WEIGH-TRONIX

WI-127 Print Formatter Software

User's Manual

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Introduction

This WI-127 Print Formatter software works with Rev. D of the WI-127 software, Rev. C of the GTN, and Rev. B of the In-Motion software.

The WI-127 Print Formatter software allows you to quickly format output styles which can be downloaded to the WI-127. This eliminates the necessity of keying in each alpha character's ASCII code when configuring layouts through the WI-127 front panel. However, you can still make layout changes through the front panel if you wish.

Installing the Software

® Windows is a registered trademark of Microsoft.

Insert the floppy disk into your PC's floppy drive. In Windows® 3.1 or Windows 95/98® run the setup.exe file. Follow the onscreen instructions for loading the files. The default location for the program files is a directory called "wt" which the installation creates automatically unless you direct the files to another location.

After installation, start the program by clicking the icon in the Weigh-Tronix group (Windows 3.1) or clicking on Start, Program, Weigh-Tronix and WI-127 Print Formatter. The program loads and an OK button appears. Click the button or press Enter and the program screen shown in Figure 1 appears.

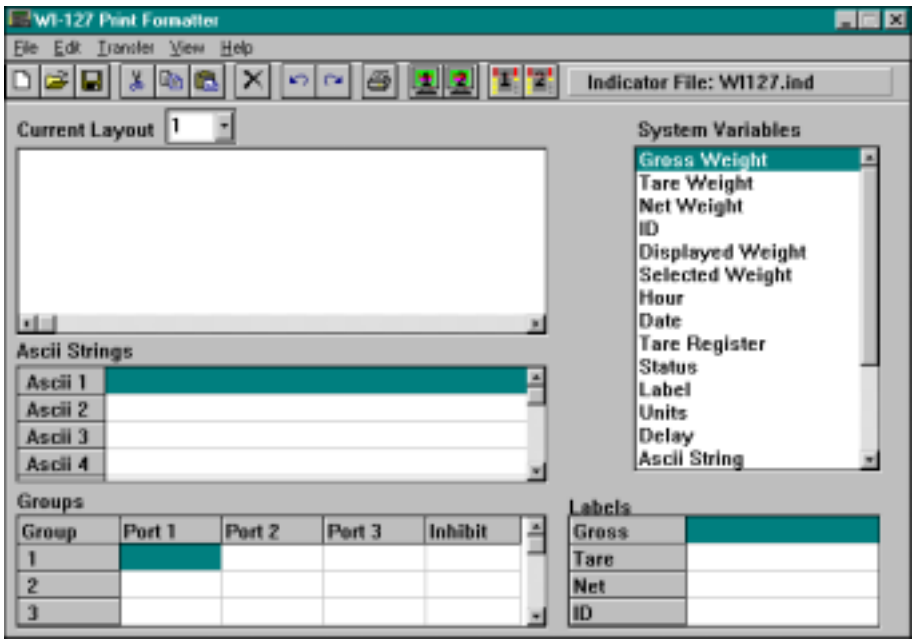


Figure 1
Print Formatter window

Each part of the window is explained in the next section.

Program Screen Descriptions

When Com1 or Com2 are mentioned they are in reference to your PC, not the WI-127.

The program screen consists of a command line, a toolbar and the editing window which is split into five areas labeled

- Current Layout Window
- System Variables List
- Ascii Strings List
- Groups Window
- Labels Window

Command Line

The command line has five commands. They are File, Edit, Transfer, View, and Help. Click on each command to see a drop down menu. Each menu is explained below.

See Appenix A: File Information Print Output *to see an example of what is printed when you click on* ***Print*** *under* ***File*** *or click on the* ***Print*** *button in the program window.*

File With this menu you can pick a new indicator type (ie., standard WI-127, GTN, In-motion or UK version) and start a new file for that indicator, open an existing file, save a file you are working on, save a file under a new name, print the format information, setup your default printer for the PC, or exit the Formatter program.

Edit With this menu you can undo a previous action, redo an action, cut an object out and place it in the clipboard, copy an object to the clipboard, paste an object from the clipboard to the cursor location, delete a selected object, or select all text in the layout window.

Transfer With this menu you can choose to upload format information from the WI-127 through your computer Com1 or Com2, download format information to the WI-127 through Com1 or Com 2, and choose the baud rate. It is **important** that the baud rate of the WI-127 (under *Serial* in the service menu) and the baud rate you choose under *Transfer* match before you download or upload. Also the baud rate of the WI-127 and the printer must match before printing.

View With this menu you can toggle the toolbar on and off and also toggle the popup hints on or off. When enabled, hints appear when the cursor rests above a command, button or an area of the window.

Help Use this to access the About screen and the help files for this program.

Attention

It is important that the baud rate of the WI-127 (under* Serial *in the service menu) and the baud rate you choose under* Transfer *match before you download or upload. Also the baud rate of the WI-127 and the printer must match before printing.

Toolbar

The toolbar consists of buttons which mirror functions available in the command line. The buttons are shown below along with their functions.

Select a new indicator and new file

Open a file

Save the file

Cut

Copy

Paste

Delete

Undo

Redo

Print (See App. A)

Upload thru Com1

Upload thru Com2

Download thru Com1

Download thru Com2

Using the Formatting Window

A layout is made up of items, up to a maximum of 16 items. An item can be a space, a carriage return, a line feed, a label, a string of text, or any of the other items listed in the system variable list which appears on the right side of the formatting window. To make larger layouts possible you may imbed a layout within another layout. This is called nesting. You cannot nest a layout into itself.

You cannot nest a layout into itself. You must use other layouts.

Table 1 shows the specifications for layouts in different models of WI-127.

