WEIGH-TRONIX

WI-125 Indicator Series
Service Manual

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WI-125 Specifications

Dimensions:	Super Saver/Full Feature (Metal case)	3.5"H x 7.5"W x 6"D (8.89 cm H x 19.1 cm W x 15.2 cm D)
	WD (Wash Down) (Lexan case)	9.37" W x 6.75" H x 3.75" D (without mounting bracket) (23.8 cm x 17.1 cm x 9.5 cm)
Power:	Super Saver/Full Feature (Metal case)	Standard - Wall-mount transformer, 12 to 20 volts @ 133 mA, 60 Hz Optional - AC Version: 115/230 volts AC @ 13 mA, 50-60 Hz single phase
	WD (Wash Down) (Lexan case)	115 volts AC @ 50 mA / 230 volts AC @ 25 mA, 50-60 Hz single phase Optional - 12 VDC
Display:	8 digits, 7-segment LCD, 0.6 inch high with annunciators and backlighting (not available on Super Saver model)	
Display Averaging:	1 to 10 display periods	
Display Rate:	One, two or five times per second	
Agencies:	NIST Handbook 44, Class III, IIIL, 10,000 divisions Consumer and Corporate Affairs, Canada FCC Class A	
Accuracy :	Span: ±5.0 ppm/C Span: ±10 ppm/C	Zero: ±.066 uV/C (-10 to 40°C) Zero: ±0.13 uV/C (-30 to 60°C)
Linearity:	±0.005% of capacity, maximum	
Repeatability:	±0.005% of capacity, maximum	
Hysteresis:	0.005% of capacity, maximum	
Weigh bar drive capacity:	Up to eight 350 ohm weigh bars	
Environment:	-10 to 40°C (14 to 104°F) for HB-44 specs 10 to 90% relative humidity	
Internal Resolution:	810,000 at 3 mV/V. 1 mV/V = 270,000 counts	
A to D conversion rate:	30 times per second	
Analog Range:	-0.14 to +3.5 mV/V	
Capacity:	0.1 to 999999, programmable to any number between these limits.	
Divisions:	.0001 to 20000, programmable to any division size between these limits.	
Push Button Zero Range:	0 to ±100% of capacity; programmable independent positive and negative limits; unit will not allow zeroing beyond capacity.	
Tare:	The unit may be configured to have pushbutton tare which can function as a scroll tare register (not applicable to Super Saver version). Pushbutton tare and scroll tare may tare only positive gross weights up to the capacity of the unit. Scroll tare allows numeric entry of a tare value using two keys to enter the value.	
Motion Detection Window:	Programmable from 0 to 999999 divisions, decimal entries are accepted.	
Automatic Zero Tracking:	Window: Programmable from 0 to 999999 divisions, decimal entries are accepted.	
	Net Mode Tracking: Rate: Starting Delay:	 May be enabled or disabled 0.1 division per second 2 seconds
Linearity Adjustment:	Second order correction provides smooth curve fit through three points--zero, linearity, span.	
VIBRATION COMPENSATION		
Analog Low Pass Filter:	Two section with .10 second time constant for low power analog and .06 second time constant for standard analog.	
Software Low Pass Filter:	One section with .05 second time constant.	

Introduction

This service manual will help you prepare your WI-125 indicator for use. This manual covers the following:

- Introduction
- Operational Modes
- Sealing the Indicator
- Keyboard
- Configuration Mode

Operational Modes

The WI-125 operates in three modes:

- operations mode
- test mode
- configuration mode

Operations Mode

** ID, scroll tare, time, date, and backlight are not available on the Super Saver model.*

Operations mode contains all normal weighing operations. In this mode you can view or set the following parameters if the unit is so configured:

- ID entry*
- pushbutton tare or scroll tare*
- time*
- date*
- backlight*

Any combination of these items can be secured behind a security code. Any items secured by the code number can be viewed but not changed. Operations mode is fully explained in the *User's Manual*.

Test Mode

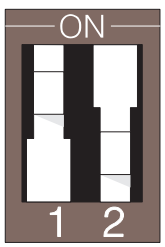
Use the test mode to perform tests on the WI-125. The test mode is covered in the *User's Manual*.

Configuration Mode

Use configuration mode to setup options and program the operation of the scale and indicator. Configuration is explained fully in the *Configuration Mode* section of this manual.

Sealing the Indicator

The WI-125 can be sealed. If sealed, no configuration items can be changed in the configuration menu. Seal the unit by placing switch S1-1 in the OFF position. Unseal the unit by placing S1-1 in the ON position. Remove the front panel of the indicator to gain access to switch S1-1. The switch is located near the bottom corner of the PC board behind the display and looks like the diagram at right.



Keyboard

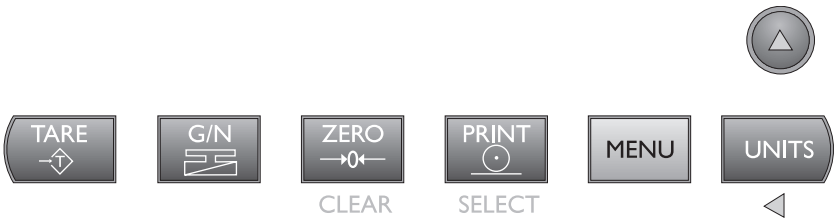


Figure 1
WI-125 Keyboard

Key Functions

TARE key	Enters a pushbutton tare in gross/net operation.
GROSS/NET key	Accesses the gross weighing mode from any other function and activates the net weighing mode if a tare is active.
ZERO key	Zeros the scale in gross or net weigh mode. This button also clears scrolled digits on the display before they are accepted.
PRINT key	Sends a print command and is used to select menu items.
MENU key	Used to access menus and move among choices in a menu.
UNITS key	Changes the unit of measure during operations mode. This key also moves one space to the left any digit that has been scrolled in with the - key .
UP ARROW key	Lets you scroll through numerical values and the decimal point.

Entering Numbers with Arrow Keys

*If at any time you enter an incorrect number, press **CLEAR** to delete the number, then re-key.*

The arrow keys are used to enter numbers. Refer to this section when you need to enter a number or numbers.

Example: To key in the number 63.2

Press the ↑ key repeatedly until the 6 appears on the display.

Press the ← key once to move the 6 one space to the left.

Press the ↑ key until 3 appears.

Press the ← key once to move the 63 one space to the left.

Press the ↑ key until the decimal point appears. (The decimal appears after the 9 as you scroll through the numbers with ↑ key.)

Press the ← key once to move the 63. one space to the left.

Press the ↑ key until 2 appears.

(Continue with instructions or press **G/N** to return to normal weigh mode.)

Configuration Mode

This section of the manual explains how to view and set up parameters in the configuration mode. Follow the configuration menu and instructions in Figure 2 to set up the WI-125 indicator to suit your specific needs. Below are explanations for each section of the menu. The non-bold heading for each section is the pathway you follow on the configuration menu to get to the parameter or parameter options shown in bold text.

Sidestepping Security Code Entry to Configuration

In case you forget the security code or the security code is altered without your knowledge, access the configuration menu as follows: First, flip switch S1-1 OFF (or into the sealed position). Next, enter the default code number, 125. Get into the configuration menu as instructed in the key to Figure 2. When ***CODE NUMBER*** is displayed in the menu, flip switch S1-1 from OFF to the ON position. Understand that opening the indicator to access the switch unseals the indicator! Then enter a new code number—twice, as the display prompts. Now you have complete access to the configuration menu.

Setup, Scale, Units-
Pounds, 1000g

Under each unit of measure you have the option of selecting *ON* or *OFF*. Choosing the *OFF* option under a unit of measure disables that unit of measure. If a unit is disabled, it will not appear in the configuration menu under *CAPACITY* or *DIVISION* nor will you be able to choose it during weighing procedures.

Setup, Scale, Units, Capacity-
Pounds, 1000g

This menu section lets you set the scale capacity for those units of measure enabled under *UNITS*.

Setup, Scale, Units,
Capacity, Division-
Pounds, 1000g

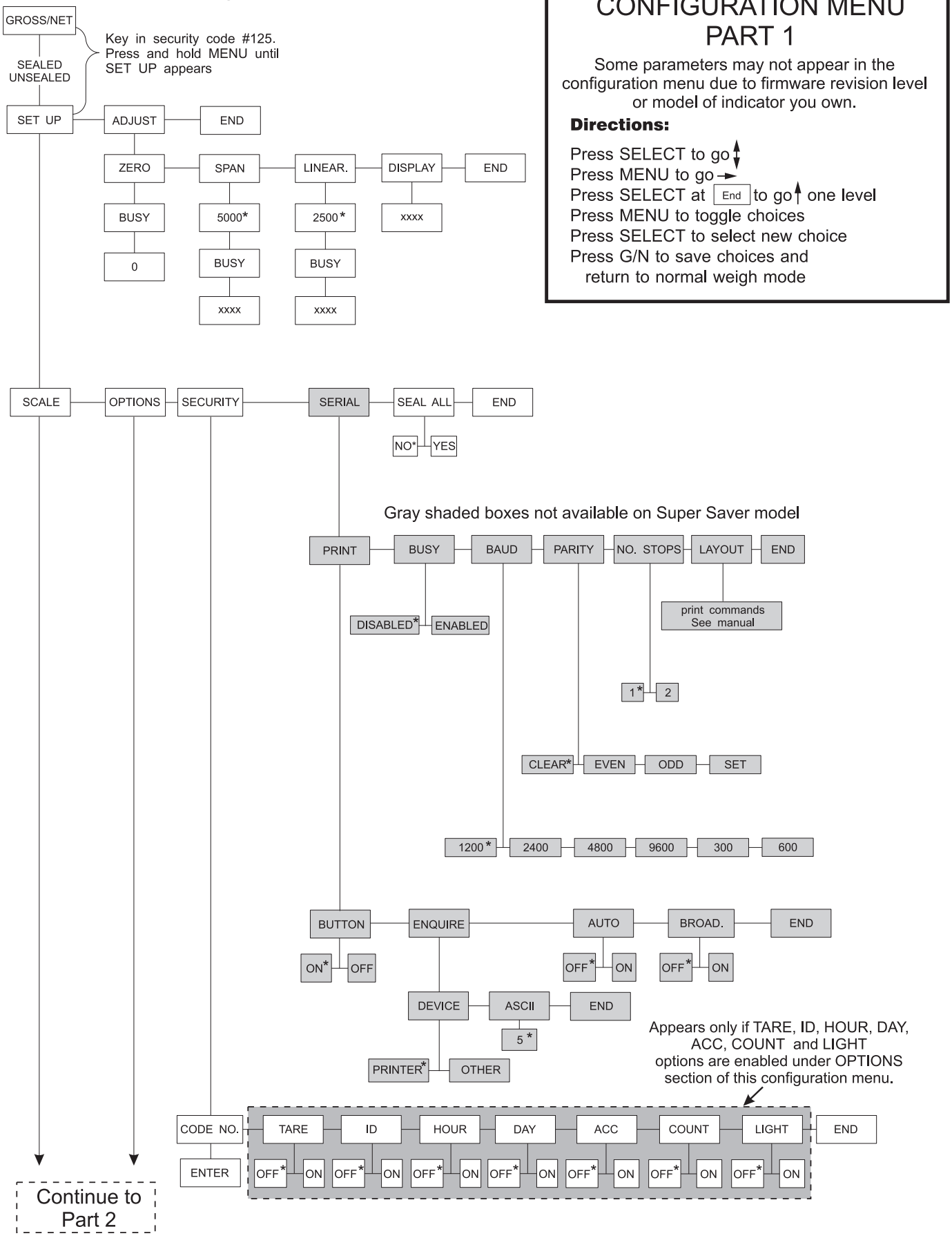
This option lets you set the division size for the units of measure enabled under *UNITS*.

One feature not readily apparent is that the number of displayed leading zeros can be specified. For example; for 10 pound divisions, if you want 5 zeros displayed when no weight is on the scale, key in 00010 for a division size. The display will read 00000 when the scale is empty. If you want two zeros displayed when the scale is empty, key in a division size of 10.

Setup, Scale, Units, Capacity,
Division, Zero-
-Percent, Percent

With this option you can set the plus and minus percent of capacity the indicator can zero. For example, if the capacity of the scale is 10000 lb and the zero range is ±2%, key in 2 for both the positive and negative ranges. You may key in decimal values.

