY 08 08:45 (pre-text sample)	no
	27	**29. 05. 2008 08:45**	yes
		FAX 29. 05. 2008 08:45 (pre-text sample)	no
	28	**2008 - 05 - 29 08:45**	yes
		FILE 2008 - 05 - 29 08:45 (pre-text sample)	no
	29	**MAY 29 2008 08:45**	yes
		RECVD MAY 29 2008 08:45 (pre-text sample)	no
	30	**2008 001 08:45**	yes
		ORDER 2008 001 08:45 (pre-text sample)	yes
	31	**MAY 29 2008 AM 08:45**	yes
		FAX MAY 29 2008 AM 08:45 (pre-text sample)	no

	No.	Imprint	Operator's identification Mod. 785/787
	32	**free**	
Time stamp with number and date	33	**123456 29. MAY 2008 08:45** (Pre-text not possible)	no
	34	**123456 29. 05. 2008 08:45** (Pre-text not possible)	no
	35	**123456 2008 - 05 - 29 08:45** (Pre-text not possible)	no
	36	**123456 MAY 29 08 08:45** (Pre-text not possible)	no
	37	**000000 2008 001 08:45** (Pre-text not possible)	yes
	38	**123456 29. 05. 08 08:45** **SENT 123456 29. 05. 08 08:45**	yes no
	39	**123456 MAY 29 08 AM 08:45** (Pre-text not possible)	no
	40	**free**	

Setting a pre - text

Note

Pre-text cannot be set with all imprints. This is only possible if the imprint does not take the complete print line (see table on pages 13 ... 17). The desired language must be set before selecting the pre-text (see also page 23)

- Press **[n/r] :** If **PASS 0000** appears in the display, the setting of pre-text is protected by a password. Enter the password via the keys **[set]** and **[mode]**
- Press **[line]** repeatetly, until the display shows **P-TEXT**
- Select the desired pre-text with the key **[set]**
  Note: Display **_ _ _ _ _** means the setting without pre-text
- Press **[n/r] :** The selected imprint appears in the display

The pre-text is shown on the display only when an imprint *without numberer* is set

stored pre - texts:

Germany (0)	**France** (1)	**England** (2)	**Italy** (3)
EING.	RECU	RECVD	ARCH.
AUSG.	PAYE	SENT	ARR.
BEARB	COPIE	FILE	PART.
BEZ.	AVOIR	INV.	NUMER
KASSE	URGT.	ORDER	PAGAT
QUIT.	DUPLI	ENT.D	CASSA
REG.	RAPPL	DRAFT	PROT.
BEST.	ANNUL	PAID	RACC.
GEBU.	FCTE.	RECPT	REGIS
FAX	CONFD	FAX	RICEV
ERH.	ORIG	ORIG	SEGR.
ORIG.	COMPT	REG.D	VALUT

Spain (4)

ENTR.
SAL.
TRAT.
ARCHI
CAJA
PGDO.
VENT
RECIB
M.EXT
REG.
ANOT.
CONF.

Portugal (5)

ENTR.
SAÍDA
ELABO
ARQVO
CAIXA
PAGO
BALC.
RECIB
CAMBS
RGST.
LANÇ.
CONFI

Flemings (6)

ING.
UITG.
BEW.
AFLEG
KAS
BET.
LOKET
KWIT
DEV.
GEREG
GEB.
BEV.

Norway (7)

INNG.
KASSE
BET.
REG.
BOKF.
BEKR.
MOTT.
BESV.
LEV.
FAKT.
OPPL.
OPRH.

Sweden (8)

ANKOM
AVS.
BEARB
KASSA
BET.
EXP.
KVITT
DNR.
BOKF.
BEKR.
LEV.
VERIF

Danmark (9)

INDG.
UDG.
BEARB
KASSE
BET.
KVIT.
BOGF.
BESV.
LEV.
FAKT.
EKSP.
FAX

Finland (10)

SAAP.
LÄHET
KÄSIT
KASSA
KUIT.
TALL.
MAKS.
KOPIO
ARKIS
ALKUP
MITÄT
HYVAK

Poland (11)

ORYG.
KOPIA
WPL.
PILNE
WYSŁ.
AKCEP
SPR.
WAŻNE
ZAPŁ.
POUF.
DRUKI
NR

Hungary (12)

RK.
FIZ.
ÁTUT.
KÖNYV
IKT.
BEV T
KIAD.
ELL.
ORIG.
REND.
COPY
SZLA.