*The number of layouts available depends on the version of WI-127 you pick in the **Open Settings** item under **File**. See Table 1.*

Table 1
Layout specifications

	Layouts	Strings	Groups	Items/ Layout	Char./ String	Char./ Label
WI-127	16	16	9	16	32	16
GTN	32	16	9	16	32	16
In-Motion	16	16	9	16	32	16
UK	16	16	9	16	32	16

The Basics

To illustrate the basics of creating a layout for your model of WI-127, we'll create the following simple layout:

Example shown at right is a WI-127 connected to a WP233/ 234 printer.

```
My Company
G 1000 lb
```

This layout consists of an Ascii string, a carriage return and line feed, the label for gross (G), a space, the gross weight, a space, the units name, and six line feeds to advance the paper tape.

1. Select the model of indicator you are using from the list under *File/New*. Select from WI-127, GTN, In-Motion, or UK versions. This will setup the window with the information in Table 1.
2. Select the Current Layout number you want to work on. See Figure 2. Use the scroll bar on the right side of the drop down list to see the rest of the list. We'll select #1 in this example.

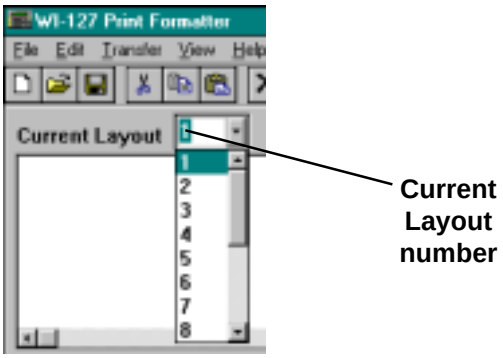


Figure 2
Choosing Current Layout

Single click on a variable in the system variables list to select it. Double click it to either bring up a popup list of value choices or insert the variable in the layout window. Press F1 for context sensitive help while a variable is selected.

3. To create the text line, **My Company,** you need to double click on Ascii String in the System Variable list. This item, like several others in the list, have a popup screen from which you need to choose a value associated with that item. Again you can scroll to unseen numbers using the scroll bar.

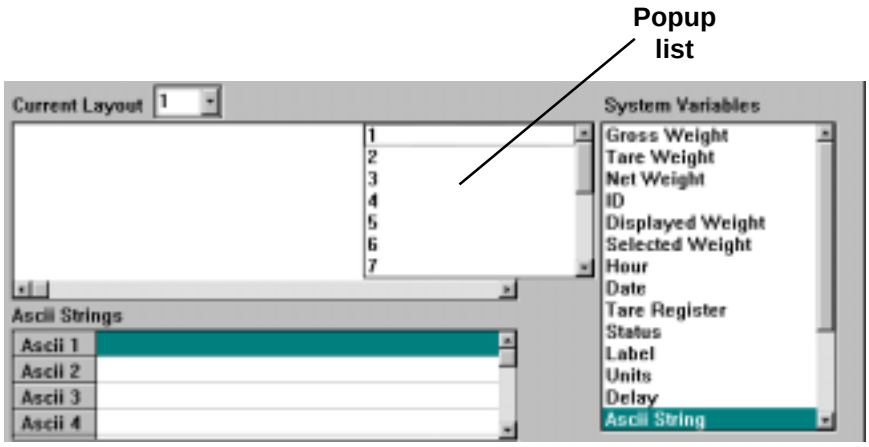
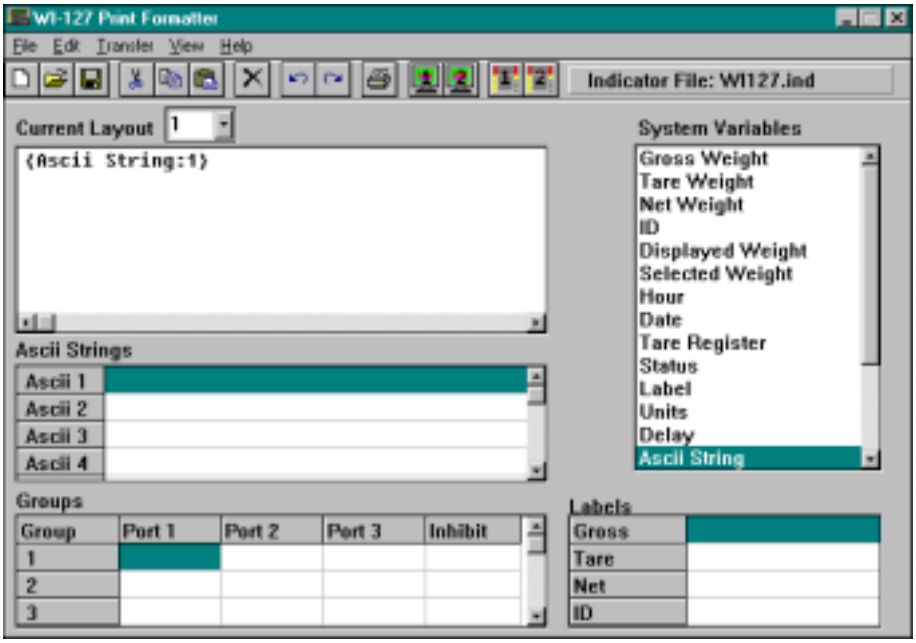


Figure 3
Ascii String drop down list

4. Click on the Ascii String number you want to use. In this example click on #1. Now you need to enter the text you want in Ascii String #1 in the Ascii String window. In this example, key in the words “My Company” next to Ascii 1. The screen should look like Figure 4.



The maximum number of characters or spaces in an Ascii string is 32. For more characters, add additional Ascii strings to the layout.