Figure 2
Configuration Menu



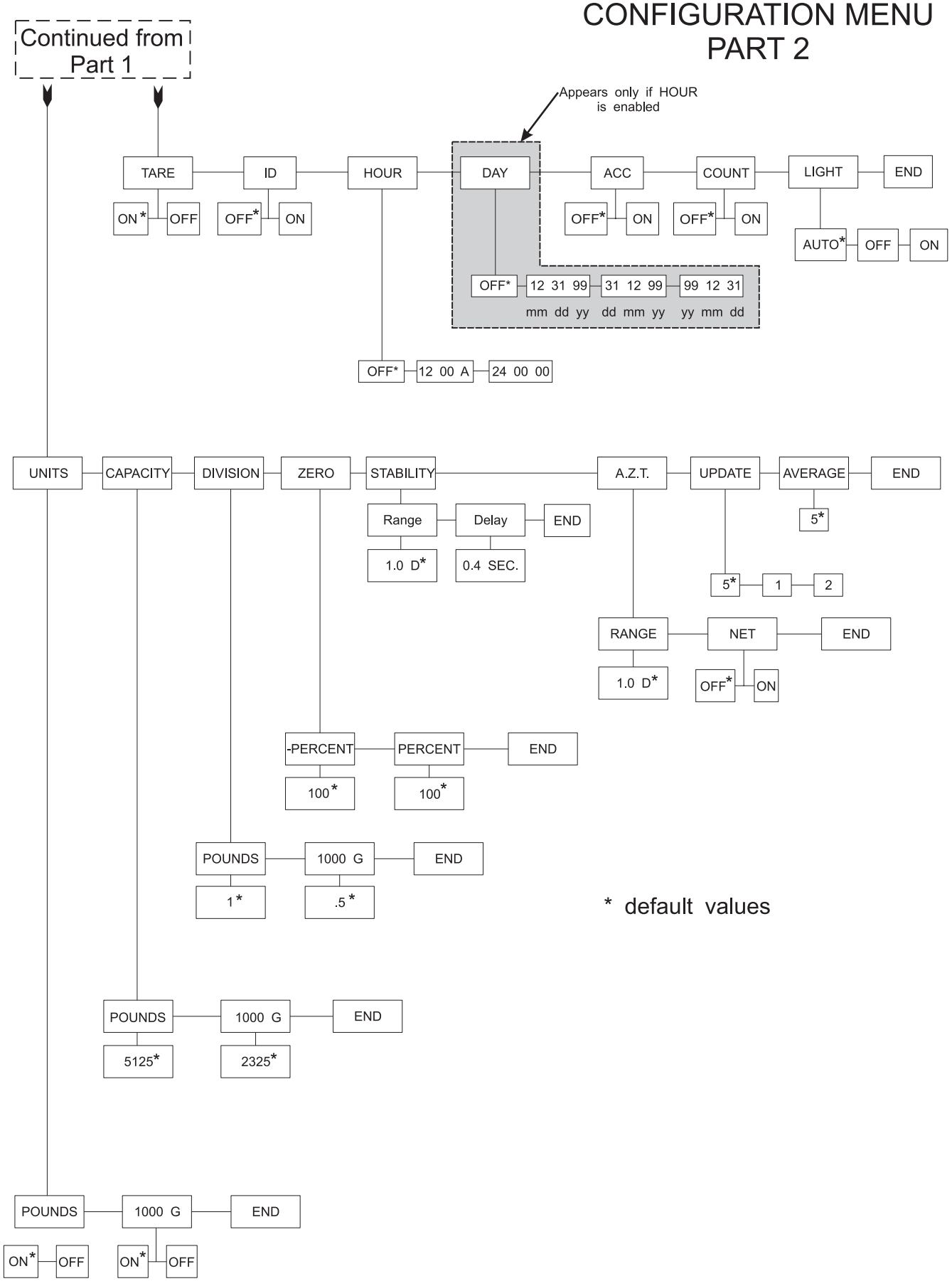
CONFIGURATION MENU PART 1

Some parameters may not appear in the configuration menu due to firmware revision level or model of indicator you own.

Directions:

Press SELECT to go ↕
Press MENU to go →
Press SELECT at End to go ↑ one level
Press MENU to toggle choices
Press SELECT to select new choice
Press G/N to save choices and
return to normal weigh mode

CONFIGURATION MENU
PART 2



* default values

Setup, Scale, Units, Capacity, Division, Zero, Stability- **Range, Delay**	This option lets you set the size (**Range**) of the motion detection window in divisions. You may enter decimal values less than one or up to 999999 which turns off the motion detection. **Delay** configures the amount of time the weight must be within **Range** before the weight is considered stable. This value can be from 0.0 up to 10 seconds in decimals or whole seconds. Default is 0.4 sec.
Setup, Scale, Units, Capacity, Division, Zero, Stability, A.Z.T.- **Range, Net**	Range: With this option you can set the ± automatic zero tracking window in scale divisions. To turn off AZT, enter a range of 0. Net: If an AZT range is set, *NET* will appear in the menu. This option lets you choose to enable AZT during net weighing operations (ON) or disable it (OFF). The gross weight must be zero for AZT to work in net mode.
Setup, Scale, Units, Capacity, Division, Zero, Stability, A.Z.T., Update- **5, 1, 2**	Choose the rate at which your display updates information, 1, 2, or 5 times per second. Five is the default value.
Setup, Scale,Units, Capacity, Division,, Zero, Stability, A.Z.T., Update- **Average**	This option allows you to choose the number of display update period(s) over which the data are internally averaged prior to being displayed. Any number between 1 and 10 may be entered. Five is the default value.
Setup, Scale, Options- **Tare**	Choosing ON enables the pushbutton tare. Choosing OFF disables the pushbutton tare. If pushbutton tare is disabled, **TARE** will not appear in the operations menu.
Setup, Scale, Options, Tare- **ID**	Choosing ON enables the identification number entry. Choosing OFF disables this function. If ID is disabled, **ID** will not appear in the operations menu.
Setup, Scale, Options, Tare, ID- **Hour** (requires optional circuitry to retain time upon power loss)	With this option you can choose to have the clock disabled (OFF) or the mode of clock you want. You can choose the 12 hour clock display or the 24 hour clock display. If the clock is disabled, HOUR will not appear in the SECURITY section of this menu and DAY will not appear in the OPTIONS or SECURITY section of this menu.

Setup, Scale, Options, Tare, ID, Hour- **Day** (requires optional circuitry to retain date upon power loss)	This option lets you choose to disable the calendar (OFF) or choose the mode of calendar display you want. You can choose to display the days (**dd**), months (**mm**), and year (**yy**) as **mm dd yy**, or **dd mm yy**, or **yy mm dd**. If DAY is disabled, DAY will not appear in the SECURITY section of this menu.
Setup, Scale, Options, Tare, ID, Hour, Day - **Acc**	This option lets you enable or disable the weight accumulator function.
Setup, Scale, Options, Tare, ID, Hour, Day, Acc - **Count**	This option lets you enable or disable the count function. This is the total number of weighments in an accumulated weight.
Setup, Scale, Options, Tare, ID, Hour, Day, Acc, Count - **Light**	Use this option to enable the auto backlight or turn it off.
Setup, Scale, Options, Security- **Code No.**	This option lets you change the configuration access code number to a personalized security code number.
Setup, Scale, Options, Security, Code No.- **Tare, ID, Hour, Day, Acc, Count, Light**	Under each item you have the option of choosing OFF to leave the option unlocked or choosing ON to lock the option behind the security code. If ON is chosen you can view but not change that parameter value in the operations menu.
Setup, Scale, Options, Security, Serial, Print- **Button**	Choosing OFF disables the front panel **PRINT** button. Choosing ON enables the front panel **PRINT** button.
Setup, Scale, Options, Security, Serial, Print, Button- **Enquire**	This submenu allows you to choose a printer or other device which will send an enquire code to the indicator. You may select the ASCII code number you wish to recognize as the enquire code number. ASCII decimal 0005 is the default value. If a device sends the enquire code number to the indicator, the indicator will recognize the value, then transmit weight data. If a computer sends the enquire code number, the Button, Auto and Broad. selections are overridden and will not function.

Setup, Scale, Options, Security, Serial, Print, Button, Enquire-
Auto

With auto print enabled the indicator automatically transmits weight data when the scale weight stabilizes at greater than 1% of capacity. To print again, scale weight must fall below 1% of capacity and stabilize above 1% of capacity again. OFF disables the auto print feature. ON enables the auto print.

Setup, Scale, Options, Security, Serial, Print, Button, Enquire,Auto-
Broad.

Broad. stands for broadcast. If you enable (ON) broadcast, weight data is transmitted at the display rate. Choosing OFF disables the broadcast. If broadcast is enabled, the Button, Enquire, and Auto selections are overridden and will not function.

Setup, Scale, Options, Security, Serial, Print, Busy-
Disabled, Enabled

Disables or enables the hardware ready/busy (CTS/DTR) line. If your printer does not have a ready/busy (CTS/DTR) line, this parameter must be set to disabled. If your printer has a ready/busy (CTS/DTR) line, you can enable this parameter so the indicator will know if the printer is ready or busy (Clear To Send/Data Terminal Ready).

Setup, Scale, Options, Security, Serial, Print, Busy, Baud-
1200, 2400, 4800, 9600, 300, 600

This option lets you choose the baud rate for your printer or device.

Setup, Scale, Options, Security, Serial, Print, Busy, Baud, Parity-
Clear, Even, Odd, Set

This option lets you choose parity as even, odd, clear (logic 0 or space), or set (logic 1 or mark).

	Data Bits	Stop Bits	Parity
Set	7	2	none
Clear	8	1	none
Mark	7	2	none
Space	8	1	none
Odd	7	1 or 2	odd
Even	7	1 or 2	even

Setup, Scale, Options, Security, Serial, Print, Busy, Baud, Parity, No. Stops-
1, 2

With this option you can set the number of stop bits as 1 or 2.

Setup, Scale, Options, Security, Serial, Print, Busy, Baud, No. Stops-

Layout

This section assumes you have the time/date option card and that the parameters are all enabled.

Status byte = 8 bits

Transmitted as a single character. The bits appear as follows: 0011LEBM
L has a weighted value of 8
E has a weighted value of 4
B has a weighted value of 2
M has a weighted value of 1

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.

These are the most common characters you will see on a terminal:
"0" = Stable
"1" = In-motion
"2" = Range error
"4" = A-D error
"8" = Low voltage

*Remember, press **SELECT** to move up or down a level in the menu structure, and press **MENU** to move left or right.*

Use this print-layout option to customize the physical arrangement of your printed information. The next several pages deal with the layout of your printed output. The rest of the documentation on configuration follows this layout section.

You may print the following items:

- Time
- Date
- Bare wt.
- Gross weight
- Net weight
- Tare weight
- Displayed weight
- ID number
- Custom wording you choose
- Status (see note at left.) Status is available to print only if Broadcast or Other is enabled under Enquire/Device.

There are 10 print commands you use to print these 10 items. They are:

Print Command	**Item**
HOUR	Time
DAY	Date
GROSS	Gross weight
NET	Net weight
BARE	Weight digits without G, T, N or lb/kg
TARE	Tare weight
DISPLAY	Displayed weight
ID	Identification number
ASCII	Custom wording (ASCII string)
STATUS	Status of the scale
delete	Used to delete an item

Figure 3 shows a sample of the default printout generated when you press the **PRINT** key on a new indicator and the layout menu in Figure 4 shows the default order of print commands.

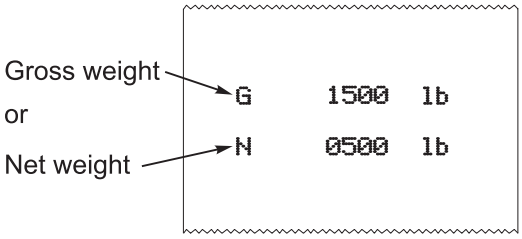


Figure 3
Default shows displayed weight, Gross or Net

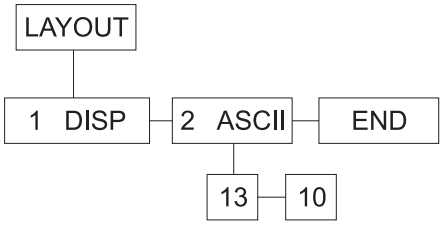


Figure 4
Default Layout Menu

Customizing the Layout Menu

The default layout menu can be changed to suit your needs. Any of the seven print commands can be deleted or rearranged to accomplish this customization.

As in the other WI-125 menus, the **SELECT** key opens up the next level of the menu. There is one more level of information under the print commands in the layout menu.

This information may be one of two types:

- an ASCII string or
- a layout submenu.

ASCII Strings

ASCII strings are stored under the ASCII layout print commands, such as Nos. 1, 3, 5, 7, etc. (see Figure 4). An ASCII string is a sequence of ASCII code numbers. Each code number is preceded on the indicator display by a sequence number. See Figure 5. You view these sequence numbers and ASCII code numbers by repeatedly pressing **MENU**. These ASCII strings contain the codes for your custom wording.

*ASCII is an acronym for **A**merican **S**tandard **C**ode for **I**nformation **I**nterchange. ASCII codes are just numbers a computer can translate into letters, numbers and instructions. See Table 2.*

Figure 5 shows the default ASCII string under the *1 ASCII* layout print command. Table 1 shows the relationship between this sequence of codes and the output of the printer. You can change the ASCII string or delete it entirely to suit your needs. To delete an ASCII layout print command from the layout menu you first need to delete the entire sequence of ASCII code numbers which are stored in that ASCII layout print command.

As you enter ASCII code numbers, the display may read *FULL* when you try to enter a code number. This means the memory allocated to the print layout is full. You must rearrange or delete some of the items you want printed for your customized printout.

Find complete instructions for these procedures in the section *Examples and Step by Step Instructions*.

