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A TECHNICAL PRODUCT PUBLICATION Setting Up Eltron Printers

OVERVIEW OF SETTING UP ELTRON PRINTERS

Unlike most printers having only enough buffer storage for a single print, the Eltron printers have a standard 128K memory for storing multiple label data within the printer. In addition, all but one of the Eltron printers come with a Create-A-Label (CAL) Tools software program which the installer uses to easily create a custom label for downloading into the printer's memory. The label created is then resident in the printer—rather than the digital indicator—and the PC that created the label can be permanently disconnected.



This unique approach to label creation and storage offers

great advantages to the user and installer, but the new technology requires some non-traditional set up procedures different than most printers. This publication will guide you through those procedures.

The basic steps in setting up an Eltron printer with a custom label are:

- 1. Connect the printer and IBM-compatible PC together with either RS-232 serial or Centronics parallel cables.
- 2. Load the supplied CAL Tools software program onto the PC's hard drive.
- 3. Create the label on the PC.
- 4. Download the label to the printer.
- 5. Disconnect the PC and connect the scale indicator to the printer with an RS-232 cable.
- 6. Set up the indicator to provide the interface commands necessary to operate the Eltron printer. With some indicators, the optional keyboard display unit (KDU) may be necessary for proper interfacing. The KDU will also be necessary if alphanumeric operator entries are desired during weighing operations.
- 7. Begin weighing operations.

For detailed setup procedures using Eltron printers with selected RLWS scales and indicators, see pages 3–10.

THE OPTIONAL KEYBOARD DISPLAY UNIT (KDU)

The Eltron KDU is used for three main purposes:

- Choosing one of several label formats stored in a printer or printing all label formats stored in a printer
- Calling up product IDs or entering other alphanumeric information.
- Establishing a communication interface with Eltron printers. See the interface chart on the following page for RLWS products which require the KDU to interface to Eltron printers.



Keyboard Display Unit (KDU)

INTERFACE CHART FOR RLWS PRODUCTS

RLWS Product	Direct interface possible?	Operates with KDU?	Additional hardware needed?	Baud rate, Bits, Parity	Terminal character, EOL Delay	Notes
IQ plus 310A	No	Yes	KDU	4800 8 none	CR/LF 1500 mS	Format=CC Printer=Generic
IQ plus 800/810	Yes	No	None	9600 8 none	CR 0 mS	Turn off Truck In/Out program
1Q700	Yes	No	None	9600 7 odd	CR 0 mS	14=Simplex 14.1=GTN
CW-80	No	Yes	KDU	4800 8 none	CR 0 mS	Pfunction=AP3 PR out=CCC
1Q6500	Yes, with optional changes	No	Cable, part # 41279	9600 8 none	CR 0 ms	Eltron option, part # 41278, must be factory-installed
PK280SS	Yes, with optional software program	No	None	9600 8 none	CR 0 mS	Requires Program # RC21A306. Graphics created are stored as Form 7, 8, or 9

Interface Chart: Eltron Printers to RLWS Products

DOWNLOADING LABELS CREATED IN CAL TOOLS TO THE PRINTER

The CAL Tools disk included with most Eltron printers is used both to configure the printer's communication settings and to create formatted labels on an attached PC. Once created and saved, the labels are downloaded to the printer and permanently stored there in memory. The PC can then be disconnected from the system.

Large labels with graphics and bar codes require significant memory and can be slow to download in serial transfer format. To speed transfer, parallel communication is recommended. If your Eltron printer was ordered with a parallel interface, a 34-pin parallel connector will be found on the rear of the unit. The pin functions for that connector are shown at right.

All Eltron printers come standard with 128K of memory, sufficient for a 4"x 5" label with graphics and bar codes. Each printer can be upgraded to 512K in 128K increments. Install as much memory initially as you think you might eventually need, as future memory upgrades require reallocating the memory partitions. This deletes all labels currently stored in memory. To replace those files, you'll have to download the labels again from the PC files you created originally.