Figure 4
Ascii string entry

5. Double click on Carriage Return (1). Press the **ENTER** key on your PC keyboard to wrap the text on the screen. Otherwise the text runs off the screen to the right. Pressing **ENTER** will only wrap the text line, it will not cause any action when the layout is printed from the WI-127.

Attention

Depending on the peripheral device (printer, pc,remote display, etc.) you are using, a Carriage Return may also produce an automatic Line Feed.

6. To create the next lines of information click on the following:

   Double click on Line Feed (1) in the system variable list to insert this into the layout. This causes the next line of text to be below the first and lined up on the left side of the print field. Double click on Label (Gross), Spaces (1), *(Press the **ENTER** key to wrap the text)*, Gross Weight, Spaces (1), Units, *(Press the **ENTER** key to wrap the text)*, Carriage Return (1) and Line Feed (6). Now you need to enter a label for Gross. We used the letter G in the example so type a **G** next to Gross in the Labels section of the window. You can use up to 16 characters in a label. The layout window will look like Figure 5.

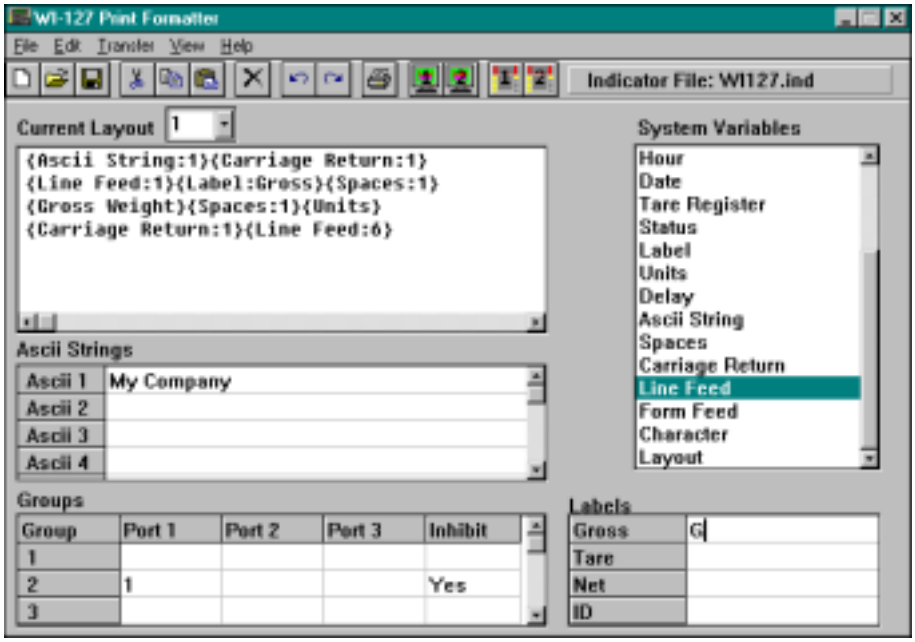


Figure 5
Nearly completed layout

You must put a Y (for YES) under Inhibit for certified applications.

7. The last thing you need to do is assign the layout to a group. A group is just a combination of a layout and a port. Port 1 is the standard serial output. Ports 2 & 3 require optional serial cards.

   In the Groups section of the window you will see a grid consisting of Group numbers along the left side and Port 1-3 and Inhibit across the top. Type the layout number in the box corresponding to the Group number and Port you want to use. See note at left.

   Type a **Y** in the Inhibit box for that Group if you want to inhibit printing during scale motion. A **YES** will appear in the box. Type an **N** if you do not want to inhibit printing during motion. A **NO** will appear in the box.

By default the WI-127 transmits Group 2, layout X, from port 1 when you press the **PRINT** *key. To change the* **PRINT** *key action, see your* Service Manual *for instructions.*

8. Perform a Save As and name this file *mycom*.

Status byte

Transmitted as a single character. The bits appear as follows: 011LEBM, where L is set to logic 1 when a Low voltage condition exists; logic 0 otherwise. E is set to 1 when an a-d Error condition exists; 0 otherwise. B is 1 when the weight is Beyond displayable range (over- or under-capacity); 0 otherwise. And M is set to logic 1 when an in Motion condition exists; set to logic 0 when the weight is stable. The upper four bits are set to 0011 to cause the value to be printed as a digit or symbol in row 3 of the ASCII character set.

Table 2
System Variables to build a layout

System Variables	What is transmitted
Gross Weight	Current gross weight.
Tare Weight	Current tare (general or numbered register).
Net Weight	Net weight.
ID	Identification number.
Displayed Weight	Current displayed live weight (gross or net), depending on the current display mode.
Selected Weight	Currently selected item from the select list (gross, tare or net).
Hour	Current time.
Date	Current date.
Tare Register	Current tare register number (a space is transmitted for the general tare register).
Status	Current status. See note at left.
Label*	Weight label. These choices are available: • Gross - your assigned gross label • Tare - your assigned tare label • Net - your assigned net label • ID- your assigned ID label • Displayed- current display weight • Selected- currently selected display
Units	Unit of measure label.
Delay*	Pauses serial port output by this many seconds (0-255).
Ascii String*	A configurable ASCII string.
Spaces*	A configurable number of spaces.
Carriage Return*	A configurable number of carriage returns.
Line Feed*	A configurable number of line feeds.
Form Feed	A form feed is transmitted.
Character*	A character (ASCII value).
Layout*	A predefined layout may be included within another layout. For example, Layout 6 includes Layouts 1, 2, & 3. **Note**: A “layout error” will occur if a layout uses its own layout within itself or if a “loop” of layouts is used (for example, Layout 1 cannot use Layout 2 if Layout 2 includes Layout 1)

* denotes items that have a drop down list which requires entry of more information. For example: if “LABEL” is inserted within a layout, you must specify the label to be printed; if “SP” is inserted, you must specify the number of spaces to be transmitted.