Layout Submenu

Under each non-ASCII layout print command (*GROSS, TARE*, etc.) is a layout submenu. The layout submenu contains all available layout print commands and a *DELETE* command. From this submenu you select what you want printed and in what order. The same submenu is available in every case, but the currently selected item is always offered first. See Figure 6.

To delete a layout print command: With the layout print command you wish to delete on the display, press **CLEAR**.

Find complete instructions for these procedures in the section *Examples and Step by Step Instructions*.

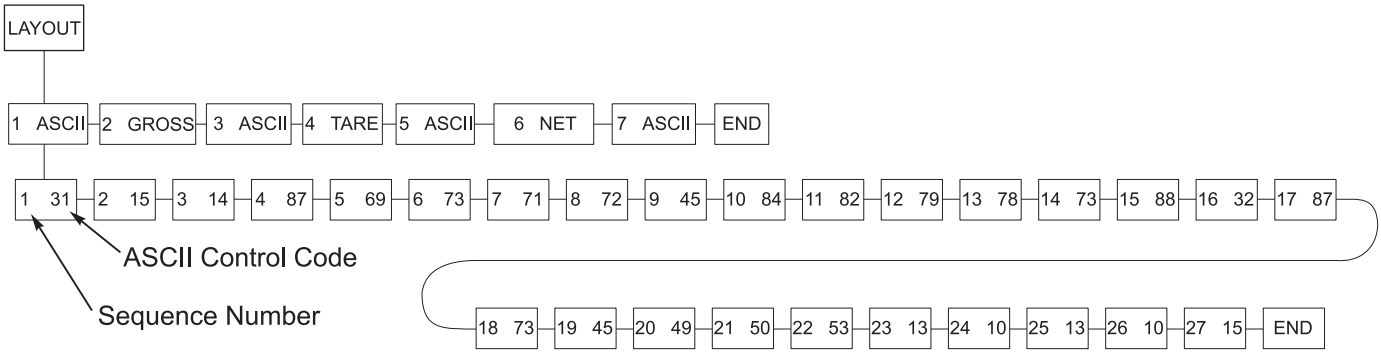


Figure 5
ASCII Control Code under the Print Command, 1 ASCII

In Figure 5, the **MENU** key advances you through the ASCII control-character displays. The **SELECT** key returns you to the *1 ASCII* display. (See Table 1 below.)

#31-	Sets IMP printer to 40 column print mode	#73-	I
#15-	Makes double wide characters until a carriage return	#88-	X
		#32-	Space
#14-	Makes double high characters until a carriage return	#87-	W
		#73-	I
#87-	W	#45-	–
#69-	E	#49-	1
#73-	I	#50-	2
#71-	G	#53-	5
#72-	H	#13-	Carriage return (CR)
#45-	–	#10-	Line feed (LF)
#84-	T	#13-	Carriage return (CR)
#82-	R	#10-	Line feed (LF)
#79-	O	#15-	Sets next line's characters to double wide
#78-	N		

Table 1
ASCII Control Characters under the Print Command, 1 ASCII

Figure 6 represents alternate choices of preformatted data.

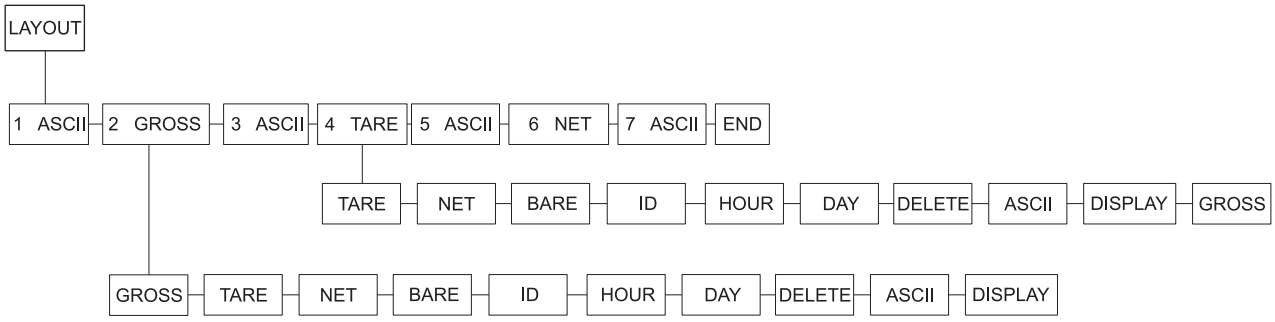


Figure 6
Layout Submenu, 2 GROSS or 4 TARE

Examples and Step by Step Instructions

Example A:
If you want to change the second print command in Figure 4 from *2 GROSS* to *2 HOUR:* with *2 GROSS* displayed, press **SELECT**. Now scroll to the *HOUR* print command in the submenu and press **SELECT** to select it. The print command *2 GROSS* is now changed to *2 HOUR.*

Example B:
If you want to delete the second print command (*2 GROSS)* in Figure 4: with *2 GROSS* displayed, press **CLEAR**. This deletes the *2 GROSS* print command from the layout and *3 ASCII* becomes *2 ASCII, 4* becomes *3,* etc.

Below is a list of procedures to customize your layout. The steps for each procedure are explained below the list. Use the appropriate procedure or procedures to customize your layout to your liking. These step by step instructions relate to the layout shown in Figure 5.

- Deleting one ASCII code number from an ASCII string
- Deleting all the ASCII code numbers in an ASCII string
- Deleting an ASCII print command after the ASCII code numbers are deleted
- Deleting a non-ASCII layout print command from the layout menu
- Inserting a non-ASCII print command in the layout menu
- Adding ASCII code numbers to an ASCII string

Deleting one ASCII code number from an ASCII string

For example, to delete the hyphen in WEIGH-TRONIX you need to delete the ASCII control code number for the hyphen. In Table 1 you can see that this is #45. In Figure 5, the 9th ASCII control code is code #45.

With ***9 45*** displayed, press **CLEAR** twice. . . .

CLEAR deletes the value and deletes that step in the string. When you delete #9, #10 becomes #9, etc.

Deleting all the ASCII code numbers in an ASCII string

For example, to delete the entire line of text at the top of the printout shown in Figure 3 you need to delete all the ASCII control code numbers under the *1 ASCII* display shown in Figure 5.

With the first ASCII control code number of the string displayed *(1 31)*, press **CLEAR** repeatedly until ***END*** is displayed. When ***END*** is displayed press **SELECT** . . .

1 ASCII is displayed. All the control characters under it are now gone.

Deleting an ASCII layout print command after the ASCII code numbers are cleared

With ***1 ASCII*** displayed, press **CLEAR**. . .

The item is removed from the layout menu and all the following items move up one number value on the menu. What was item 2 becomes item 1, etc.

Deleting a non-ASCII layout print command from the layout menu

For example, to delete ***2 GROSS*** from the menu, display ***2 GROSS***, then press **CLEAR**. . .

The item is removed from the layout menu and all the following items move up one number value on the menu. What was item 2 becomes item 1, etc.

Inserting a non-ASCII print command in the layout menu

Inserting any layout print command in the layout menu works in the same way.

For example, let's reinsert *GROSS* in the #2 position. The display shows ***2 ASCII,*** the layout menu item currently in the #2 position. Press ←. . .

The layout submenu shown in Figure 6 appears. Scroll through the layout submenu by pressing **MENU**. When ***GROSS*** is displayed press **SELECT**. ***2 GROSS*** is displayed showing that it has been inserted in the second position. ***2 ASCII*** becomes ***3 ASCII****, etc.*

Table 2 ASCII Control Codes

Code #	Control Character	Code #	Control Character	Code #	Control Character	Code #	Control Character
0	NUL	33	!	66	B	99	c
1	SOH	34	"	67	C	100	d
2	STX	35	#	68	D	101	e
3	ETX	36	$	69	E	102	f
4	EOT	37	%	70	F	103	g
5	ENQ	38	&	71	G	104	h
6	ACK	39	'	72	H	105	i
7	BEL	40	(	73	I	106	j
8	BS	41	)	74	J	107	k
9	HT	42	*	75	K	108	l
10	Line Feed	43	+	76	L	109	m
11	VT	44	,	77	M	110	n
12	Form Feed	45	_	78	N	111	o
13	Carriage Return	46	.	79	O	112	p
14	S0	47	/	80	P	113	q
15	S1	48	0	81	Q	114	r
16	DLE	49	1	82	R	115	s
17	DC1	50	2	83	S	116	t
18	DC2	51	3	84	T	117	u
19	DC3	52	4	85	U	118	v
20	DC4	53	5	86	V	119	w
21	NAK	54	6	87	W	120	x
22	SYN	55	7	88	X	121	y
23	ETB	56	8	89	Y	122	z
24	CAN	57	9	90	Z	123	{
25	EM	58	:	91	[	124	l
26	SUB	59	;	92	\	125	}
27	ESC	60	<	93	]	126	~
28	FS	61	=	94	^	127	Delete
29	GS	62	>	95	-		
30	RS	63	?	96	`		
31	US	64	@	97	a		
32	Space	65	A	98	b		

NOTE: Refer to your printer or computer's User's Manual for special control codes that your printer or computer responds to.

Adding characters to an ASCII string

For example, let's say you've just created a new ASCII layout print command in the #1 position in the layout menu *(1 ASCII)*. To insert new codes, display *1 ASCII*, then press **SELECT**. . . .

1 _ is displayed.

Key in the ASCII control code number you want and press **MENU**. . . .

2 _ is displayed prompting your for the 2nd ASCII control code number in the ASCII string.

Repeat this step until you have entered all the ASCII control code numbers you want or the indicator tells you the memory is full, then press **SELECT**. . .

1 ASCII is displayed in this example.

Inserting code numbers in an existing ASCII string

You may insert new code numbers in an existing ASCII string. Display the code number you want the new code number to precede and press ¬. A cursor appears and you may enter the new code number. All the following code numbers move down one position in the sequence.

Repeating a code number in an ASCII string

To repeat any ASCII code number, instead of entering it multiple times, enter the code number, then a decimal, then the number of times you want that code number repeated.

For example:
To enter seven carriage returns, enter 13.7.
To enter two capital letter Os in a row, enter 79.2.

Setup, Scale, Options, Security, Serial-
Seal All

If you choose the YES option, all items under configuration are sealed when switch S1-1 is in the OFF position. If NO is selected, units, capacity, division, zero range, stability, AZT, tare, layout, zero, span, linearity, and seal all are sealed.

Setup, Adjust-
Zero, Span, Linear., Display

This option lets you calibrate the indicator by setting the zero, span, and linearity. Following are specific instructions for setting these parameters.

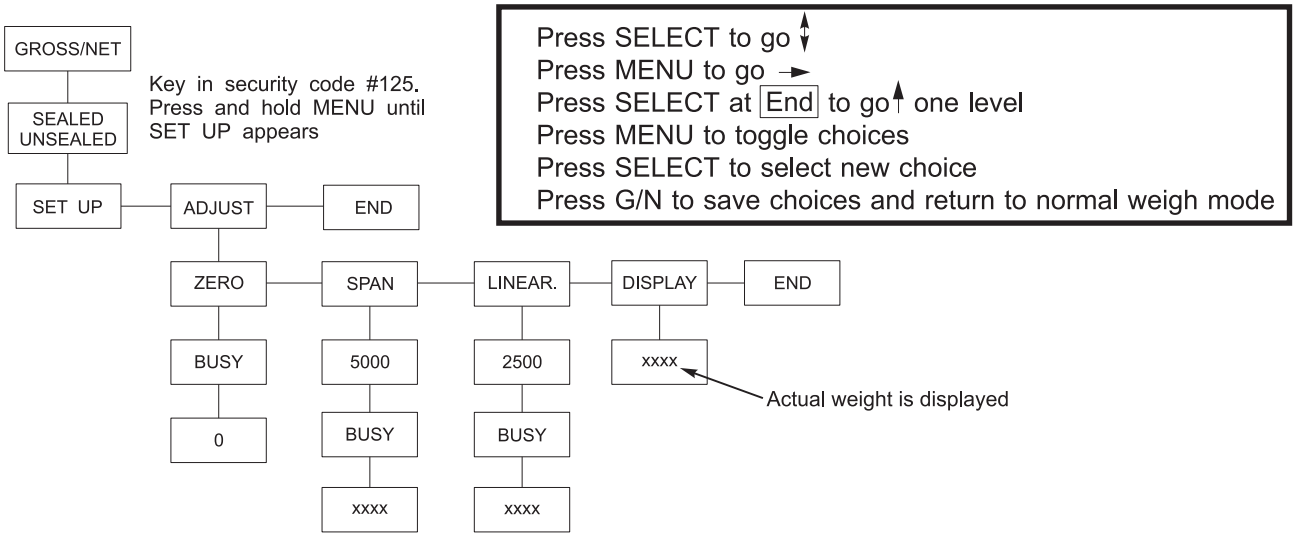
Calibration Procedures

Make sure your test weights match the selected unit of measure on your indicator.

To calibrate your WI-125, you must enter the Configuration Menu outlined below. If you are already in the Configuration Menu, go directly to the procedures for setting Zero & Span and Linearity and viewing Display which are continued on the next page.

