BACSA®
WEIGHT QUALITY

BLP-545

User's Manual

Versión 15.05.16

MANUAL CONTENTS

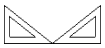
1. INTRODUCTION

1.1 LP2550 LABELLER'S CHARACTERISTICS

	PROG. ITEMS (CHAP. 3)	DIRECT KEYS (POINT 3.6)	PROGRAMMABLE TARES (2.10)	VAT RATES (3.3)	SALES ASSISTANTS (3.5)	SET UP PARAMETERS (6.2)	COM-PC (7.2)	PRINTER (CAP. 4)	SECTIONS (6.6)
LP 2550	1000	32/64	9	5	8	SÍ	SÍ	T/E	10

- Alphanumeric display.
- Backlighting.
- Connectors for external signal[2].

La LP-2550 has the following **status indicators**:

- **Zero** indicator ⇒0⇐
- **Stable weight** indicator 
- **Sales assistants** V1 V2 V3 V4 V5: indicate if a sales assistant memory is engaged in an operation.
- **Tare** indicator: NET

Characteristics:

- 3 Totals levels (e.g.: Box/pallet/Lorry)
- Discounting accumulations.
- P.L.U. copy
- Beef traceability.
- 10 Sections with:
  - Section name (max. 20 characters)
  - Associated EAN-13.
- Loading logos and ingredients from the R.M.S. program:
  - Max. no. of ingredients: 4000.
  - Max. no. of logos: 32
- Labelling machine/Visor labelling machine:
  - O.I.M.L.: up to 6000 divisions.
  - No O.I.M.L. up to 120000 divisions.
- Labels:
  - Maximum size = 60 x 150 mm.
  - Number of formats = 20.
  - Fields per format = 40.
- 100 Items with 4th line of 256 characters.
- Bar codes: EAN-13, UPC, 3 of 9, 2 of 5.
- Batch no..
- Batches: max. 40 of 5 items.
- EAN 128.
- Label detector at exit.
- Communication with SYSTEM 2X00.

! If the weight is over the limit when the display is started up, the LP-2550 will start up as a labeller.

1.2 INSTALLING THE LP-2550 LABELLER

Follow the instructions below to ensure correct installation and operation of the labellers.

1. Check that the mains voltage corresponds to that stated on the specifications label on the labellers and that it does not fluctuate in excess of 10% of nominal voltage.
2. Make sure that the labellers can be connected to a nearby socket that is easy to access. We recommend that the socket should be provided with differential breaker, thermal-magnetic trips, and **earth**.
3. Make sure that other equipment such as refrigerators, cutting machines, etc. are not connected to same socket.
4. Only use the labellers in areas that comply with the room temperature values stated on the specifications label (-10ºC to 40ºC).
5. Peripheral devices connected to the equipment must be protected against fluctuation peaks of above 8A 100VA.
6. The labellers must be placed on a stable, level surface.
7. No objects must come into contact with the dish.
8. Avoid extreme temperatures. Do not place the labellers in direct sunlight or close to air conditioning vents.
10. These labellers have not been designed as waterproof labellers. Therefore, avoid high levels of humidity since this might cause condensation. Protect from rain and avoid direct contact with water. Do not spray water on the labellers or submerge in water. If the labellers get wet, switch off the power supply immediately.

1.3 ADVICE FOR MAINTENANCE AND CARE OF THE LP-2550 LABELLER

By following these recommendations, your labellers will remain in perfect working order, thus obtaining a better performance and a longer life.

1. Never place a weight on the labellers that exceeds the maximum limit.
2. Do not place weights suddenly on the dish if they exceed a sixth of the maximum limit.
3. Do not exert sideways pressure on the dish
4. Always keep the keypad and dish clean. Use a dry cloth (and a suitable cleaning product) to clean the labellers.
5. Never pour or spray water on the labellers. If the labellers get wet, switch off the power supply immediately.
6. Do not move the printer when it is switched on.
7. Do not modify the labellers' mechanical or electrical characteristics.
8. Clean the thermal head with the labellers switched off. Do not use blades or sharp objects for this purpose.
9. Only have the labellers repaired by authorised persons, with suitable training.
10. Always use original parts.
11. It is recommended to keep the labellers out of direct sunlight, protected from rain; avoid excessively humid conditions.

The labellers leave the factory prepared for **retail sales**. Therefore, labels can be printed at below the minimum limit.
In the case of **pre-packaging** activities, in accordance with legislation in force (Standard EN 45501 and Directive 90/384/EC), this type of equipment may only be used if packages are above the minimum limit.
The labellers can be set up for specific use for pre-packaging tasks. Consult your supplier or technical assistance service.

2. OPERATING THE LP-2550

2.1 SWITCHING ON THE LP-2550

Having ensured that the labelling machine is correctly installed, press the on-off switch located at the back of the labelling machine.

After providing information on the model, program version and range programmed, the LP-2550 is checked for possible faults: the screen will show a countdown from 9 to 0.

Following countdown, if no error has occurred, values relating to weight, the price/Kg, the total and the tare at zero will appear: this is *the operating mode in operating mode*.

When switching on the platform there should be nothing on the dish, as, on removal, the labelling machine will show a negative weight.

2.2 PROGRAMMING THE BACKLIGHTING

Use the **SHIFT** and **-** keys to programme the screen's lighting with the following values:

SHIFT y **-**

```
BACKLIGHT
                2
BACKLIGHT
```

- **0.** it never lights up
- **1.** it is always on
- **2.** it lights up for 30 secs., when any key is pressed or the weight varies.

2.3 NORMAL WEIGHING, WEIGHING MODE (SETTING 19)

```
LP-2550    V-100
     OIML-1
150000          M
```

```
9.9.9.9.9.9.9.9.9.
9.9.9.9.9.9.9.9.9.
9.9.9.9.9.9.9.9.9.
```

```
---- ----- ----- ----- -----
---- ----- ----- ----- -----
CHECK INGRED.
```

```
0.000          0.00
0.000          0.00
```

```
2.050          0.00
0.000          0.00
```

...
... PLU
...

```
2.050         12.50
0.000         25.60
```

C

1. Once in working mode, place the item to be weighed on the weighing platform.
2. Use one of these ways to enter the price per kilo:
   - Directly with the numeric keys.
   - Type the item code and press the **PLU** key.
   - Press the corresponding direct key (from 1 to 64)

In case of error, the **C** key will clear the price to 0.

F

2.050	12.50
0.000	25.60

0.000	12.50
0.000	0.00

...C

O1

2.050	12.50
0.000	25.00

F and 3

2.050	2080
PTA	4260

F and 2

0.000	0.00
0.000	0.00

+

	0.00
	0.00

...PLU

	1.25
	1.25

X
...

UNI	0	1.25
		0.00

O1

0.000	1.25
0.000	0.00

To **fix the price**, press **F.** (consult sec. *6.2.3 Set price*)

Whenever the weight is removed, the price is not automatically cleared to zero, but stays at the fixed value; press the corresponding sales assistant's memory key to store.

To delete the fixed price, press **C .**

3. Press the corresponding sales assistant's memory key.

> **If the operation cannot be stored, register the corresponding sales assistant.**

Some dashes on the display and a beep indicate that the operation has been stored, and, if the labelling machine is in labelling mode, the label will be printed.

> **If, when operating the LP-2550 you wish to see the price and amount in secondary currency (STAGE 2) press 3 while holding F down.**

2.4 RESET

The LP-2550 has a manual device for clearance to zero; if, for some reason or other, on removing the weight from the weighing platform, the value of the weight is not zero and it is within a margin of 2% of its range, you can clear the weight to zero by pressing the **F** and **2** keys.

2.5 OPERATIONS WITHOUT WEIGHING (ADDITION, SUBTRACTION & MULTIPLICATION)

The LP-2550 is capable of working with items which are not sold by the weight (price/Kg) but have a price/unit, like a bottle of milk.

The LP-2550 must be set up in such a way as to allow addition, subtraction and/or multiplication..

The mode of operation is as follows:

1. Press the **+** or **-** key depending on whether you wish to add or subtract.

2. Enter the item's price/unit:

- Directly with the numerical keys.
- By typing the code and pressing the **PLU** key.
- By pressing the corresponding direct key (from 1 to 64)

In case of error **C** clears the price to zero.

1. If more than one unit is to be added or subtracted, before storing, press the **X** key and enter the number of items.

2. Save the operation in the required sales assistant by pressing one of the memory keys.

2.5.1 *Discounts*

...

–

5

O1

2.050	12.50
0.000	25.60

DISC.	
	2.56

DIS	5
	2.43

To enable a discount on a line (per item sold) the item must be registered as a P.L.U. It works this way:

1. Place the item on the platform.
2. Press the key corresponding to the item.
3. Press –
4. Type the discount percentage.
5. Press the sales assistant's key.

2.6 SALES ASSISTANT TOTAL & RECEIPT PRINT OUT

...

*

O1

0.555		1.05
0.125		0.60

TOTAL	
	0

V1	2	3.03
		0

To obtain a total of a transaction, take the following steps:

1. Carry out the required operation.
2. Press *.
3. Press the key corresponding to the sales assistant.

The memory number, the number of items and the total amount show up and the receipt is printed.

If the **REGISTER CHIT** option has been selected then the words " REGISTER CHIT " are printed.

If the C key is pressed or no key is pressed for 10 seconds, you return to normal working mode.

Repeating the receipt: provided no other operation is carried out on the same memory, the receipt can be printed as often as necessary by taking the abovementioned steps.). The receipts will carry the word:

*** copy ***

If you save on the same memory key, the operation is considered as corresponding to a new customer, with all data cleared to 0.

2.6.1 *Repeating the label*

Provided no other operation is carried out on the same memory, the last label can be printed as often as necessary, and not be accumulated to the totals.

X

1. Press X. to print the last label.
2. If you select another PLU it will not be printed.

Repeat the last label N times:

2

1. Enter the number of labels required to be printed up to a maximum of 999999.

SHIFT and X

2. Press SHIFT and X

On the weight display the labels which remain to be printed show up.

0.000	0.02
0.000	0.00

To cancel the printing in process, hold down any key until a beep is heard.

If press mode has been enabled (set-up 21=1), press * to print the next label.

If delay mode has been enabled (set-up 20≠0) the time in seconds must be entered.

Repetition is cancelled when another PLU is selected.

2.7 REVIEW TRANSACTIONS

Before concluding and printing the receipt of a transaction, you can review and modify it. To do so:

1. Press the subtotal **SHIFT**.and **∗**

2. Press the corresponding sales assistant's memory key: it will show the total accumulated in the selected memory and the number of operations.

3. Each of the accumulated operations are reviewed with the **+** and **-** keys.

With the **C** key deletes the operation being shown.

> **To carry out Subtotal operations, the set-up *parameter 08* must be at 0**.

To return to working position, press the **SHIFT**. **∗** and **C** keys.

SHIFT. y **∗**

Subtot

O1

V1 2 30.3

+

ITEM 01
2.43

ITEM 02
0.58

2.7.1 *Reopen receipts*

THE RECEIPT can also be **REOPENED**, i.e. once the receipt has been printed, it can be cancelled, modified and reprinted with the changes made, the previous one being cancelled.

To do so, follow steps **1** and **2** of the revision of transactions, then press the **X** and add or eliminate the required operations using the procedure laid down in the said paragraph.

SHIFT **∗** and **C**

0.000 0.00
0.000 0.00

2.8 CALCULATING CHANGE

This option is enabled by parameter *01 calculating change*

To do so.

1. Finish the transaction and press **∗**: the word **TOTAL** will show up.

2. Press the memory key on which you wish the operation to be carried out: the sales assistant's memory number, the number of items making up the total and the total amount will show up.

3. You have 10 seconds to enter the amount handed in by the customer. The amount provided, the change and the total amount will show up on the display.

4. Press **∗**: the amount handed in, the change and the total amount will be printed on receipt.

Press **C** to return to working position.

∗

Total
0

O1

V1 2 3.03
0

...

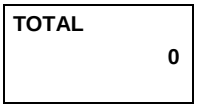
t. 3.03
C. 1.97
E. 5.00

∗

0.000 0.00
0.000 0.00

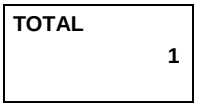
C

2.9 FORMS OF PAYMENT



At the receipt printing stage, having pressed the * total key, a number (from 0, which is the default value, to 4 will show up) indicating the customer's form of payment. the sales assistant choose the form of payment. Mode 0 =Cash, Mode 1 = Credit.

1



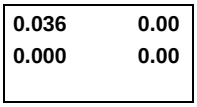
You can change this value with the numeric keyboard just before pressing the sales assistant's key.

ⓘ **Lists 3 and 7 include a section corresponding to the total for each form of payment**.

2.10 TARE

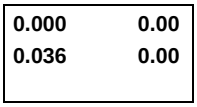
This option permits the weight of the recipient to be discounted; once at working mode, take the following steps to do so:

T



1. . Place the weight to be gauged on the weighing platform and press T : the tare display will show the value of the tare weight and the net weight indicator NET will light up.

F



2. Press F to fix the tare. (Check set-up parameter 02 in sec. *6.2. General set-up)*

The interval must be taken into account. If tares of 125grs. are required, with an interval of 20grs., you take the nearest one, 120grs.

On removing the weight, if the tare has not been fixed, the tare will automatically be reset to zero.

To eliminate the fixed tare, remove the weight and press T : the tare indicator will switch off.

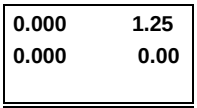
Successive tare operations can be carried out but only if a greater weight is to be gauged.

❗ **To visualise the tare, set up *parameter 15* must be at 0**.

The tare is worked in two possible ways:

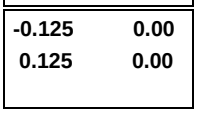
a) <u>By entering the tare value</u>. To do so:

1 2 5



1. Remove all traces of the weight from the platform.
2. Use the numeric keyboard to enter the weight value whose tare is to be gauged.

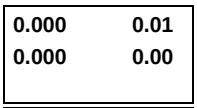
T



3. Then press T

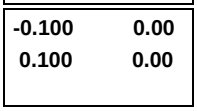
b) <u>By selecting one of the tares stored</u> by the labelling machine. To do so:

1



1. Press the required stored tare number

SHIFT T



2. Then press SHIFT T : the tare value will show up on the display.

In any case, the tare value will show up on the tare display and the tare indicator will show NET.

2.11 CONNECTION FOR EXTERNAL SIGNAL

An external device can be enabled via a 24 Vcc, 1A pulse, which lasts 100msec. This is enabled on the following occasions:

1. When a receipt(or a copy of the same) is to be printed: * followed by one of the memory keys.
2. When you press * followed by +.

2.12 LISTS

To obtain any of the available lists (see the table below), take the following steps:

1. Enter programming.
2. Enter the access code to lists, which by default is **0 0 0 0.**.
3. Press the key corresponding to the list required, as per the table below. Press *.
4. Press * : the corresponding list will be printed.

Key	Function	Observations
1	LIST OF ITEMS	Enter the range of item codes to be listed
2	SALES BY THE ITEM	Enter the range of item codes to be listed
3	LIST OF TOTAL SALES OF GROUP	ALL sales made with the labelling machine.
4	LIST OF SALES BY DEPARTMENT OR SECTION	Only those items for which operations have been made are listed.
5	LIST OF DIRECT KEYS	Direct Keys of all the network's labelling machines
6	LIST OF VAT TOTALS	Accumulated total for each VAT rate (VAT total/totals without VAT/totals with VAT)
7	DAY LIST	Daily sales.
8	ORDERS LIST	
9	INVENTORY LIST	Enter the range of codes to be listed

To quit the list option, press the F key.

In list 2 (*sales by the item)*, the item with code 99999 includes all sales made at DIRECT PRICE.

The groups of items listed in option 3 (*group totals)* are:

1. **Grand total**: total sum of all operations.
2. **Wholesalers totals**: operations whose total sum exceeds the wholesalers' limit..
3. **Negative totals**: operations with a negative total.
4. **Weighed items**: the sum of the operations carried out on items according to weight.
5. **Non-weighed items**: the sum of operations carried out on non-weighed items.
6. **Returned items**: the sum of negative operations.

* O1

* +

* F

0 0 0 0

```
- - - -
```

1 *

```
LIST
```

```
LIST      1
C.        099999
ITEMS
```

*

To enable the printing of **headers** on lists:

1. Press the sequence * F 0 7 9 0
2. Press 0 and then *
3. Enter:
   0. If the headers are not to be printed.
   1. If the headers are to be printed.

Press * to save and F to quit.

* F 0 7 9 0	Prog.
0 *	
1	HEADER 1
	HEADER
* F	

2.13 DELETE SALES TOTALS

This enables the **clearance to zero** of items' **sales** data. It works as follows::

1. Press the keys * F to enter the access code to lists (**0 0 0 0** by default).
2. Press C 7 times. All sales data is deleted and a *grand total* list printed.

* F 0 0 0 0	LIST
7 X C	DELETE

2.14 INVENTORIES

This option enables the inventory of stock by the LP-2550.

To do so:

1. Press the sequence * F 0 7 9 0.
2. Press 0 and the * key twice.
3. Type 1 to move on to work in *inventory mode.*

Once all inventory operations have been completed, the LP-2550 must be set at '0' at this same point in order to work in *sales mode*.

4. Press * key to accept the data and press * 4 times to quit to programming mode.

Press * to work in inventory mode.

Once set up to work in *inventory mode,* the word '***Invent***' will show up when working with the LP-2550.

* F 0 7 9	Pro9.
0	
0 * *	
1	Invent 0
	INVENTORY
*	Invent 1
	INVENTORY
*	
	0.000 0.00
	0.000 Invent

To do an inventory of an item, proceed as follows:

...

0.205	0.00
0.000	Invent

1. Place the item on the weighing dish.

2. Select the item.

0.205	333.33
0.000	Invent

O1

3. Press a memory key to print a receipt indicating the date, time, memory with which you are working and the receipt number followed by the item number, the weight and the price.

> **To obtain a list with inventory totals consult sec. *2.12 Lists*.**

DELETE INVENT

7 X O1

> **To reset the value of inventory totals to zero, enter lists mode and press the O1 7 times**.

2.15 QUICK CHANGE OF PLU PRICE

C	2 PLU 02
PrE	12.50

At normal working mode, hold down the item key you wish to change until you hear a beep. The menu for price change will show up.

+

C	3 PLU 03
PrE	15.20

Use + and – to go forward or backspace to the different items.

*

Confirm the data with *.

2.16 PRINTING OF SUBTOTAL LEVEL 1

SHIFT

TOT1

In normal working mode, press the keys SHIFT TOT1 , it will be printed a Subtotal level 1 label,. When this operation is done, the data are not stored in Total level 1 and total level 1 data are not deleted.