Nesting Layouts

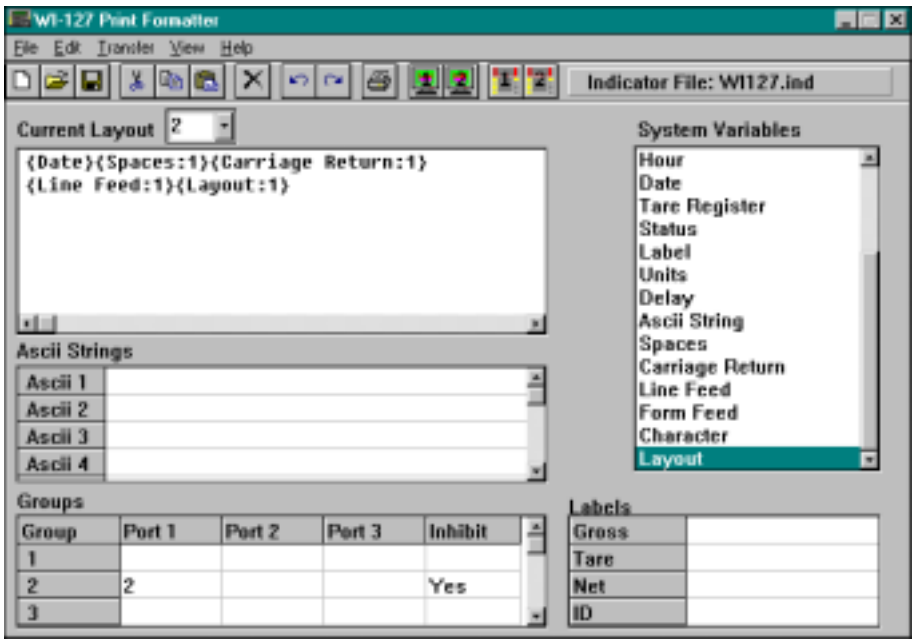
Example shown at right is a WI-127 connected to a WP233/ 234 printer.

To assemble more complex layouts you may nest one layout within another. Following is an example using Layout #1, which we just created, in Layout #2. We will create the layout for this output:

```
12-31-99 02:30 pm
My Company
G 250 lb
```

The date is printed, a space, the time, a carriage return and line feed, then Layout 1 is inserted.

Here is what the layout looks like:



Downloading Files

*You may also press the seal switch to display **About**.*

After you have finished creating the layouts you want in your WI-127, save the file and connect your PC to the WI-127 serial port. Place the WI-127 in transfer mode by following these steps:

1. Key in **127**, press and hold the **ESCAPE** key. . . ***About*** is displayed.
2. Press the **Left Arrow** key. . . ***SETup*** is displayed.
3. Press the **ENTER** key. . . ***127*** is displayed.
4. Press the **ENTER** key. . ***AdJUSt*** is displayed.
5. Press the **Left Arrow** key. . . ***trANSFEr*** is displayed.
6. Press the **ENTER** key. . . ***PC---127*** is displayed.

Double check your layout if you have a problem.

The WI-127 is now ready to receive the file from your computer. Connect a cable between the WI-127 serial port and your computer.

Your printer may require specific control codes in the print format. Check your printer manual.

Click on the Download (1 or 2) button in the Formatter program to begin downloading through COM1 or 2. A progress window appears and shows the file is downloading. When complete, a dialog box informs you how many seconds the transfer lasted. Click OK. Return the WI-127 to normal weigh mode by pressing **SELECT** twice.Your WI-127 should now be ready to print according to your programming.

If the download fails, check your layout, group and port selections, baud rate, cable connections to serial port #1 and be sure the WI-127 is in Transfer mode. Also, check that the **PRINT** key is configured correctly to transmit the correct Group #. Try again.

Uploading Files

Be sure baud rates of your computer and WI-127 match before uploading.

The Formatter program can also upload the current layouts in a WI-127. Place the WI-127 in Transfer mode just as you did in steps 1-6 above. Be sure your WI-127 is connected to your PC. Click the Upload (1 or 2) button to upload through COM1 or 2.

The program is now visible on your formatter. You can edit it or add to it, save the file and download it again or transfer the file to another WI-127. If a port is not assigned in a group, NONE is shown by default when uploaded to the Editor program.

Factory Supplied Files

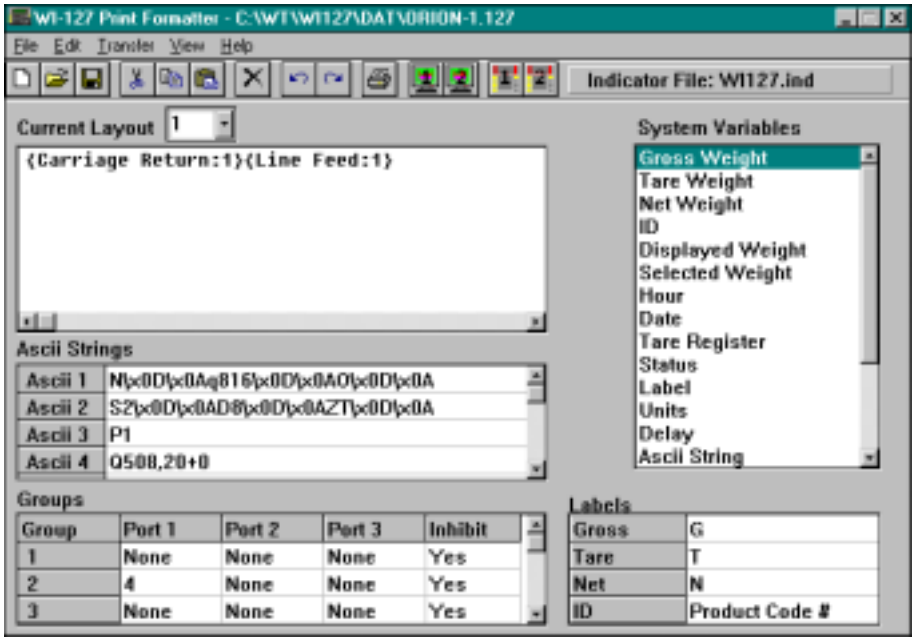
The Rd125-1.127 file also works with RD4000/6000 models equipped with the appropriate software version.