To enter the Configuration Mode:

1. While in Gross/Net Weighing Mode, scroll in the security code number 125 by using the ↑ and ← keys.
2. With the number ***125*** displayed, press and hold the **MENU** key until ***SET UP*** is displayed. **NOTE: DO NOT** let go of the **MENU** key until ***SET UP*** is displayed or else ***TARE*** will be displayed. If this occurs, press the **G/N** key to return to Weighing Mode and begin again at Step 1.
3. Press **MENU** to display ***ADJUST***.
4. Press **SELECT** to display ***ZERO***.
5. You are now in the Configuration Menu and may calibrate your system. To move around within the Configuration Menu follow the instructions printed in the box below. Specific instructions for setting Zero & Span and Linearity and viewing Display are provided on the next page.



Setting ZERO and SPAN (Calibration)

1. When *ZERO* is displayed, remove all weight from scale. Wait till the scale is stable and press **SELECT**. . .	***BUSY*** is displayed briefly, then *0*.
2. Press **SELECT**. . .	***ZERO*** is displayed.
3. Press **MENU**. . .	***SPAN*** is displayed.
4. Set test weight on scale and let the scale stabilize. Press **SELECT**. . .	A number is displayed.
5. Key in the amount of the test weight on the scale and press **SELECT**. . .	Display shows ***BUSY*** briefly, then the weight.

You may exit to the normal Weighing Mode by pressing **G/N**, or continue to Step 6. . .

Setting LINEAR.

Make sure you have the proper amount of weight keyed in and the proper amount of weight on the scale when setting LINEAR., or SPAN.

You may stop calibration after setting ZERO and SPAN or continue on to set LINEAR. if necessary for your application.

6. Press **SELECT** to return to the ***SPAN*** display, then press **MENU** to advance to the ***LINEAR*** display.	
7. Place approximately half the span test weight on the scale. Press **SELECT**. . .	A number is displayed.
8. Key in the weight now on the scale and press **SELECT**. . .	***BUSY*** is displayed briefly and then the weight.

You may exit to the normal Weighing Mode by pressing **G/N**, or continue to Step 9...

Viewing DISPLAY

Use this mode to do a build-up test or to check linearity.

9. Press **MENU** twice to advance to *DISPLAY*.
10. Press **SELECT** to see the displayed weight without exiting the configuration menu.

You may exit to normal Weighing Mode by pressing **G/N**.

Reset Menu and Master Clear

WARNING

Do not reset anything unless it is absolutely necessary. If you reset ADJUST, this may mean you have to bring in a weight truck to re-calibrate your system.

If the indicator's memory, calibration or other data becomes corrupted, a reset menu will become active. *RESET* will be displayed telling you there has been a problem. You may also choose to perform a Master Clear to reset the setup, adjust or data values to default values. Performing a master clear gives you access to the first reset menu shown below. If the indicator found a problem with itself, you will see the second menu. In either case, you must turn switch S1-1 on before you can reset setup or adjust items.

The only items active for a reset or master clear are those items that are **not** set to the factory defaults.

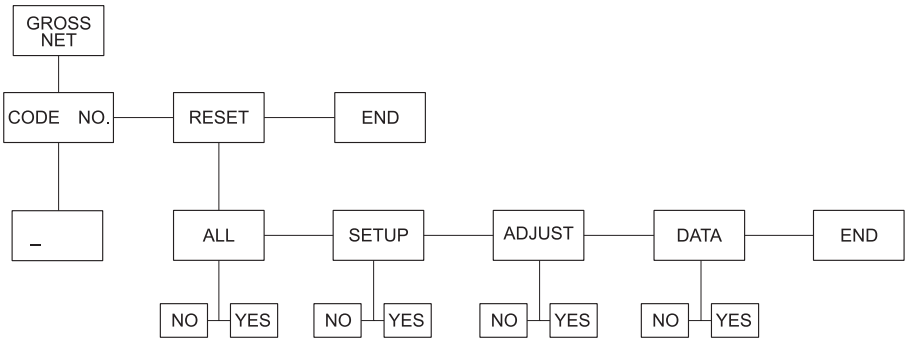
To perform a master clear follow these steps:

1. Turn the unit off, hold the **TARE** and **ZERO** keys down and turn on the unit. . . — ***CODE NO.*** is displayed.
2. Press **SELECT**. . . — **0** is displayed.
3. Use the ↑ key and ← key to key in your security code number, then press **SELECT**. . . — ***CODE NO.*** is displayed.

You must enter the security code number before you can reset any items.

4. Press **MENU**. . . — ***RESET*** is displayed. From here you access the rest of the menu items the same as you do for all the other menus.

Master Clear Menu

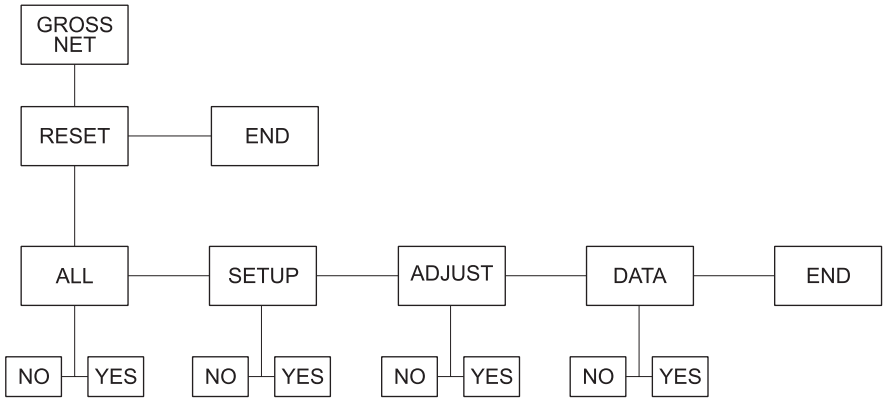


ALL - Includes Setup, Adjust, and Data
SET UP - Configuration selections
ADJUST - Calibration settings
DATA - User entered information

If *SETUP, ADJUST,* or *DATA* are set to defaults, they will not appear in the menu.

If *SETUP, ADJUST,* or *DATA* appear, you have the option to reset one, two, or all three of them to default values.

Reset Menu



If ***SETUP***, ***ADJUST***, or ***DATA*** appears and it is flashing, the indicator is telling you that it is corrupted and must be reset to default values.

If ***ALL*** appears, you have the option to reset all values to their default settings simultaneously.

If ***ALL*** is flashing, the indicator is telling you that *SETUP, ADJUST*, and *DATA* are all corrupted and you must reset them all to default values.

If you choose *ALL*, the unit returns automatically to weighing mode. All factory defaults are now in place, **including calibration values**.

To reset any of the choices, use the **MENU** key to toggle between the choices. When the correct choice is displayed, press **SELECT**, then press **G/N** to save.

If you choose to reset some choices, but not all, the unit will return to weighing mode when you press **G/N**. If nothing is corrupted (no choices are flashing) you can return to weighing mode by pressing **SELECT** while ***END*** (after ***RESET***) is displayed.

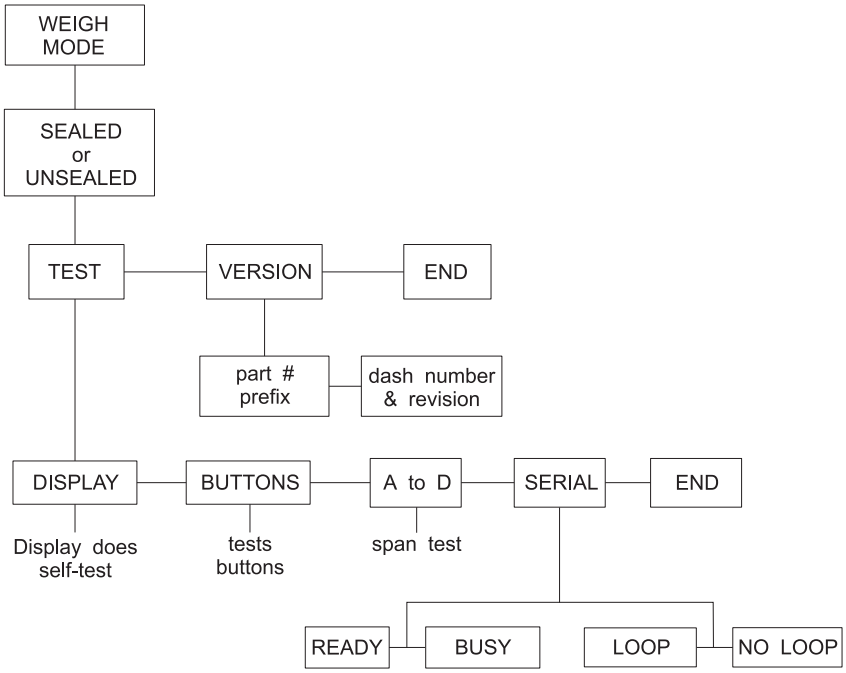
Instructions for using the Menu:

Press SELECT to go ↕
Press MENU to go →
Press SELECT at [End] to go ↑ one level
Press MENU to toggle choices
Press SELECT to select new choice
Press G/N to save choices and return to normal weigh mode

Test Mode

The test mode is used to test various functions of the WI-125. The test menu is shown below with instructions for using the test menu.

Test Menu



1. Enter the test mode from the gross/net operation by pressing and holding the **MENU** key until ***tESt*** is displayed. ***SEALEd*** or ***unSEALEd*** is displayed briefly while you hold down the key.
2. Move to the right through the menu selections by pressing **MENU** briefly. Move to the left through the menu selections by pressing **MENU** for 1 second or hold down for continuous scrolling.
3. To move down a level in the hierarchy, press **SELECT**. Anytime you wish to get to the next higher level in the hierarchy, press and hold **SELECT** for approximately 1.5 seconds or press **SELECT** whenever ***End*** is displayed.
4. Press **MENU** to toggle between choices.
5. Press **G/N** to return to gross weighing operation at any time.

Below are the specific directions and explanations for the items you see in the test menu.

VERSION — Under version are the Weigh-Tronix part number and revision number for the software found in your machine. Weigh-Tronix part numbers are divided into two parts: the prefix and the dash number.

DISPLAY — With ***diSPLAY*** displayed, press **SELECT** and the bottom row of annunciators turns on. Press **SELECT** again and a dynamic test is run. Press **MENU** to stop the dynamic test or consecutively press **MENU** to step through the display test routine. Press **SELECT** when the dynamic test is active to return the unit to ***diSPLAY***.

BUTTONS — With ***buttonS*** displayed, press **SELECT** and an underscore will appear on the screen. Press any key except **MENU** to check for proper key functioning. After testing the buttons, press **MENU** to return to the display.

A to D — Displays the analog to digital counts. The span is normally 20000 counts per millivolt per volt. With a calibrator at zero millivolts per volt, the displayed value should be between -200 and +200.

SERIAL — Tells you if the serial output is ready or busy. A jumper connecting pins DTR to CTS of the serial port will cause ***buSY*** to be displayed. Pressing the **MENU** key puts ***no LOOP*** on the display. With pins XMITT to RECV connected, ***LOOP*** is displayed. With them disconnected, ***no LOOP*** is displayed.

Following are illustrations and instructions for disassembling the WI-125 for repair purposes.

Disassembling the Front Panel of the WI-125 With the Gray Metal Enclosure

Indicators may vary from photos in this section since AC and DC versions vary.

1. Remove the two screws holding the front panel on each side of the enclosure (total of four). See Figure 7.

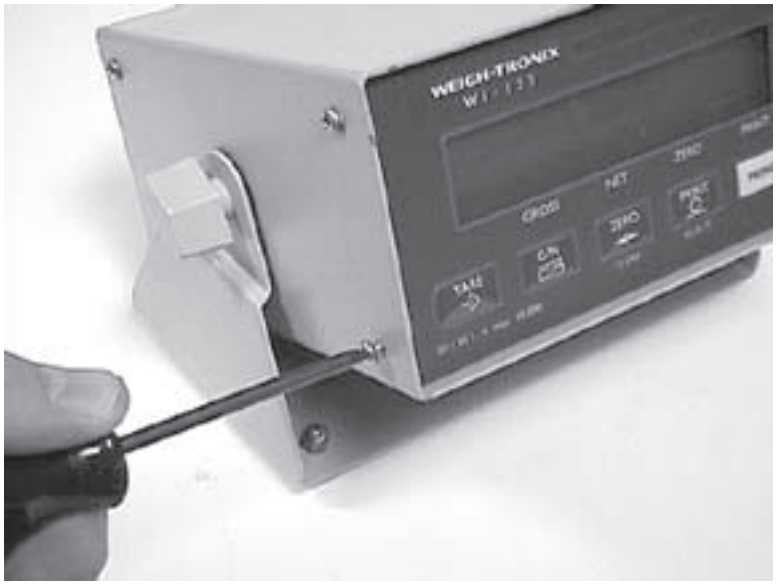


Figure 7
Removing the front panel screws

2. Tip the indicator forward and the front panel should slide out. Remove the cables at their attachment points on the pc board. See Figure 8.

