

How to Access the Setup and Service Functions

Wright Tironix

TEST key - accesses all the setup and service functions.

Access the **PC-810** setup and service functions through the **TEST** key. When you press the **TEST** key a selection of soft keys become active. You choose what operation you want to perform by pressing one of the soft keys. Figure 3 shows the message display you will see after pressing the **TEST** key. Appendix A shows a flowchart of the soft keys associated with the **TEST** key.

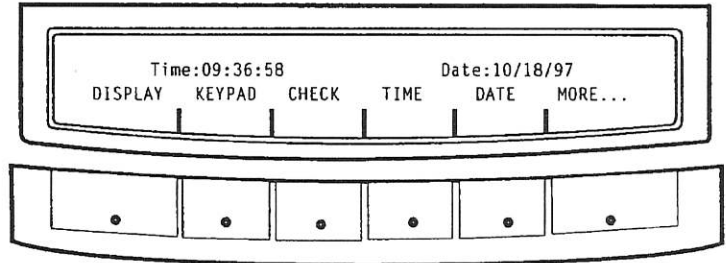


Figure 3
First display after pressing the **TEST** key.

These soft key functions are listed below:

- DISPLAY** - The display test exercises the displays one time and then the scale returns to normal operation mode.
- KEYPD** - The keypad test checks each key circuit. As each key is pressed, a key reference number is displayed indicating the key is functioning. Press **ESCAPE** to stop the test.
- CHECK** - The check test is a general system test and displays pass or fail.
- TIME** - Press this key to change the clock setting.
- DATE** - Press this key to change the date.
- MORE** - This soft key accesses more soft keys shown in Figure 4.

Time is always displayed in the 24 hour clock mode.

*MGR-359
SVC-6972
MFG-56684241*

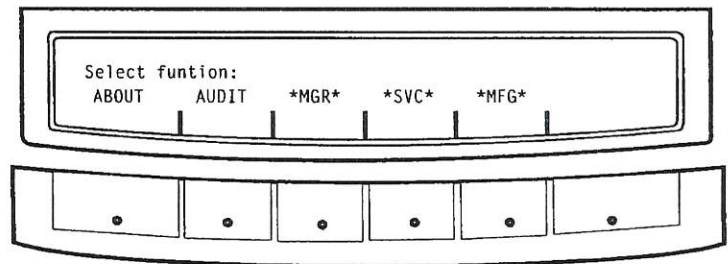


Figure 4
Next display after pressing the **MORE...** key

- ABOUT** - This key accesses a list of information about the **PC-810** and the development software used in its programming at the factory.
- AUDIT** - Press this key to display the audit count. This is the number of times something has been altered in the calibration setup of the PC-810.

- *MGR*** - This soft key accesses the parts database. Under this selection you can create, edit, and recall part numbers, piece weights, descriptions, and tare weights.
- *SVC*** - This soft key accesses all the rest of the setup and service functions you will need to customize your PC-810.
- *MFG*** - This soft key is used only by the factory.

Calibrating Your PC-810

The calibration of your PC-810 was completed at the factory but calibration is a common procedure performed by service departments so that is what's covered in this section of the manual.

From the normal weighing and counting mode, follow these steps to access calibration:

A complete flowchart showing the calibration procedure is in Appendix C.

1. Press the **TEST** soft key. . . The soft keys in Figure 3 appear.
2. Press the **MORE** . . . soft key. . . The soft keys in Figure 4 appear.
3. Press the ***SVC*** soft key. . . The display prompts you to key in the service password.
4. Key in the password and press the **ENTER** hard key. . . The soft keys shown in Figure 5 appear.