3. PROGRAMMING ITEMS,TARES, SALES ASSISTANTS & BATCH NUMBER

3.1 TOTAL CLEARANCE OF THE LP-2550

It does a total memory clear of the labelling machine LP-2550:

1. Enter programming.

2. Press the **X** key 7 times.

ATTENTION: **if you do a total memory clear of the labelling machine, all the label formats and logos programmed at the factory will be lost**.

∗ F 0 7 9 0	Pro9.
7 X X	
	Total reset 1 RESET SCALE

3.1.1 *Items clearance*

It clears all the memory except for the label formats and logotypes:

1. Enter programming.

2. Press 1ª 7 times

∗ F 0 7 9 0	Pro9.
7 X 1ª	
	CLEAR-SP1 SPECIAL CLEAR

3.2 PROGRAMMING ITEMS

To program items in your labelling machine, take the following steps.

1. Enter programming by pressing the sequence ∗ F 0 7 9 0.

2. Press 1. The code, the P.L.U. and the name of the item to be edited will show up.

3. Enter the item **code** (6 digits). Press X to move on to the next parameter.

4. Use the numeric keyboard to enter the associated direct key (from 1 to 64). Press X to move on to program the name.

5. Use the alphanumeric keyboard to enter the **name** of the item (up to a max. of 20 letters). Press X to move on to program the price/kg.

6. Enter the **price** of the item (6 digits). For an item whose price is not fixed, set the price at 0.

Press X to move on to program the type.

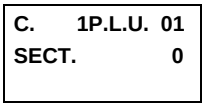
7. Enter the **type of item**:

0.-Weighed unit.	**5.-**Unit mince beef
1.-Non- weighed.	**6.-**Weighed batch.
2.-Weighed beef.	**7.-**Unit batch.
3.-Unit beef.	**8.-**Fixed weight.
4.-Minced beef.	**9.-**Weight only.

Press X to move on the next parameter.

∗ F 0 7 9 0	Pro9.
1	
...X	C. P.L.U. n. M.
...X	C. 1P.L.U. 00 n.01. 0 M.
...X	C. 1P.L.U. 01 n.01. 0 M.
	C. 1P.L.U. 01 N.01. 3 C M. APPLE
... X	C. 1P.L.U. 01 PRI. 1.05
... X	C. 1P.L.U. 01 typ 0 WEIGHED

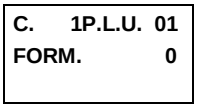
8. Enter the number of the **section** to which the item belongs as a number between 1 and 9.



...X

With it you can obtain a list of sales according to sections. Press the X to move on to program the label format.

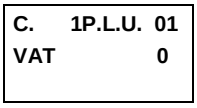
9. Enter the **label format** with which you wish information on this item to be printed. Enter a value between 1 and 20 corresponding to the 20 programmable formats (



Press **X** to move on to define the VAT rate.

...X

10. Enter one of the 5 **VAT** rates which can be associated with the item

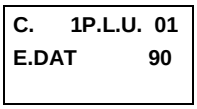


Press **X** to move on to program the expiry date.

...X

11. The **date of expiry** of the item can be entered in either of these two ways:

1. Absolute date in ddmmyy format (day-month-year).
2. Number of days from the date the label is issued.

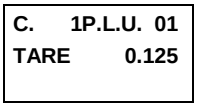


Press **X** to move on to define the tare associated with the item.

...X

12. The item's tare. This is the field where the tare associated with the item is entered. The value can be entered in either of these two ways

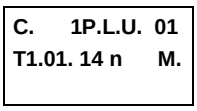
1. With the numeric keyboard.
2. By placing the weight whose tare is to be gauged on the dish and pressing **T**.



Press **X** to move on to define the *PLU texts.*

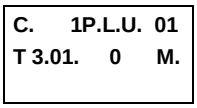
...X

13. Enter the **text** associated with the PLU. Each item has a total of 3 lines of text with a maximum of 20 characters per line. These lines can be made up of text, ingredients or a combination of both. Press **TOT3** to enter an ingredient. Press the **X** to move on to define the next line of text.



...X

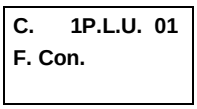
Press **X** to move on to define an *extra date.*



... X

14. Enter an **extra date** (best before, etc...). This is done in the ways outlined in point ***12.***

*



	C. 1P.L.U. 01 T4.001. 0 M.

15. Enter text 4. It is a line of **text** which allows 256 bytes in length, with a capacity for 252 letters.

If they are ingredients, up to 128 Ingredients.

Text and ingredients can be combined on the same line, and can be linked to other lines of ingredients.

There can be up to 100 PLU with this line of text.

*	

Press * to save the item. Move on to program the next item or press F to quit to the initial programming position.

F	

16. Copy of **PLU to PLU**:

* F 0 7 9 0	
1 TOT3	Prog.
2	
*	C 1 C 2

1. Enter programming * F 0 7 9 0
2. Press 1 and select the PLU.
3. Press TOT3.
4. Enter the new PLU number
5. Press * to store.
   - If the PLU does not exist, it is created.
   - If the PLU exists, it is written over.

3.3 PROGRAMMING VAT RATES

Each item programmed in the LP-2550 can be assigned one of the 5 VAT rates to be defined as follows

* F 0 7 9 0	
7	Prog.
	VAT 1 00.00
...	
	VAT 1 00.08
* F	
	VAT 2 00.00 VAT RATES

1. Press the sequence * F 0 7 9 0 to enter programming.
2. Press 7 to select programming VAT rates.

The VAT rate to be programmed will show up on the display.

3. Use the numeric keyboard to enter the value to be assigned in %. Use C to correct.
4. Press * to save the data: you then move on to program the next rate. Press F to quit to the initial programming position (point **2)**.

3.4 PROGRAMMING TARES

Take the following steps in order to assign the pre-defined tares:

* F 0 7 9 0	
T	Prog.
	Prog. tar 1 0.050 TARE

1. Press the sequence * F 0 7 9 0 to enter programming.
2. Press T to select programming of tare types.

The value of the first tare will show up on the display.

... ∗

Prog. Tar 5
0.000
TARE

...T

Prog. tar 5
0.020
TARE

∗

∗ F

3. Press ∗ as many times as is necessary for the display to show the tare corresponding to the one to be programmed (T1-T9).

4. Enter the value of the tare weight by placing the weight on the dish and pressing the T key or by directly entering the value required.

Press C to correct any mistaken data

Press ∗ to save and move on to program the next tare (point **2**). Press F ∗ to return to normal working mode.

3.5 REGISTERING AND REMOVING SALES ASSISTANTS

The following are the steps to be taken to enable the memory keys of the scale's sales assistants:

∗ F 0 7 9 0

TOT3

Prog.

1. Press the sequence ∗ F 0 7 9 0

2. Press TOT3

\+

SALES ASS. V1
V2
V3

3. Press + to register the sales assistants (-when **removing**). Free sales assistants blink on the display

O3

...

REGIS V1
V2
V3

4. Press the key of the sales assistant to be modified and enter a 5-figure code to identify the said sales assistant. Press ∗.

REGIS V3
Code 27054

5. Enter the sales assistant's name (max. 20 characters)

∗

∗ F

REGIS 01 OM V3

6. Press ∗ to save the set-up and F ∗ to return to normal working mode..

REGIS 06 OM V3
SANTI

3.6 ASSIGNING DIRECT KEYS

Direct keys can be assigned to the PLU's stored in the memory without having to enter Programming Items (*sec. 3.2)*. It works as follows:

∗ F 0 7 9 0

6

...

1. Press the sequence ∗ F 0 7 9 0.

2. Press 6.

3. Use the numeric keyboard to enter the item code and press the direct key you wish it to be associated with.

Prog.

∗

Dir key
C 0 tec
DIRECT KEYS

Press ∗ to save the assignation and go on to program the next direct key or press the F to quit to the initial programming position (point **3)**.

3.7 BATCH NUMBER

The batch number does not depend on the PLU nor on the label format.

SHIFT **TOT2**

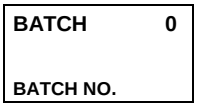
Press **SHIFT** **TOT2**.

Enter a maximum number of 999999.

When a total memory clear or reset is done, the batch number is set at 0.

There are two types of items associated with the PLU.

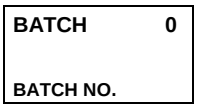
Type 6= weighed batch number.



When a PLU is selected, the batch number is requested.
Press * to confirm.
Press the sales assistant key **O2**.

*****
O2

Type 7=Unit batch number.



When a PLU is selected, the batch number is requested
Press * to confirm.
Press **T**.
Press sales assistant's key with **O2**.

*****
T
O2

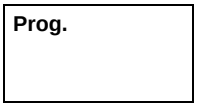
3.8 PROGRAMMING OF LABEL BATCHES

There are 50 label batches than can be edited.

Each batch consists of a PLU code and number of labels to be printed. To programme a label batch, proceed as follows:

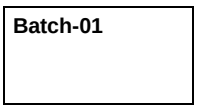
*** F 0 7 9 0**
O3.

…



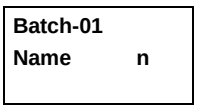
*****

…



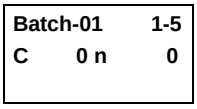
*****. **X**

…



X

…



*****

1. Enter the sequence *** F 0 7 9 0** to go into programming mode.
2. Press **O3** to commence programming label batch.
3. Enter the batch number.
4. Press *****.
5. Enter the name.
6. Press *****.
7. Press **X**
8. Enter the PLU code.
9. Press **X**
10. Enter the number of labels.
11. Repeat from step **7**.
12. To save, press *****.

Deleting a batch:

- Place the cursor on the batch number.
- Press **T** to delete the entire batch.

Deleting a field:

- Place the cursor on the field you wish to delete.
- Press **C**.

Key	Function
T	Delete batch
C	Delete field
X	Move on to next field
*	Save data, move on to next
+	Forward batch no.
-	Backward batch no.

3.9 PRINTING BATCHES

SHIFT PLU

```
Batch          01
```

Press **SHIFT** and **PLU**

Select the label batch numbers

*

Press * to start printing.

```
Batch           1
1 -      5
```

Press any key to cancel printing.

4. SETTING UP THE PRINTER

With this type of programming you can define the way the labelling machine works. To do so:

1. Press the sequence **∗ F 0 7 9 0**.

2. Press **+**.

3. Use the numeric keyboard to enter the PRINTOUT DISTANCE value required (length of the label following the last line printed). Press **X** to save the assignation and move on to program the next parameter.

4. Use the numeric keyboard to enter the CONTRAST value required (Value between 1-9). Press **X** to save the assignation and move on to program the next parameter.

5. Use the numeric keyboard to enter the LABEL FORMAT value required (Format 1-20). Press **X** to save the assignation and move on to program the next parameter.

6. Use the numeric keyboard to enter the HEADER value:

- **0.** It backspaces and does not print the header.
- **1.** It leaves the header blank.
- **2.** It backspaces and prints the header.
- **3.** It prints the header.

Press **X** to save the assignation and move on to program the next parameter.

7. Use the numeric keyboard to enter the number of blank lines required from RECEIPT END. Press **X** to save the assignation and move on to program the next parameter.

8. Use the numeric keyboard to enter the OPTIMUM HEAD DISTANC value required (separation between the upper edge of the label and the first line to be printed).

9. Enter **TOTALS FORMAT 1**.

10. Enter **TOTALS FORMAT 2**.

11. Enter **TOTALS FORMAT 3**.

12. Press **∗** to save the set-up.

∗ F 0 7 9 0	**Prog.**
+	
X	**Printing p.** **Print dist 025** **DIST SALIDA**
X	
X	**Printing p.** **Contrast 8** **CONTRAST**
	Printing p. **Label for 01** **LABEL FORMAT**
X	**Printing p.** **Header 2** **HEADER**
X	
	Printing p. **Receipt end** **3** **RECEIPT END**
∗	**Printing p.** **Opt.d.head 32** **DIST OPTO-CAB**
SHIFT TOT3	**Printing p.** **Format tot00** **TOTALS FOR**
∗	

4.1 QUICK CHANGE OF PAPER TYPE

1. Press the sequence **SHIFT TOT3**

2. Choose the operation mode in accordance with *section 6.2.4 Setting 04: Paper type.*

3. Press **∗**

5. RECEIPT & LABEL DESIGN

5.1 RECEIPT DESIGN

A total of 8 lines as receipt headers can be programmed, each of 13 or 26 characters depending on the body size. To do so:

Key	Function
F	Return to programming position.
C	Clear data.
X	Print stored lines.
+	Move on to program the next data.
-	Move on to program previous datum.
T	Insert blank line
TOT2	Centre line of text.
*	Save line

*F0790

Prog.

2

L. 124

LINE NUMBER

L. 204

LINE NUMBER

+

...

L. 214

NORMAL LETTER

+

1. Press the sequence *F0790 to enter programming.

2. Press 2 to select programming header lines.

The first digit to blink indicates the **line number** to be programmed.

Enter a number between 1 and 8 corresponding to the line to be edited: the lines 1 to 4 as header of the receipt, before the line of the date and time. Lines 5 and 6 under the customer's total line. Lines 7 and 8, as the end of the receipt.

Press + to move on to program the letter type.

3. Enter the letter type as a number between 0 and 4 according to the following codes.

   0. The line is not printed on the receipt.

   1. Normal font. 26 letters per line.

   2. Double width font. 13 letters per line.

   3. Double height font. 26 letters per line.

   4. Double width and double height font. 13 letters per line.

Press + to move on to program contrast.

	L. 214 **CONTRAST**

4. The third digit to appear indicates printing contrast. Enter value 4 for good **printing quality** in the receipts (default value).

+

Press **+** to move on enter the text of the line being programmed.

...	**L. 214 P.01 0 M.**

5. Enter the **text** of the corresponding line with the use of the alphanumeric keyboard or enter the character codes (*10.5 Character codes)*.

Centre the line of text by pressing **TOT2** after entering the last character of the line.

TOT2	
*****	**L. 214 P.01 0 M.**

6. Press ***** to save the line just programmed. You move on to program the following line which brings you back to the point **4**..

F

7. Press **F** to return to the initial programming position and then ***** to return to the normal working mode of the labelling machine.

*****

5.2 LABEL DESIGN

To design one of the 20 possible label formats, take the following steps:
(to quit this mode at any stage, press **F**)

*** F 0 7 9 0**	**Prog.**
PLU	
1	**FOR. 0** **FORMAT**
C	**FOR 1.** **AN. 000 LA.000** **FORMAT**
X	**FOR. 0** **FOR. 0** **FORMAT**
...	
X	**FOR 1.** **AN. 432 LA. 000** **FORMAT**
...	**FOR 1.** **AN. 432 LA.480** **FORMAT**
*****	

1. Enter programming by pressing *** F 0 7 9 0.**

2. Press **PLU** .

3. Enter the label format you require to program (a number from 1 to 20).

Press **C** to select another format.

Press **X** to move on to define the size of the label

4. Enter the **width** of the label in terms of the dots of the labelling machine's printer. To do so, multiply the values in millimetres by 8 (the maximum value which can be entered is 432)

Press **X** to go on to define the height of the label.

5. Enter the **height** of the label in terms of the dots of the labelling machine's printer. To do so multiply the values in millimetres by 8 (the maximum value which can be entered is 1200-150mm-)

Press *****

...

6. Use the numeric keyboard to enter the code of the **section (A)** you wish to be printed on the label (consult the table below)

If editing a format which has already been defined, press the + or – key access the field you wish to modify.

Section	Description	Section	Description
1	Bar code (EAN 13)	56	Amount in Euro
2	Amount	57	Price in Pta
3	Weight / Number of units	58	Full date
4	Time	59	
5		60	
6	Price	61	Line of text 1: "WEIGHT" or "UNITS"
7	Date	62	Line of text 2: "PRICE"
8	Expiry date	63	Line of text 3: "AMOUNT"
9	Sell-by date	64	Line of text 4: "Kg" or "-"
10		65	Line of text 5: "Pta/kg." or "Pta/ Unit"
11	Format number	66	Line of text 6: "Pta"
12	Name	67	Line of text 7: "WEIGHT" or "UNITS"
13	Item's line of text 1	68	Line of text 8: "Pta/kg." or "Pta/ Unit"
14	Item's line of text 2	69	Line of text 9: "Packed on"
15	Item's line of text 3	70	Line of text 10: "Expiry date"
16	Item code	71	Line of text 11: "BEST BEFORE"
17	Header line 1	72	Line of text 12: "REGISTER CHIT"
18	Header line 2	73	Line of text 13: "TOTAL"
19	Header line 3	74	Line of text 14: "Weight Kg" or "UNITS"
20	Header line 4	75	Line of text 15: "Total Pta."
21	Header line 5	76	Line of text 16: "Pack date:"
22	Header line 6	77	Line of text 17: "Exp. Date"
23	Header line 7	78	Line of text 18: "TARE"
24	Header line 8	79	Line of text 19: "Batch number"
25	Tare	80	Line of text 20: "Store"
26		81	Line of text 21: "At –18ºC"
27	Sales assistant's name	82	Line of text 22: ""refrigerated""
28		83	Text line 23: "OFFER"
29	EAN totals	84	Text line 24: "SAVING"
30		85	Line of text 25: "DISCOUNT"
31		86	Line of text 26: "Euro"
32		87	Line of text 27: "Euro/kg." or "Euro/Unit"
33	Section name	88	Line of text 28: "Euro/Unit" or "Euro/kg."
34		89	Line of text 29:
35	Item's text 4.	90	Text line 30: "Cash cheque"
36		91	Graph 1
37		92	Logo
38		93	
39		94	
40		95	
41		96	
42		97	
43		98	
44	No. of operations	99	
45	No. of operations level less than totals	100	
46	Tares accumulated	101	Text "Batch no."
47	Gross weights accumulated	102	Batch no.
48	EAN 8	103	Text "Cashr"
49	EAN UPL	104	Text "Gross weight"
50	EAN 309	105	Code of the sales assistant who made the sale
51	EAN 205	106	
52		107	
53	Price unit in EURO	108	
54	EAN 128	109	Gross weight
55	Euro exchange rate		

In the case of barcodes, a height of up to 31.5 mm is permitted.

If it is a totals label, the Total Weight is printed in the weight position and the Total Amount in that corresponding to the amount.

The maximum number of sections on a label is 80.

See *section Label formats* for the Label Fields for Beef

If you wish to print a sample label while creating a label format, press TOT3

...

0.01 X.010 Y.350
Bar cod R.0 T.00
BAR CODE

X

7. Enter the **X and Y co-ordinates**, **rotation** and **fonts.**

The X key can be used to go from one to another of the parameters to be programmed.

The X and Y positions may have a value of between 0 and the value of the size of the label.

The different possible values of the parameter ROTATION are:

'0' – Without rotation.
'1' – Rotation of 90º.
'2' – Rotation of 180º.
'3' – Rotation of 270º.