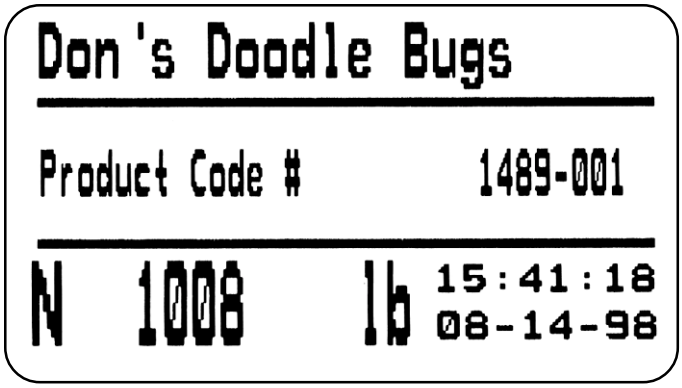
Several files are included with the Format Editor when the program is installed. Four of these files replicate the default settings for the standard WI-127, the GTN version, the In-motion version and the UK version. The other eight files give sample formats for eight different printer setups for the standard WI-127. They are as follows:

- Orion-1.127
- Orion-2.127
- Orion-3.127
- Orion-4.127
- Orion-5.127
- Rd125-1.127
- TM295-1.127
- WP250-1.127

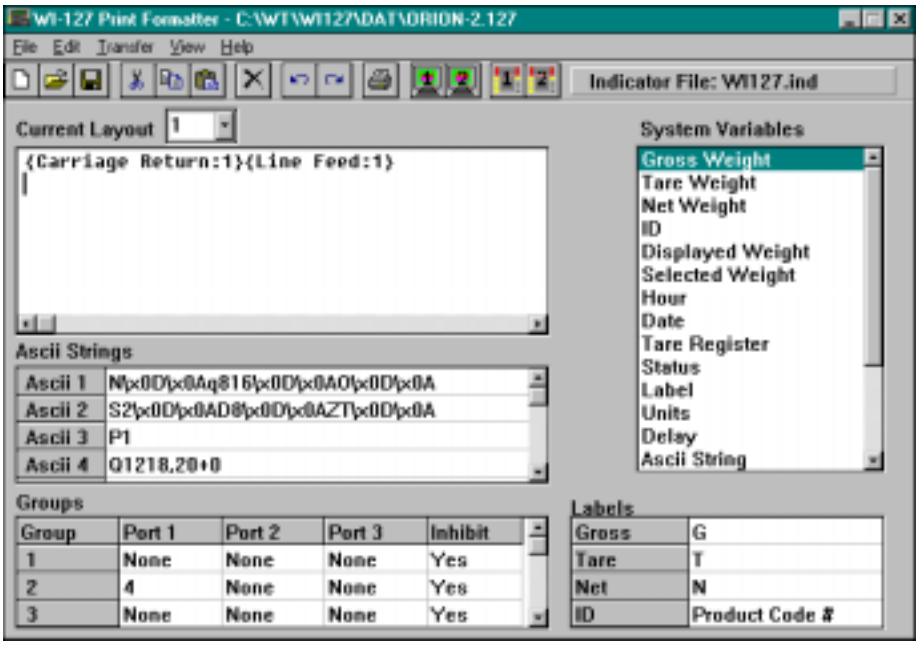
The appearance of the Format Editor window and a sample printout (with fictitious information) for each of these printers appears below.