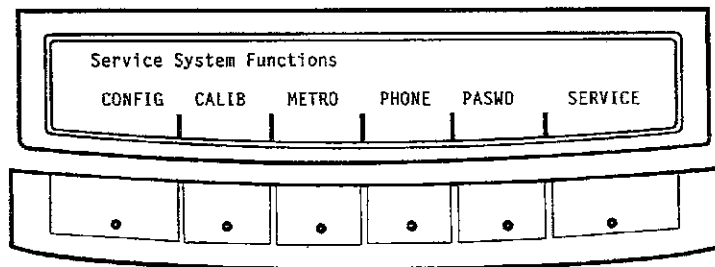


Figure 5
Service soft keys

5. Press the **CALIB** soft key. . . The soft keys in Figure 6 appear.

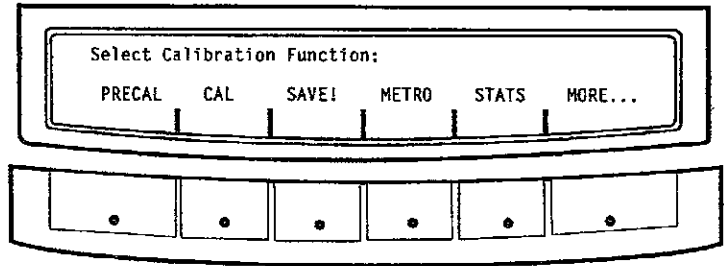


Figure 6
Calibration soft keys

Perform a PRECAL (pre-calibration) any time you change a cell or connect a new cell or remote base.

All remote multiple Weigh Bar bases report as one load cell.

To perform a calibration, press the **CAL** soft key and follow the prompts on the display. Weigh-Tronix recommends you use 100% of capacity for calibration.

Following is a description of the soft keys shown in Figure 6. A complete flow-chart showing these calibration functions appears in Appendix C.

PRECAL Press this key to set the following:

- Country Mode
- Line frequency
- The base to pre-calibrate
- The number of load cells in the base to calibrate
- The base capacity
- The base graduations

CAL Press this key to set the following:

- Calibration units
- The base to calibrate
- Calibration

SAVE This key will appear only if you have made a change in the calibration status of the scale. Press this soft key to save the changes you have made. After making all your changes and after you press **ESCAPE** to return to normal operation the scale will automatically ask you if you want to save the changes. This way you can never forget to save your changes.

METRO Press this key to access the Metrology test. This test lets you check stability and linearity, etc. The flowchart for this test is shown in Appendix B.

STATS Press this key to display the status of the local and remote base setups. The information shown is line frequency, number of load cells, capacity, and graduations.

MORE... Press this key and the soft keys in Figure 7 appear.

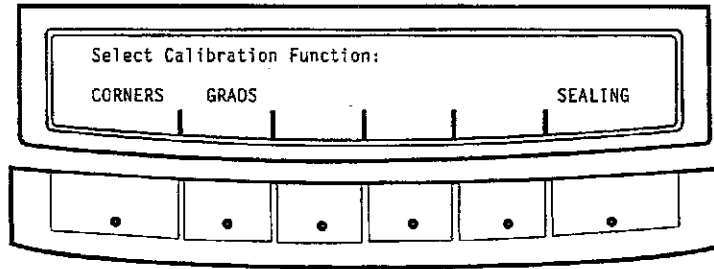


Figure 7
More calibration keys

CORNERS Not used at this time.

GRADS Press this key to change the graduations or resolution of your scale.

SEALING This key is for future use when the PC-810 is NTEP approved. It will limit the scale's resolution to NTEP values.

Customizing Your PC-810

This section deals with the many things you can do to customize your PC-810 to match a specific application need. The flowchart which ties all these processes together can be found in *Appendix C*.

From the normal weighing and counting mode, follow these steps to access the configuration selections:

1. Press the **TEST** soft key.
2. Press the **MORE. . .** soft key.
3. Press the ***SVC*** soft key.
4. Key in the password and press the **ENTER** key. . .
5. Press the **CONFIG** soft key. . .

The first display in Figure 8 appears. As you press the **MORE. . .** soft key the other soft keys in Figure 8 appear.