Czech Rep. (13)

¨
¨.J.
¨.Ú.
¨.OBJ
¨.ZAK
DAT.
ZN.
ORIG.
K.
P IJ̌.
VYD.
PLAC.

Croatia (14)

IZLAZ
ULAZ
PLAˇ
PONIŠ
TEREˇ
ISPOR

Cyrillic (15)

КОПИЯ
ВХ.No
ИСХ.No
ВАЖНО
ВЕРНО
ЦЕНА
СЧЕТ
ЗАКАЗ
ФАКС

Functional description of the Numberer (num)

Note

The Numberer enables the ongoing numbering of imprints into corresponding fields, indicated as ***num*** at the different, stored imprints (see pages 13 ... 17)

The device disposes of dual numberer:

Numberer 1 6 or 8 characters (depending on set imprint) will be used for the stored, device internal imprints

Numberer 2 (1 ... 8 characters) is used exclusive in Mod. 785 + 787 for special imprints, stored on the chip card

The **numbering field** can include following settings:

- **Setting of the starting number**
  (Setting see page 21, ***AUT nr 1*** respectively ***AUT nr 2***)

- **Setting of repetition (rep)** enables the stamping of a constant number with the set repetition factor (0 ... 99) . This is displayed at the left (excepting the imprints 11 ... 13)

- **Incremental printing** of an adjustable minimal value up to a maximal value (setting see page 23, ***Mode n1*** / ***n2***)

- **Decreasing printing** of an adjustable maximal value to an adjustable minimal value (setting see page 23, ***Mode n1*** / ***n2***)

- **Skip** of numberer (adjustable 0 ... 99)
  (setting see page 23 / 24, ***Skip n1*** and ***Skip n2***)

- **Minimal value of numberer** stored by pressing **[fkt]** and **[set]** . Symbol ⌜ appears behind **AUT nr 1** or **AUT nr 2** Repeated pressing the keys shows the stored value

- **Maximal value of numberer** stored by pressing **[fkt]** and **[mode]** . Symbol ⌟ appears behind **AUT nr 1** or **AUT nr 2** Repeated pressing the key shows the stored value

- **Reset stored values of numberer** (min. and max.)
  Reset will be executed by pressing keys **[fkt]** and **[n/r]**
  The symbols ⌜ and ⌟ disappear

Setting of Numberer / Number / Text

- Press **[n/r]** : The display shows e g **rEP 01** .
  If **PASS 0000** appears in the display, this setting is protected by a password. Enter the password via **[set]** and **[mode]**

- To scroll through available menu items, press repeatedly **[line]** .
  The choose depends on the set stamp picture.

rEP 01	=	setting of repetition factor (00 ... 99) (00 = no increment count of numberer)
P- TEXT	=	setting of pre-text (see also page 18 + 19)
AUT nr 1 000000	=	setting value of numberer 1
AUT nr 2 000000	=	setting value of numberer 2 (only Model 785 and 787 with chip card)
FIX nr 1 000000	=	setting fixed valuation of numberer 1
FIX nr 2 000000	=	setting fixed valuation of numberer 2
TExT (01 ... 12)	=	setting the contents of a text field 01 ... 12

- After selection of a menu, right-hand of it the actual value is displayed.
  The flashing position can be set by pressing **[set]**

- The remaining input-digits can be called by pressing **[mode]** and they can be set with **[set]**

  Note: By setting the character **Ξ** the corresponding digit can be used as placeholder

- Press key **[n/r]** to quit the input and leave this menu.
  The set imprint reappears in the display and Multi Printer is ready to print

Additional functions of the numberer

- Press **[fkt]** and simultaneously **[mode]** to reset the numberer to zero with retaining the repetition factor (rep)

- Press **[fkt]** and simultaneously **[fkt]** to interrupt the repetition (rep) and print the next number.
  The numberer increments to one number.