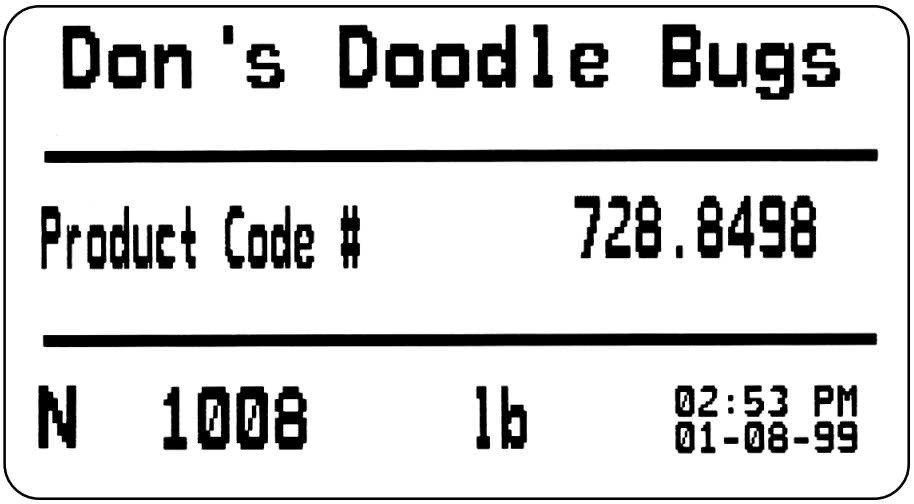
Orion-1.127



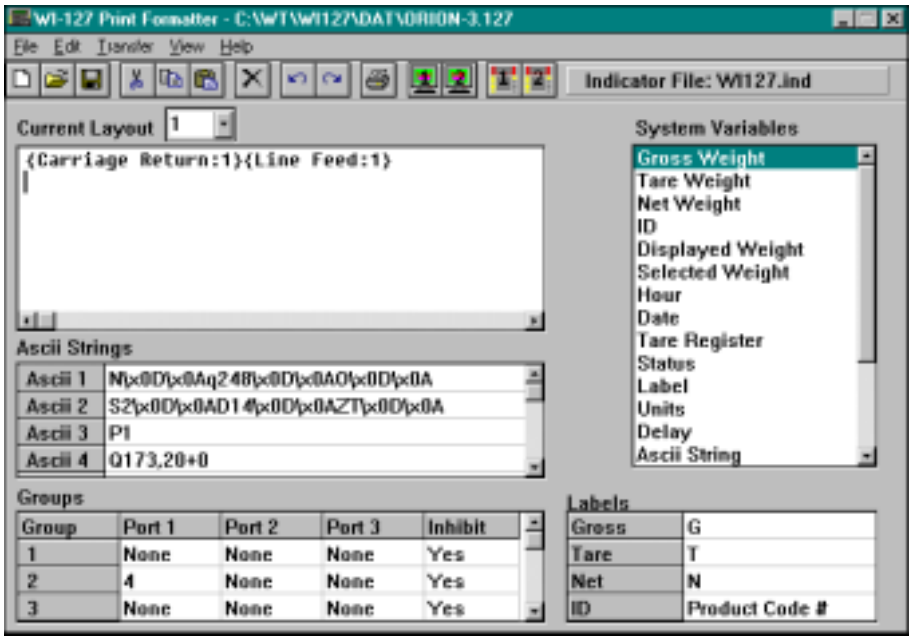


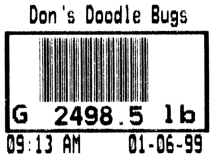
Orion-2.127


WI-127 Print Formatter - C:\WT\WI127\DAT\ORION-2.127
File Edit Transfer View Help
Indicator File: WI127.ind
Current Layout 1
{Carriage Return:1}{Line Feed:1}
System Variables
Gross Weight
Tare Weight
Net Weight
ID
Displayed Weight
Selected Weight
Hour
Date
Tare Register
Status
Label
Units
Delay
Ascii String
Ascii Strings
Ascii 1 N\x0D\x0Aq816\x0D\x0AO\x0D\x0A
Ascii 2 S2\x0D\x0AD8\x0D\x0AZT\x0D\x0A
Ascii 3 P1
Ascii 4 Q1218,20+0
Groups
Group Port 1 Port 2 Port 3 Inhibit
1 None None None Yes
2 4 None None Yes
3 None None None Yes
Labels
Gross G
Tare T
Net N
ID Product Code #