THE FONT is programmed by entering a value between 0 and 29 which indicates the shape and size of the letter. The basic fonts are the following:

BASIC FONT	SIZE (width x height)
0	12 x 17
20-40	16 x 28
60	16 x 32
80	6 x 9

When these typefaces are to be magnified, either in width or height, or both, an amount in accordance with the table below is added:

MAGNIFICATION NUMBER	MAGNIFICATION
0	Width x 1, Height x 1
1	Width x 2, Height x 2
2	Width x 3, Height x 3
3	Width x 4, Height x 4
4	Width x 5, Height x 5
5	Width x 1, Height x 2
6	Width x 2, Height x 1
7	Width x 2, Height x 3
8	Width x 3, Height x 2

9	Width x 4, Height x 3
10	Width x 3, Height x 4
11	Width x 5, Height x 4
12	Width x 4, Height x 5
13	Width x 2, Height x 4
14	Width x 2, Height x 5
15	Width x 1, Height x 1
16	Width x 1, Height x 1
17	Width x 1, Height x 1
18	Width x 1, Height x 1
19	Width x 1, Height x 1

If you wish to print a sample label while creating a label format, press TOT3

With the **+** **or** **–** keys you can go forward or backward respectively to the next section, whereas with the **∗** key you can change parameter and, on reaching the last parameter of the section, you move on to the next one.

	0.01 **CLEAR** **BAR CODE**
TOT2	

Press the **TOT2** key to eliminate a section not required. The scale will then ask for confirmation. If you do wish to delete it, press **TOT2**, and if, on the other hand, you do not wish to delete it, press **C**.

To eliminate the last sections of a format, select the first section to be deleted and enter 00 in the section number.

	0.00 **STORE**

If a list with the parameters programmed for the label is required, press PLU

∗	**FOR. 1** **STORED**

8. Finally, select the field with code 00 and press the **∗** key to save the format.

Press the **F** **∗** keys to quit programming.

5.2.1 *Format copy*

	FOR. 0 **FORMAT**
-	**FOR 1.** **AN. 432 LA.480** **FORMAT**
	FOR. 0 **FORMAT**
∗	**FOR 2.** **AN. 432 LA.480** **FORMAT**

1. Select the format to be copied (*points 1, 2 and 3 of the previous section*)

2. Press **-** .

3. Type the number of format in which it is to be copied (it must have been created, although all fields are at 0).

4. Press **∗** to save the format.

5.2.2 *Format delete*

	FOR 2. **AN. 432 LA.480** **FORMAT**
T **TOT2**	
	FOR 2. **AN. 000 LA.000** **FORMAT**

1. Select the format to be deleted (*points 1, 2 and 3 of section 5.2*)

2. Press **T** and **TOT2** .

If you wish to print a sample label while creating a label format, press TOT3.

6. SET-UP

Operation of the LP-2550 can be personalized by taking the following steps and assigning the correct values to set-up parameters.

.

6.1 TOTAL CLEAR OF THE LP-2550

*F0790

7× X

Prog.

Total reset 1 START SCALE

1. Press the * F 0 7 9 0 keys to enter programming.
2. Press X 7 times to do a total clearance of the LP-2550. The F or * keys cancel the clearance in process.

> **ATTENTION**: **If a total memory clear is done on the labelling machine, the label formats programmed and logos loaded will be lost**.

6.1.1 *Items clearance*

*F0790

7 X 1[A]

Prog.

Spec. clear 1. SPECIAL CLEAR

It clears the entire memory except for the label formats and logos:

1. Enter programming.
2. Press the 1[A] key 7 times.

6.2 GENERAL SET-UP

When taking any of the following steps, keep in mind the table below:

Key	Function
F	Return to the initial programming position.
C	Clear data.
X	Print set-up.
XX[Y]	Access parameter **xx** directly.
*	Save the value and move on to the next.

*F0790

4

...

*

...

*

Prog.

GROUP 00 GROUP NUMBER

WHO. L 10000 WHOLESALER L.

1. Press the sequence * F 0 7 9 0 to enter programming.
2. Press 4 to select programming of set-up parameters.
3. Enter the **group number** to which the LP-2550 belongs (from 00 to 99). Press the * to move on to program the wholesaler's limit.
4. Enter the value (6 digits) of the amount above which a customer is considered a **wholesaler**.

Press * to save the data. Consult the sections outlined below to set up the other parameters.

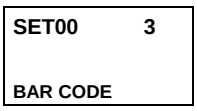
6.2.1 *Setting 00: Bar code*

This is to inform the LP-2550 if it is to issue a bar code, and when it is to do so:

0. Bar code on the receipt when the total is positive. (Default value)
1. Bar code on the receipt always. If the total is negative, a zero shows.
2. No bar code.
3. Bar code always, with the absolute value of the amount.

To modify the value:

[*] [F] [0] [7] [9] [0]
[4] [*] [*]



1. enter general set-up mode and seek parameter 00.

...

2. Enter one of the previous values, e.g. **3**.

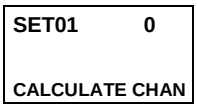
[*]

Press [*] to save the parameter and move on to program the next parameter.

6.2.2 *Setting 01: Calculating change*

This enables the LP-2550 to calculate the change before printing the receipt. To do so:

[*] [F] [0] [7] [9] [0] [4]
[*] [*] [1^A]



1. Enter general set-up mode and seek parameter 01, whose two possible values mean the following:

0. No calculation of change. (Default value)
1. With calculation of change.

...

2. Use the numeric keyboard to enter the required value .

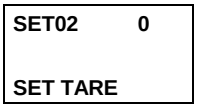
[*]

3. Press [*] to save the change made.

6.2.3 *Setting 02: Set tare*

This enable the LP-2550 to fix the tare or not. To do so

[*] [F] [0] [7] [9] [0] [4]
[*] [*] [2^B]



1. Enter general set-up mode and seek parameter 02, whose two possible values mean the following:

0. Tare can be fixed (Default value)
1. Tare cannot be fixed.

...

2. Use the numeric keyboard to enter the required value .

[*]

3. Press [*] to save the change made.

6.2.4 *Setting 03: Set price*

Depending on this set-up, the LP-2550 can set a fixed price or not. (on pressing **F**, the price typed in the labelling machine will not be deleted on removing the product from the platform). To do so:

*** F 0 7 9 0 4**
*** * 3C**

SET03 0
SET PRICE

1. Enter general set-up mode and seek parameter 03 whose two possible values mean the following:

0. The price can be fixed. (Default value)
1. The price cannot be fixed.

2. Use the numeric keyboard to enter the required value .

...

3. Press ***** to save the change made.

*****

6.2.5 *Setting 04: Paper type*

This set-up is for choosing the type of paper the LP-2550 is to use. To do so:

*** F 0 7 9 0 4**
*** * 4D**

SET04 0
PAPER TYPE

1. Enter general set-up mode and seek parameter 04, whose possible values mean the following:

0. Fanfold paper, receipt mode.
1. Fanfold paper, unit mode (a receipt is printed on each memory store).
2. Fanfold paper, receipt mode unit (a receipt is printed on each memory store).
3. Label paper, receipt mode.
4. Label paper, unit mode.
5. Label paper, label mode.
6. Self-adhesive fanfold paper, receipt mode.
7. Self-adhesive fanfold paper, unit mode.
8. Self-adhesive fanfold paper, label mode.
9. Label paper. This label mode operates without paper receiver

...

2. Use the numeric keyboard to enter the required value .

*****

3. Press ***** to save the change made.

6.2.6 *Setting 05: Enable multiplication*

With this setting, you can decide if the LP-2550 can carry out multiplication operations. To do so:

∗ F 0 7 9 0 4
∗ ∗ 5[E]

SET05 0
MULTIPLY

...

∗

1. Enter general set-up mode and seek parameter 05, whose two possible values mean the following:

   0. It enables multiplication. (Default value)
   1. It does not enable multiplication.

2. Use the numeric keyboard to enter the required value .

3. Press ∗ to save the change made.

6.2.7 *Setting 06: Enable addition*

With this setting, you can decide if the LP-2550 can carry out addition operations. To do so:

∗ F 0 7 9 0 4
∗ ∗ 6[F]

SET06 0
ADD

...

∗

1. Enter general set-up mode and seek parameter 06, whose two possible values mean the following:

   0. It enables addition. (Default value)
   1. It does not enable addition.

2. Use the numeric keyboard to enter the required value.

3. Press ∗ to save the change made.

6.2.8 *Setting 07: Enable subtraction*

With this setting, you can decide if the LP-2550 can carry out subtraction operations. To do so:

∗ F 0 7 9 0 4
∗ ∗ 7[G]

SET07 0
SUBTRACT

...

∗

1. Enter general set-up mode and seek parameter 07, whose two possible values mean the following:

   0. It enables subtraction. (Default value)
   1. It does not enable subtraction.

2. Use the numeric keyboard to enter the required value
3. Press ∗ to save the change made.

6.2.9 *Setting 08: Enable subtotal*

With this setting you decide if the LP-2550 can review transactions. To do so:

∗ F 0 7 9 0 4
∗ ∗ 8[HI]

SET08 0
SUBTOTAL KEY

1. Enter general set-up mode and seek parameter 08, whose two possible values mean the following:

   0. It enables revision of the receipt (Default value).
   1. It does not enable revision of the receipt.

...

2. Use the numeric keyboard to enter the required value

∗

3. Press ∗ to save the change made.

6.2.10 *Setting 09: Send receipt to computer*

With this setting you decide if the LP-2550 can send receipts to the computer. To do so:

∗ F 0 7 9 0 4
∗ ∗ 9[I]

SET09 0
RECEIPTS PC

1. Enter general set-up mode and seek parameter 09, whose two possible values mean the following:

   0. It enables forwarding of receipts to computer.
   1. It forwards receipts to computer on storing the following sale.
   2. Immediate forwarding of receipts to computer (it impedes the reopening of receipts).

...

2. Use the numeric keyboard to enter the required value

∗

3. Press ∗ to save the change made.

6.2.11 *Setting 10: Sale by the gram or kilo*

With this setting you decide if unit sales are to be shown in grams or kilos. To do so:

∗ F 0 7 9 0 4
∗ ∗ 10[J]

SET10 0
UNIT WEIGHED

1. Enter general set-up mode and seek parameter 10, whose two possible values mean the following:

   0. Unit sale in grams.
   1. Unit sale in kilograms.

...

2. Use the numeric keyboard to enter the required value

∗

3. Press ∗ to save the change made.

6.2.12 *Setting 11 :Register chit*

With this setting you choose how the labelling machine is to operate with regard to the register chit. To do so:

* F 0 7 9 0 4
* * 11[K]

SET11 0
REGISTER CHIT

1. Enter general set-up mode and seek parameter 11, whose 4 possible values mean the following:

- **0.** the register chit is not issued.
- **1.** With cash register chit and bar code on the receipt.
- **2.** With register chit but bar code on the register chit.
- **3.** With register chit and the bar code is printed on the receipt and chit.

...

2. Use the numeric keyboard to enter the required value .

*

3. Press * to save the change made.

6.2.13 *Setting 12: Distance Register chit*

With this setting you choose the time between the printing of the receipt and the register chit. To do so:

* F 0 7 9 0 4
* * 12[L]

SET12 0
TIME REG CHIT

1. Enter general set-up mode and seek parameter 12, whose ten possible values mean the following:

- **0 –** The chit is printed on pressing * or 10 seconds later.
- **1 to 9 –** Number of blank lines between the receipt and the register chit.

...

2. Use the numeric keyboard to enter the required value

*

3. Press * to save the change made.

6.2.14 *Setting 13: Print VAT on receipt*

This setting enables or disables the printing of VAT. To do so:

* F 0 7 9 0 4
* * 13[M]

SET13 0
VAT RECEIPT

1. Enter general set-up mode and seek parameter 13, whose two possible values mean the following:

- **0.** VAT is printed on receipt.
- **1.** VAT is not printed on receipt.

...

*

2. Use the numeric keyboard to enter the required value

3. Press * to save the change made.

6.2.15 *Setting 14: EAN 13 format*

With this setting you choose the contents of the bar code (the special one designed by the user in secs. *6.2.22* and *6.2.23* or the one the LP-2550 incorporates by default) which is to be printed on the receipt and label.

Both are alphanumeric text with 12 positions. They must be programmed like text for the headers and the item's name; numbers are symbolized directly on the bar code and the letters have the following meaning:

Code	Representation on the bar code	Code	Representation on the bar code
A	Group number	H	Weight
B	Customer number	I	VAT rate
C	Item code	J	Batch number
D	Employee code	K	Section
E	Total amount of Receipt	L	Manufacturer's code
F	Sign of the amount	Q	Control check
G	Number of Items	Y	Total Secondary Currency

The default bar code for the receipt & label is: **2AABBBBEEEEE**'

If the total of the amount is greater than the no. of digits, the bar code is not printed.

To do so:

1. Enter general set-up mode and seek parameter 14, whose 4 possible values mean the following:

0. Default value.

1. Special format for the receipt & by default for the label.

2. Special format on label & by default on receipt

3. Special format on receipt & label

4. Section format on label & by default on receipt.

5. Section format on label & a special one on receipt.

[*] [F] [0] [7] [9] [0] [4]
[*] [*] [14^N]

SET14 0
EAN-13 FOR

...

[*]

2. Use the numeric keyboard to enter the required value

3. Press [*] to save the change made.

6.2.16 *Setting 15: Show tare weight*

With this parameter you set the LP-2550 to show the weight value on the tare display. To do so:

∗ F 0 7 9
0 4
∗ ∗ 15[O]

SET15 0
TARE DISPLAY

1. Enter general set-up mode and seek parameter 15, whose two possible values mean the following:
   - **0.** It shows the weight value on the tare display.
   - **1.** It does not show the weight value (it is shown)

...

2. Use the numeric keyboard to enter the required value

∗

3. Press ∗ to save the change made.

6.2.17 *Setting 16: Meat control type*

With this parameter you choose the way in which animal type control is kept:

∗ F 0 7 9 0 4
∗ ∗ 16[P]

SET16 0
ASSOC PLU-BEEF

1. Enter general set-up mode and seek parameter 16, whose possible values mean the following:
   - **0.** Manual mode.
   - **1.** Automatic mode.
2. Use the numeric keyboard to enter the required value

∗

3. Press ∗ to save the change made.

6.2.18 *Setting 17: Print sales assistant code on receipt*

∗ F 0 7 9 0 4
∗ ∗ 17[Q]

Here you decide if the sales assistant's code and name are to be printed on the receipt:

...

SET17 0
ASSISTANT'S NAME

1. Enter general set-up mode and seek parameter 17. . The possible values are:
   - **0.** The sales assistant's code/name is not printed.
   - **1.** The sales assistant's code/name is printed.

∗

2. Use the numeric keyboard to enter the required value
3. Press ∗ to save the change made.

∗ F 0 7 9
0 4
∗ ∗ 18[R]

6.2.19 *Setting 18: Join texts*

∗

SET18 0
JOIN TEXTS

This setting is to enable texts of ingredients to be joined to text which has been typed in:

- **0.** Texts not joined: each line is printed in its corresponding position.
- **1.** Join texts: the ingredients are printed one after another on the label.

Press ∗ to save the change made.

6.2.20 *Setting 19: Without weighing*

This setting is enable operation with or without weighing platform.

0. Operation with weighing platform.
1. Operation without weighing platform

* F 0 7 9 0 4
* * 19[S]

SET19	0
WITHOUT WEIGHING	

6.2.21 *Setting 20: Delay*

This setting is to determine if there is to be a delay in seconds between label and label in batches and multiple repetitions.

0. No delay.
0 to 9. It is equivalent to the number of seconds of delay.

* F 0 7 9 0 4
* * 20[T]

SET20	0
DELAY	

6.2.22 *Setting 21:Tap*

This setting determines if you must press * between the printing of one label and another when using batches or multiple repetition.

0. Not necessary to wait for tap.
1. Necessary to wait for tap.

* F 0 7 9 0 4
* * 21[U]

SET21	0
TAP	

6.2.23 *Setting 22: Cash drawer ON/OFF*

This parameter permits cash drawer to be activated or deactivated, and to programme the time in milliseconds of the cash drawer signal.
To programme this proceed as follows:

1. Access Configuration programming mode by entering the sequence: * F 0 7 9 0.
2. Programme parameter 22, Values are as follows:

0. Deactivated.
1. 100 ms
2. 200 ms
3. 300 ms
4. 400 ms
5. 500 ms

3. Press * to save the change made.

* F 0 7 9 0 4
* * 22[V]

SET22	0
CASH DRAWER ON/OFF	

...

*

6.2.24 *Setting 23: Automatic total for batches*

This parameter permits automatic printing of totals when items are changed in batch printing.
The programming procedure is :

1. Access Configuration programming mode by entering the sequence: * F 0 7 9 0.
2. Programme parameter 23,

0. No
1. In batch printing, the total is automatically printed when items are changed.

3. Press * to save the change made

* F 0 7 9 0 4
* * 23[W]

SET23	0
AUTOM TOTAL	

...

*

6.2.25 *Setting 24: EAN 128 Format*

This parameter determines the content of EAN 128 to be printed on the label. Proceed as follows:

1. Enter general configuration mode and find parameter 24 .The two values mean the following:

- **0.** Global format.
- **1.** Section format.

2. Enter the desired value with the number keys.

3. Press * to save the change made.

* F 0 7 9 0 4
* * 24[X]

SET24 0
EAN 128 FORM.

*

6.2.26 *Setting 25: Counter for level 1 totals*

This is a label counter that can be printed on EAN 128. The counter advances each time a level 1 totals label is printed. To view the number of printed labels:

1. Enter general configuration mode and find parameter 24

* F 0 7 9 0 4
* * 25[Y]

SET25 0
TOT COUNT 1

6.2.27 *Setting 26: Counter for level 2 totals*

This is a label counter that can be printed on EAN 128. The counter advances each time a level 2 totals label is printed. To view the number of printed labels:

1. Enter general configuration mode and find parameter 26

* F 0 7 9 0 4
* * 26[Z]

SET26 0
TOT COUNT 2

6.2.28 *Setting 27: Counter for level 3 totals*

This is a label counter that can be printed on EAN 128. The counter advances each time a level 3 totals label is printed. To view the number of printed labels:

1. Enter general configuration mode and find parameter 27

* F 0 7 9 0 4
* * 27[N]

SET27 0
TOT COUNT 3

6.2.29 *Setting 80: Bar code on receipt*

* F 0 7 9 0 4
* * 27N
*

SET80 01 32m
E29CCCCEEEE

This setting will only show up in programming if the current value of setting 14 is 1,3 or 5.
It permits a special bar code to be designed for the receipt. To do so:

1. Enter general set-up mode and seek parameter 80,
2. Enter the required EAN 13 format (12 letters or numbers) according to the table in sec. *6.2.14*. Use the alphanumeric keyboard or the character codes Press * to save the change made.