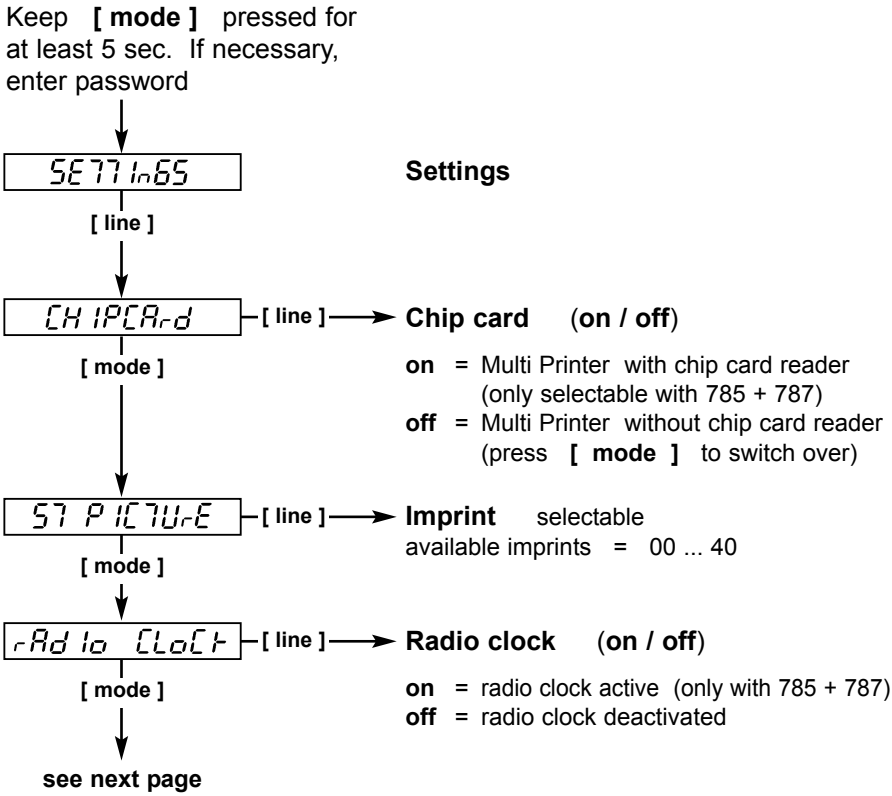
Note

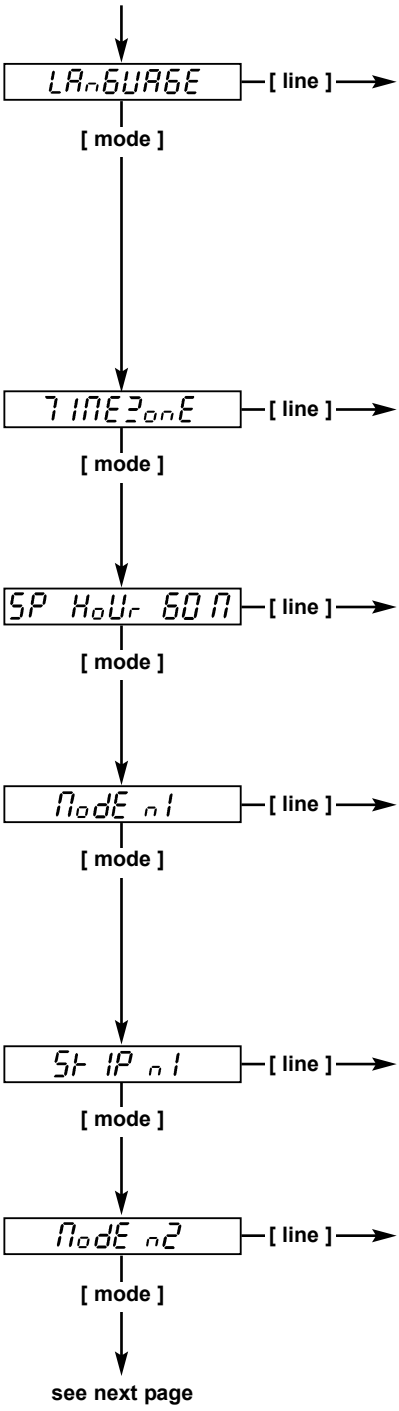
The following menu ‘Settings’ features various adjustments and configuration options of Multi Printer.