Pin	Function	Transmitter
1	-Strobe	Host
2-9	Data 07	Host
10	Busy	Printer
11	Busy	Printer
12	Paper empty	Printer
13	Select	Printer
14-15	N/C	
16	Signal ground	
17	Chassis ground	
18	N/C	
19-30	Signal ground	
31	–Init	
32	-Fault	Printer
33	Signal ground	
34	N/C	

Parallel Connector Pin Functions

IQ PLUS 310A — ELTRON SETUP



The IQ plus 310A indicator requires a KDU keyboard to interface with an Eltron printer.

Indicator Configuration

1. Configure the indicator to send RS-232 serial data out either the EDP or Printer Port. Configure the indicator's PRINTER or EDP submenu as follows:

Mode=Demand Baud=4800 Bits=8 none Termin=CR/LF EOL DLY=0ms (for single weight printing) or 1500 ms (for gross/tare/net printing) Format=CC Printer=Generic

2. Configure the Pticket (if Printer Port is used) or Eticket (if EDP is used) parameter as follows:

Field 1=gross, TLE 01, LSP 00. This is the only field necessary if Gross only; leave other fields blank. Field 2=tare, TLE 01, LSP 00 Field 3=net, TLE 01, LSP 00 Field 4=blank, TLE 01, LSP 00

Printer Configuration

No changes to the default settings are necessary.

Hardware Cabling

1. Connect the PC to the printer with the appropriate serial or parallel cable.

If the printer has a parallel connector, use a parallel cable and one of the LPT parallel connectors on the computer. When labels created on the PC with CAL Tools are downloaded to the printer, parallel transfer is several times faster than serial transfer.

If the printer only has a DB-9 or DB-25 serial connector, use a serial cable and one of the COM serial connectors on the computer.

 Connect the printer to the KDU with the fixed DB-9 connector. If the printer's DB-9 serial connector is in use by the PC, wait until all labels are downloaded before connecting the KDU.

	Host		Printer		
9-Pin 25-Pin		Function	9-Pin	Function	
			1	+5V	
2	3	RxD	2	TxD	
3	2	TxD	3	RxD	
4	20	DTR	4	N/C	
5	7	GND	5	GND	
6	6	DSR	6	RDY	
7	4	RTS	7	N/C	
8	5	CTS	8	RDY	
			9	+5V (TLP only)	

3. Connect the KDU to the indicator via serial RS-232 cable.

DB-25, DB-9 Pin Functions

Wire the RS-232 cable from the RS-232 pins of the KDU's DB-9 connector (3–RXD, 5–GND) to the IQ plus 310A serial communication terminal strip. Use J4-5=TXD and J4-2=GND for the Printer Port. Use J4-1 TXD and J4-2 GND for the EDP port.

IQ PLUS 800/810 — ELTRON SETUP (WITHOUT HOTLINE)



The IQ plus 800/810 interfaces directly with Eltron printers; the KDU keyboard is incompatible.

Indicator Configuration

1. Configure the indicator to send RS-232 serial data out either the EDP or Printer Port. Configure the PRINTER or EDP submenu as follows: Baud=9600, Bits=8 none, Termin=CR/LF, EOL DLY=0ms.

Because you do not want continuous data streaming out the active serial port, be certain that the STREAM parameter is *not* set to the port you are using, and that the PRNDEST *is* set to the port you are using.

2. The IQ plus 800/810 has a choice of five print formats: Gross, Net, Truck In, Truck Out, and Setpoint Push Print. Each of these formats can be modified and customized with data strings up to 300 characters in length. The example at the bottom of the page shows the Net format.

Hardware Cabling

1. Connect the PC to the printer with the appropriate serial or parallel cable.

If the printer has a parallel connector, use a parallel cable and one of the LPT parallel connectors on the computer. Parallel transfer is several times faster than serial transfer for downloading label files to the printer.

If the printer only has a DB-9 or DB-25 serial connector, use a serial cable and one of the COM serial connectors on the computer.

 Wire the RS-232 cable from the RS-232 pins of the printer's DB-9 connector (2-RXD, 5-GND) to the indicator's serial communication terminal strip (J7-5=TXD and J7-6=GND for the Printer Port, or J7-11 TXD and J7-12 GND for the EDP port).