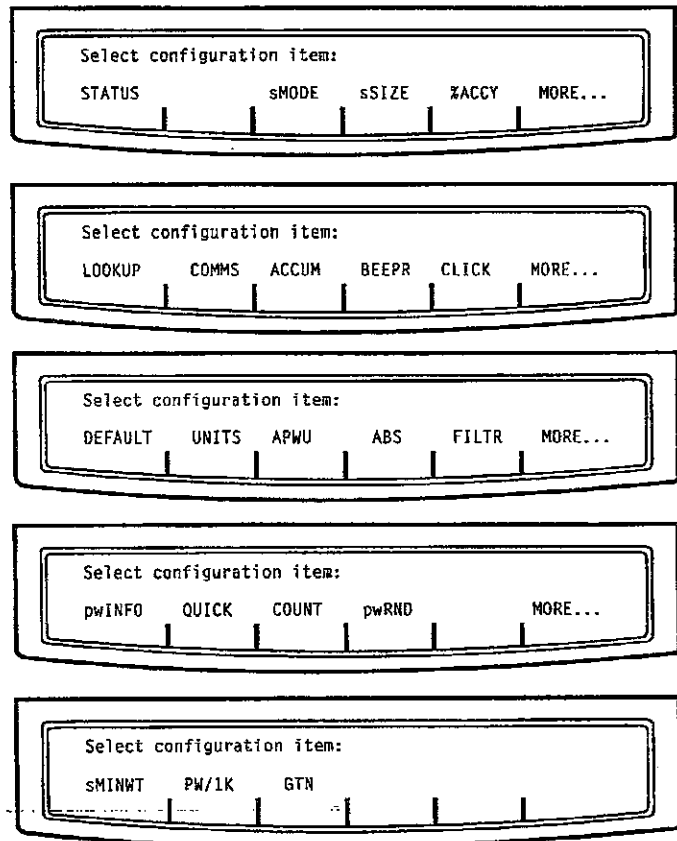


Figure 8
Configuration soft keys

Below is an explanation for each of these items. Use the flowchart in Appendix E to follow the processes and to help remind you where you are as you go through the different parameters. When you press each key the displayed message will help you make your configuration choices.

- STATUS** Stepping through this series of displays gives you a quick glimpse of the current setup of the PC-810.
- SAVE** Appears only after changes are made to configuration of the PC-810. Press it to save changes you have made.
- sMODE** Lets you choose dribble or bulk sampling. Default is dribble mode.
- sSIZE** Lets you choose a minimum sample size. Default is 5.
- % ACCY** Lets you enable and choose from 3 minimum accuracies (95, 98 and 99%). Default is off.
- LOOKUP** Lets you enable and select a piece weight lookup mode. Your choices are Part Number and PWLU. The **xPART** and **xPWLU** keys are for future use. Default is off
- COMMS** Accesses the communications menu. Use this to choose the peripheral device you want to communicate with, what the communication protocols are and what format the printout will be. See Appendix F for the flowchart. Default is off.

ACCUM	Lets you turn the accumulator function on or off. Default is off.
BEEPR	Lets you turn the Error/Reset beeper on or off. Default is on.
CLICK	Lets you turn the audible keyboard click on or off. Default is on.
DEFAULT	Lets you reset the PC-810 to factory defaults.
UNITS	Lets you select the units of measure, lbs, kg, grams, or lbs/kg/g. Default is lbs.
APWU	Lets you turn the automatic piece weight update mode on or off. Auto piece weight updating causes the scale to automatically update the piece weight when a second sample is weighed consisting of less than four times the number of parts weighed during the first sampling. The display will flash UPDATING briefly when this happens. This can help improve sampling accuracy as your counting operation continues. Default is off.
ABS	If a remote base is installed, this option lets you enable the auto base switching mode and to choose which base you want to sample on and which you want to use for counting. Default is off.
FILTR	Lets you select a filter setting (Slow, normal or fast). Slow filtering is used for poor weighing environments. Default is normal.
pwINFO	Turns the piece weight information scrolling function on or off. With this function enabled the piece weight information is accessible during normal weighing and counting operations. Default is off.
QUICK	Enables or disables the quick sample (X) key. Default is off.
COUNT	Enables or disables the count key. Default is on.
pwRND	Select piece weight rounding of OFF, .5, 1, or 2%. Default is off.
sMINWT	Lets you choose from one of four minimum sample weights. Default is .001%.
PW/IK	Press this key to enable the piece weight per 1000 function. Default is off.
GTN	Press this key and choose to enable or disable this function. If you enable it, The T/CLR key will cause a Net display to change to Gross display momentarily then back to Net if there is an active tare value. If you choose to have this function disabled, the T/CLR key will clear the tare value.

Setting Up Communications

You may have noticed a **COMMS** soft key in configuration. This is what you press to access the Communication section of configuration. This is where you set up your I/O port communication protocols and lay out your print format.

1. Press the **COMMS** soft key you see in Figure 8. . .

The soft keys shown in Figure 9 are displayed.