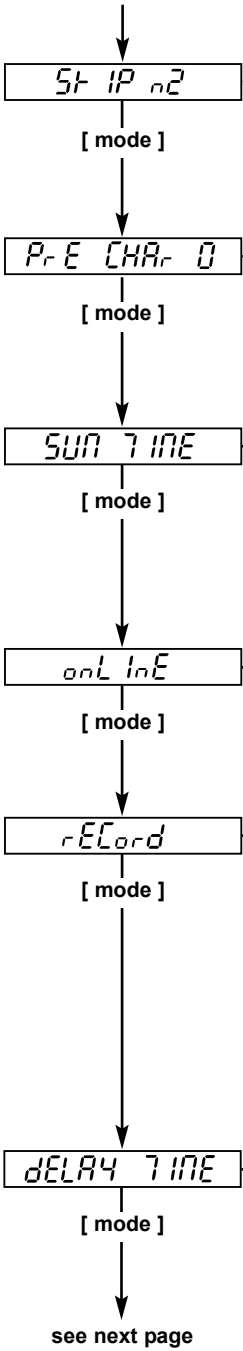
To call this menu, keep **[mode]** pressed for at least five seconds until **SETTInGS** appears in the display.
If **PASS 0000** appears, this menu is protected by a password. Enter the password via **[set]** **a**nd **[mode]** .

Description of the key-functions in menu:

[line]	calling a displayed menu level
[set]	setting of numerical values
[mode]	setting of non-numeric values. If a numerical value is displayed, the various digits will be called
[n / r]	exit the menu




LAnGUAGE
[line]
[mode]
Language selectable
00 = Germany
01 = France
02 = England
03 = Italy
04 = Spain
05 = Portugal
06 = Flemings
07 = Norway
08 = Sweden
09 = Danmark
10 = Finland
11 = Poland
12 = Hungary
13 = Czech Republic
14 = Croatia
15 = Cyrillic
TIME ZonE
[line]
[mode]
Time zone (0, 1, 2)
0 = central european time
1 = western european time (1 h after CET)
2 = eastern europ. time (1 h ahead of CET)
SP HoUr 60 n
[line]
[mode]
Splitting hours (on / off)
on = Splitting 60 minutes per hour
off = Splitting 100 time units per hour
(industrial time)
ModE n1
[line]
[mode]
Mode numberer 1 adjustable (1 / 2)
1 = Numberer 1 increasing from minimum value up to maximum value
2 = Numberer 1 decreasing from maximum value to minimum value
(description see also page 20)
SK IP n1
[line]
[mode]
Skip numberer 1 adjustable
adjustment range = 01 ... 99
(description see also page 20)
ModE n2
[line]
[mode]
Mode numberer 2 adjustable (1 / 2)
1 = Numberer 2 increasing from minimum value up to maximum value
2 = Numberer 2 decreasing from maximum value to minimum value
(description see also page 20)
see next page



Skip numberer 2 adjustable

adjustment range = 01 ... 99
(

Pre characters 0 at numberer (**on/off**)

on = print and display of pre-characters 0
off = no print or display of pre-characters 0

Summer time (**0, 1, 2, 3**)

0 = no switchover summer time
1 = CET from 1996
2 = CET before 1996
3 = American summer time

Online (**on / off**)

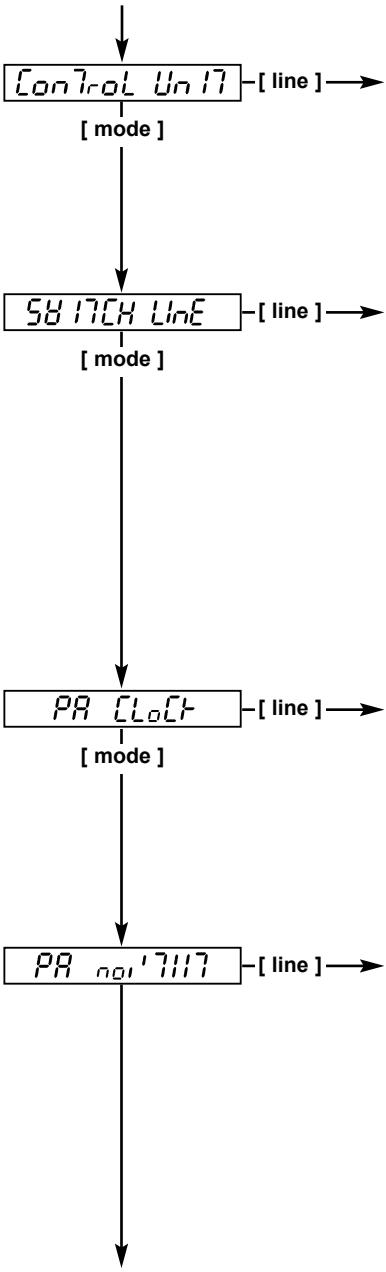
on = 24 - Interface active
off = V 24 - Interface deactivated