Label Creation Example: Net Print Format

The command string necessary to format and print a Net Format label is a combination of IQ plus commands and Eltron programming commands. You will first create the label in the CAL Tools program and save it in the printer's memory under a typical name such as GTN.

You will then modify the indicator's Net print format data string (NFMT) to include GTN within the data string. To modify indicator data strings, use a terminal communication program on your PC like Terminal (which comes with Windows 3.1), or HyperTerminal (which comes with Windows 95). Special Eltron programming commands will be put into the indicator's NFMT string to tell the indicator to search out and import GTN, then add weight data from the scale in the appropriate place on the label. Pull up the current net format (NFMT) data string by typing NFMT, then pressing RETURN. Modify the string as follows:

NFMT=<NL>N<NL>FR"GTN"<NL>?<NL><G><NL><T><NL><NL><P1><NL>

Wher	e:

- < > designates an IQ plus command
- " " designates a file name
- N Eltron command telling the printer to clear its buffer for a new print
- GTN Name of the label file
- FR Eltron command telling the printer to search its memory for the file to import
- ? Eltron command telling the printer to import the GTN file
- P1 Eltron command telling the printer to print the label one time
- NL Indicator command for an end-of-line line terminator (CR/LF)
- N Net weight data from scale
- G Gross weight data from scale
- T Tare weight data from scale

IQPLUS 800/810 — ELTRON SETUP (USING HOTLINE)



The IQ plus 800/810 interfaces directly with Eltron printers; the KDU keyboard is incompatible.

Indicator Configuration

1. Configure the indicator to send RS-232 serial data out the Printer port to the Eltron printer. Configure the PRINTER submenu as follows: Baud=9600, Bits=8 none, Termin=CR/LF, EOL DLY=0ms.

Configure the indicator's EDP port for compatibility with Hotline (Baud=9600, Bits=8 none, Termin=CR/LF, EOL DLY=0ms).

Because you want demand—rather than continuous—data from the printer port, be certain that the STREAM parameter is *not* set to the printer port, and that the PRNDEST *is* set to the printer port.

2. The IQ plus 800/810 has a choice of five print formats: Gross, Net, Truck In, Truck Out, and Setpoint Push Print. Each of these formats can be modified with Hotline with data strings up to 300 characters in length. The example at the bottom of the page shows the Gross format.

Hardware Cabling

1. Connect the PC to the printer with the appropriate serial or parallel cable.

If the printer has a parallel connector, use a parallel cable and one of the LPT parallel connectors on the computer. Parallel transfer is several times faster than serial transfer for downloading label files to the printer. If the printer only has a DB-9 or DB-25 serial connector, use an RS-232 serial cable and one of the COM serial connectors on the computer.

- 2. Wire the RS-232 cable from the RS-232 pins of the printer's DB-9 connector (2-RXD, 5-GND) to the IQ plus 800/810 serial communication terminal strip (J7-5=TXD and J7-6=GND for the printer port).
- 3. Wire a serial cable for Hotline communication from one of the serial COM ports of the computer to the EDP port RS-232 pins of the indicator's J7 serial communication terminal. The indicator's EDP port supports bidirectional RS-232 at pins J7-9 (RXD), J7-11 (TXD), and J7-12 (GND).

Label Creation Example: Gross Print Format

The command string necessary to format and print a Gross Format label is a combination of IQ plus commands and Eltron programming commands. You will first create the label in the CAL Tools program and save it in the printer's memory under a typical name such as GLABL.

You will then use Hotline to modify the indicator's Gross print format data string to include GLABL within the data string. Special Eltron programming commands are put into the indicator's gross format string to tell the indicator to search out and import GLABL, then add gross weight data from the scale in the appropriate place on the label. You can then disconnect the PC, as neither CAL Tools nor Hotline will be needed further.