*

6.2.30 *Setting 81: Bar code on label*

* F 0 7 9 0 4
* * 27N
*

SET81 01 32m
E29CCCCEEEE

This setting will only appear in programming if setting 14's current value is 2 or 3.
It permits a special bar code to be designed for the label. To do so:

1. Enter general set-up mode and seek parameter 81,
2. Enter the required EAN 13 format (12 letters or numbers) according to the table in sec. *6.2.14*.
3. Press * to save the change made.

*

6.2.31 *Setting 82: EAN 13 for level 1 totals*

This is for designing EAN 13 for level 1 totals. Proceed as follows:

* F 0 7 9 0 4
* * 27N
* *

SET82- 01 0m
E

1. Enter general configuration mode and find parameter 82 .
2. Edit EAN 13
3. Press * to save the change made.

*

6.2.32 *Setting 83: EAN 13 for level 2 totals*

This is for designing EAN 13 for level 2 totals. Proceed as follows:

* F 0 7 9 0 4
* * 27N
3x *

SET83- 01 0m
E

1. Enter general configuration mode and find parameter 83
2. Edit EAN 13
3. Press * to save the change made.

*

6.2.33 *Setting 84: EAN 13 for level 3 totals*

This is for designing EAN 13 for level 3 totals. Proceed as follows:

* F 0 7 9 0 4
* * 27N
4x *

SET84- 01 0m
E

1. Enter general configuration mode and find parameter 84 .
2. Edit EAN 13
3. Press * to save the change made.

*

6.2.34 *Setting 85: Global EAN 128*

This parameter only appears in programming if the current value of parameter 24 is 0.
This is for designing the global EAN 128. Proceed as follows:

1. Enter general configuration mode and find parameter 85 .
2. Edit EAN 128
3. Press * to save the change made.

* F 0 7 9 0 4
* * 27^N
5x *

SET85 001 ON
EAN 128 GLb

*

6.2.35 *Setting 86: EAN 128 for level 1 totals*

This is for designing EAN 128 for level 1 totals. Proceed as follows:

1. Enter general configuration mode and find parameter 86 .
2. Edit EAN 128 .
3. Press * to save the change made.

* F 0 7 9 0 4
* * 27^N
6x *

SET86 001 ON
EAN 128 tOt 1

*

6.2.36 *Setting 87: EAN 128 for level 2 totals*

This is for designing EAN 128 for level 2 totals. Proceed as follows:

1. Enter general configuration mode and find parameter 87 .
2. Edit EAN 128
3. Press * to save the change made.

* F 0 7 9 0 4
* * 27^N
7x *

SET87 001 ON
EAN 128 tOt 2

*

6.2.37 *Setting 88: EAN 128 for level 3 totals*

This is for designing EAN 128 for level 3 totals. Proceed as follows:

1. Enter general configuration mode and find parameter 88
2. Edit EAN 128
3. Press * to save the change made.

* F 0 7 9 0 4
* * 27^N
8x *

SET88 001 ON
EAN 128 tOt 3

*

6.3 CURRENCIES

Here the LP-2550 is programmed with the two currencies which are to be printed. The available currencies are:

Code	Currency	DESCRIPTION
0	DM	DEUTSCHMARK
1	NLG	DUTCH GUILDER
2	Lux F	LUXEMBOURG FRANC
3	L	POUND STERLING
4	FF	FRENCH FRANC
5	SH	AUSTRIAN SCHILLING
6	Sw F	SWISS FRANC
7	Dkr	DANISH CROWN
8	Skr	SWEDISH CROWN
9	EURO	EURO
-	-	NONE IS PRINTED

To change the currencies in the machine, take the following steps:

1. Ensure the LP-2550 has been set up as master and press the sequence **∗ F 0 7 9 0** to enter programming.

2. Press **9**

3. Enter the currency code you require to appear as the primary one.

4. Press **∗** to save the data and move on to the next currency. Press **∗** again to move from one to another.

Press **F ∗** to quit programming mode.

C deletes the data.

∗ F 0 7 9 0

9

...

∗

...∗

F ∗

Prog.

VAL. 1 -

VAL. 1 EURO 9

EURO

VAL. 2 -

6.4 CHANGE OF CURRENCY

To program exchange rate of the different currencies, take the following steps:

* F 0 7 9 0	Prog.
8	EXCH 0 DM 0.000 DEUTSCHMARK
...	
*	EXCH 01 NLG 0.000 DUTCH GUILDER
F *	

1. Enter programming according to the sequence * F 0 7 9 0.
2. Press 8
3. Use the numeric keyboard to select the value of each currency and remember that the codes associated with each currency are those in the table in *sec. 6.2 Currencies.*
4. Press * to save the data and move on to the next currency.
5. Press the F and * keys to quit programming.

6.5 DEFINING SECTIONS

Here you can assign a **name** with 20 characters to each of the 10 sections as well as the bar code format you wish to associate with them. To do so:

* F 0 7 9 0	Prog.
TOT2	SEC. 0 01 0M N. SECTION
....	
*	SEC 1 05 1M. N. SECTION NUMBER
*	
...	
	SEC. 1 12 1M. ECCCCCBBBBB EAN 13 SECTION
*	

1. Press the sequence * F 0 7 9 0 to enter programming
2. Press TOT2. Section 0 and its current name will show up. The number next to that of the section indicates the position of the character of the name to be edited.
3. Enter a number from 0 to 9 corresponding to the section to which you wish to assign the name. Press * to move on to enter the name with the alphanumeric keyboard.
4. Press * key to move on to enter the **bar code format** associated with the section.
5. Enter the bar code format associated with the section in accordance with the following table:

Code	DESCRIPTION	Code	DESCRIPTION
A	Group number	**H**	Weight
B	Customer number	**J**	Batch number
C	Item code	**I**	VAT rate
D	Employee code	**K**	Section
E	Total amount of receipt.	**L**	Manufacturer's code
F	Sign of the amount	**Q**	Control check
G	Number of items		

Press * to save the set-up.

An EAN 128 can be edited for each section. The EAN 128 is edited immediately after editing the EAN 13 of the section, as described in sect. *6.6.1. EDITING OF EAN 128*

6.5.1 *Editing EAN 128*

The structure of an EAN 128 is as follows:

START + FNC1+ IA→DATA + IA→DATA+.....

where:

START (start A, start B or start C) is the special character that indicates that the characters that follow form part of an EAN 128 code. Likewise:

A indicates that capital letters and standard characters follow.
B indicates that capitals, small letters and special characters follow.
C indicates that digits follow (this is the most common for numerical data). In this case each pair of digits is represented by a character. This compresses the EAN 128 as much as possible.
IMPORTANT: In set C, the number of digits contained in the data must be even.

Char	Meaning	Obtained:
	Start A	<**TOT 3**> +<**0**>
	Start B	<**TOT 3**> +<**1**>
	Start C	<**TOT 3**> +<**2**>
	Change A	<**TOT 3**> +<**3**>
	Change B	<**TOT 3**> +<**4**>
	Change C	<**TOT 3**> +<**5**>
	Change	<**TOT 3**> +<**6**>
	FNC1	<**TOT 3**> +<**7**>
	STOP	<**TOT 3**> +<**8**>

IA is a number that represents the application ID (barcode field), i.e. it specifies the data to be represented by the EAN 128. The following **IA**s can be used:

IA	CONTENTS	FORMAT
00	Series Code from Dispatch Depart.	n2+nl8
01	EAN item number / Issue Dept. Code	n2+nl4
02	EAN item number of products contained in another dept.	n2+nl4
10	Batch or consignment number	n2+an..20
11 (a)	Date of manufacture (YYMMDD)	n2+n6
13 (a)	Date packed (YYMMDD)	n2+n6
15 (a)	Minum expiry date (YYMMDD)	n2+n6
17 (a)	Maximum expiry date (YYMMDD)	n2+n6
20	Product variety	n2+n2
21	Number of series	n2+an..20
22	HIBCC – quantity, date, batch and connection	n2+an..29
23 (b)	Consignment number (temporary use)	n3+n..l9
30	Variable quantity	n2+n..8
310 (c)	Net weight in kilograms	n4+n6
311 (c)	Length or first measurement in metres (commercial)	n4+n6
312 (c)	Width, diameter or second measurement in metres (commercial)	n4+n6
313 (c)	Depth, Thickness, Height or third measurement in metres (commercial)	n4+n6
314 (c)	Area in square metres (Commercial)	n4+n6

315 (c)	Net volume in litres	n4+n6
316 (c)	Net volume in cubic metres	n4+n6
320 (c)	Net weight in pounds	n4+n6
330 (c)	Net weight in kilograms	n4+n6
331 (c)	Length or first measurement in metres (logistics)	n4+n6
332 (c)	Width, diameter or second measurement in metres (logistics)	n4+n6
333 (c)	Depth, Thickness, Height or third measurement in metres (logistics)	n4+n6
334 (c)	Area in square metres (logistics)	n4+n6
335 (c)	Gross volume in litres	n4+n6
336 (c)	Gross volume in cubic metres	n4+n6
340 (c)	Gross weight in pounds	n4+n6
37	Quantity	n2+n..8
400	Customer order number	n3+an..30
410	Dispatch to (delivery to) operational point using EAN-13 or DUNS number (Dun & Bradstroet) with initial zeros	n3+n13
411	Invoice to (charge to account) operational point using EAN-13 or DUNS number (Dun Bradstreet) with initial zeros	n3+n13
412	Purchased from (operational point where purchase was made) using EAN-13 or DUNS number	n3+n13
420	Dispatch to (delivery to) postcode within the same Postal Authority	n3+an..9
421	Dispatch to (delivery to) postcode with 3-digit ISO country prefix	n3+n3+an..9
8001	Coiled products – width, length, nuclear diameter, direction and joins	n4+n14
8002	Electronic Series Number for Cellular Mobile Phones	n4+an..20
90	Internal Applications	n2+an..30
91	Internal – Raw Material, Packing, Components	n2+an..30
92	Internal – Raw Material, Packing, Components	n2+an..30
93	Internal – Product Manufacturers	n2+an..30
94	Internal – Product Manufacturers	n2+an..30
95	Internal – Carriers	n2+an..30
96	Internal – Carriers	n2+an..30
97	Internal – Wholesalers and retailers	n2+an..30
98	Internal – Wholesalers and retailers	n2+an..30
99	Internal – Mutually defined text	n2+an..30

where:

- (**a**): To indicate year and month alone, DD can be completed with "00", (**b**): one extra digit to indicate length,(**c**): one extra digit to indicate the decimal point.

- nx is a field with x digits

- **ax** x is an alphanumerical field with a maximum of x characters.

DATA represents the data that will be printed followed by the corresponding **IA**. Letters may be entered in the numerical field positions, and these will be substituted when printed by the corresponding value stated in the table given below:

Code	Meaning in barcode	Code	Meaning in barcode
A	Group Number	J	Batch Number
B	Client Number	K	Section
C	Item Code	L	Manufacturer's Code
D	Employee Code	N	Totals counter for Level
E	Sum Total for Receipt	Y	Secondary Currency Total
F	Total Sign	Q	Control Check
G	Number of Items	U	Date packed
H	Weight	V	Expiry Date
I	VAT Rate		

The length of the data depends on the **IA**. Some fields are of a fixed length and others are variable. All positions must be completed in fixed-length fields.

If not all the positions are completed in variable-length fields, the **FNC1** character must be entered at the end in order to indicate end of field.

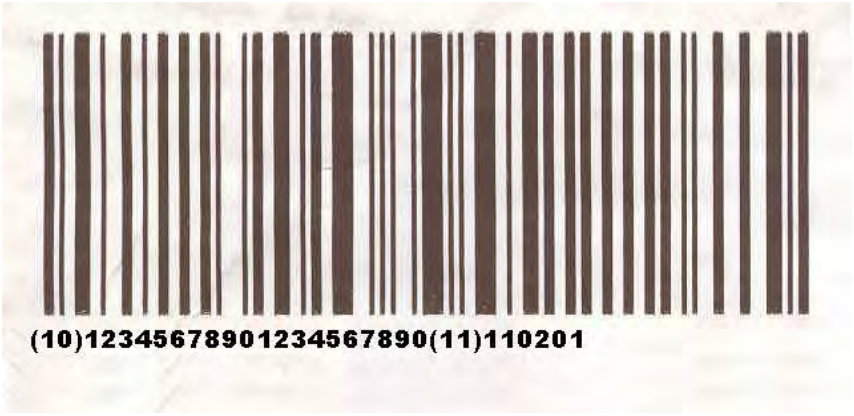
CHANGE (Change A, Change B and Change C) is a special character that permits the code type to be changed within an EAN 128. Therefore, when a change character is encountered, the EAN 128 will be printed with the new code specified until another change character is encountered.

The Change character only makes a change between sets of A and B characters and only affects the following character found after the Change character.

IMPORTANT: If IA 10 is used (batch number) it is not necessary to include the data field after the identifier, LP2550 automatically inserts the batch number of the machine*.*

It is not necessary to enter a STOP character. The LP-2550 automatically enters a STOP character when a **space** is found instead of an application identifier.

EXAMPLE OF EAN 128:



This barcode was programmed as follows:

START C + FNC1 + identifier + DATA + identifier + DATA

(TOT3 + 2) + (TOT3 + 7) + (10) + (12345678901234567890) + (11) + (110201)

In this example, the machine batch number is 12345678901234567890. If the batch number has less than 20 characters, the FNC 1 character must be entered at the end of the field.

(TOT3 + 2) + (TOT3 + 7) + (10) + (1234567890 + (TOT3 + 7)) + (11) + (110201)

If the batch number contains letters as well as numbers, the EAN 128 must be edited so that it occupies the least possible space.
If, for example, the batch number is: ABCD1234
In this case the best form of programming would be:

(TOT3 + 1) + (TOT3 + 7) + (10) + (ABCD + (TOT3 + 5) + 1234+ (TOT3 + 7)) + (11) + (110201)

In this case, the EAN 128 is commenced with a set of B characters because there are capital letters in the data (set A could also be used at the beginning). As there are digits after the letters, and there are an even number of digits, set C is then used.

6.6 HEADER LINES

This parameter sets the labelling machine to print the header lines on the lists or not

1. Enter programming according to the sequence **∗ F 0 7 9 0**.

2. Press **0.**

3. Press **∗**

4. Enter:

0. If they are **not** required
1. to print them.

5. Press **∗** to save and **F ∗** to quit.

It is possible to print 20 headlines of 24 characters each.
The programming process is the following:

1. Enter in programming mode by pressing **∗ F 0 7 9 0 PLU4**
2. Program each one of the 20 lines.

To print these lines in label, select the fields from 120 to 139.

∗ F 0 7 9 0

Prog.

0

∗

STAB. 2
STAB. WEIGHT

....

Header 0
HEADER

∗
F ∗

6.7 ADJUST DATE & TIME

The date and time are adjusted by carrying out the following operations:

1. Ensure the LP-2550 has been set up as master and press the sequence **∗ F 0 7 9 0** to enter programming.

2. Press **3** to select clock programming.

The display will show the date and time in 'ddmmyy' and 'hhmmss' format respectively.

3. Press the **+** or **-** keys to position yourself on the digit to be edited. If necessary, the clock can be stopped or set going by pressing **X.**

Use the numeric keyboard to enter the digit to be edited.

4. Press **∗** to save the data. To quit to the initial programming position press **F** and **∗** to return to normal working position.

∗ F 0 7 9 0

Prog.

3

clock
07.11.00 16.55.38

...

∗
F ∗

6.8 PROGRAMMING DATE FORMAT ON LABELS

∗ F 0 7 9 0

Prog.

Press the sequence ∗ F 0 7 9 0 to enter programming
Press PLU 8^H
Enter the date format in accordance with this table:

Format Date 0

Number	Format	Example
0	Ddmmyy	28.02.02
1	DdMONTH LETTER.yy	28.FEB.02
2	Ddmmyy	28.02.2002
3	DdMONTH LETTER.yyyy	28.FEB.2002
4	Dd/mm/yy	28/02/02
5	Dd/MONTH LETTER/yy	28/FEB/02
6	Dd/mm/yyyy	28/02/2002
7	Dd/MONTH LETTER/yyyy	28/FEB/2002
8	Mm.dd.yy	02.28.02
9	MON LETTER.dd.yy	FEB.28.02
10	Mmddyy	02.28.2002
11	MONLETTER.dd.yyyy	FEB.28.2002
12	Mm/dd/yy	02/28/02
13	MON LETTER/dd/yy	FEB/28/02
14	Mm/dd/yyyy	02/28/2002
15	MON LETTER/dd/yyyy	FEB/28/2002
16	Dd COMPLETE MON LETTER yyyy	28 FEBRUARY 2002
17	COMPLETEMONTH LETTER dd yyyy	FEBRUARY 28 2002
18	Ddmmyy	280202
19	Mmddyy	022802

∗
∗

Press ∗ to accept the date format selected and once again to quit.

Irrespective of the date format, the date is always programmed in the dd-mm-year order.

Programming affects the order and way in which the date fields are printed, not the programming of the clock.

6.9 ACCESS CODE TO LISTS

∗ F 0 0 0 0

Prog.

X

LIST

....

- - - -

The access code to lists can be changed. It is done as follows:

1. Press the ∗ and F keys and the old access code to lists (by default **0 0 0 0**).
2. Press X and enter 4 numbers as the new access code to lists.

If you have forgotten the old access code contact your supplier or Technical Assistance of your labelling machine.

6.10 AUTOMATIC WEIGHING MODE

Once this option is enabled and an item is fixed with the **F** key, a label is printed whenever the weight is stabilised:

1. Enter programming according to the sequence **∗ F 0 7 9 0**.
2. Press **O4**.
3. Type:
   - **0.** normal mode.
   - **1.** Automatic weighing mode.
4. Press **∗** to save the change made.

Mode of operation:

1. Select the sales assistant.
2. Select the PLU.
3. Set the PLU with **F**.
4. A label is printed whenever the weight is stabilised.

∗ F 0 7 9 0	**Prog**
O4	
1	**Prog Auto wei 0** **AUTO WEIGHT**
∗	
O4	**Prog Auto wei 1** **AUTO WEIGHT**
1^	
F	

6.10.1 *Totals labels*

There are 3 levels of totals.

Level 1 - **TOT1**
Level 2 - **TOT2**
Level 3 - **TOT3**

This mode allows you to operate in normal mode or automatic weighing mode.
To design a totals label, follow the same procedure as for a normal label. (section 5.2)

Choose one of the 20 formats programmable as totals label.

The following fields only figure on totals label.