Print - data transmission (**on / off**)

on = Print-data transmission via V 24 - Interface active
off = Print-data transmission via V 24 - Interface deactivated
With setting 'Record on' data of stamp picture (numberer, time and date, operator's identification and so on) can be transmitted to a connected PC

Delay time of contact switch

adjustment range = 000 ... 500 ms
(default = 100 ms)



Mod. 785 / 787 with controller (on / off)

on = controller active (can only be selected if Multi Printer is connected to an external controller)

off = Mod. 780 / 785 / 787 without controller (press **[mode]** to switch over)

Print line switchover (0, 1, 2)

0 = manually print line switch over with button **[line]** without line adjustment

1 = automatic pint line switch over at 787 to on with pint line switch over manually pint line switch over at 787 to off by button **[line]** without line adjustment

2 = automatic or manually pint line switchover by button **[line]** without line adjustment

Password clock (on / off)

on = Access to setting time and date is protected by a password (Default-password = 2 4 6 8)

off = no password protection

Password numberer / repetition / pre-text (on / off)

on = Access to set numberer, repetition and pre-text is protected by a password.
Setting 'on' requires to enter the password.
(Default-password = 2 4 6 8)

off = No password protection

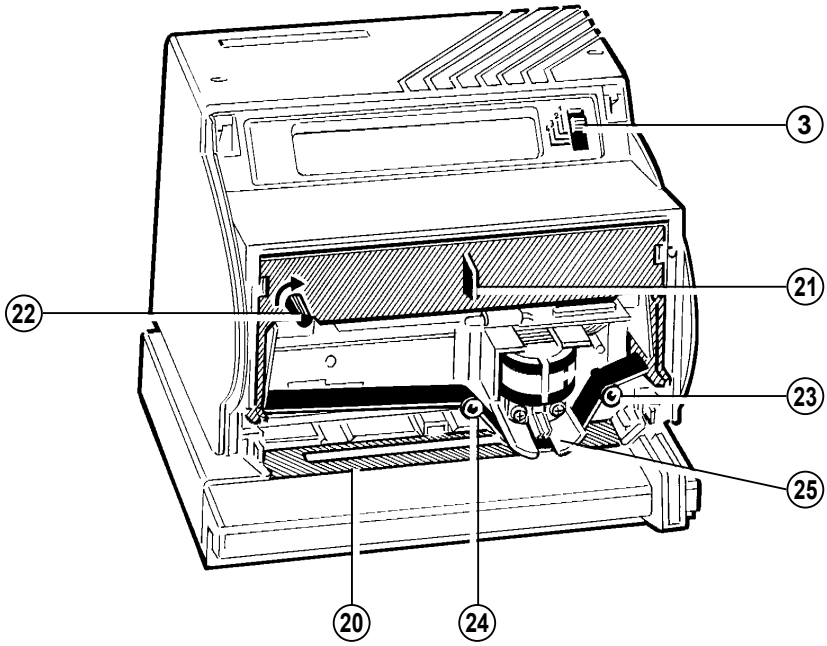
to exit 'Settings' press **[n / r]**

or

to go to the first menu press **[mode]**

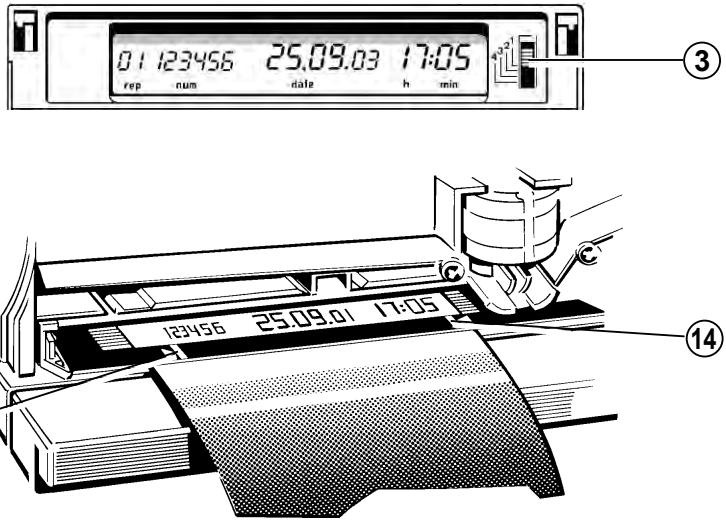
Changing the ink - ribbon cassette

- Press **[set]** , the print head moves to the right position
- Turn up the front cover and remove it
- Set the trigger mode switch (3) to position 2
- Remove the used cassette by the grip (21). Do not tilt
- Slide in the new cassette until it latches. While sliding in the cassette, slightly turn the rotary button (22) in direction of arrow.
- Position ribbon on right-hand roller guide (23) , push it between the guides of the print head (25) and the red foil mask (20) and position it on left-hand roller guide (24) as you can see in figure below
- Use the rotary button (22) to tighten the ink ribbon. The ink ribbon must lie completely behind the white plastic disks (23 u. 24) of the roller guides.