To create and download the label:

- 1. Load CAL Tools onto the attached PC and open the program.
- 2. Format the label so it looks on screen exactly as you want it to appear when printed.
- 3. Save the label file as GLABL and download it to the printer.
- 4. Close out of the CAL Tools program and open the Hotline program.
- 5. Using Hotline in Monitor Mode, type in **GFMT =**, then add the GFMT data string desired (see step 6).

6. For this example, modify the string as follows:

GFMT=<NL>N<NL>FR"GLABL"<NL>?<NL><G><NL>P1<NL>

Where:

	< >	designates a command
		designates a file name
	Ν	Eltron command telling the printer to clear its buffer for a new print
	GLABL	Name of the label file
	FR	Eltron command telling the printer to search its memory for a file to import
	?	Eltron command telling the printer to import the GLABL file
	P1	Eltron command telling the printer to print the label one time
	G	Gross weight data
	NL	Indicator command for an end-of-line line terminator (CR/LF)
7.	Save the new g	ross format string and download it to the indicator.

8. Close out of Hotline and disconnect the PC from the indicator.

IQ 700 — ELTRON SETUP



The IQ 700 interfaces directly with Eltron printers; the KDU keyboard is incompatible.

Indicator Configuration

The indicator should be set for 9600 baud, 7 data bits, odd parity and 1 stop bit. RS-232 serial communication to the printer will be simplex, in gross/tare/net output, demand mode, with no end-of-line delay. In this example, use serial port 1 to send data.

The following parameter choices in the IQ 700 configuration menu will achieve those settings:

14	SI	14.3	dE
14.1	Gtn	14.4	96
14.2	Off	14.5	Off

Printer Configuration

The Eltron printer must also be configured for 9600 baud, 7 data bits, odd parity, 1 stop bit. This configuration change can be done using the CAL Tools program.

Hardware Cabling

1. Connect the PC to the printer with the appropriate serial or parallel cable.

If the printer has a parallel connector, use a parallel cable and one of the LPT parallel connectors on the computer. When labels created on the PC with CAL Tools are downloaded to the printer, parallel transfer is several times faster than serial transfer.

If the printer only has a DB-9 or DB-25 serial connector, use an RS-232 serial cable and one of the COM serial connectors on the computer.

2. Wire the RS-232 cable from the RS-232 pins of the printer's DB-9 connector (2-RXD, 5-GND) to the IQ700's serial communication terminal strip (TB2) RS-232 pins. If using Port 1 as we are doing here, 2=TXD and 5=GND; if using Port 2, 1=TXD and 6=GND.

Label Creation Example: Gross-only Label

For this example, we're sending scale data and print commands in a data string through Port 1. We're also using the indicator's Smart Serial I/O option which must be activated. Therefore, IQ 700 configuration parameter OP7 must be turned on to activate the option, and subparameter OP7.1 must be turned on to enable custom printout.

To modify the IQ 700's data string for a gross-only print command using the label format you created in CAL Tools, use the indicator's keypad to enter ASCII control characters that modify the serial data string. ASCII control code character charts are found in the Options section of the *IQ700 Operation and Installation Manual*.

The serial string you will create will be similar to the following:

<CR/LF>N<CR/LF>FR"Name"<CR/LF>?<CR/LF><Weight Command><CR/LF>P1<CR/LF>

Where:

<>	designates a command
66 99	designates a file name
Ν	Eltron command telling the printer to clear its buffer for a new print
Name	Name of the label file
FR	Eltron command telling the printer to search its memory for a file to import
?	Eltron command telling the printer to import the named file
P1	Eltron command telling the printer to print the label one time
Weight Command	Gross weight data from scale
CR/LF	IQ 700 command for a Carriage Return/Line Feed character

The following set of ASCII control codes must be entered to achieve the above data string:

013 = CR	013 = CR
010 = LF	010 = LF
078 = N	063 = ?
013 = CR	013 = CR
010 = LF	010 = LF
070 = F	200 = GROSS WEIGHT
082 = R	013 = CR
034 = "	010 = LF
078 = N	080 = P
065 = A	049 = 1
077 = M	013 = CR
069 = E	010 = LF
034 = "	999 = END FILE

You are limited to 30 characters per print file and a total of 250 characters for the entire serial string. It may be necessary to use macro files to include headers or multiple weight fields in your label. For information on using macros, see the Smart Serial I/O section of the *IQ 700 Operation and Installation Manual*.