Field 44	Total number of labels.	Field 111	Text: ''Total sum''.
Field 45	Number of labels for this level.	Field 112	Text: ''Item code''.
Field 46	Accumulated totals.	Field 113	Text: ''Total operations''.
Field 47	Gross weight.	Field 114	Text: ''Total weight''.
Field 48	Total number of labels issued from this PLU.	Field 115	Text: ''Sum total''.
Field 49	Labels issued from lower level of totals.	Field 116	Text: ''Total code''.
Field 110	Text: ''Total weight''.	Field 117	Text: ''Number of operations''.

The total weight is printed in the position indicated by the Weight field.

The total amount is printed in the position indicated by the Amount field.

∗ F 0 7 9 0	**Prog**
+	
6 X **X**	**Printing p.** **Print dist 000** **PRINTOUT DIST**
....	**Printing p.** **Format tot00** **FOR TOTALS 1**

To associate label formats by levels, enter printer settings and press **X** six times to get to the totals format screen.

Format t00 – level 1.
Format t00 – level 2.
Format t00 – level 3.

Where t associates to the format number you wish to associate this level

6.10.2 *Discount mode*

This mode allows you to discount from the accumulated totals.

*** and **-**.

1. Press ***** and **-**.

You move between discount mode and accumulate mode.

Discount mode.

2. The message shows on the alphanumeric line for 1 sec. Indicating the mode selected.

In discount mode the selected sales are removed from the accumulated totals.
A label is not printed. A label needing correction can thus be removed.

0.000 0.00
0.000 - 0.00

Accumulate mode is the one normally used.

The labels are printed and accumulated to the totals.

6.11 LABEL COUNTER

The programming procedure for the 8 digit **Label Counter** field is as follows:

LABEL NO.
0

SHIFT **+**

- Press **SHIFT** **+** to enter programming.

This field increases each time a label is printed.
To print the label counter on the labels, select field 11.

6.12 POST-TARE OPERATION

***** **F** **0** **7** **9** **0** **6**[E]

This is programmed from ***** **F** **0** **7** **9** **0** **PLU6**. To enable post-tare operation, set it to **1**.

Post-tare operation works as follows:

Post-tare 1

1. Place the product in its packing on the weighing platform.
2. Select the price and press the corresponding sales assistant key.
3. The data is saved in the memory at this moment but the sale is not yet effected. Place the empty pack on the platform, select the price again and the sales assistant key again.
4. At this moment the sale is effected. The pack is used as the tare weight, and the net weight is the initial weight minus the weight of the pack that was weighed afterwards.

6.13 COPIES OF TOTAL LABELS

***** **F** **0** **7** **9** **0** **7**[G]

Repeat
Totals 0

This enables copies of total labels to be made.
This is programmed from ***** **F** **0** **7** **9** **0** **PLU7**

- **0.** No copies made.
- **1.** Number of copies required.

6.14 EAN-13 DENSITY

***** **F** **0** **7** **9** **0** **9**[I]

Dens EAN 0

Programming

This permits the EAN-13 density to be programmed.
This is programmed from ***** **F** **0** **7** **9** **0** **PLU9**

- **0.** Normal.
- **1.** x2.
- **2.** x3.

6.15 CONTROL OF LABEL AT EXIT

This permits the detector of labels at the exit to be activated or deactivated. Test mode must be activated for this purpose.
To enter test mode, switch on the equipment, and when the countdown commences, press * and 25Y simultaneously. In test mode, press PLU3

0. Deactivated
1. Activated

* y 25Y

PLU3

Opto 2
0

6.16 NUMBER OF COPIES OF LABELS

In this parameter, the user can program the number of copies of labels to be printed on each operation.

The operative is the following:

1. Enter in programming mode by pressing * F 0 7 9 0.

2. Press the key **PLU 10.**

3. Select the number of copies (0-99).

* F 0 7 9 0

10J

Repeat Labels	0

7. PROGRAMMING LOGOS

The LP-2550 labelling machine affords the possibility of Printing Logos on both the receipt and the labelling machine.
Up to 32 logotypes numbered from 0 to 31 can be programmed. To load these logos you must use DibalRMS V.1.25 or superior.
As far as size is concerned, the maximum one for each of the logos is150mm long and the width must always be a set 54mm (432 pixels).

To load logos you are recommended to have prior knowledge of how to use DibalRMS

7.1 PRINTING LOGOTYPES

- To print a **LOGO ON A LABEL**:
  - Go to programming or label format, section 5.2.
  - Call up field 92. This field does not have an X coordinate, the Y co-ordinate has a maximum of 150mm (1200 dots).
  - In field t (logo type), choose the number of the logo to be represented (from 0 to 32, all of which are programmable).
  - Logos can only be printed in label mode In the LP-2550. Logos are not printed in receipt mode.

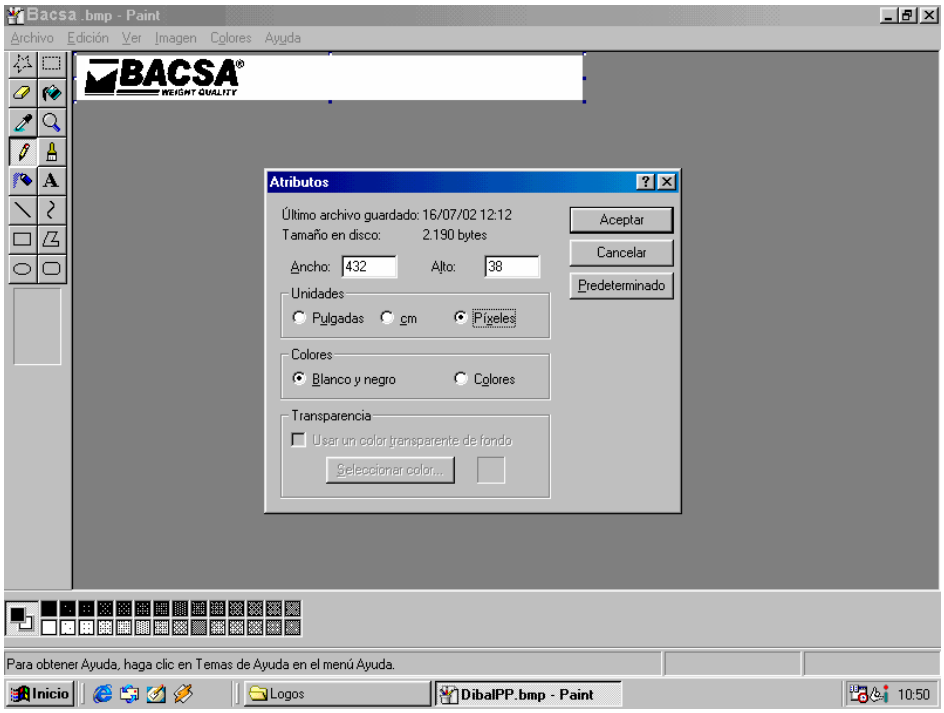
7.2 LOADING LOGOS

The DibalRMS (Version superior to 1.25) is used. With the labelling machine you can incorporate up to 32 logos from any image or one developed by the user. Remember that the larger the image, the longer it will take for it to be printed on the label.

- The size of each of these images is 5.4cm X 15cm.
- The size in pixels must be, in both width and length, a multiple of 8. The maximum size of the image would be 432 pixels wide (54mm) X 1200 pixels long (150mm). The width must always be 432 pixels.
- The format of the image must be BMP and in black and white. To this end, you are recommended to use Windows “Paint” program to make the drawing.
- .

To better understand how the logo is loaded, its use is explained by this example:

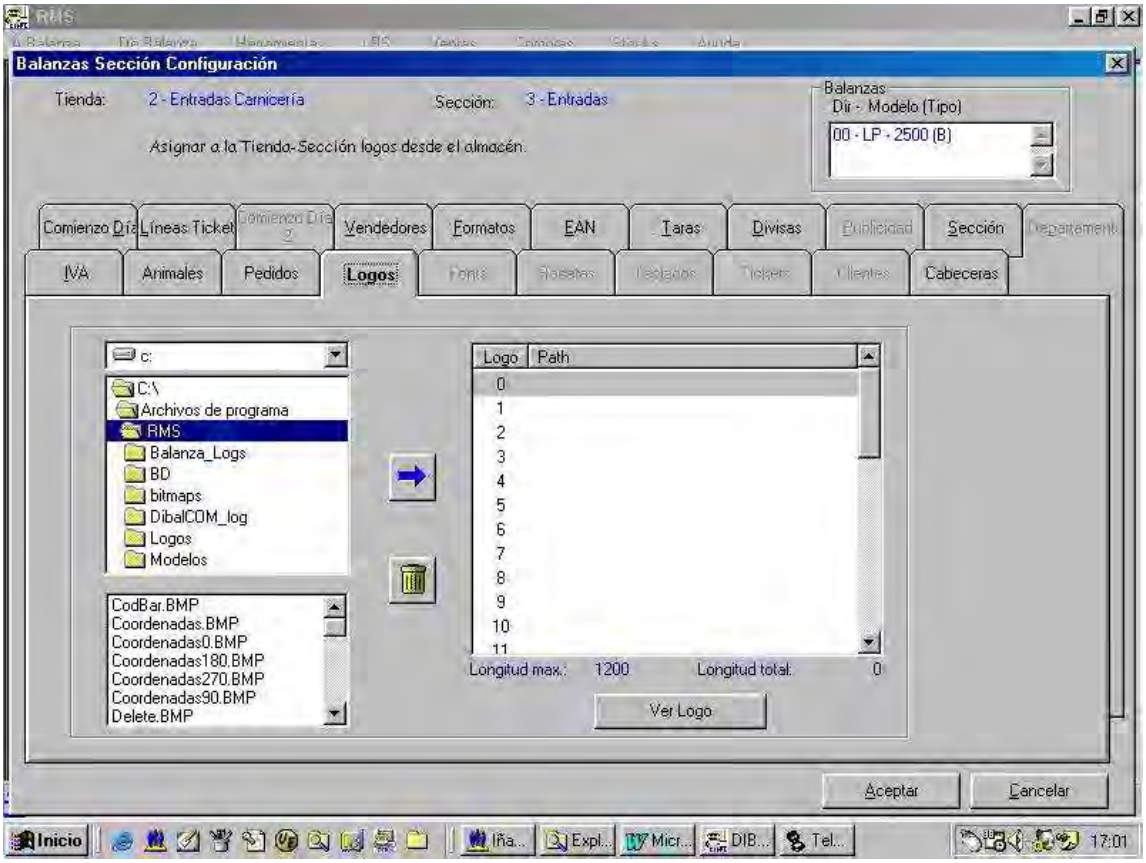
- let us suppose that we have the image shown below:



Once you have obtained the image, run the DibalRMS program and the following screen displays:

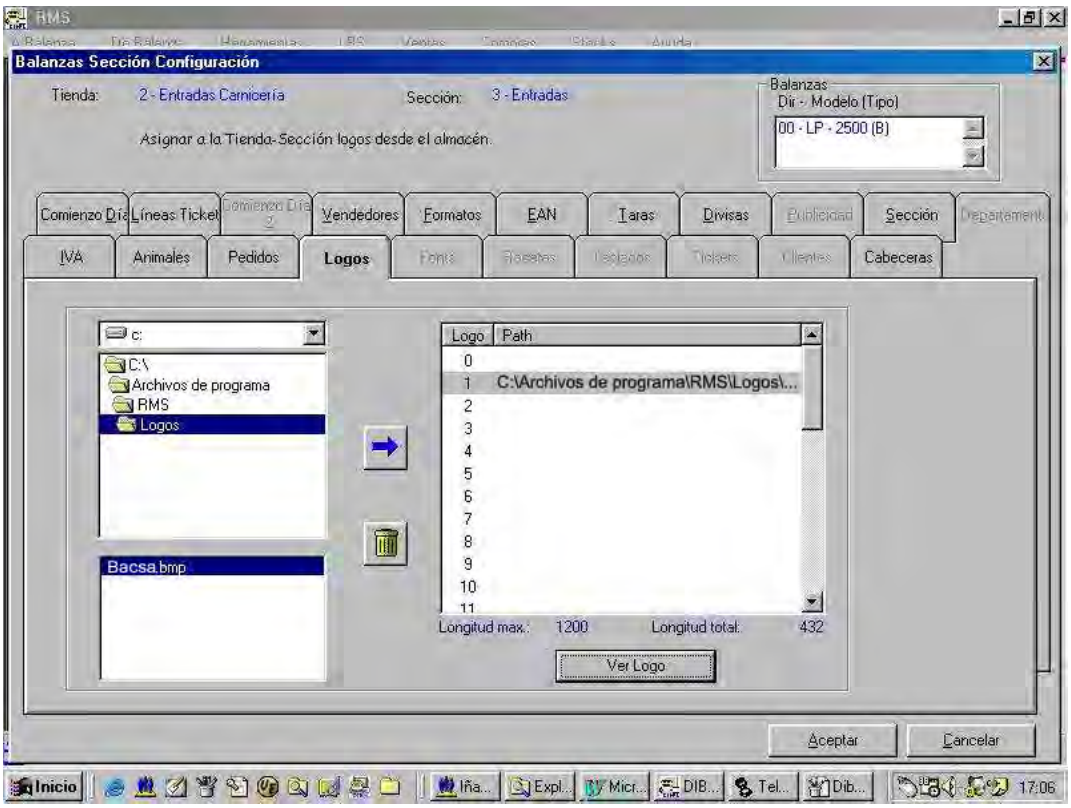
Open the Set-up/Section data menu:

Once the following screen displays, press **Set-up**



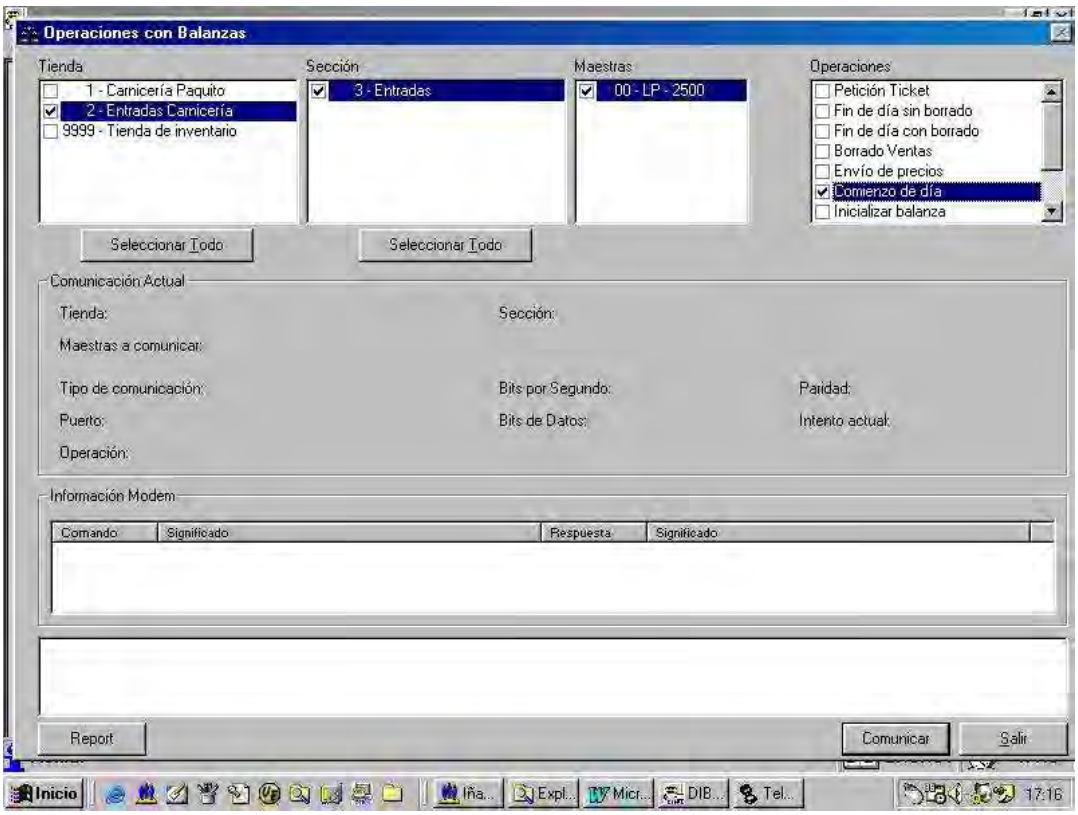
A screen in which you can select the logos box displays, and the following screen displays:

Seek the directory where the logo required to be loaded is located, for example, the logo loaded is the file DibalPP.BMP. Select the position in which it is to be loaded, for example 1, remember there are 32 types. Having done so, press ➡. In position 1, note the path in which the logo is located. Last of all, press **ACCEPT**



To transmit this logo to the labelling machine, open the menu:
Scales/Operations with Scale.

Select Shop/Section/Labelling machine and the Start of Day operation. Then, press **COMMUNICATE** and the PC will transmit all the logos to the labelling machine.



8. APPENDIX

8.1 SUMMARY OF ACCESS TO PROGRAMMING

To access the different programming options press the sequence [*] [F] [0] [7] [9] [0] and then the corresponding key in accordance with the table:

Key	PROGRAMMING
[0]	**EURO** Stage (5.*3*), **Stability** (*5.7*), **Headers Lists** (5.8), **Inventories** (*2.14*)
[1]	Programming **Items** *(3.2)*
[2]	Programming Header **Lines** (6.8)
[3]	Programming **Clock** (*sec. 6.9)*
[4]	**General set-up** (*sec 6.2)*
[5]	**Addressing** LP2550 (*sec 7.1)*
[6]	Assigning **Direct keys** (*sec 3.6)*
[7]	**VAT** rates (*sec 3.3)*
[8]	Change of currency *(6.5)*
[9]	Printing **Currencies** (*6.4)*
[TOT3]	Programming **Sales assistants** *(3.5)*
[T]	Defining Tare keys (*3.4)*
[TOT2]	**Sections** (*6.6)*
[PLU]	Label formats (*5.2)*
[O1]	**Orders** (*7.4)*
[TOT1]	**Weight display** *(8.5)*
[+]	**Printer** *(4)*
[-]	**Teleload items, formats, ingred., set-up**
[*]	**QUIT**

8.2 CHANGING PAPER IN PRINTER

To change the paper in the printer, take the following steps:

1. Open up the labelling machine's side cover, on the right side.
2. Open up the printer and free the paper from the heat-sensitive head by pressing the closing mechanism. Remove the old roll.
3. Place the new roll as shown in the photograph. Ensure that the heat-sensitive side of the paper is the one in contact with the head. (If such is not the case, nothing will be printed).
4. Replace the lid on the printer and close the side cover.

To work in receipt mode, set-up parameter 4 must be at 0.

To replace the **self-adhesive paper**:

- Open up the cover on the right side as already mentioned.
- Open up the printer and free the paper from the heat-sensitive head by pressing the closing mechanism. Remove the old roll.
- Place the new roll as shown in the photograph. Ensure that the heat-sensitive side of the paper is the one in contact with the head. (If such is not the case, nothing will be printed).