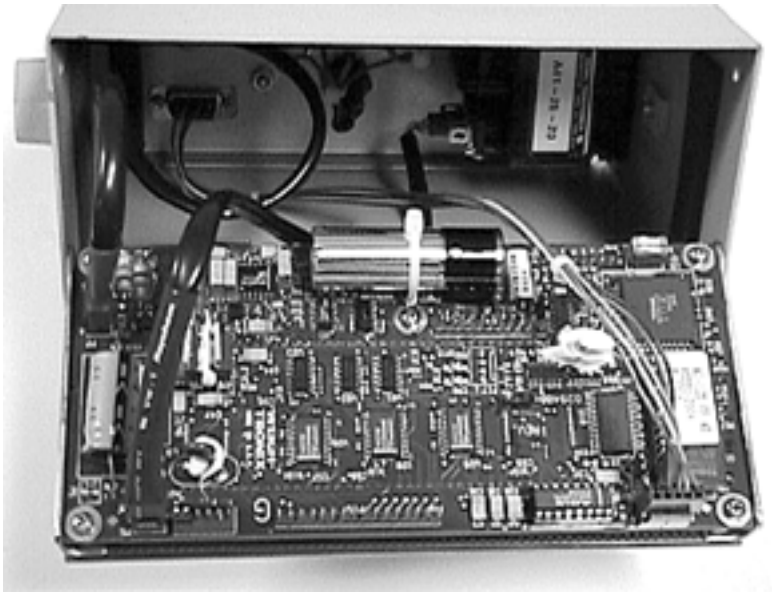


Figure 8
Front panel wire connections

3. To remove the pc board, remove the five screws pointed out by the arrows in Figure 9.

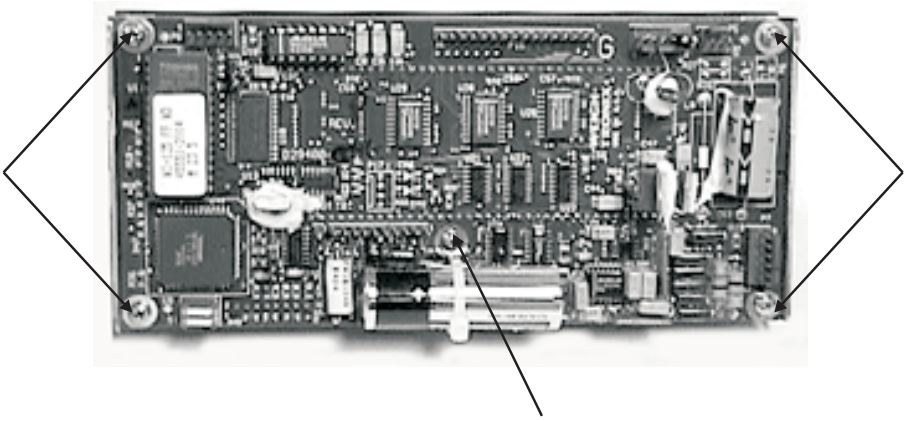


Figure 9
PC Board hold down screws

4. Separate the pc board from the display board. The two are held together by the connector shown in Figure 10.

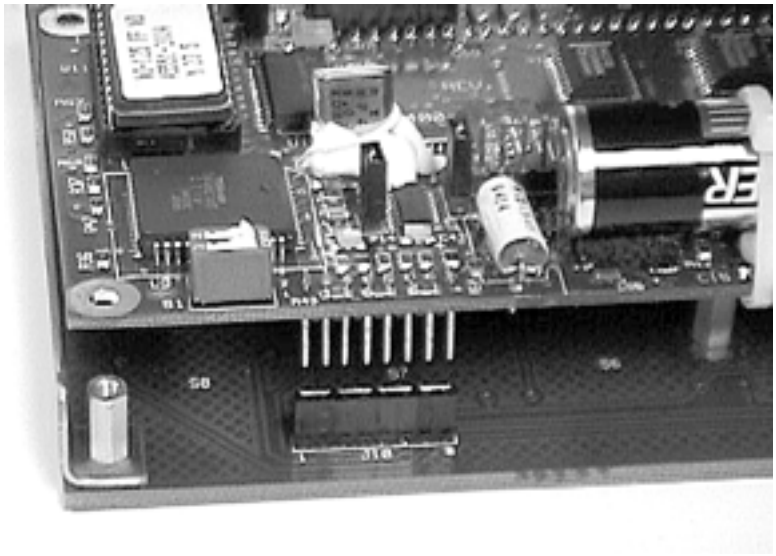


Figure 10
PC board / display board connector

5. Replace part that needs replacing and reassemble by reversing these steps.

Disassembling the Rear Panel of the WI-125 With the Gray Metal Enclosure

1. Remove the four screws holding the rear panel in the enclosure.
2. Pull the rear panel out. See Figure 11.

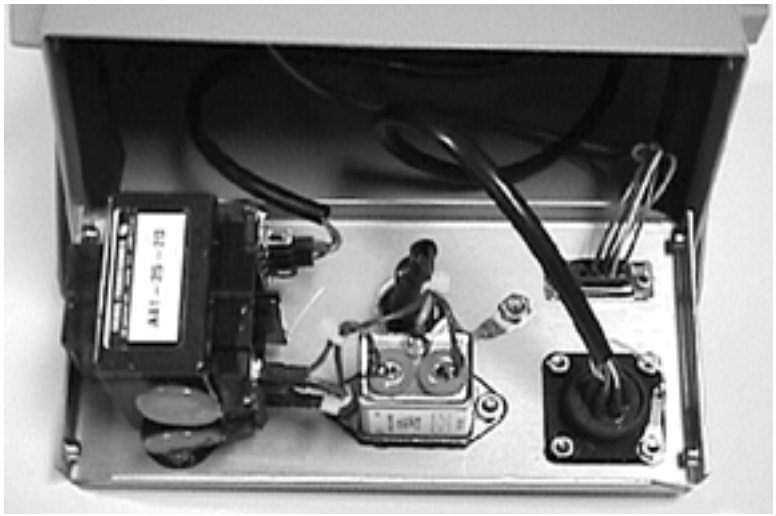


Figure 11
Rear panel removed from enclosure.

3. Replace the necessary part and reassemble by reversing these steps.

Disassembling the WD (wash down) WI-125

1. Remove the hex head screw on each side of the enclosure as shown in Figure 12.

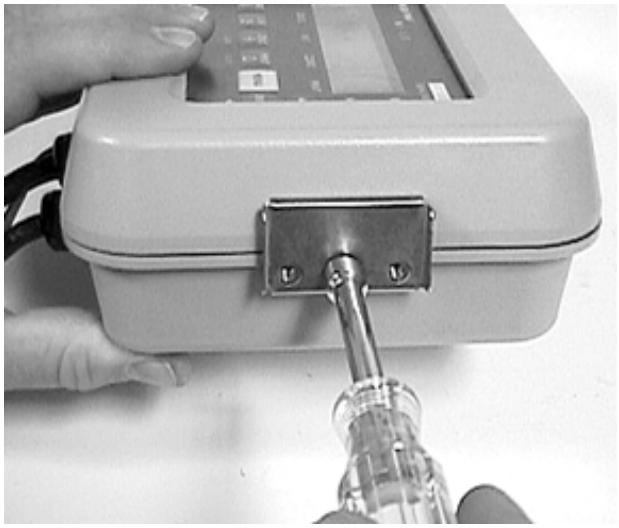


Figure 12
Removing enclosure screw

2. Open up the enclosure as shown in Figure 13 and remove the wires from their connection points on either board.

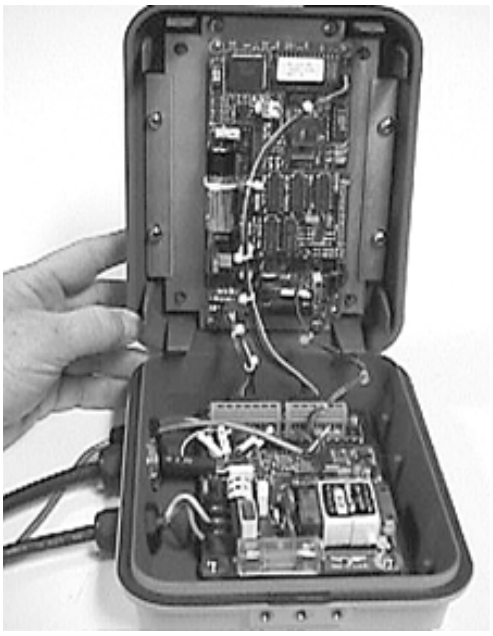


Figure 13
Opening the enclosure

3. To remove the board from the rear half of the enclosure, remove the cable connections, then remove the screws pointed out by the arrows in Figure 14.

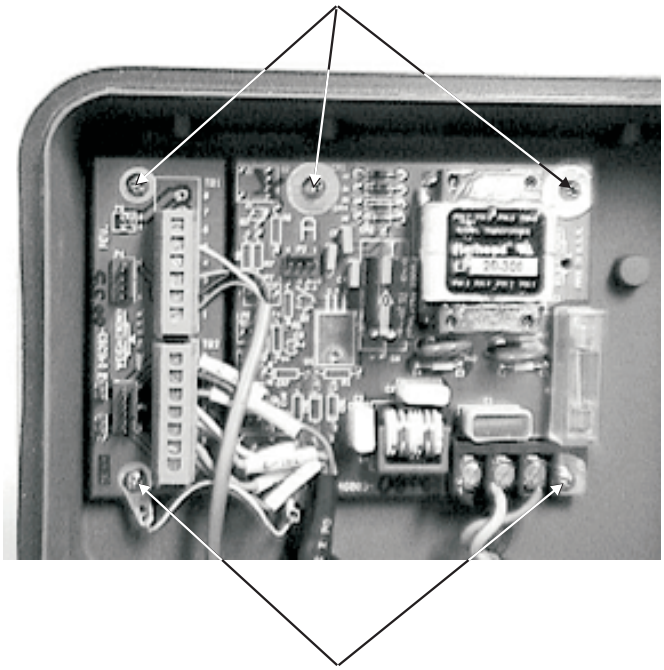


Figure 14
Rear PC board hold down screws

4. Replace the defective part and reinstall the board using the screws and reconnect the cables. See Z-fold pages at the end of this manual for correct connections.
5. If you need to remove an optional time and date PC board, remove the screw shown in Figure 15 and pull the board (outlined in white below) up and off the main PC board. Reverse this procedure to install a time and date board.

Time and date board is not supported in the Super Saver WI-125.

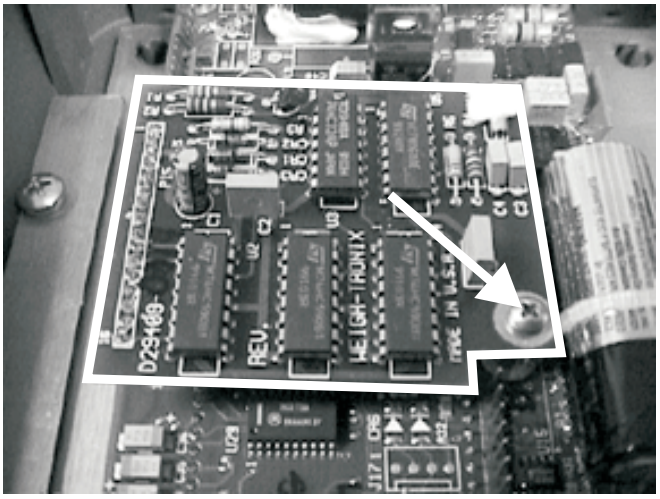


Figure 15
Time and date PC board

6. To remove the main PC board, remove the screws shown in Figure 16. The center one holds the time and date pc board if one is installed. Lift the board up and off the display board.