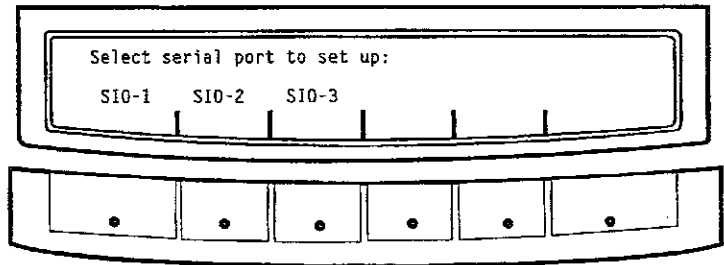


Figure 9
Serial soft keys

2. Press the soft key corresponding to the I/O port you want to set up. . .

The soft keys shown in Figure 10 are displayed. A flowchart for reference to these parameters is in Appendix F.

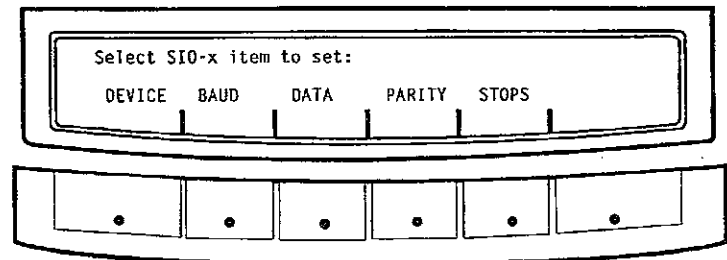


Figure 10
Serial I/O parameter soft keys

An explanation of each key is given below:

DEVICE Press this key to set up the device you want to communicate with. Your choices are:

- 1155LL printer
- WP- printer
- Personal Computer
- Scanner

When you choose one of the printers, you will be given the choice to edit the output format. Following the explanation of the soft keys is an in-depth explanation of how to edit the output format.

- BAUD** Press this key to select a baud rate of 1200, 2400, 4800, or 9600.
- DATA** Press this key to set data bits to 7 or 8.
- PARITY** Press this key to set parity to even, odd, or none.
- STOPS** Press this key to set stop bits to 1 or 2.

Editing Output Format

When you choose which kind of printer you want to use during communication setup, you are given an opportunity to edit the output format of the printer. If you press the **I155LL** or **WP-** soft key you will see the display in Figure 11:

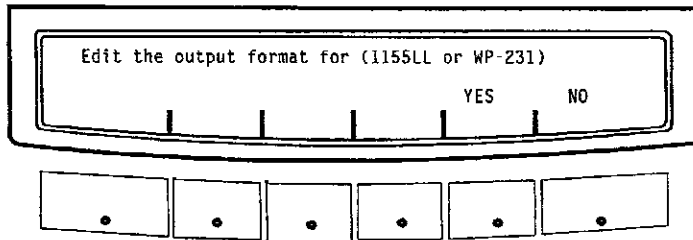


Figure 11

If you choose **NO** the display will return to the previous screen. If you choose **YES**, you will see the following:

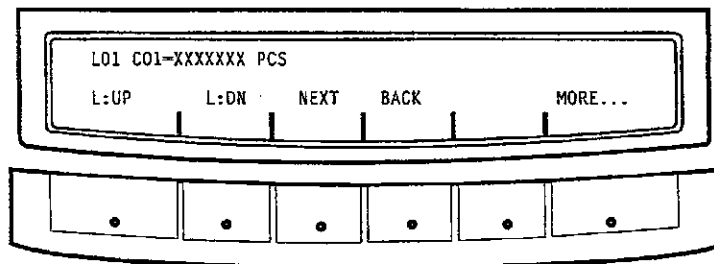


Figure 12

First set of format editing soft keys

Press the **MORE...** key and see these keys:

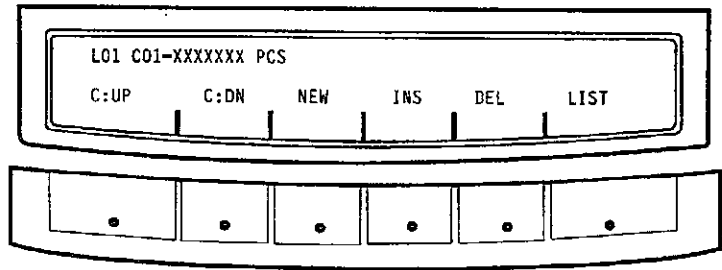


Figure 13
Second set of format editing soft keys

The top row of the message display tells you what line you are currently editing, in what column the information will start printing, and the information that will be printed. In the example shown in Figure 12, the number of pieces currently on the scale (xxxxxxx pcs) will be printed starting in the first column on the first line.