- Replace the lid on the printer and place the weighing platform by following the steps described in point **1** in inverse order.

To work in label mode set-up parameter 4 must be at 5.

8.3 CHARACTER CODES

The table below shows the letter codes necessary for programming the names of items (chapter *3 PROGRAMMING ITEMS AND TARES)* as well as the texts of header lines of the receipts (chapter *4 RECEIPT DESIGN)*.

- use the alphanumeric keyboard (keys for direct access to the P.L.U.).to enter the characters directly
- Special characters are programmed by entering the corresponding code by first pressing **TOT1** and then, after the code, **+**.
- Numbers (e.g. a telephone number) are obtained by pressing the corresponding numeric key(keyboard on the right).
- The **+** and **–** keys are used to choose the position where the character is to be edited.
- The **32** key is used to change between capital and small letters.
- Use **c** to delete the character.
- Use **TOT2** to centre the line edited.

Char.	Code		Character	Code		Char.	Code
‘ ‘	0		‘4’	34		‘r’	68
‘A’	1		‘5’	35		‘s’	69
‘B’	2		‘6’	36		‘t’	70
‘C’	3		‘7’	37		‘u’	71
‘D’	4		‘8’	38		‘v’	72
‘E’	5		‘9’	39		‘w’	73
‘F’	6		‘@ ‘	40		‘x’	74
‘G’	7		‘!’	41		‘y’	75
‘H’	8		‘“‘	42		‘z’	76
‘I’	9		‘#’	43		‘->‘	77
‘J’	10		‘$’	44		‘<-’	78
‘K’	11		‘%’	45		‘?’	79
‘L’	12		‘&’	46		‘^’	80
‘M’	13		‘/’	47		‘+’	81
‘N’	14		‘(‘	48		‘<‘	82
‘O’	15		‘)’	49		‘>‘	83
‘P’	16		‘Ñ’	50		‘=‘	84
‘Q’	17		‘a’	51		‘{‘	85
‘R’	18		‘b’	52		‘}’	86
‘S’	19		‘c’	53		‘[‘	87
‘T’	20		‘d’	54		‘]‘	88
‘U’	21		‘e’	55		‘ñ’	90
‘V’	22		‘f’	56		‘\’	91
‘W’	23		‘g’	57		‘|’	92
‘X’	24		‘h’	58		‘:’	93
‘Y’	25		‘i’	59		‘;’	94
‘Z’	26		‘j’	60		‘ ‘	95
‘,’	27		‘k’	61		‘ ‘	96
‘.’	28		‘l’	62		‘ ‘	97
‘-’	29		‘m’	63		‘ ‘	98
‘0’	30		‘n’	64		‘ ‘	99
‘1’	31		‘o’	65			
‘2’	32		‘p’	66			
‘3’	33		‘q’	67			

Spanish includes: Spain, Costa Rica, Venezuela, Colombia, Yugoslavia, Chile, Argentina, Guatemala, Dominican Rep, Mexico, South Africa, USA, Arab Emirates, Italy, Ireland, Austria, Holland, Switzerland, Portugal, France, Belgium, Great Britain, Denmark, Hungary, Germany and Estonia.

Code	SPANISH	CZECH - SLOVAK	BULGARIAN	GREEK	POLISH
100	Ç			Α	
101	ç			Β	
102	Á	Á	Ъ	Δ	Ą
103	À	Ä	Ь	Φ	Ć
104	Â	Č	Ю	Γ	Ę
105	Ä	Ď	Я		Ł
106	É	É	Ё	Λ	Ń
107	È	Ě	Ы	Π	Ó
108	Ê	Í	Э	Θ	Ś
109	Ë	L ˇ	Ј	Σ	Ż
110	Í	Ň	Љ		Ż
111	Ì	Ó	Њ	Ω	Ą
112	Î	Ô	Џ	Ξ	Ć
113	Ï	Ř	S	Ψ	Ę
114	Ó	Š	ъ	α	Ł
115	Ò	Ť	ь	β	Ń
116	Ô	Ú	ю	δ	Ó
117	Ö	Ů	я	ε	Ś
118	Ú	Ý	ё		Z
119	Ù	Ž	ы		Z
120	Û	á	э	ι	÷
121	Ü	ä	j	φ	
122	á	č	љ	κ	
123	à	d ˇ	њ	λ	
124	â	é	џ	μ	
125	ä	ě	s	π	
126	é	í	L		
127	è	l ˇ	U	ρ	
128	ê	ň	V	σ	
129	ë	ó	R	τ	
130	í	ô	N	υ	
131	ì	ř	F	ϖ	
132	î	š		ω	
133	ï	t ˇ		ξ	
134	ó	ú		ψ	
135	ò	ů		ζ	
136	ô	ý			
137	ö	ž			
138	ú	Ĺ			
139	ù				
140	û	Ŕ			
141	ü	Í			
143	£	ŕ			
144	Æ				
145	Ø				
146	Å				
147	æ				
148	ø				
149	å				
150	ß				
151	°				°
152	Ő				
153	Š				
154	ő				
155	š				
156	Ő				
157	Ű				
158	ő				
159	ű				
160	¢				
161	Euro				
162	Œ				
163	œ				
189				Euro	

Greek	Cyrillic Character	Substituted Character	Greek	Cyrillic Character	Substituted Character
	А	A		а	a
	Б	B		б	b
	В	V	ν	в	v
	Г	H		г	h
	Д	D		д	d
	Е	E		е	e
	Ж	G		ж	g
	З	Z		з	z
	И	I		и	i
	Й	J		й	j
	К	K		к	k
	Л	L		л	l
	М	M		м	m
	Н	N	η	н	n
	О	O		о	o
	П	P		п	p
	Р	R		р	r
	С	S		с	s
	Т	T		т	t
	У	U		у	u
	Ф	F		ф	f
χ	Х	X		х	x
	Ц	C		ц	c
	Ч	Y		ч	y
	Ш	W		ш	w
	Щ	Q		щ	q

8.4 INGREDIENT CODES

A

0000 POLLACK
0001 OIL
0002 ANIMAL OIL
0003 SUNFLOWER OIL
0004 MAIZE GERM OIL
0005 CORN OIL
0006 VEGETABLE OIL
0007 OILS
0008 ANIMAL OILS
0009 VEGETABLE OILS
0010 OLIVES
0011 ACETIC
0012 ACID
0013 ACETIC ACID
0014 ASCORBIC ACID
0015 CITRIC ACID
0016 ACIDS
0017 ACIDULANT
0018 ACIDULANTS
0019 ADDITIVES
0020 AGENT
0021 AGENTS
0022 AROMATIC AGENTS
0023 NATURAL SMOKE AGENT
0024 WATER
0025 SPARKLING WATER
0026 MINERAL WATER
0027 HYDROGEN PEROXIDE
0028 STILL WATER
0029 LIQUOR
0030 SHOULDER OF VEAL
0031 SHOULDER OF BEEF
0032 BOVINE SHOULDER
0033 GARLIC
0034 GARLIC
0035 WINGS
0036 HEN WINGS
0037 CHICKEN WINGS
0038 WINGS
0039 APRICOT
0040 APRICOTS
0041 ALBUMIN
0042 - ARTICHOKES
0043 - ALCOHOL
0044 – CAROB BEANS
0045 - COTTON
0046 - CLAMS
0047 - ALMONDS
0048 SYRUP
0049 STARCH
0050 WHEAT STARCH
0051 STARCH
0052 BEANS
0053 CANARY-SEED
0054 TAR
0055 ALUMINIUM
0056 ANCHOVIES
0057 CONGER EEL
0058 CONGER EELS
0059 CARBON DIOXIDE
0060 ANIMAL
0061 ANIMAL
0062 ANISEED
0063- ANISEED
0064- ANTIOXIDANT
0065 ANTIOXIDANTS
0066 CELERY
0067 CLAY
0068 HERRING
0069 AROMAS
0070 RICE
0071 ARTIFICIAL
0072 ARTIFICIAL
0073 ASCORBIC
0074 TUNA
0075 WHITE TUNA
0076 AUTHORIZED
0077 HAZELNUTS
0078 OATS
0079 SAFFRON
0080 SUGAR
0081 WHITE SUGAR
0082 BROWN SUGAR
0083 SUGARS
0084 SLOES
0085 ACIDULANTS:
0086 ADDITIVES:
0087 AROMATIC AGENTS
0088 ANTIOXIDANT:
0089 ACIDIFYING AGENT
0090 ACIDIFYING AGENTS
0091 ACIDIFYING AGENTS:
0092 AGGLUTINANT
0093 AGGLUTINANT
0094 AGGLUTINANTS:
0095 ALKALIZING AGENT
0096 ALKALIZING AGENTS
0097 ALLALIZING AGENTS:
0098 ANTI-AGGLUTINANT
0099 ANTI-AGGLUTINANTS
0100 ANTI-AGGLUTINANTS:
0101 ANTI-CAKING AGENT
0102 ANTI-CAKING AGENTS
0103 ANTI-CAKING AGENTS:
0104 ANTICOAGULANT
0105 ANTICOAGULANTS

0106 ANTICOAGULANTS:

0107 ANTI-FOAMING AGENT

0108 ANTI-FOAMING AGENTS

0109 ANTI-FOAMING AGENTS:

0110 ARTIFICIAL FLAVOURING

0111 ARTIFICIAL FLAVOURS

0112 ARTIFICIAL FLAVOURS:

0113 NATURAL FLAVOUR

0114 NATURAL FLAVOURS

0115 NATURAL FLAVOURS:

0116 STRENGTHENED FLAVOUR

0117 STRENGTHENED FLAVOURS

0118 STRENGTHENED FLAVOURS:

0119 YOUNG GARLIC

0120 KIDNEY BEANS

0121 POULTRY

0122 VEGETABLE STARCHES

0123 OLIVE OIL

0124 AMYLASE

0125 SODIUM ALGINATE

0126 BUTTER CLAM

0127 SURF CLAM

0128 REFINED SUGAR

0129 CORN STARCH

0130 AMYLASE

0131 SODIUM ASCORBATE

0132 DEFATTED SOYA BEAN FLOUR

0133 AUTHORIZED FLAVOURS

0134 ARMAGNAC

0135 AUTHORIZED MEAT FLAVOURING

0136 NATURAL SMOKING

0137 FLAVOURS:

0138 AGAR-AGAR

0139 SLIVERED ALMONDS

0140 VANILLA ESSENCE

0141 BUTTER ESSENCE

0142 LEMON ESSENCE

0143 ANTIOXIDANT:

B

0200 COD

0201 BANANA

0202 BANANAS

0203 BATATA

0204 BATATAS

0205 BASE

0206 BASES

0207 BASIC

0208 BECHAMEL

0209 ACORN

0210 SODIUM BENZOATE

0211 COCKLE

0212 COCKLES

0213 AUBERGINE

0214 AUBERGINES

0215 WATERCRESS

0216 WATERCRESS

0217 CABBAGE

0218 SEA BREAM

0219 BICARBONATE

0220 AMMONIUM BICARBONATE

0221 SODIUM BICARBONATE

0222 SPONGE CAKE

0223 SPONGE CAKES

0224 – ATLANTIC BONITO

0225 – LONG-FINNED TUNA

0226 - ANCHOVY

0227 - ANCHOVIES

0228 - BRANDY

0229 - BRAZIL

0230 FIRST-CROP FIGS

0231 DOUGHNUT

0232 DOUGHNUTS

0233 CATALAN SAUSAGE

0234 BLEACHING AGENT

0235 BLEACHING AGENTS

0236 BLEACHING AGENTS:

0237 SPONGE

0238 CONFECTIONERY

0239 CRUMBLED ATLANTIC BONITO

0240 BECHAMEL

0241 BACON

0242 FLAT SPONGE

0243 BACON

C

0300 MACKEREL

0301 GOAT

0302 PEANUTS

0303 COCOA

0304 COCOA POWDER

0305 COFFEE

0306 BRAZIL COFFEE

0307 COLOMBIAN COFFEE

0308 CAFFEINE

0309 PUMPKIN

0310 COURGETTE

0311 SQUID

0312 CALCIUM

0313 TRIPE

0314 CINNAMON

0315 CRABS

0316 HEMP

0317 SNAIL

0318 SNAILS

0319 CARAMEL

0320 LIQUID CARAMEL

0321 CARBONATES

0322 MEAT

0323 SALTED MEAT

0324 SMOKED MEAT

0325 ROAST MEAT

0326 HORSE MEAT

0327 PORK

0328 RABBIT MEAT

0329 LAMB

0330 CHICKEN MEAT

0331 SUCKLING MEAT

0332 DUCK MEAT

0333 TURKEY MEAT

0334 CHICKEN MEAT

0335 BEEF

0336 BEEF

0337 MINCED MEAT

0338 CARP

0339 CASEINATE

0340 CHESTÑUTS

0341 BARLEY

0342 ONION

0343 SPRING ONIONS

0344 MATURED MEAT

0345 CELLULOSE

0346 RYE

0347 PORK

0348 CEREAL

0349 CEREALS

0350 BEER

0351 BEERS

0352 BEER

0353 BROWN ALE

0354 MUSHROOM

0355 MUSHROOMS

0356 CHOCOLATE

0357 CHORIZO

0358 CHUFA

0359 CHUFAS

0360 CHERRIES

0361 PRUNES

0362 EGG WHITE

0363 CHLORIDE

0364 SODIUM CHLORIDE

0365 COCONUT

0366 CABBAGE

0367 CABBAGES

0368 BRUSSELS SPROUTS

0369 CAULIFLOWER

0370 CAULIFLOWER

0371 COLOMBIA

0372 COLOURING MATTER

0373 COMPOSITION

0374 CONCENTRATE

0375 SEASONING

0376 RABBIT

0377 JAM

0378 PRESERVATIVES

0379 CONTAINS

0380 LAMB

0381 CHOP

0382 PORK CHOP

0383 BEEF CUTLET

0384 CREAM

0385 COLOURING MATTER:

0386 SEASONING:

0387 PRESERVATIVES:

0388 PRESERVATIVE

0389 PRESERVATIVES

0390 PRESERVATIVES:

0391 COMPOSITION:

0392 VERMICELLI

0393 COUVERTURE

0394 COUVERTURE CHOCOLATE

0395 COUVERTURE CREAM

0396 CUSTARD

0397 CROCANTI

0398 CHATKA

0399 COGNAC

0400 STOCK

0401 MEAT STOCK

0402 SUCKING LAMB

0403 CLAMS

0404 SHOULDER OF BEEF

0405 CHOPS

0406 LAMB CHOPS

0407 POULTRY MEAT

0408 BREAD COMPLEMENT

0409 PRESERVATIVE

0410 CALCIUM CARBONATE

0411 SODIUM CHLORIDE

0412 STORE @

0413 MUSSSEL MEAT

0414 CLAM MEAT

0415 NORWAY LOBSTER

0416 CAMAROTE PRAWN

0417 SQUID

0418 BAKER'S CANES

0419 TINNED CHERRIES

0420 COTTAGE PIGEON

0421 AUTHORIZED COMP.

0422 FRUIT JAM

0423 SOYA CROCANTI

0424 PORK CUTLET

0425 GOOSE MEAT

0426 PORK CHOP

0427 PROTEIN CONCENTRATES

0428 COLD LOIN PORK

0429 NATURAL COLOURING MATTER

0430 NATURAL COLOURING MATTER:

0431 POTASSIUM CITRATE

0432 PORK LOIN

0433 CARRAGEEN

0434 SODIUM CITRATE

0435 PIG'S CHEEK

0436 IBERIAN PIG'S CHEEK

0437 CAP-50

0438 CARRAGEEN

0439 TOMATO CONCENTRATE

0440 FRESH ONIONS

0441 CHOCOLATE FONDANT

0442 APRICOT JAM

0443 RENNET

0444 CARMINE COCHINEAL

0445 CHLOROPHYLLIN

0446 COLORING MATTER

0447 CASEIN

0448 PIG'S HEAD

0449 SHOULDER OF HAM

0450 SHOULDER OF PORK

0451 LOIN HEAD

0452 TEC. 516 COADJUTANT

0453 APPLE COMPOTE

0454 COLOURING MATTER:

0455 PORK (BACON AND DEWLAP) 30%

0456 PORK (BACON AND CHINE)

0457 PORK (CUTLETS AND BACON)

0458 COOKED ONION

0459 PORK (CUTLETS)

0460 PORK (BACON, LEG AND CHINE)

0461 PORK (BONE, LEGO OF HAM, CHINE AND BACON)

0462 HEN CRESTS

0463 PORK (BACONBACON AND DEWLAP)

D

0500 DATE

0501 DATES

0502 DEXTROSE

0503 SEA DELICACIES

0504 DEXTRINE

0505 DECORATION:

0506 DAIRY BY-PRODUCTS

E

0600 EMULSIFIERS

0601 ENDIVE

0602 ENDIVES

0603 ENZYMES

0604 MARINADE

0605 ENDIVE

0606 ESSENCE

0607 MEAT ESSENCE

0608 SHELLFISH ESSENCE

0609 – FISH ESSENCE

0610 - ASPARAGUS

0611 SPICES

0612 NATURAL SPICES

0613 THICKENER

0614 SPINACH

0615 STABILIZER

0616 STABILIZERS

0617 STABILIZER

0618 STABILIZERS

0619 FRUIT EXTRACT

0620 MEAT EXTRACT

0621 PRAWN EXTRACT

0622 LEMON EXTRACT

0623 APPLE EXTRACT

0624 BLACKBERRY EXTRACT

0625 ORANGE EXTRACT

0626 PEAR EXTRACT

0627 FISH EXTRACT

0628 EMULSIFIERS:

0629 SPICES:

0630 – NATURAL SPICES:

0631 - THICKENERS:

0632 - STABILIZERS:

0633 - STABILIZERS:

0634 - E-100

0635 - E-101

0636 - E-102

0637 E-104

0638 E-110

0639 E-120

0640 E-122

0641 E-123

0642 E-124

0643 E-127

0644 E-131

0645 E-132

0646 E-140

0647 E-141

0648 E-142

0649 E-150

0650 E-151

0651 E-153

0652 E-160

0653 E-160(a)

0654 E-160(b)

0655 E-160(c)

0656 E-160(d)

0657 E-160(e)

0658 E-160(f)

0659 E-161

0660 E-161(a)

0661 E-161(b)

0662 E-161(c)

0663 E-161(d)

0664 E-161(e)

0665 E-161(f)

0666 E-161(g)

0667 E-162

0668 E-163

0669 E-170

0670 E-171

0671 E-172

0672 E-173

0673 E-174

0674 E-175

0675 E-200

0676 E-201

0677 E-202

0678 E-203

0679 E-210

0680 E-211

0681 E-212

0682 E-213

0683 E-214

0684 E-215

0685 E-216

0686 E-217

0687 E-218

0688 E-219

0689 E-220

0690 E-221

0691 E-222

0692 E-223

0693 E-224

0694 E-226

0695 E-249

0696 E-250

0697 E-251

0698 E-252

0699 E-260

0700 E-261

0701 E-262

0702 E-263

0703 E-270

0704 E-280

0705 E-281

0706 E-282

0707 E-283

0708 E-290

0709 E-300

0710 E-301

0711 E-302

0712 E-303

0713 E-304

0714 E-306

0715 E-307

0716 E-308

0717 E-309

0718 E-310

0719 E-311

0720 E-312

0721 E-320

0722 E-321

0723 E-322

0724 E-325

0725 E-326

0726 E-327

0727 E-330

0728 E-331

0729 E-332

0730 E-333

0731 E-334

0732 E-335

0733 E-336

0734 E-337

0735 E-338

0736 E-339

0737 E-339(i)

0738 E-340

0739 E-340(i)

0740 E-341

0741 E-400

0742 E-401

0743 E-402

0744 E-403

0745 E-404

0746 E-405

0747 E-406

0748 E-407

0749 E-410

0750 E-412

0751 E-413

0752 E-414

0753 E-415

0754 E-420

0755 E-421

0756 E-422

0757 E-440

0758 E-450

0759 E-450(a)

0760 E-450(i)

0761 E-460

0762 E-461

0763 E-463

0764 E-464

0765 E-465

0766 E-466

0767 E-470

0768 E-471

0769 E-472

0770 E-473

0771 E-474

0772 E-475

0773 E-477

0774 E-481

0775 E-482

0776 E-483

0777 SWEETENER

0778 SWEETENERS

0779 SWEETENERS:

0780 ARTIFICIAL SWEETENER

0781 ARTIFICIAL SWEETENERS

0782 ARTIFICIAL SWEETENERS:

0783 NATURAL SWEETENER

0784 NATURAL SWEETENERS

0785 NATURAL SWEETENERS:

0786 HARDENER

0787 HARDENERS

0788 HARDENERS:

0789 ENZYMES:

0790 STOMACH

0791 PIG'S STOMACH

0792 PIG'S STOMACH

0793 COW'S STOMACH

0794 E-242

0795 E-450(c)

0796 E-472(e)

0797 E-621

0798 TARTARIC ACID ESTER.

0799 E-450(b)

0800 LEMON ESSENCE

0801 RUM ESSENCE

0802 BRANDY ESSENCE

0803 LEMON FLAVOUR ESSENCE

0804 E-126

0805 E-450(A B C)

0806 SMOKE EXTRACT

0807 NATURAL SMOKE EXTRACT

0808 EMULSIFIER

0809 EMULSIFIERS:

0810 EMULSIFIER

0811 EMULSIFIERS:

0812 E-450ai

0813 E-500ii

F

0900 PHEASANT

0901 STARCH

0902 SUNFLOWER STARCH

0903 CORN STARCH

0904 WHEAT STARCH

0905 FIBRE

0906 VEGETABLE STARCH

0907 NOODLES

0908 FODDER

0909 PHOSPHATE

0910 PHOSPHATES

0911 PHOSPHORUS

0912 RASPBERRY

0913 STRAWBERRY

0914 STRAWBERRIES

0915 FRUIT

0916 FRUITS

0917 COLD MEAT

0918 COLD MEATS

0919 COLD COOKED HAM

0920 FRUCTOSE

0921 CANDIED FRUIT

0922 FISH ESSENCE

0923 FRESH

0924 FRESH

0925 FRESH

0926 POTATO STARCH

0927 SOLE FILLET SEGMENTS

0928 CHOCOLATE VERMICELLI

0929 TINNED FRUIT

0930 LACTIC STARTERS

0931 SEASONING HERBS

0932 FILLETS OF VEAL

G

1000 BISCUIT

1001 BISCUITS

1002 HEN

1003 COCKS

1004 PRAWNS

1005 GOOSE

1006 CHICK PEAS

1007 RAISING AGENTS

1008 GELATINE

1009 GERM

1010 OAT GERM

1011 BARLEY GERM

1012 RYE GERM

1013 SUNFLOWER GERM

1014 MAIZE GERM

1015 MALT GERM

1016 WHEAT GERM

1017 TULIP GERM

1018 GIN

1019 GIN

1020 SUNFLOWER

1021 GLAZING

1022 CHOCOLATE GLAZING

1023 GLUCOSE

1024 MONOSODIUM GLUTAMATE

1025 GRAIN

1026 FAT

1027 BEEF FAT

1028 PORK FAT

1029 FATS

1030 ANIMAL FATS

1031 EDIBLE FATS

1032 VEGETABLE FATS

1033 RED PEPPERS

1034 GREEN PEPPERS

1035 PEAS

1036 POMEGRANATE

1037 GRENADINE

1038 GALACTOSE

1039 RAISING AGENT

1040 RAISING AGENTS

1041 RASING AGENTS:

1042 GELLING AGENT

1043 GELLING AGENTS

1044 GELLING AGENTS:

1045 GLYCERINE

1046 GLYCERINES

1047 LAMB FAT

1048 PORK FAT

1049 BEEF FAT

1050 LAMB/PORK FAT

1051 LAMB/BEEF FAT

1052 POULTRY FAT

1053 GLUTAMATE

1054 MARASCHINO CHERRIES

1055 EDIBLE VEG. ANIMAL FATS

1056 HYDROGENATED VEG. ANIMAL FATS

1057 DUCK FAT

1058 SHELLED PRAWNS

1059 LARGE PRAWN

1060 ALMOND G. CROCANTI

1061 IBERIAN PORK FAT

1062 COUVERTURE GELATINE

1063 GARNISH:

1064 TURKEY FAT

1065 HAM FAT

1066 VEGETABLE FAT

1067 ANIMAL FAT

1068 CROCANTI GRAIN

1069 GLUTEN

1070 FATTENED HEN IN SECTIONS

1071 PRE-SOAKED CHHICKPEAS

H

1100 BROAD BEANS

1101 GARDEN BEANS

1102 HAMBURGERS

1103 FLOUR

1104 CORN FLOUR

1105 WHEAT FLOUR

1106 ICE CREAM

1107 HAY

1108 HYDROLYSATE

1109 PROTEIN HYDROLYSATE

1110 ICE

1111 MINT

1112 IRON

1113 LIVER

1114 PORK LIVER

1115 GOOSE LIVER

1116 FIG

1117 FIGS

1118 – PUFF PASTRY

1119 - VEGETABLES

1120 - EGG

1121 - EGGS

1122 H-3243

1123 H-3246

1124 H-3247

1125 H-3250

1126 H-4381

1127 H-4382

1128 H-4383

1129 H-4384

1130 H-4385

1131 H-4386

1132 H-4387

1133 H-4388

1134 H-4389

1135 H-4390

1136 H-4391

1137 H-4392

1138 H-4393

1139 H-4394

1140 H-4395

1141 H-4421

1142 H-4422

1143 H-4423

1144 H-4424

1145 H-4425

1146 H-4435

1147 H-4436

1148 H-4437

1149 H-4438

1150 H-4439

1151 H-4440

1152 H-4511

1153 H-4512

1154 H-4521

1155 H-5514

1156 H-5801

1157 H-5804

1158 H-5805

1159 H-5810

1160 H-5812

1161 H-5813

1162 H-5814

1163 H-5816

1164 -5817

1165 H-6880

1166 H-6881

1167 H-6882

1168 H-6884

1169 H-6886

1170 H-6887

1171 H-7034

1172 H-7093

1173 H-7102

1174 H-7103

1175 H-7170

1176 H-7171

1177 H-7172

1178 H-7173

1179 H-7174

1180 H-7175

1181 H-7176

1182 H-7177

1183 H-7194

1184 H-7198

1185 H-7199

1186 H-7217

1187 H-7218

1188 H-8001

1189 H-8002

1190 H-8006

1191 H-8016

1192 H-8020

1193 H-8030

1194 H-8036

1195 H-8050

1196 H-8051

1197 H-8052

1198 H-8053

1199 H-8058

1200 H-8066

1201 H-8080

1202 H-8082

1203 H-8085

1204 H-8086

1205 H-8110

1206 H-8131

1207 H-8140

1208 H-8162

1209 H-8186

1210 H-9845

1211 H-10056

1212 H-10062

1213 H-10068

1214 H-11031

1215 H-11035

1216 H-11061

1217 H-11091

1218 H-11106

1219 H-11134

1220 H-11135

1221 H-11181

1222 H-11182

1223 H-11185

1224 BOILED EGG

1225 HUMECTANT

1226 HUMECTANTS

1227 HUMECTANTS:

1228 PORK LIVER

1229 BOVINE LIVER

1230 WHOLE EGG

1231 DRIED WHOLE EGG

1232 GRATED EGG

1233 DEHYDRATED EGG

1234 NEW-LAID EGGS

1235 POULTRY LIVER

1236 RYE MEAL

1237 ROUGH GROUND RYE

1238 SOYA FLOUR

1239 DUCK LIVER

1240 NATURAL SMOKE

1241 H.V.P.

1242 CARBOHYDRATE

1243 CHICKEN LIVER

1244 HERBS

1245 PULSE FLOUR

1246 WHOLEMEAL FLOUR

1247 MEAL FLOUR

1248 MALT FLOUR

1249 RED CALF BONE

1250 SERRANO HAM/PORK BONE

1251 CALF BONES FOR SOUP

1252 BONE

1253 BONES

I

1300 INGREDIENTS

1301 - INGREDIENTS:

1302 - INTESTINE

1303 – PORK INTESTINE

1304 – LAMB INTESTINE

1305 PORK INTESTINE

1306 BEEF INTESTINE

1307 BOOSTER

1308 LESS THAN 0.15%

1309 LESS THAN

J

1400 JELLY

1401 HAM

1402 COOKED HAM

1403 COOKED HAM

1404 JABUGO HAM

1405 IBERIAN HAM

1406 SHERRY

1407 BEANS

1408 FRENCH BEANS

1409 LEMON JUICE

1410 PEACH JUICE

1411 ORANGE JUICE

1412 PEAR JUICE

1413 PINEAPPLE JUICE

1414 GRAPE JUICE

1415 CARROT JUICE

1416 JUICE

1417 NATURAL JUICES

1418 SERRANO HAM

1419 SYRUP

1420 PORK HAM

1421 BONED PORK HAM

1422 JULIENNE SOUP

1423 GLUCOSE SYRUP

K

1500 KIWI

L

1600 LACTIC

1601 LACTIC

1602 LACTOSE

1603 LOBSTER

1604 PRAWN

1605 BAY LEAF

1606 SUCKING

1607 MILK

1608 GOAT'S MILK

1609 SHEEP'S MILK

1610 COW'S MILK
1611 SKIMMED MILK
1612 SUCKING PIG
1613 LETTUCE
1614 LECITHIN
1615 PULSES
1616 CALF'S TONGUE
1617 COW'S TONGUE
1618 BEEF TONGUE
1619 SOLE
1620 LENTILS
1621 YEAST
1622 BIOLOGICAL YEAST
1623 LIQUEUR
1624 KIWI LIQUEUR
1625 APPLE BRANDY
1626 PEACH BRANDY
1627 ORANGE LIQUEUR
1628 PEAR BRANDY
1629 LIQUEURS
1630 HARE
1631 LIME
1632 LEMON
1633 LEMONS
1634 LINSEED
1635 LOIN
1636 PORK LOIN
1637 LONG CHOICE SAUSAGE
1638 LONG CHOICE SAUSAGES
1639 LUBRICANT
1640 LUBRICANTS
1641 LUBRICANTS:
1642 LACTOFLAVINE
1643 SKIMMED POWDER MILK
1644 PIG'S TONGUE
1645 PIG'S TONGUE
1646 PIG'S TONGUES
1647 PIG'S TONGUES
1648 CALF'S TONGUES
1649 COW'S TONGUES
1650 BOVINE TONGUES
1651 POWDER MILK
1652 FRESH MILK
1653 FULL-FAT MILK
1654 ORANGE LIQUEUR
1655 IBERIAN PORK LOIN
1656 PORK FAT
1657 IBERIAN PORK TONGUE
1658 SKIMMED MILK
1659 RECONSTITUTED WHOLE MILK
1660 YOLK LIQUEUR
1661 SHOULDER OF PORK
1662 WHOLE MILK POWDER

M

1800 MACARONI
1801 MAGNESIUM
1802 LEAN MEAT
1803 LEAN PORK
1804 LEAN BEEF
1805 MAYONNAISE
1806 MAIZE
1807 TOASTED MAIZE
1808 MALT
1809 MANDARIN
1810 MANDARINS
1811 MANGANESE DIOXIDE
1812 LARD
1813 PORK FAT
1814 BUTTER
1815 APPLE
1816 APPLES
1817 CAMOMILE
1818 MARGARINE
1819 SHELLFISH
1820 SHELLFISH
1821 DOUGH
1822 MARZIPAN
1823 MUSSELS
1824 PEACH
1825 PEACHES
1826 QUINCE
1827 MINT
1828 MERINGUE
1829 HAKE
1830 GROUPER
1831 HONEY
1832 CRUMB
1833 MINERAL
1834 MINERALS
1835 MODIFIER
1836 ORGANOLEPTIC MODIFIER
1837 BLACKBERRIES
1838 BLACK PUDDING
1839 MUSTARD
1840 UNFERMENTED GRAPE JUICE
1841 THIGH
1842 HEN THIGH
1843 DUCK THIGH
1844 TURKEY THIGH
1845 CHICKEN THIGH
1846 ORGANOLEPTIC MODIFIERS:
1847 LEAN PORK
1848 LIPS
1849 PIG'S MUZZLE
1850 PIG'S MUZZLE
1851 BOVINE MUZZLE
1852 MUZZLE
1853 PIG'S MUZZLE
1854 PIG'S MUZZLE
1855 BOVINE CHEEK
1856 QUAIL THIGH
1857 MICOQUILLE MUSSEL
1858 JAM
1859 IBERIAN LEAN PORK
1860 COLD PIG'S MUZZLE
1861 COLD LEAN PORK
1862 PIG'S FEET
1863 MIXOR 654
1864 BREAD DOUGH:
1865 BOLOGNA SAUSAGE
1866 ANIMAL FAT
1867 VEGETABLE FAT
1868 LEAN DUCK
1869 SLICED APPLE
1870 LEAN VEAL
1871 50% LEAN VEAL AND 50% PORK 50%
1872 LEAN PORK
1873 LEAN PORK 40%
1874 ONION BLACK PUDDING:
1875 70% LEAN VEAL AND 30% PORK
1876 LEAN VEAL
1877 LEAN PORK

N

2000 TURNIP
2001 TURNIPS
2002 ORANGE
2003 ORANGES
2004 CREAM
2005 NECTAR
2006 FRUIT NECTAR
2007 NITRIFYING AGENTS
2008 WALNUT
2009 NUTMEG
2010 WALNUTS
2011 NUTRIENTS
2012 NITRIFIYING AGENTS:
2013 NEUTRALIZING AGENT
2014 NEUTRALIZING AGENTS
2015 NEUTRALIZING AGENTS:
2016 CALIFORNIAN WALNJTS
2017 POTASSIUM NITRATE
2018 SODIUM NITRITE
2019 SODIUM NITRATE
2020 FRESH CREAM

O

2100 GOOSE
2101 GEESE
2102 PORT
2103 OYSTER
2104 OYSTERS
2105 EAR
2106 PIG'S EAR
2107 PIG'S EAR
2108 COW'S EAR
2109 EARS
2110 PIG'S EARS
2111 PIG'S EARS
2112 COW'S EARS
2113 OREGANO
2114 VEGETABLE OLEIN

P

2200 LOCAL
2201 BREAD
2202 BRISKET
2203 DEWLAP
2204 RAISINS
2205 CURRANTS
2206 PASTA
2207 CAKE
2208 LEGS
2209 PIG'S
2210 POTATO
2211 POTATOES
2212 DUCK
2213 TURKEY
2214 DUCK BREAST
2215 TURKEY BREAST
2216 CHICKEN BREAST
2217 GHERKINS
2218 CUCUMBER
2219 PEAR
2220 PEARS
2221 PARTRIGE
2222 PARTRIDGES
2223 PARSLEY
2224 FISH
2225 FISH
2226 MINCE
2227 PIGEON
2228 FEED
2229 MIXED FEED
2230 FEED
2231 MIXED FEED
2232 LEG
2233 LEG OF LAMB