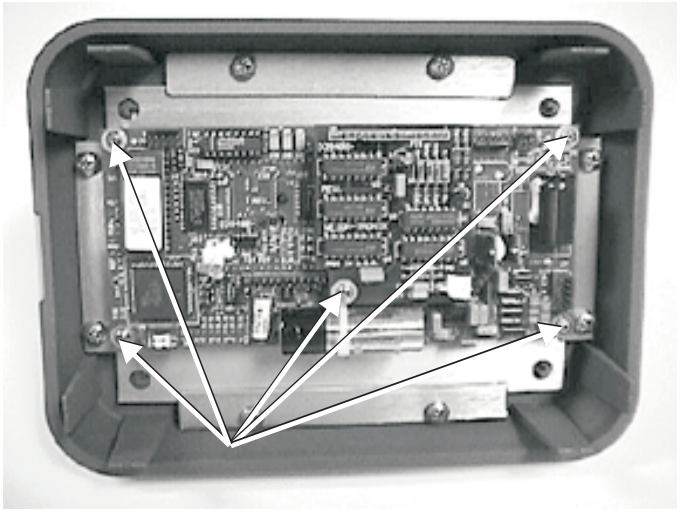
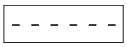


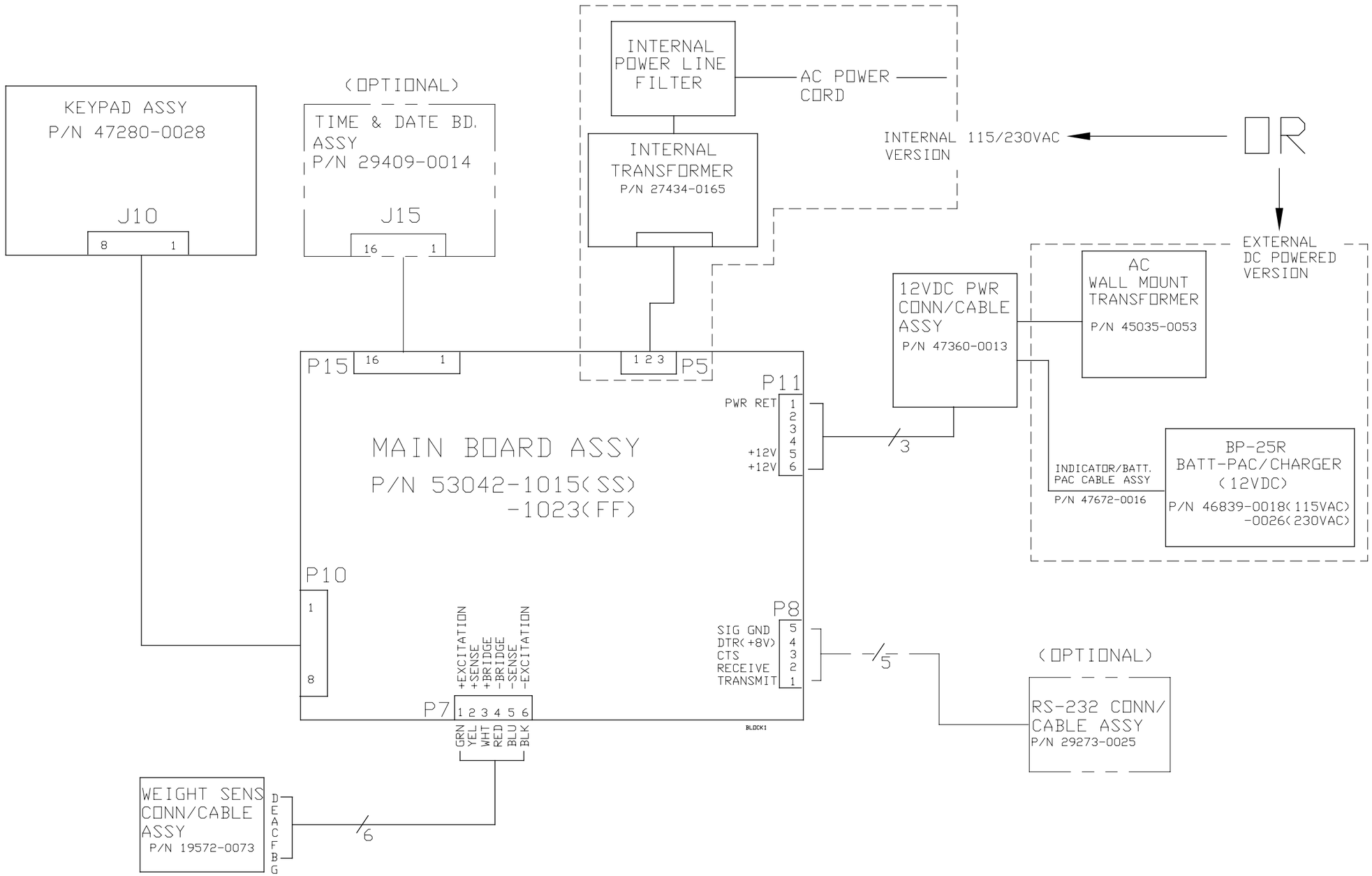
Figure 16
Hold down screws for main PC board

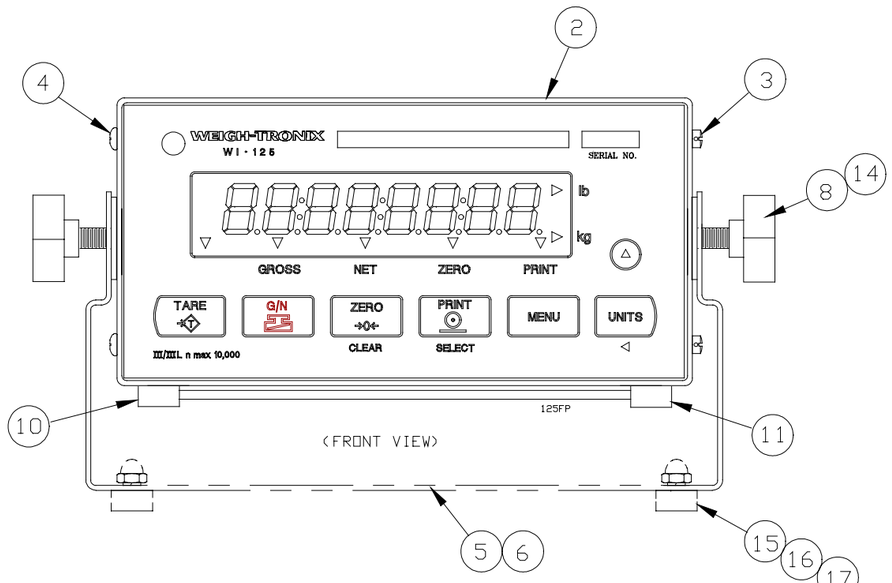
7. To remove the display board, remove the eight screws holding it down.
8. Reassemble the WI-125 by reversing the disassembly steps.

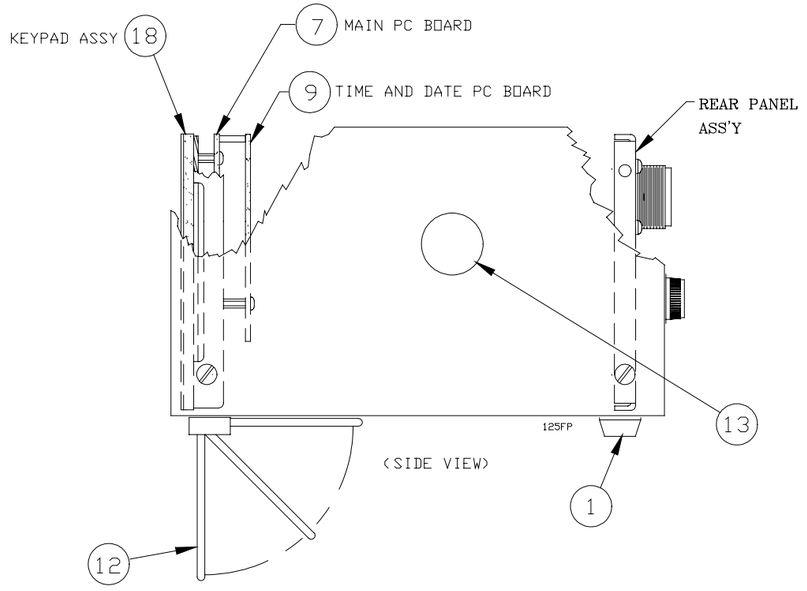
Error Messages

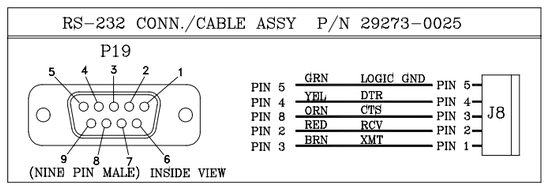
The following are displays you may see if problems occur or if invalid operations are attempted with your WI-125:

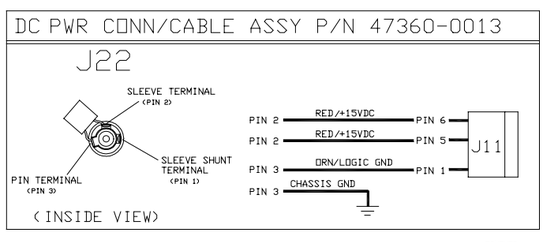
Display	Description
	Overrange weight.
	Underrange weight.
	Recovering from lock-up or out of range condition.
	A-D converter is not functioning.
	Corrupted data in the reset menus. See the *Service Manual*. (* = RESET, SETUP, or CAL)
	Displayed while a key is pressed when attempting to modify a sealed selection without edit privileges.

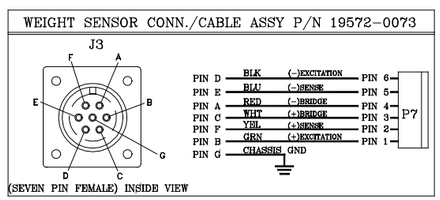

KEYPAD ASSY
P/N 47280-0028
J10
8
1
(OPTIONAL)
TIME & DATE BD. ASSY
P/N 29409-0014
J15
16
1
INTERNAL POWER LINE FILTER
AC POWER CORD
INTERNAL TRANSFORMER
P/N 27434-0165
INTERNAL 115/230VAC VERSION
OR
EXTERNAL DC POWERED VERSION
12VDC PWR CONN/CABLE ASSY
P/N 47360-0013
AC WALL MOUNT TRANSFORMER
P/N 45035-0053
INDICATOR/BATT. PAC CABLE ASSY
P/N 47672-0016
BP-25R BATT-PAC/CHARGER (12VDC)
P/N 46839-0018(115VAC)
-0026(230VAC)
P15
16
1
1 2 3
P5
P11
PWR RET
1
2
3
4
+12V
+12V
5
6
3
MAIN BOARD ASSY
P/N 53042-1015(SS)
-1023(FF)
P10
1
8
P7
1 2 3 4 5 6
+EXCITATION
+SENSE
+BRIDGE
-BRIDGE
-SENSE
-EXCITATION
GRN
YEL
WHT
RED
BLU
BLK
P8
SIG GND 5
DTR(+8V) 4
CTS 3
RECEIVE 2
TRANSMIT 1
5
(OPTIONAL)
RS-232 CONN/ CABLE ASSY
P/N 29273-0025
BLOCK1
WEIGHT SENS CONN/CABLE ASSY
P/N 19572-0073
D
E
A
C
F
B
G
6





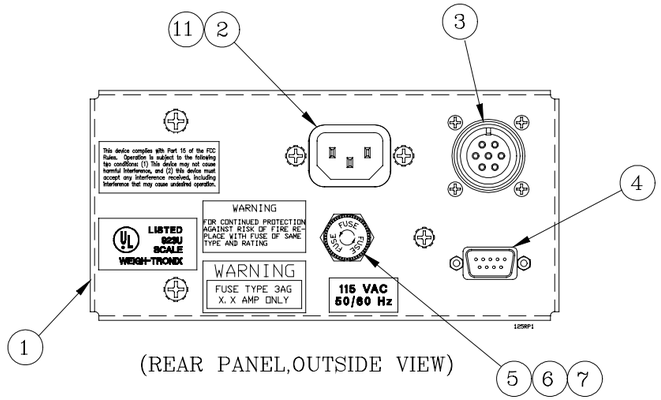


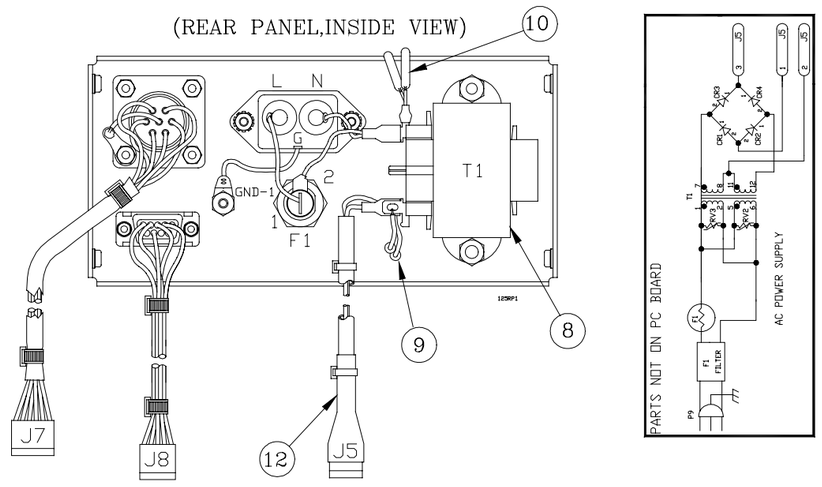




ITEM NO.	DESCRIPTION	W-T P/N	QTY
1	BUMPER PAD	22370-0022	4
2	ENCLOSURE	29928-0024	1
3	DRILLED FILLISTER SCREWS	15711-0248	4
4	PAN HD SCREW	14473-0231	4
5	SWIVEL STAND (3 IN.)	29979-0022	1
6	SWIVEL STAND (WALL MOUNT 6 IN.)	29418-0021	1
7	MAIN BOARD ASSY w/ E-PROM (SS)	53042-1015	1
	MAIN BOARD ASSY w/o E-PROM	53042-0017	1
	E-PROM (Super Saver)	53659-0011	1
	MAIN BOARD ASSY w/ E-PROM (FF)	53042-1023	1
	MAIN BOARD ASSY w/o E-PROM	53042-0025	1
	E-PROM (Full Feature)	53659-0029	1
8	KNOB	27495-0021	2
9	TIME & DATE PC BOARD KIT	29415-0016	1
10	LEFT BAIL FOOT	27460-0113	1
11	RIGHT BAIL FOOT	27460-0105	1
12	BAIL (FLIP STAND)	27460-0121	1
13	CLIP	45027-0012	2
14	NEOPRENE PAD	19563-0033	2
15	BUMPER w/ STUD (REF ITEM 5)	18056-0013	4
16	CAP NUT (REF ITEM 5)	15771-0021	4
17	LOCK WASHER (REF ITEM 5)	14474-0032	4
18	FRONT PANEL	47280-0028	1