Don's Doodle Bugs
Product Code # 728.8498
N 1008 lb
02:53 PM
01-08-99

Orion-3.127

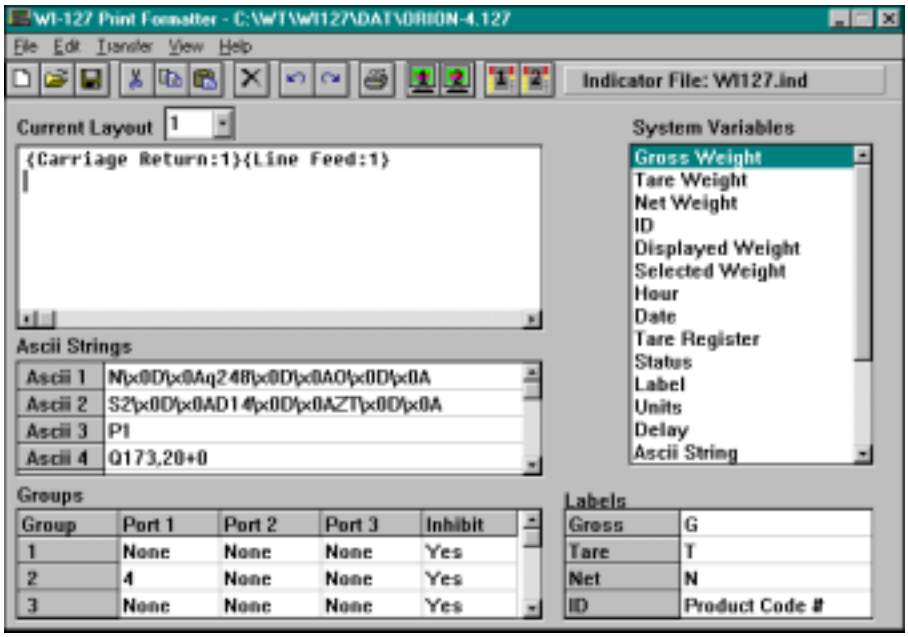




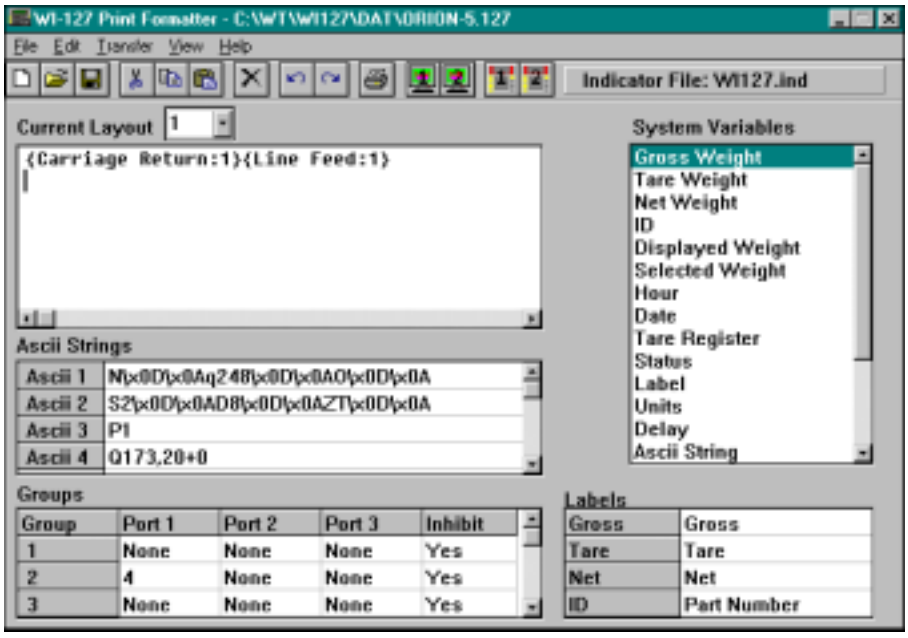
The data shown to the right is the Orion-3.127 file as seen in a text editor such as Notepad. The information is compiled by Create A Label software for the Orion printer. If you examine the ASCII strings in the screen capture at the top of this page, you can see some of this data in use along with ASCII hex values for CR and LF.

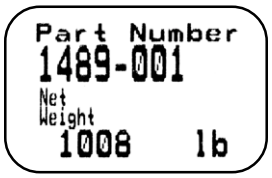
O	**Orion Printer**
q248	**Label size**
Q173,20+0	**Label size**
S2	
D14	**Print Density**
ZT	
A37,0,0,1,1,2,N,"Don's Doodle Bugs"	**Data- company name**
B47,35,0,3,1,2,69,B,"12340000"	**Data- displayed weight**
A18,106,0,1,2,2,N,"G"	**Data- label for displayed weight**
A177,106,0,1,2,2,N,"LB"	**Data- units for displayed weight**
LO10,28,218,4	**Data- box**
LO10,132,218,4	**Data- box**
LO10,31,5,102	**Data- box**
LO223,31,5,102	**Data- box**
A12,138,0,1,1,2,N,"12:00 pm"	**Data- time**
A142,138,0,1,1,2,N,"12/21/98"	**Data- date**
P1	**Number of labels to be printed**

Orion-4.127



Orion-5.127



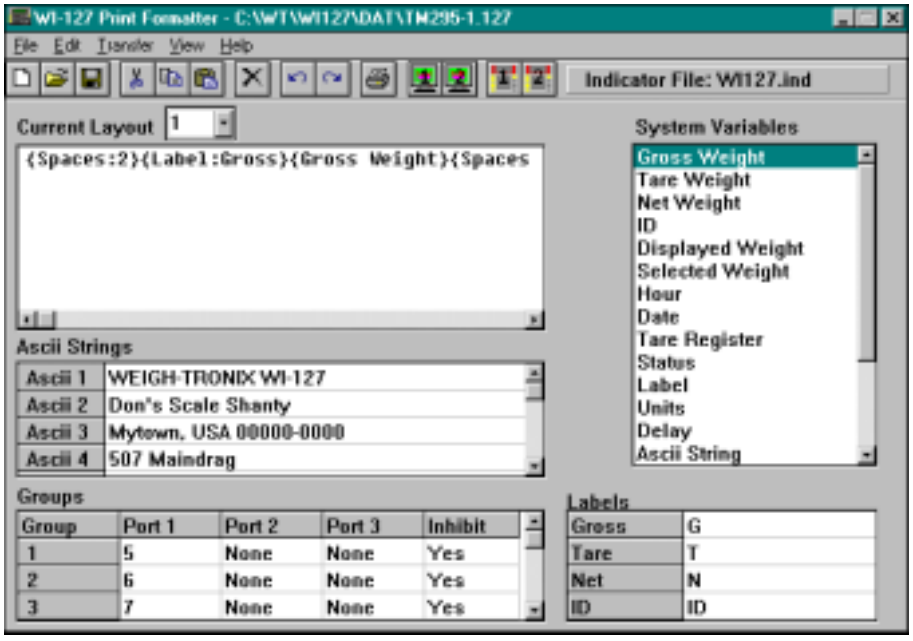


Rd125-1.127

The remote display will show the displayed weight in this format:

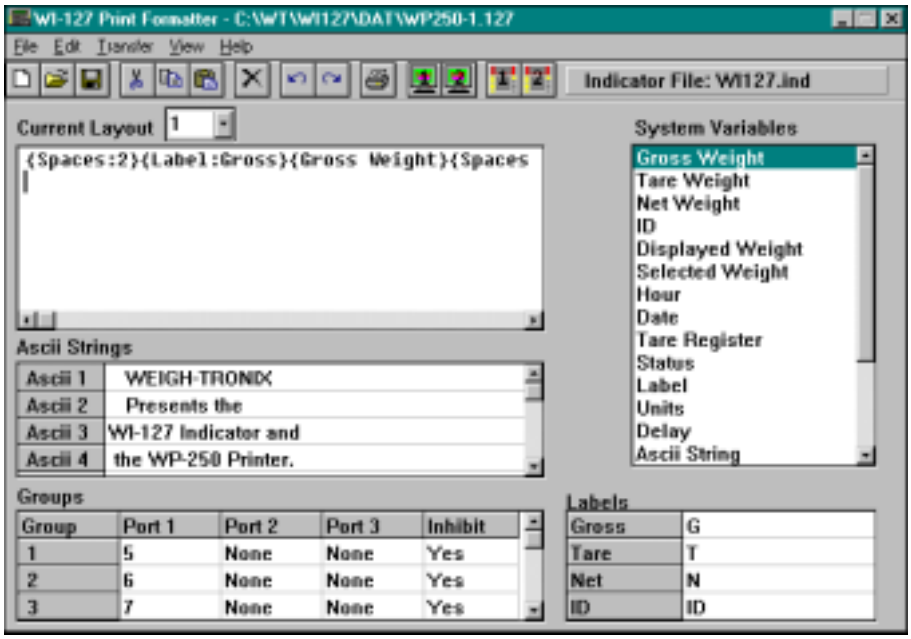
G 5000.5 LB

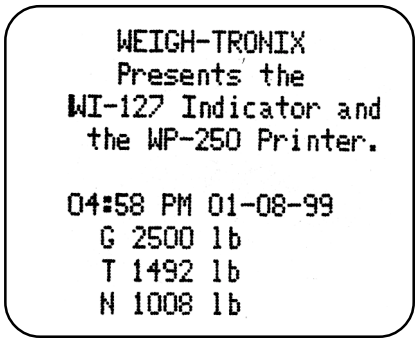
TM295-1.127




```
WEIGH-TRONIX WI-127

Don's Scale Shanty
Mytown, USA 00000-0000
507 Maindrag

04:27 PM 01-08-99

  G 2500 lb
  T 1492 lb
  N 1008 lb
```

WP250-1.127


WI-127 Print Formatter - C:\WT\WI127\DAT\WP250-1.127
File Edit Transfer View Help
Indicator File: WI127.ind
Current Layout 1
{Spaces:2}{Label:Gross}{Gross Weight}{Spaces
System Variables
Gross Weight
Tare Weight
Net Weight
ID
Displayed Weight
Selected Weight
Hour
Date
Tare Register
Status
Label
Units
Delay
Ascii String
Ascii Strings
Ascii 1 WEIGH-TRONIX
Ascii 2 Presents the
Ascii 3 WI-127 Indicator and
Ascii 4 the WP-250 Printer.
Groups
Group Port 1 Port 2 Port 3 Inhibit
1 5 None None Yes
2 6 None None Yes
3 7 None None Yes
Labels
Gross G
Tare T
Net N
ID ID


WEIGH-TRONIX
Presents the
WI-127 Indicator and
the WP-250 Printer.
04:58 PM 01-08-99
G 2500 lb
T 1492 lb
N 1008 lb

Appendix A: File Information Print Output

Following is an example of what is printed when you click the print button on the program window or select Print under File. This example is for the Default.127 file.

```
Weigh-Tronix Wl-127 Print Formatter Report
File Name: C:\SOURCE\WI127\DAT\DEFAULT.127
Indicator File: WI127.ind
Wl-127 Firmware Revision: 0019C
Current Time and Date: 2/10/99 10:08:43 AM

ASCII Strings:

ASCII 01
WEIGH-TRONIX WI-127

File Name: C:\SOURCE\WI127\DAT\DEFAULT.127
Labels:
Gross Label
G
Tare Label
T
Net Label
N
ID Label
ID

File Name; C:\SOURCE\WI127\DAT\DEFAULT.127
Groups:
Group# 1
Port#1: Layout# 5
Port#2: Layout# None
Port#3: Layout# None
Inhibit: Yes

Group# 2
Port#1: Layout# 6
Port#2: Layout# None
Port#3: Layout# None
Inhibit: Yes

Group# 3
Port#1: Layout# 7
Port#2: Layout# None
Port#3: Layout# None
Inhibit: Yes

Group# 4
Port#1: Layout# 8
Port#2: Layout# None
Port#3: Layout# None
Inhibit: Yes
```

```
Group# 5
Port#1: Layout# None
Port#2: Layout# None
Port#3: Layout# None
Inhibit: Yes

Group# 6
Port#1: Layout# None
Port#2: Layout# None
Port#3: Layout# None
Inhibit: Yes

Group# 7
Port#1: Layout# None
Port#2: Layout# None
Port#3: Layout# None
Inhibit: Yes

Group# 8
Port#1: Layout# None
Port#2: Layout# None
Port#3: Layout# None
Inhibit: Yes

Group# 9
Port#1: Layout# None
Port#2: Layout# None
Port#3: Layout# None
Inhibit: Yes

File Name: C:\SOURCE\WI127\DAT\DEFAULT.127
Layouts:

Layout# 1
{Spaces:2}{Label:Gross}{Gross
Weight}{Spaces:1}{Units}{Carriage Return:1}{Line Feed:1}

Layout# 2
{Tare Register}{Spaces:1}{Label: Tare}fTare
Weight}{Spaces:1}{Units}{Carriage Return:1}{Line Feed:1}

Layout# 3
{Spaces:2}{Label: Net}{Net
Weight}{Spaces:1}{Units}{Carriage Return:1}{Line Feed:1}

Layout# 4
{Spaces:1}{Label:Displayed}{Displayed
Weight}{Spaces:1}{Units}{Carriage Return:1}{Line Feed:1}

Layout# 5
{Layout:4}{Form Feed}

Layout# 6
{Layout:1}{Layout:2}{Layout:3}{Form Feed}
```

```
Layout# 7
 {Layout:1}{Layout:3}{Form Feed}

Layout# 8
{Layout:3}{Layout:2}{Form Feed}

Layout# 9
{Label:Displayed}{Displayed
Weight}{Spaces:1}{Units}{Spaces:1}{Hour}{Spaces:1}{Date}{Carriage
Return:1}{Line Feed:1}
```

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