2234 PAPRIKA

2235 PEPPER

2236 PEPPERS

2237 GREEN PEPPERS

2238 PINEAPPLE

2239 PINEAPPLE

2240 PINE NUTS

2241 SEEDS

2242 PISTACHIOS

2243 BANANA

2244 BANANAS

2245 POLLEN

2246 CHICKEN

2247 GRAPEFRUIT
2248 GRAPEFRUIT

2249 PUNCH

2250 POTASSIUM

2251 FLAVOUR POTENTIATOR

2252 DAIRY PRODUCTS

2253 ANIMAL PROTEIN

2254 VEGETABLE PROTEIN

2255 PROTEINS

2256 ANIMAL PROTEINS

2257 VEGETABLE PROTEINS

2258 LEEK

2259 LEEKS

2260 OCTOPUS

2261 TIPS

2262 PURÉE

2263 POTATO PURÉE

2264 TOMATO PURÉE

2265 VEGETABLE PURÉE

2266 MILK PROTEINS

2267 FLAVOUR POTENTIATOR:

2268 BREADCRUMBS

2269 LEG

2270 LEG OF HAM

2271 LEG OF LAMB

2272 LEG OF BEEF

2273 LEGS OF LAMB

2274 LEGS OF BEEF

2275 SLICED LOAF

2276 SPECIAL BREAD

2277 FRIED BREAD

2278 BROWN BREAD

2279 BROWN SLICED LOAF

2280 DRY PAPRIKA

2281 SWEET PAPRIKA
2282 MINCED SHOULDER OF MEAT

2283 MINCED VEAL

2284 WHITE PEPPER

2285 RED PEPPER

2286 PIQUILLO PEPPER

2287 LEG OF HAM

2288 FATTY PARTS

2289 BREADCRUMBS

2290 FATTY PARTS OF FOWL

2291 FATTY PARTS OF PIG

2292 FLAVOUR POTENTIATOR:

2293 SQUID

2294 SULTANAS

2295 BAVAROIS SAB. PIGEON

2296 WHOLE HAM

2297 CURED SALT PORK

2298 DEFATTED VEGETABLE PROTEIN

2299 MILK AND LACTOSE PROTEIN

2300 SHOULDER OF HAM
2301 SOYA PROTEIN

2302 MINCED SHOULDER OF HAM

2303 SHOULDER OF IBERIAN

2304 HAM

2304 POLYPHOSPHATES

2305 POLYPHOSPHATES:

2306 ADDED PROTEINS

2307 PIMARIC

2308 BELLY OF PIG POLYPHOSPHATE

2309 POTASSIUM
2310 POLYPHOSPHATE

2311 GREEN PEPPER

2312 PIG'S DEWLAP

2313 PUFF PASTRY

2314 PUFF PASTRY:

2315 APRICOT PULP

2316 PLUM PULP

2317 STRAWBERRY PULP

2318 APPLE PULP

2319 PEACH PULP

2320 QUINCE PULP
2321 SMOKED PRODUCT

2322 LIVER PATÉ

2323 PUMPKIN PULP

2324 MEAT PREPARATION:

2325 FAT PERCENTAGE LESS THAN 15%

2326 WHITE PEPPER

2327 60% CHICKEN

2328 BONELESS TURKEY

2329 CHICKEN AND RABBIT

2330 CHICKEN (CHINE, THIGH AND LIVER)

2331 70% CHICKEN

2332 FAT PERCENTAGE LESS THAN

Q

2400 CHEESE

2401 CABRALES CHEESE

2402 CURD CHEESE

2403 BURGOS CHEESE

2404 GOAT'S CHEESE

2405 SHEEP'S GEESE

2406 COW'S CHEESE

2407 IDIAZABAL CHEESE

2408 SOFT CHEESE

2409 MELTED CHEESE

2410 MANCHEGO CHEESE

2411 ROQUEFORT CHEESE

2412 PARMESAN CHEESE

2413 BLUE CHEESE
2414 – EMMENTAL CHEESE

2415 – GRATED CHEESE

2416 – FROMAGE FRAIS

R

2500 TAIL

2501 MONK FISH

2502 LIQUORICE

2503 BEETROOT

2504 CONTROL AGENT

2505 ACIDITY CONTROL AGENT

2506 PH CONTROL AGENT

2507 CONTROL AGENTS

2508 RUM

2509 CUTLET

2511 VEAL CUTLET

2512 RIPENING CONTROL AGENT

2513– RED COCHINEAL A

2514 PIG'S TAIL

2515 PH E-575 RESOURCES

2516 RELATION COLLAGEN/MEAT PROTEIN LESS THAN 0.15

2517 PIG'S TAILS

S

2600 SACCHARINE

2601 SALT

2602 SALTS

2603 SAUSAGES

2604 SAUCISSON

2605 SALMON

2606 SMOKED SALMON

2607 FRESH SALMON

2608 SAUCE

2609 TOMATO SAUCE

2610 BECHAMEL SAUCE

2611 BRAN

2612 WATERMELON

2613 WATERMELONS

2614 BLOOD

2615 SARDINE

2616 SARDINES

2617 SEED

2618 SEEDS

2619 SEMOLINA

2620 CUTTLEFISH

2621 SESAME

2622 FLAP MUSHROOM

2623 FLAP MUSHROOMS

2624 CIDER

2625 SODA

2626 SODIUM

2627 SODIUM

2628 SOYA
2629 SUBSTANCES

2630 SUBSTITUTE

2631 IMITATION CHOCOLATE

2632 SHELLFISH SUBSTITUTE

2633 SUBSTITUTES

2634 SULPHATES

2635 SYNERGIC

2636 SYNERGIC AGENTS:

2637 SORBITOL

2638 SALAMI

2639 SEAFOOD SAUCE

2640 LIGHT SAUCE

2641 POTASSIUM SORBATE

2642 FRESH AND DRY @

2643 POLISH STEAK

2644 SUPERCREM FLAVOURS

2645 SUPERCREM JAM

2646 SACCHAROSE

2647 CHOCOLATE

2648 ROCK SALT

2649 NITRIFYING SALT

2650 NORWEGIAN SALMON

2651 BRINE

2652 BRINE:

2653 FLAVOURINGS

2654 HEALING SALTS

2655 SEA SALT

2656 FLAVOURINGS:

2657 ANTIOXIDANT SYNERGIC AGENTS

2658 ANTIOXIDANT SYNERGIC AGENTS.

2659 ANTIOXIDANT SYNERGIC AGENTS.:

2660 HARD WHEAT SEMOLINA

2661 WHEAT SEMOLINA
2662 WHEY

T

2800 STEMS

2801 GARLIC STEMS

2802 ASPARAGUS STEMS

2803 LEEK STEMS

2804 TEA

2805 VEAL

2806 INK

2807 BACON

2808 TOMATO

2809 TOMATOES

2810 THYME

2811 TOASTED

2812 WHEAT

2813 TROUT

2814 FRESH TROUT

2815 TROUT

2816 FRESH TROUT2817 TRUFFLE

2818 TRUFFLES

2819 TUBERCLE

2820 TUBERCLES

2821 TULIP

2822 TURRON

2823 WHITE BACON

2824 FILLER

2825 PIG CASING

2826 SHEEP CASING

2827 PORK CASING

2828 BEEF SKIN

2829 FRIED TOMATO

2830 SQUID INK

2831 SQUID SEGMENTS

2832 TACOS REJOS

2833 COOKED TRUFFLE

2834 COUVERTURE EGG & SYRUP

2835 IBERIAN PORK BACON

2836 PENTASODIUM TRIPHOSPHATE

2837 PORK BACON

2838 IBERIAN LOIN BACON

2839 VEAL (LEAN, CUTLETS AND BONES)

2840 VEAL (CUTLETS AND BONES)

2841 VEAL (LEAN AND WHITE BONE)

2842 GREEN BACON/PORK

2843 IBERIAN SALTED BACON/PORK

U

3000 GRAPES

3001 RAISINS

V

3100 BEEF

3101 GREEN BEANS

3102 VANILLA

3103 VEGETABLES

3104 VERMOUTH

3105 VINEGAR

3106 VINEGAR WINE

3107 WINE

3108 WHITE WINE

3109 SHERRY

3110 PORT WINE

3111 RIOJA WINE

3112 ROSÉ WINE

3113 RED WINE

3114 WINES

3115 VITAMINS

3116 VARIETIES

3117 VEGETABLES

3118 VARIED

3119 SUNDRY

3120 CRYSTALLIZED VANILLA

3121 CHOCOLATE SHAVINGS

3122 VITAMIN-C:

3123 DEHYDRATED VEGETABLES

W

3200 WHISKY

Y

3400 YOLK

3401 EGG YOLK

3402 YOLKS

3403 EGG YOLKS

3404 YOGHURT

3405 LOW-FAT YOGHOURT

3406 LOW-FAT POWDER YOGHOURT

3407 POWDER YOGHOURT

3408 YOLKS/HEN EGGS

z

3500 CARROT

3501 CARROTS

3502 JUICE

3503 LEMON JUICE

3504 PEACH JUICE

3505 ORANGE JUICE

3506 PAIR JUICE

3507 PINEAPPLE JUICE

3508 GRAPEFRUIT JUICE

3509 GRAPE JUICE

3510 CARROT JUICE

3511 JUICES

3512 NATURAL JUICES

8.5 SPECIFICATIONS OF THE LP-2550

- POWER SUPPLY .....**220VAC, 50 Hz, 1A.**
- EXTERNAL/INTERNAL BATTERY..... **24Vcc,7.5A**
- PRINTING METHOD .....**thermal (8 dots/mm)**
- DISPLAY .....**LCD display/backlighting**
- MAX. SIZE LABELS.....**60 mm X 150 mm**
- COMMUNICATIONS PORT TO PC .....**RS 232 8 paths**
- MASTER COMMUNICATION PORT.....**RS 422 8 paths**
- WORKING TEMPERATURE .....**-10ºC to +40ºC**
- PRECISION .....**1/6000 max. range**
- EXTERNAL SIGNAL.....**24 V/ 1A max**

8.6 AVAILABLE ACCESSORIES

TYPES OF LABELS

- BS-60X60 Reel of 700 60x60 heat-sensitive labels. (Inside diameter 40mm., outside diameter 100mm., base paper width 61mm., label width 59mm., label length 60mm., separation between labels 2.2mm., labels on the outer side).

- BK-E60X100 Fanfold reel of 60x100x40 heat-sensitive labels. (Inside diameter 40mm., outside diameter 100mm., base paper width 61mm., label width 59mm., label on the outside).

8.7 PROGRAMMING MEAT-TYPE PLU

*** F 0 7 9**
0 1
4 x X

```
Prog.
```

Enter programming items , type the code of the item and press **X** 4 times.

```
C      1PLU   01
tIP           2
WEIGHED BEEF
```

8.7.1 *Programming items*

In the PLU type section, when dealing with a meat product, choose between the following values:

```
C      1PLU   01
ndA           1
N. IDENTIF
```

2 → Weighed beef

3 → Unit beef

4 → Weighed mince beef

5 → Unit mince beef

```
C      1PLU   01
ndA          01
N.  IDENTIF.
```

10 x **X**

If one of these is chosen, then press **X** 10 times to go on to program the Quick Animal number.

```
NdA 00
Cod
N.  IDENTEIF
```

1
*****

Use the numeric keyboard to enter the Quick Animal Number (**QAN**) as a number between **1** and **10**.

```
NdA 01   01    0n
Cod
```

Press ***** to save the meat-type item just programmed.

8.7.2 *Programming animals*

The LP-2550 can programme up to 50 animals, numbered from 1 to 51 (NRA). To programme the animals:

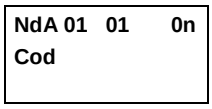
*** F 0 7 9 0**
O2

1. Enter programming, by pressing the following sequence of keys : *** F 0 7 9 0** and **O2**.

...
X

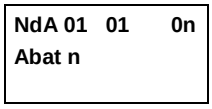
2. Program the QAN field (Quick Animal Number) as a number between 1 and 51. Press **X** to move on to the next field.

X



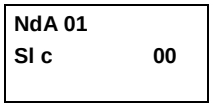
3. Program the ANIMAL CODE field as a word of 14 characters. Press **X** to move on to the next field.

...
X



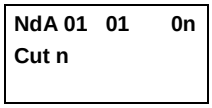
4. Program the ABATTOIR NUMBER as a 11-character word. Press **X** to move on to the next field.

...
X



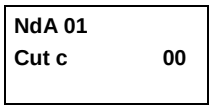
5. Program the COUNTRY OF SLAUGHTER field as a number between 1 and 99 corresponding to the table of countries attached at the end. Press **X** to move on to the next field

...
X



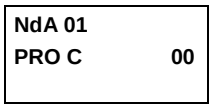
6. Program the CUTTING PLANT NUMBER field as a 11-character word. Press **X** to move on to the next field.

...
X



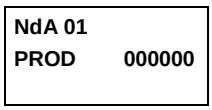
7. Program the CUTTING PLANT COUNTRY field as a number between 1 and 99 corresponding to the table of countries attached at then end. Press **X** to move on to the next field.

...
X



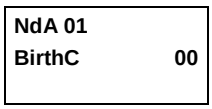
8. Program the COUNTRY OF PRODUCTION field of the **mince meat** as a number between 1 and 99 corresponding to the table of countries attached at the end. Press **X** to move on to the next field.

...
X



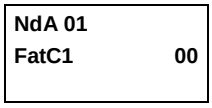
9. Use the numeric keypad to program the PRODUCTION DATE field in the 'ddmmyy' format. Press **X** to move on to the next field.

...
X



10. Program the COUNTRY OF BIRTH field as a number between 1 and 99 corresponding to the table of countries attached at the end. Press **X** to move on to the next field.

...
X



11. Program the COUNTRY WHERE FATTENED 1, 2 and 3 field as a number between 1 and 99 corresponding to the table of countries attached at the end. Press **X** to move on to the next field.

...
X

...
X

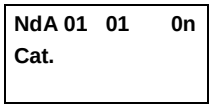
X

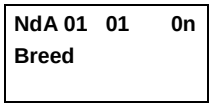
X

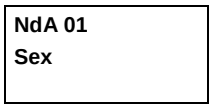
X

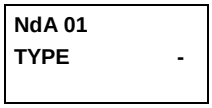
X

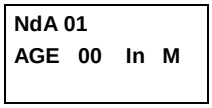
*

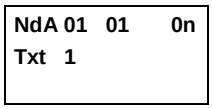












12. Program the CATEGORY field as a 3-character word. Press **X** to move on to the next field.

13. Program the BREED field as a 20-character word. Press **X** to move on to the next field.

14. Program SEX field by using **C** to change between:

*****	NO
H	Female
M	Male
B	bullock

Press **X** to move on to the next field.

15. Program the ANIMAL TYPE field by using **C** to change between

*****	NO
T	Veal
A	Young cattle
V	Adult bovine

Press **X** to move on to the next field.

16. Program the AGE field by using **X** and, with **C** choose between MONTH or YEAR.

Press **X** to move on to the next field.

17. Then program TEXTS 1, 2, 3, 4 and 5 associated to the animal with the possibility of 20 characters in each

Press ***** to save the animal

8.7.3 *Table of countries*

A
01 ALBANIA
02 GERMANY
03 ANDORRA
04 SAUDI ARABIA
05 ALGERIA
06 ARGENTINA
07 AUSTRALIA
08 AUSTRIA
09 AZERBAIJAN
B
10 BAHRAIN
11 BELGIUM
12 BYELORUSSIA
13 BOLIVIA
14 BOSNIA HERZEGOVINA
15 BRAZIL
16 BULGARIA
C
17 CAPE VERDE
18 CAMEROON
19 CANADA
20 CHAD
21 CHILE
22 CHINA
23 CYPRUS
24 COLOMBIA
25 COSTA RICA
26 CROATIA
27 CUBA
D
28 DENMARK
E
29 ECUADOR
30 EGYPT
31 EL SALVADOR
32 UNITED ARAB EMIRATES.
33 SLOVENIA
34 SPAIN
35 ESTONIA
F
36 PHILIPPINES
37 FINLAND
38 FRANCE
G
39 GEORGIA
40 GHANA
41 GREECE
42 GUATEMALA
H
43 HOLLAND
44 HONDURAS
45 HUNGARY
I
46 IRAQ
47 IRAN
48 IRELAND
49 ICELAND
50 ISRAEL
51 ITALY
J
52 JAPAN
53 JORDAN
K
54 KAZAJSTAN
55 KENYA
56 KUWAIT
L
57 LATVIA
58 LIECHTENSTEIN
59 LITHUANIA
60 LUXEMBOURG
M
61 MACEDONIA
62 MALTA
63 MOROCCO
64 MEXICO
65 MONACO
66 MOZAMBIQUE
N
67 NICARAGUA
68 NIGERIA
69 NORWAY
O
70 OMAN
P
71 PANAMA
72 PARAGUAY
73 PERU
74 POLAND
75 PORTUGAL
76 PUERTO RICO
Q
77 QATAR
R
78 UNITED KINGDOM
79 CZECH REPUBLIC
80 DOMINICAN REPUBLIC
81 SLOVAKIA
82 RUMANIA
83 RUSSIA
S
84 SOUTH AFRICA
85 SUDAN
86 SWEDEN
87 SWITZERLAND
T
88 TUNEZ
89 TURKEY
90 UCRANIA
91 UGANDA
92 URUGUAY
93 USA
94 UZBEKISTAN
V
95 VENEZUELA
Y
96 YEMEN
97 YUGOSLAVIA
Z
98 ZAIRE
OTHERS
99 NON EC

8.7.4 *Operation*

It works in two ways:
Manual (parameter Set-up 16 = 0):
Whenever a sale is made of a meat item, the item and the animal to which it is associated show up on the screen allowing the possibility to change this association with the association menu.

Automatic (parameter Set 16 = 1):
Whenever a sale is made of a meat item, the sale is applied to the last animal to which this item was associated.

In both cases you can enter the animal/item association menu at will with a combination of keys.

Whatever the working mode, the animal and item association menu can be accessed by pressing the SHIFT and PLU, once the meat item has been selected.

In this association menu, the item's code and designation, as well as the animal's quick identifier and the animal's identification number show up on the display.

SHIFT PLU

NdA 01

+ or **–**

NdA 02

Use the + and – keys to seek the next and previous animal programmed in the LP-2550, respectively. The numeric keyboard can also be used to enter the number of the required animal. To save the association , press ∗.

∗

On making a sale, if in manual mode and a meat-type item is selected, when the sales assistant's key is pressed, this menu is opened and when ∗ is pressed to confirm the association, the sale is made.

∗

F

If the **F** key is pressed, a sale is made with the animal originally associated with this sale. The new association between item and animal will not be saved.

8.7.5 *Printing receipts*

When making a sale in non-labelling mode, and it is a question of a beef or veal-type item, information regarding the animal on which the sale has been made will be printed at the end of the receipt. Also included is the line/s of receipt to which the said animal corresponds.
Only such animal fields as have been programmed will be printed.8.12.5 Lists
The LP-2550 can print a list of beef with the accumulated weight of all the animals programmed.

∗ F 0 0 0 0
TOT3

To obtain this list, enter lists and press **TOT3**.

8.7.6 *Label formats*

When programming the label format in the LP-2550 (consult *User Manual*), you can include the following fields::

160	L.TXA 0	"Identification no."	178	Prod. D.	Date of production of minced meat
161	L.TXA 1	"Slaughtered in: "	179	C. Birth	Animal's country of birth
162	L.TXA 2	"Cut in: "	180	Fat. C	Country/Countries where fattened
163	L.TXA 3	"Produced in: "	181	Cat.	Animal category
164	L.TXA 4	"Country of birth: "	182	Breed	Breed of animal
165	L.TXA 5	"Countries where fattened: "	183	Sex	Sex of animal
166	L.TXA 6	"Category: "	184	Age	Age of animal
167	L.TXA 7	"Breed: "	185	Anim. T	Type of animal
168	L.TXA 8	"Sex: "	186	Origin	Animal's origin
169	L.TXA 9	"Age:"	187	Txt A 1	Animal's free text 1
170	L.TXA A	"Animal type: "	188	Txt A 2	Animal's free text 2
171	L.TXA B	"Origin: "	189	Txt A 3	Animal's free text 3
172	Anim. No	Animal's identification number	190	Txt A 4	Animal's free text 4
173	Abat. no	Abattoir's authorization number	191	Txt A 5	Animal's free text 5
174	C. Abat	Country of abattoir	192	L.TXT C2	"2 Cut in:"
175	Cut P no.	Cutting plant's authorisation number	193	Cut P no 2	Cutting plant's authorisation number 2
176	C. CutC	Country of the cutting plant	194	C. CutC 2	Country of the cutting plant 2
177	C. Prod	Country where minced meat is produced			

Attention. **When printing <u>field 186</u> "origin", if the country of slaughter, birth and fattening coincide, the country where slaughtered is entered in this field. If they do not coincide, asterisks will show up in this field**.

Fields which are not fixed text but are programmed within the animal are only printed if they are entered when programming the animal. If the item selected is non-meat-type and the format has these fields, none of them will be printed.