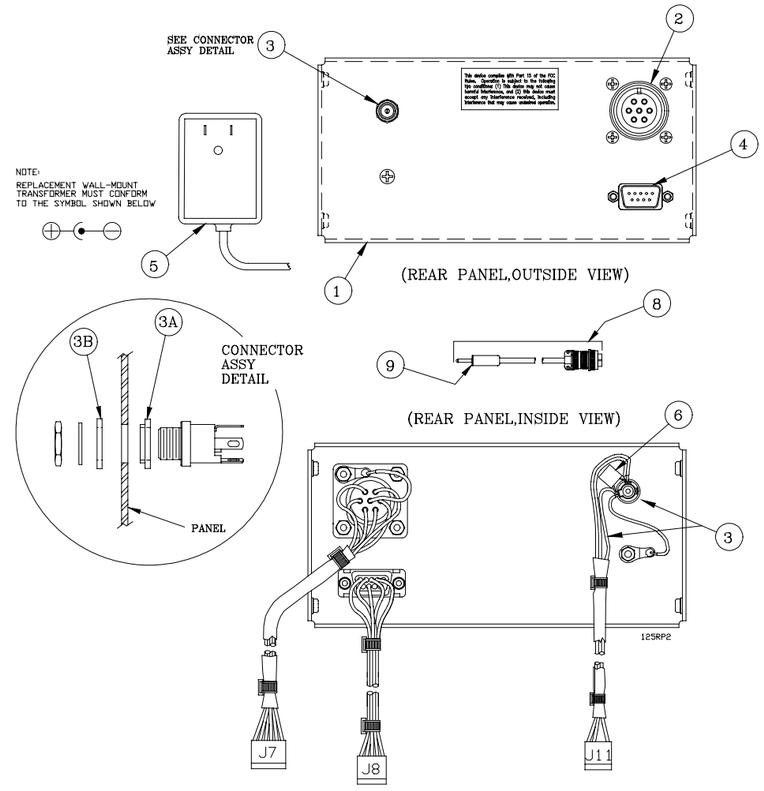
INTERNAL AC VERSION, 115/230VAC, REAR PANEL ASSY





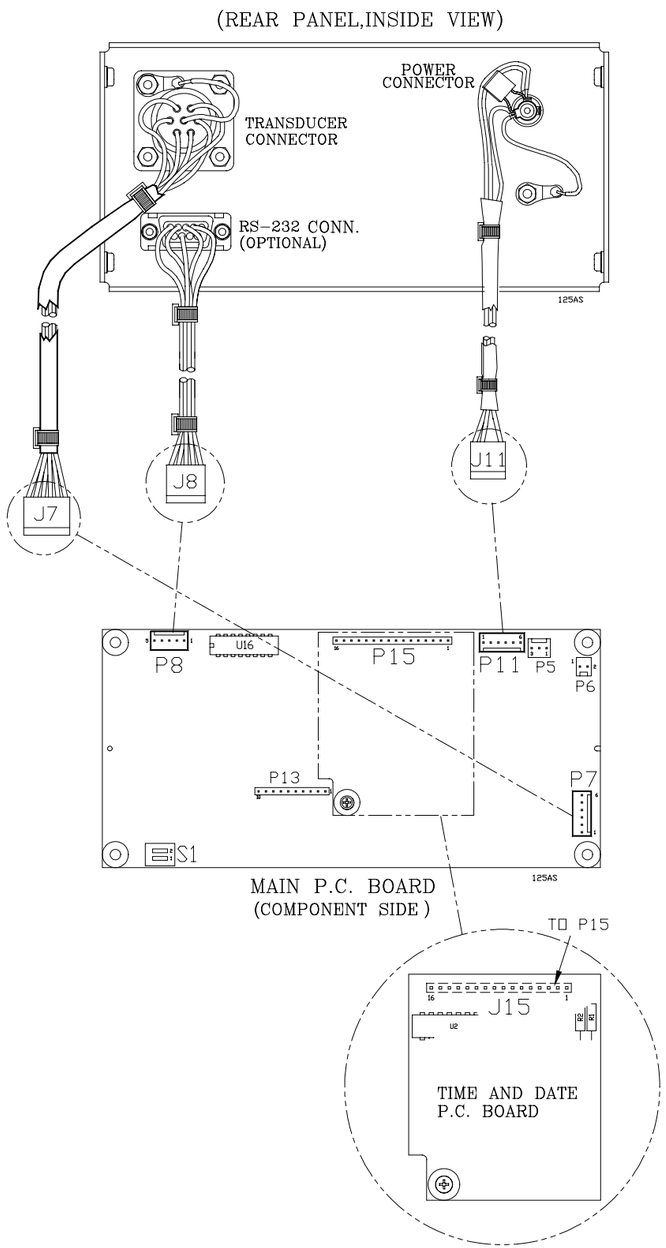
ITEM NO.	DESCRIPTION	W-T P/N	QTY
1	REAR PANEL	29927-0025	1
2	POWER CONN	27387-0022	1
3	WEIGHT SENSOR CONN / CABLE ASSY	19572-0073	1
4	RS-232 CONN / CABLE ASSY	29273-0025	1
5	FUSE HOLDER	15455-0016	1
6	FUSE,1 AMP (115VAC)	15453-0018	1
7	FUSE, .5 AMP (230VAC)	15453-0083	1
8	TRANSFORMER	27434-0165	1
9	DIODE	15668-0043	2
10	VARISTOR	16046-0010	2
11	POWER CORD (NOT SHOWN)	17790-0016	1
12	TRANSFORMER/MAIN BD CABLE ASSY	47580-0017	1

EXTERNAL DC POWERED VERSION, REAR PANEL ASSY

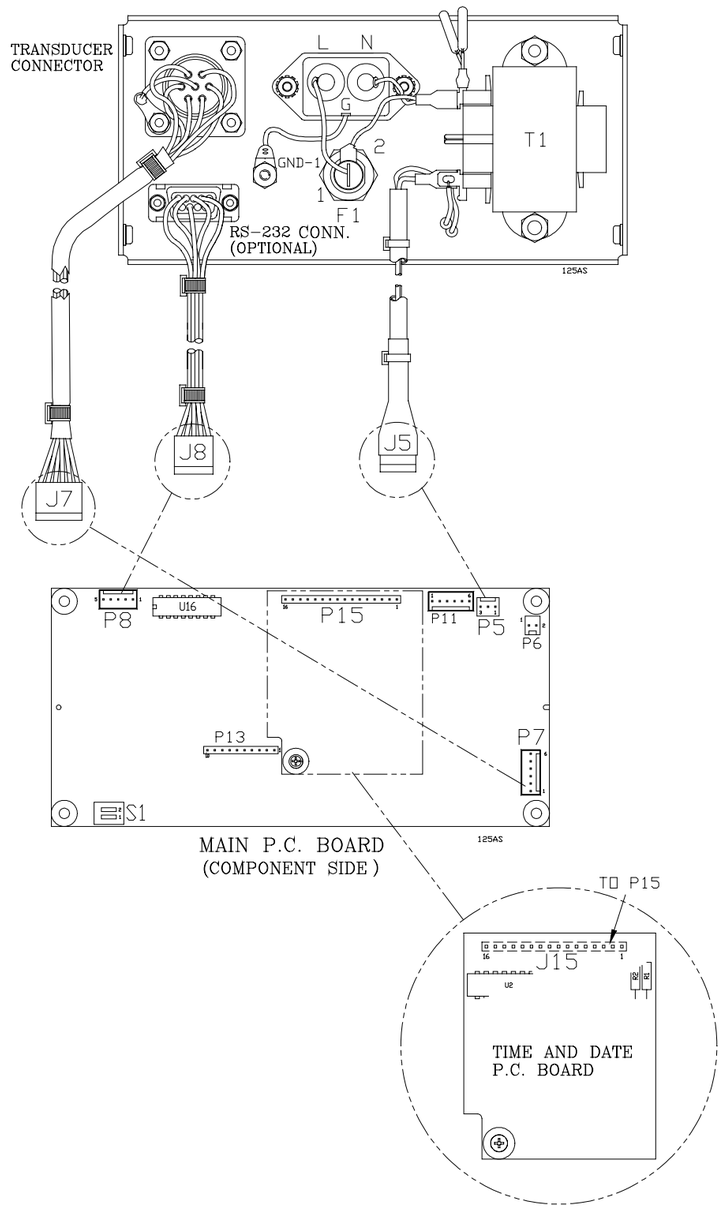


ITEM NO.	DESCRIPTION	W-T P/N	QTY
1	REAR PANEL	29363-0026	1
2	WEIGHT SENSOR CONN / CABLE ASSY	19572-0073	1
3	POWER CONN / CABLE ASSY	47360-0013	1
3A	INSULATOR, S-4263	46608-5016	1
3B	INSULATOR, P-2442	46608-5024	1
4	RS-232 CONN / CABLE ASSY	29273-0025	1
5	WALL-MOUNT PWR CORD ASSY	45035-0053MTS	1
6	CAPACITOR	15623-0120	2
7	BATT PACK, 115V (NOT SHOWN)	46839-0018MTS	1
	BATT PACK 230V (NOT SHOWN)	46839-0026MTS	1
8	BATT PACK / WI-125 CABLE ASSY	47672-0016	1
9	PLUG CONNECTOR	45081-0015	1
10	Cable Assy,125-to-12vdc batt.(not shown)	52384-0015	1