- Set the trigger mode (3) to the desired position
- Mount front cover



Changing the ink - ribbon protection mask

- Press the **[set]** button: The print head moves to its right-hand limit
- Lift up the housing cover and remove it
- Set the trigger mode switch (3) to position 2
- First pull the left-hand end of the foil mask (20) forwards off the frame (tension in the mask is released)
- Pull the foil mask forwards off the right-hand side of the frame and discard it
- Fit the new foil mask with the arrow marks (13) and (14) to the front (see figure on Page 12). First push it on to the right-hand side of the frame until it reaches the stop.
- Tension it slightly and push it on to the left-hand side of the frame until it reaches the stop
- Reset the trigger mode switch (3) to the required position
- Refit the housing cover



Additional functions in Model 785 + 787

Chip card functions

Note

By using the programmable REINER chip cards, the Model 785 and 787 can be extended with the following functions:

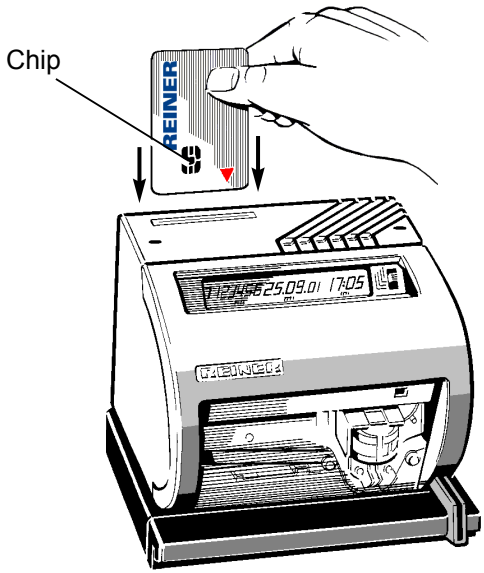
To use these functions, chip card function must be active (see page 22, Settings, **CHIPCArd on**)

- Key function (printing disable) (see page 29)
- Printing a supplementary operator's identification (see page 29)
- Individual imprint, stored on the chip card (see page 29)
- Additional second print line (see page 30)

Insert the chip card smooth to the stop:

Note

The chip must be facing to the operator.
Insert the chip card vertically into the slot and after a noticeable resistance push it down smooth to the stop.
The currently set imprint appears in the display.



Key function (printing disable)

Note

After activating the chip card function (see page 22, chip card on) printing is only possible with an inserted chip card.
If the chip card is missing, **InSErT CHIPCArd** will be displayed.

Operator's identification on the chip card

Note

An operator's identification stored on the chip card can be printed at the end of an imprint. This operator's ID can be combined with a standard imprint, stored in the device or with a customer imprint, stored on the chip card.

First, the chip card function must be active (see page 22) and the desired number of an imprint must be entered. After inserting the chip card, the printing process can be triggered.