CW-80 — ELTRON SETUP



The CW-80 must use the Eltron KDU keyboard to interface with Eltron printers.

Indicator Configuration

The CW-80 communicates in serial RS-232 from its serial port through the KDU keyboard to the printer.

The serial string format is in Condec format (CCC), but the complete auto-print command is not included in the indicator string. Instead, the CW-80 is set to initialize a demand print through its Print Function (PFUNCT) feature, but the final auto-print command is an Eltron command (PA1) added to the printer memory by downloading it from the PC in a text editor program.

Make the following configuration settings for the CW-80:

Baud	4800	Port	RS232
Data Bits	8 None	Address	0
EOL	CR	PFunct	AP4 or AP3
EOL DLY	0	Pr Out	CCC
Filter	2 (preferred)	Update	.040S (preferred)

Printer Configuration

No change to the printer default serial settings are necessary.

In a text editor program, insert the Print Automatic, 1-time command (PA1) into the printer's .EJF journal file and save it in that modified form. See Adding the Auto Print Command to the Printer on page 9.

Hardware Cabling

1. Connect the PC to the printer with the appropriate serial or parallel cable.

If the printer has a parallel connector, use a parallel cable and one of the LPT parallel connectors on the computer for faster label downloading.

If the printer only has a DB-9 or DB-25 serial connector, use a serial cable and one of the COM serial connectors on the computer.

- 2. Connect the printer to the KDU with the fixed DB-9 connector. If the printer's DB-9 serial connector is in use by the PC, wait until all labels are downloaded before connecting the KDU.
- 3. Connect the KDU to the checkweigher via serial RS-232 cable.

Wire the RS-232 cable from the RS-232 pins of the KDU's DB-9 connector (3-RXD, 5-GND) to the CW-80's serial communication terminal strip (TXD, GND).

	Host		Printer		
9-Pin 25-Pin		Function	9-Pin	Function	
			1	+5V	
2	3	RxD	2	TxD	
3	2	TxD	3	RxD	
4	20	DTR	4	N/C	
5	7	GND	5	GND	
6	6	DSR	6	RDY	
7	4	RTS	7	N/C	
8	5	CTS	8	RDY	
			9	+5V (TLP only)	

DB-25, DB-9 Pin Functions

Adding the Auto Print Command to the Printer

With the CW-80's Print Function parameter set to auto print (PFunct=AP3 or AP4), the print command will be sent to the printer at the appropriate time. Before the command is executed however, a prompt appears on the KDU asking the operator to enter the number of labels to print. The operator must select some number–usually 1–and press ENTER to complete the print command.

To eliminate this manual entry, the Eltron command to auto print a single label (PA1) can be added to the printer's command string.

To add PA1 to the command string, perform the following steps:

- 1. Open the CAL Tools program and create the desired label.
- Name and SAVE the label file. The example at right was named BACON. NOTE: To verify that the label file was actually transferred to the printer's memory, press F2 on the KDU to print a list of all label files stored in memory.
- 3. With the label file still open, select GEN. COMMAND FILE from the CAL Tools menu. This will automatically generate a print command file for the label and save it in your hard drive as an Eltron Journal File with an .EJF suffix. The sample label command file became BACON.EJF.
- 4. Close CAL Tools.
- 5. Open a text editor program on your PC such as MS-DOS Edit®.
- Do a directory search for the .EJF file you created. There should be only one .EJF file in your system. The sample appeared as BACON.EJF in the PC's directory.
- 7. Open the .EJF file in MS-DOS Editor. The sample BACON.EJF file is shown at right.