The soft keys you see in Figures 12 and 13 are explained below. Following these key descriptions is a table listing all the information you can print. They appear in the table in the order in which they appear on the display.

- L:UP** Press this key to view the current print format of the next higher line number.
- For example:** If the display shows you are currently viewing the format of Line #1 and you press **L:UP** the display will show the current format of Line #2.
- L:DN** Press this key to view the current print format of the next lower line number.
- NEXT** Scrolls to the next possible format.
- BACK** Scrolls to the previous possible format.
- MORE...** Causes the following keys to be displayed.
- C:UP** Moves the first printed character of the currently displayed format one column to the right.
- C:DN** Moves the first printed character of the currently displayed format one column to the left.
- NEW** Press this key to erase an old format and start over with no output formatted.
- INS** Press this key to insert a line and move all the following lines to the next higher line number.
- For example:** If you have a format on line 3 and want one inserted on line 3, press the **INS** key and then the **NEXT** key until the format you want is displayed. What was on line 3 is now on line 4 and so forth.

- DEL** Press this key to delete a line of formatting. All subsequent lines of format move to the next lower line number.
- LIST** Prints the current formats you have chosen.

When you are done formatting the output, press the ESCAPE key repeatedly until the display shows the level of the flowchart you want to see or escape all the way out of configuration. The PC-810 will prompt you to save any changes you have made.

Output Formats

Following are the output selections you can choose from. They appear in the order in which you will scroll through them as you hit the **NEXT** soft key.

<u>SELECTION</u>	<u>NON-PRINTED REFERENCE</u>
BLANK LINE (LINE FEED)	
XXX.XX UU NET	
XXX.XX	<net>
XXX.XX UU TARE	
XXX.XX	<tare>
XXX.XX UU GROSS	
XXX.XX	<gross>
X.XXXX UU PCWT	
X.XXXX	<pcwt>
XXXXXXXX PCS	
XXXXXXXX	<count>
XXX.XX UU NET (ACC)	
XXX.XX	<acc net>
XXXXXXXX PCS (ACC)	
XXXXXXXX	<acc count>
XXXXXXXX TC	
XXXXXXXX	<trans cnt>
SAMPLE SIZE: XXX	
XXX	<sample size>
ACCURACY: XX.X%	
XX.X%	<accuracy>
PART#:XXXXXXXXXXXXXXXXXXXX	
DESC1:XXXXXXXXXXXXXXXXXXXX	
DESC2:XXXXXXXXXXXXXXXXXXXX	
DESC3:XXXXXXXXXXXXXXXXXXXX	
XXXXXXXXXXXXXXXXXXXX	<part#>
XXXXXXXXXXXXXXXXXXXX	<desc1>
XXXXXXXXXXXXXXXXXXXX	<desc2>
XXXXXXXXXXXXXXXXXXXX	<desc3>
PWLU:XXXX	
XXXX	<pwlu>
hh:mm AM	<12 hr> example: 11:53 AM
hh:mm	<24 hr> example: 14:02
MM-DD-YY	<date> example: 12-25-94
DD-MMM-YY	<date> example: 25-DEC-94
ddd...	<day> example: TUESDAY
ddd	<day abbrv> example:TUE
MM-DD-YY (ddd)	<date> example: 12-25-94 (SUN)
DD-MMM-YY (ddd)	<date> example: 25-DEC-94 (SUN)
hh:mm AM MM-DD-YY ddd	<date> example: 11:53 AM 12-25-94 SUN
hh:mm AM DD-MMM-YY ddd	<date> example: 11:53 AM 25-DEC-94 SUN
hh:mm MM-DD-YY ddd	<date> example: 14:02 12-25-94 SUN
hh:mm DD-MMM-YY ddd	<date> example: 14:02 25-DEC-94 SUN
<FF> Form Feed Control (0C hex)	<--see note
End-of-Printout	<--printing will stop when this is reached

X represents a number, letter or decimal point as necessary to describe the weight, count or identification of an item.

The <FF> command is needed at the end of the command string for the WP-250 ticket printer.