The maximum printing width is 60 mm, so the operator's identification cannot be included with all imprints.
(see pages 13 ... 17)

Imprint example:

123456 **29.05.08 09:40** BSP — operator's identification

Printing of the first print line (Line 1) from chip card

Note

Before printing the Line1 stored on the chip card, the chip card function must be active (see page 22) and imprint no. 00 must be set (see page 13)

- ▶ Insert the chip card. Subsequent the imprint appears in the display and the device is ready to print the first text line

Printing of the second print line (Line 2)

Note

The second print line can only be printed by Model 785 and 787. Using Settings, the various types of line switching can be selected and adjusted (see page 25, 'switch line')

An individual, second line of text can be stored on the chip card. This text can be printed alone, or added to an imprint stored either in the machine or on the chip card. To do so, the **chip - card function must be active** and the chip card must be inserted in the machine (see page 22, 'chip card')

Imprint examples:

123456 29. MAY 2008 09:38 ← first print line (line 1)

FURTWANGEN IM SCHWARZWALD ← second print line (line 2)

Printing of the second print line with Model 785

a) Setting Switch line = 0

▶ Press the key **[line]** : The Display shows: **TEXT LInE 2**

If the **[line]** is pressed again before stamping was triggered, this display is erased and line 1 of the the set imprint is shown again

▶ Move a document to required printing position and trigger stamping operation.
After stamping, the display automatically shows the selected imprint again.

Note

If you want to print the second line again, **[line]** has to be pressed again

b) Setting Switch line = 1

With this setting, Line 2 could printed as often as you want until the **[line]** key is pressed again to return to line 1 of the selected imprint

The printing process can be triggered as described on page 30, a

c) Setting Switch line = 2

With this setting, after every stamping the machine automatically switches to the next line

Printing of the second print line with Model 787

Model 787 contains a standard function for '**semiautomatic two-line stamping**'

A solenoid has been added to the depth stop to create a stop unit. Using the standard setting (Setting 'Switch line = 0') , the depth stop will be moved automatically to a predefined line-spacing distance for stamping the second print line (see also page 38, 'Technical data')

a) Setting Switch line = 0

This setting provides the same function as described on page 30, a
There is no line shifting

b) Setting Switch line = 1 (standard setting)

With this setting, after every stamping the machine automatically switches to the next print line, and at the same time automatically changes line.

- Push a document against depth stop and trigger the stamping operation.
  Line 1 will be printed.
  The display switches to **TEXT LinE 2**

- Move the document against the stop again and trigger another stamping

  Line 2 will be printed
  The Display returns to the selected imprint and the depth stop returns to print line 1 position.

Using the **[line]** key, it is also possible to switch manually to print line 2. In this case, the feed unit does not change the position of the depth stop. After stamping the machine automatically switches to print line 1

c) Setting Switch line = 2

With this setting, after every stamping the machine automatically switches to the next print line.
There is no automatically change of the position of the depth stop

RS 232 interface

Note

- With Models 785 and 787, the RS 232 interface can be used to connect the machine to a PC
- The connection can be used as though it were to a printer. Data can be sent from an application program to the Multiprinter, which will print them.
- An interface description to enable application programs to be written is available from REINER
- The interface connection is on the rear of the machine, behind the round cover

Caution

To avoid damage to the machine and malfunctions due to electrostatic discharge, keep the cover over the interface socket whenever no cable is connected !

Radio clock

Note

The built-in radio clock receives automatically the central european time. The precondition for this is the activation of the radio clock (see page 22, 'Radio clock').

The time zone for eastern or western european time has to be adjusted (see page 23, 'Time zone').

Reception of the radio time signals depends on the distance of the device from the time signal transmitter Mainflingen (Frankfurt / Germany) and on the device location (e.g. building).

The device automatically establishes radio communication with the time signal transmitter at 3 a.m. The symbol appears in the display when the device is receiving the time signals. If the device receives no or only inadequate signals, the attempt is discontinued after 12 minutes and thereafter repeated hourly until a satisfactory signal has been received.

After activating the radio clock, its symbol is shown above the imprint in the display with following status:

not flashing = reception ok, date / time set correctly.

slowly flashing = poor reception.
The attempt to receive will be discontinued after 40 seconds.

flashing once per second = receiving a good signal: After the device has received the same time information (date + time) three times in succession, the time is updated inside the device. If the device receives different time information, it discontinues the reception of the time signals after 12 minutes.

Manually triggering of the signal reception :

▶ Press **[fkt]** and at the same time press **[time]**

The period of signal reception is prolonged if stamping operations are carried out or settings are changed during the attempt to receive signals.