FK"4134" FS"4134" V00, 15, N, "weight"
Q609, 20+0 R0, 0 S2 D8 ZT TTh:m:s:,+ TDy2. mn. dd A160, 93, 0, 5, 2, 2, N, "204134" A160, 347, 0, 4, 2, 2, N, "#2 PLATTER BACON" A313, 499, 0, 3, 1, 3, N, V00 FE

BACON.EJF file

- 8. When the text file opens, you will see a string of commands, the final one being the file-end command, FE. Insert your text cursor directly before the FE and enter the single autoprint command, PA1. Press RETURN. PA1 should now show as a separate line and FE should again be in the final position as shown at right.
- 9. Press SAVE to save the modified .EJF file with the original name. The sample was still named BACON.EJF.
- 10. Press PRINT. When the Print dialog box appears, select COMPLETE DOCUMENT and press OK. This transfers the command file, including the single auto-print command, to the printer memory.
- 11. Close MS-DOS Editor. The PC can now be disconnected from the printer. The CW-80 will now auto print as configured without manual input from the operator.

FK"4134" FS"4134" V00, 15, N, "weight"
Q609, 20+0 R0, 0 S2 D8 ZT TTh:m:s:,+ TDy2. mn. dd A160, 93, 0, 5, 2, 2, N, "204134" A160, 347, 0, 4, 2, 2, N, "#2 PLATTER BACON" A313, 499, 0, 3, 1, 3, N, V00 PA1 FE

BACON.EJF file with Auto Print Command

IQ 6500 — ELTRON SETUP



When interfacing an IQ6500 Counting Scale to an Eltron printer, the IQ6500 must have the special factoryinstalled option (part # 41278) to function with the printer. A custom 25-pin to 9-pin cable (part # 41279) is also necessary to connect the counting scale and printer.

The IQ6500 is unique in that its transmitted data string includes all parts of the ticket formatting. The IQ6500 ticket format, shown at right, is very comprehensive, but cannot be modified with the CAL Tools software. There is no reason to attempt to format labels with CAL Tools and download them to the printer, as the print command from the scale includes its own label information. Therefore, neither a PC nor CAL Tools are needed for the IQ6500/ Eltron Printer interface.

The IQ6500 Counting Scale with the Eltron option # 41278 will interface directly with all Eltron printers except models LP 2022 and LP 2042.

ID. CODE 123 OUANTITY 1136 G 0.114 LB. T 0.000 LB. N 0.114 LB. SED ND. 450 NOV. 7. 1994 / 11:24 PM P/N: 012345678901 HIM DEPARTMENT TARE WT. 0.000 LB.

IQ6500 Printed Ticket



Indicator Configuration

special EPROM with custom software to communicate with the Eltron printers, and a hardware change to the board moving a soldered jumper from JP-4 to JP-3 which changes the baud rate from 4800 baud to 9600 baud as shown at right.

The following changes must be made to the IQ6500 configuration settings:

SPEC CODE	SETTING				
12	1000				
15	1000				
17	0000				
18	1001				



Section of IQ6500 Board with Eltron Modifications

Printer Configuration

No changes from factory defaults are neccessary.

Hardware Cabling

Use special cable (part # 41279) to connect the printer to the counting scale. This connector is a 25-pin to 9-pin cable with the pin connections and functions shown at right.

Function	IQ 6500	Eltron	Function
TXD		3	RXD
RXD	3	2	TXD
CTS	5	8	CTS
DSR	6	6	DSR
GND	7	5	GND

Cable 41279 Pin Functions



The PK280SS, when loaded with special program RC21A306, interfaces directly to Eltron printers.

Indicator and Printer Configuration

Configure the indicator used with the scale to send RS-232 serial data to the PK280SS at 9600 baud, 8 bits, no parity. The Eltron printers, by default, are set to 9600 baud, 8 bits, no parity.

Keyboard Configuration

Configure the PK280SS for serial communication compatibility with the indicator and printer by assigning the Configure Serial Port setting to 9600 Baud, 8 Data 1 Stop.

Label Creation

With a PK280SS/Eltron application, all label information-except graphics-is created and stored in the PK280SS.

Graphics are created on the attached PC in any graphics program, imported into the CAL Tools program for placement on the label, then downloaded to the printer and stored in the printer's memory under the name FORM7, FORM8, or FORM9. The PC is then disconnected from the system. When the PK280SS sends its label data to the printer, the code calling for the graphic is embedded, alerting the Eltron printer to place the required graphic on the label.

Hardware Cabling

- 1. If used, connect the PC to the printer temporarily with an appropriate parallel cable at one of the PC's LPT ports, or with a serial cable at one of the PC's COM ports. A parallel connection is recommended for downloading speed. Disconnect when finished downloading.
- Connect the PK280SS to the printer and scale indicator with suitable serial cables according to the chart at right. If a PC was used for downloading graphics, disconnect it before connecting the PK280SS to the printer.

Scale Indicator Function	PK280SS Terminal / Function	Eltron Printer Pin / Function
TXD	#1 / RS-232 RXD	
	#1 / RS-232 TXD	3 / RXD
GND	GND	5 / GND

Example: Net Print Format with Fixed Graphic and Variable Product Look-Up (PLU)

The label below was created on the PK280SS by entering the programming codes shown in the chart below into the PK280SS Page Configuration. The graphic (7) was created on a PC, assigned the name FORM7, and downloaded to the printer.

A chart of all PK280SS programming codes appears in the Configure Page Item List section of the PK280SS Operating Manual.

93 53 7	Rotation	Font ID	Horizontal Mult.	Vertical Mult.	Bar Code Ht.	Row	Column	Item	Item Description
04: 22 PM 30 JUN 97	0	0	0	0	0	0	0	7	Graphic
BEEF PATTIES	2	2	1	1	0	94	56	93	Time, date
	2	2	3	3	0	94	45	53	PLU
	2	2D	2	5	10	94	16	85	Bar code
	2	2	3	3	0	66	12	92	Net weight
	2	2	2	2	0	36	10	34	Units
85 92 34 35	2	2	2	2	0	25	10	35	"NET WT"

CAL TOOLS QUICK REFERENCE GUIDE

CAL Tools is a DOS-based, PC software program used to quickly create label forms and bar codes with fixed, variable, and/or graphic fields. The label files are then downloaded from the PC to an Eltron printer for permanent storage. CAL Tools is the graphical WYSIWYG program supplied on floppy disk free of charge with all Eltron printers that can use label-creation software.

All models can use CAL Tools except the LP2022 and LP2042 models which are line-mode printers, printing one line at a time. They don't work with CAL Tools because they have a limited 32 K of buffer memory, can't rotate print, and can't store a label form internally. They must remain connected to the host device at all times. No Windows-based label-creation software will work with these two printers for the same reason.

CAL Tools is shipped on one of the two disks sent with each applicable Eltron printer. Install CAL Tools per directions on the disk. The other disk holds Windows print drivers for all Windows platforms (3.1, 3.11, 95, NT).

Two Windows-based versions of the label-creation software, Create-A-Label 3 and Create-A-Label Professional for Windows are available as a purchased option. These optional versions allow you to print from a database and to print multiple forms.

OPEN PROGRAM

In DOS, type TOOLS and press RETURN to open. In Windows, double-click the CAL Tools program icon to open.

SET UTILITIES

Printer Setup

Serial Port Setting — 9600 baud Parity — none Data — 8 Stop — 1 Memory Partition — OK as long as label is smaller than 4 x 5 inches

SYSTEM MANAGEMENT

Configuration

Printer — Select printer model Printer Port — Use Lpt1 for parallel interface and faster downloading; use Com 1 for RS-232 serial Label Length — Enter width and height

CREATING A LABEL

Choose NEW; label setup specs appear.

Choose ADD; add text, box, line, bar code, picture, or paragraph items to label.

Choose EDIT to modify and arrange label elements

Choose SAVE

DOWNLOADING LABEL TO PRINTER

Choose DOWNLOAD LABEL to transfer file format to printer.

Pass this Tech Talk along to share this technical information with your associates.
ROUTE TO:
_

RICE LAKE WEIGHING SYSTEMS Service Department 715-234-2003 Weekdays: 6:30 am-6:30 pm CT Saturdays: 8:00 a.m. - 12 noon CT