User's hints and error codes

Display	Cause	Recommendation
CHArGE bAT	Accumulator is charging, device is not ready for operation	Connect device to mains. Device is ready after approx. 15 minutes
EMPTY bAT	Accumulator is discharged	Connect device to mains. Device is ready after approx. 15 minutes. Accumulator is fully charged after 20 hours
InSErT CHIPCArd	Chip card was not or incorrectly inserted	Insert chip card correctly (insert it smooth to the stop)
InSErt CArd FAstEr	Chip card was incorrectly inserted or Chip card was inserted but not deep enough (not to the stop)	Insert chip card correctly (insert it smooth to the stop)
Display is dark	• ***Accumulator operation:*** Accumulator is discharged	Connect device to main. It is ready after approx. 15 minutes, accumulator is fully charged after 20 hours
	• ***Mains operation:*** Technical malfunction	Call technical service or competent distributor
Error 02	Set number of imprint is not available	Enter a valid imprint (see page 13 ... 17)
Error 04	EEProm fault	Press **[set]** and re-enter date and time
Error 08	Imprint exeeds maximum width of 60 mm	Press **[set]** and shorten the imprint, e g deactivate pre text

Display	Possible reason	Recommendation
Error 10	• Print process not executed completely	• Press **[set]** and try to print again
	• Ribbon cassette is blocked	• Check ribbon cassette and replace if necessary
Error 11	Numberer 1 :	delete error indication by pressing **[set]**, following set *'Skip n1'* or *'Skip n2'* to a value less than 10 (see page 23 / 24)
Error 12	Numberer 2 : Skip is larger or even 10 but numberer of imprint is single-digit	
Error 15	• Chip card inserted incorrectly • Chip card is invalid	Insert a valid REINER chip card correctly
Error 16	Not a REINER chip card	Use REINER chip card
Error 17	Key number of chip card differs from key number stored in the device	Correct key no. on chip card or change the setting of the device
Error 18	Data on chip card exceed the maximum range of imprint	Enter another imprint to the chip card
Error 19	Number of imprint on chip card doesn't exist	Enter a valid number of imprint to chip card

Note

- With a Reset the device will be set to a defined status. Furthermore the program run will be restarted (warm-start)
- The pin used to operate the Reset should have a diameter of about 2,5 mm and a rounded end
- If a thinner pin with a sharp end is used (particularly a metal pin, e.g. a straightened paper clip), there is a danger of damage to the switch and PCB if it is not used very carefully

Carry out a Reset

- ▶ Remove the front cover (7)
- ▶ Press a thin pin-shaped object, about 4 cm long, vertically into the small circular opening (see arrow) on the left below the display (using for example a bent open paper clip) until the display shows **Test**
- ▶ Close the front cover (7)

  The program is restarted. If the program is now being executed correctly, time, date and data of numberer will be reset and can now be set again

Technical data

Dimensions

Model 780 and 785 :	175 x 160 x 163	(W x D x H in mm)
Model 787 :	175 x 160 x 171	(W x D x H in mm)

Weight

Model 780 and 785 :	ca. 3,2 Kg
Model 787 :	ca. 3,6 Kg

Electrical data

Mains voltage :	230 V ~
Mains frequency :	50 Hz
Power consumption :	max.16 W
Stand-by time per accumulator charge :	780, 785 : 7 days or 1000 impressions 787 : 7 days or 300 two-line impressions
Accumulator charging time :	ca. 20 hours

Impression data

Max. size of impression :	60,44 mm x 3,2 mm	(W x H)
Paper thickness :	multiple sheet with max. 2 mm thickness	
Carbon-copy performance :	3 to 4 carbon copies on NCR paper	
Ink ribbon capacity :	min. 40 000 impressions	(imprint no. 38 with pre-text)
Stamping time :	ca. 0,5 seconds	
Stamping sequence :	> 2 seconds	
Noise level :	max. 74 dB(A)	at print procedure (workplace-related emissions to ISO 7779)

Environmental conditions

Climate class :	generally to DIN IEC 68	
Operation and storage :	temperature relative humidity	0° C to + 40° C 10 % to 85 %
Transport:	temperature relative humidity	- 30° C to + 60° C 10 % to 85 %

Certifications

Identification

This printer satifies the requirements of the EMV guideline 2004 / 108 / EG with regard to 'Elektromagnetic compatibility' in accordance with EN 55022 and EN 55024.
As verification, the scanner bears the CE label.

Tested safety

REINER - Multi-Printers are manufactured and tested in compliance with the safety standard EN 60950 - 1: 2001

WEEE Registration number

Disposal of electronic apparatus must not be in residual waste or domestic waste.

REINER

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