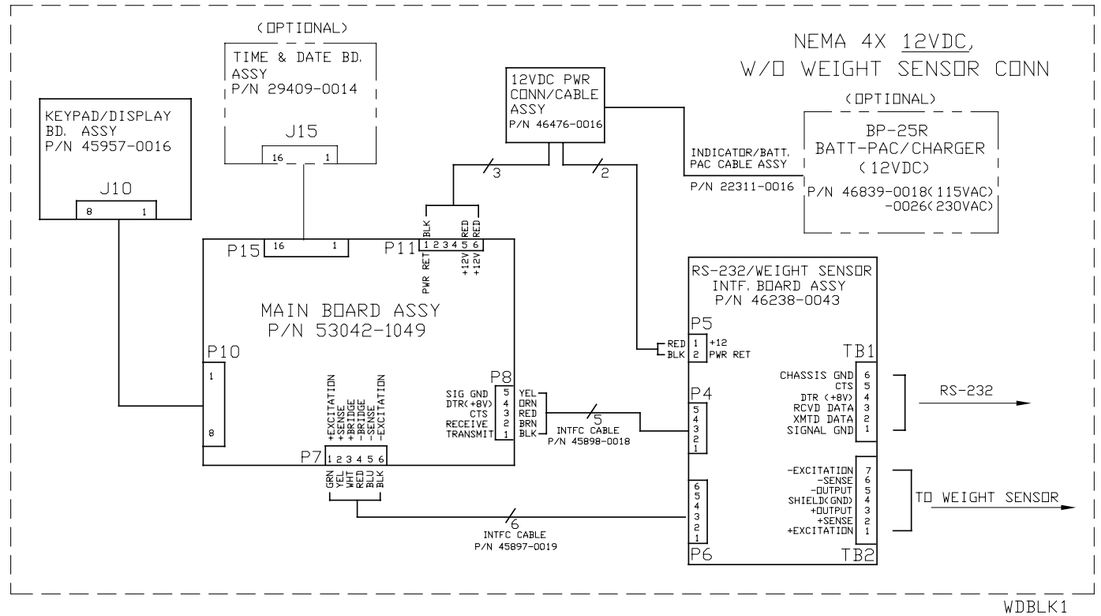
CABLE TO PC BOARD CONNECTION
EXTERNAL DC POWERED VERSION

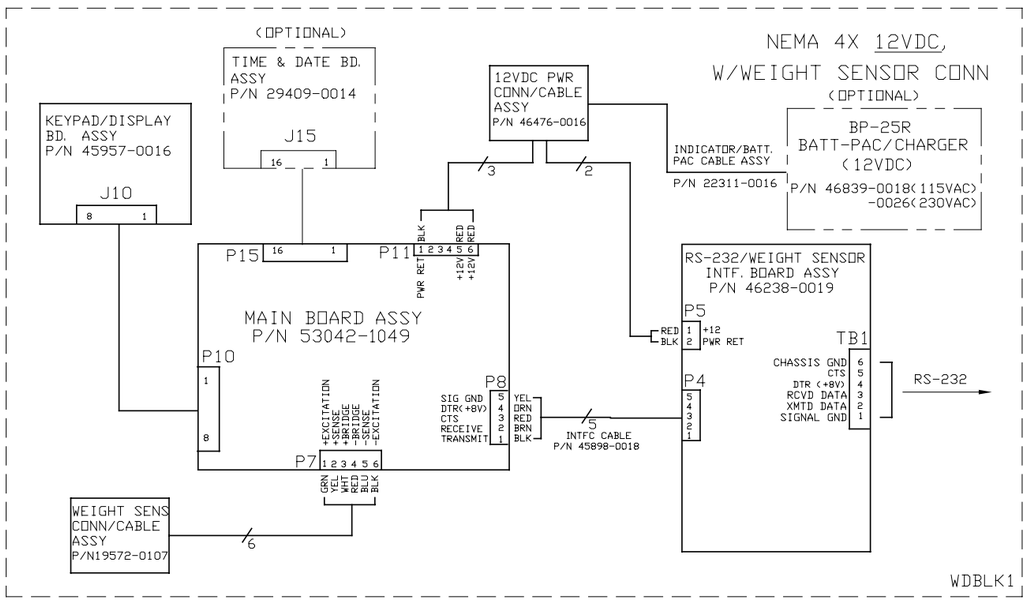


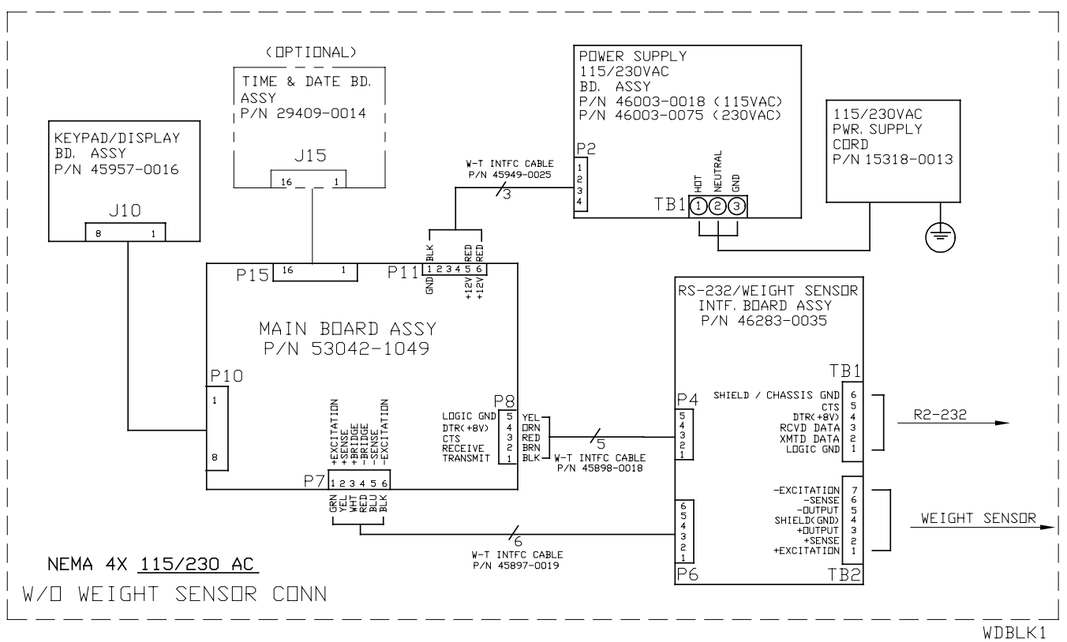
CABLE TO PC BOARD CONNECTION
115/230VAC INTERNAL AC VERSION

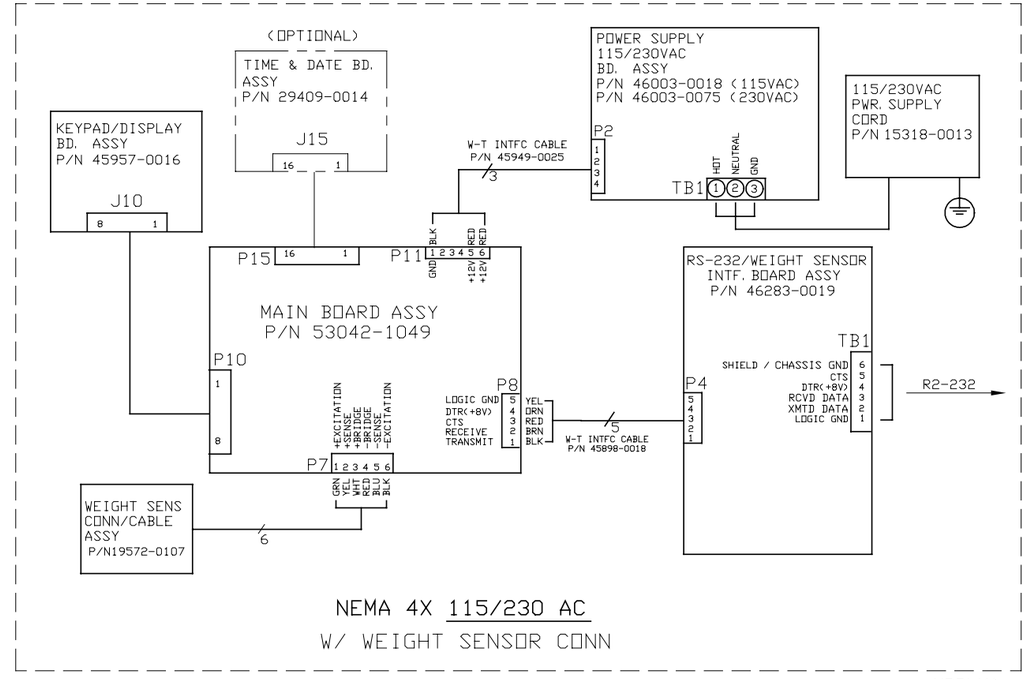


WI-125 WD INDICATOR
SYSTEM BLOCK DIAGRAM





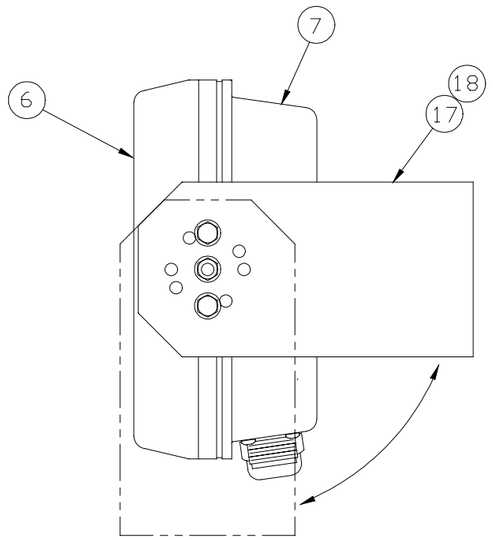




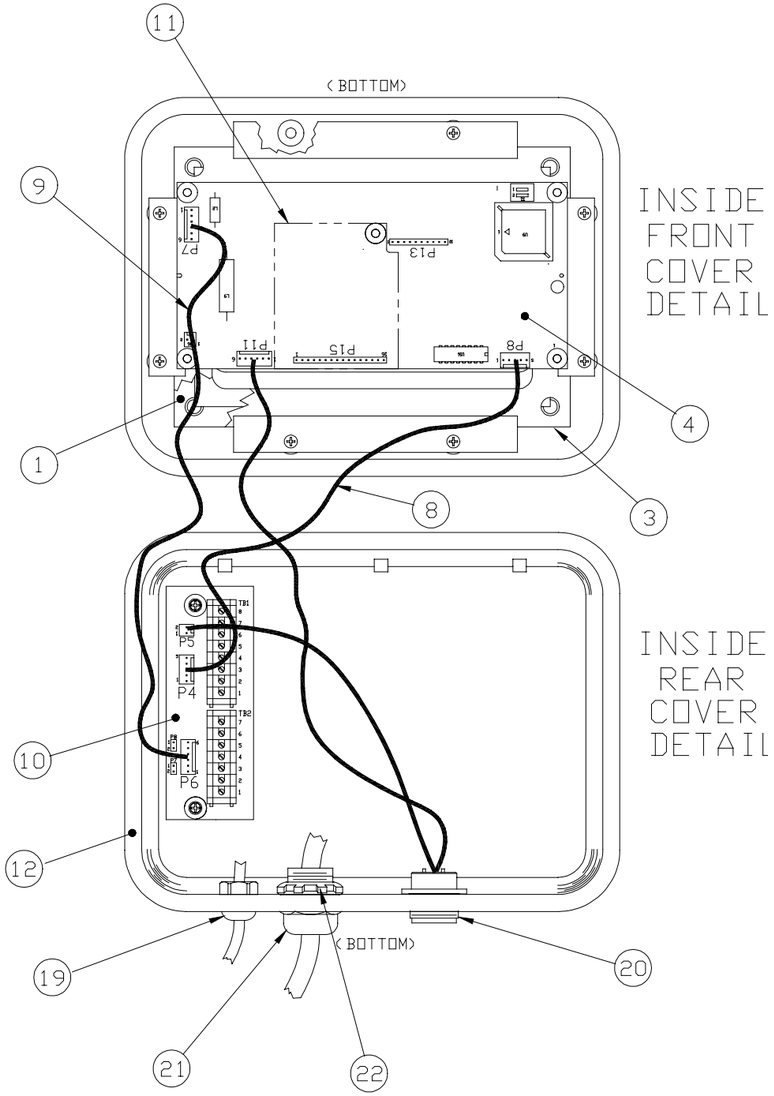
WI-125 WD INDICATOR, *12VDC*

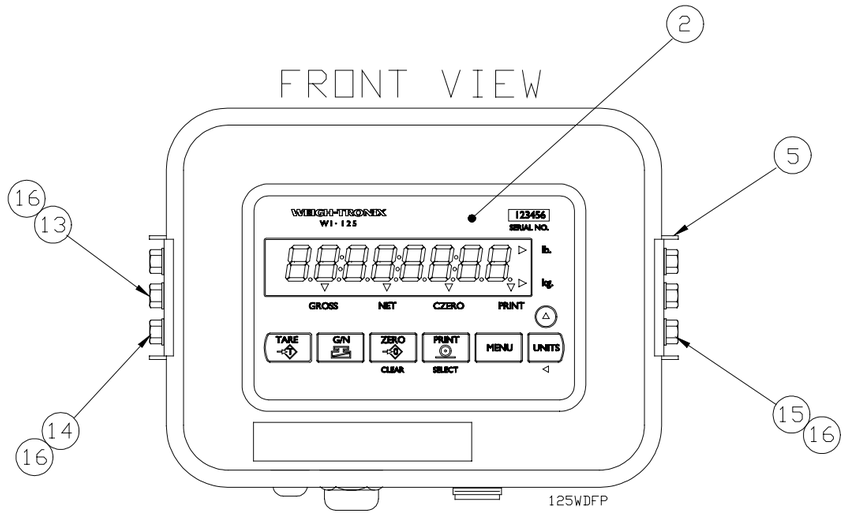
W/O WEIGHT SENSOR CONNECTOR

PARTS AND ASSEMBLY



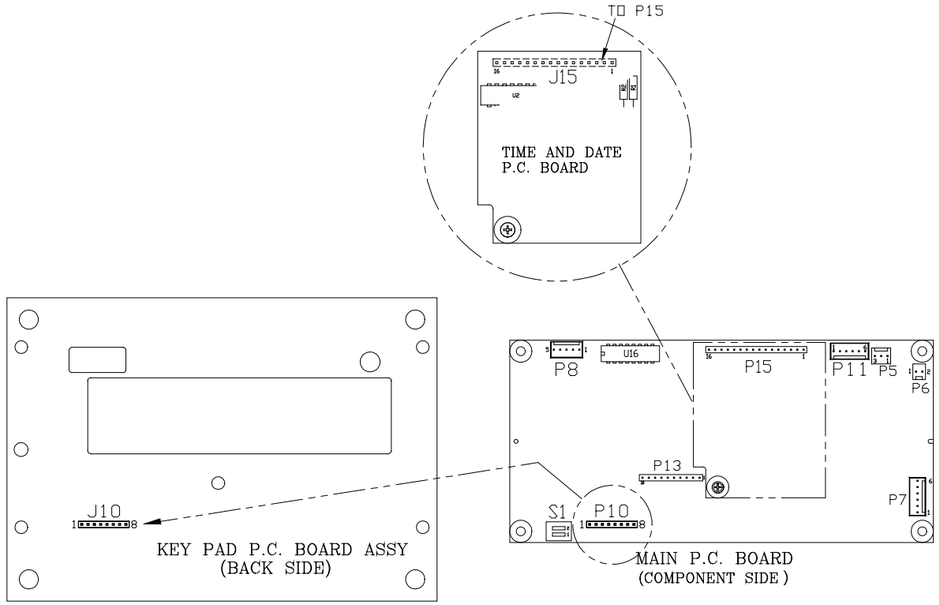
ITEM NO.	DESCRIPTION	W-T P/N	QTY
1	SILICONE GASKET	1055-10389	1
2	KEYPAD ASSY	45957-0016	1
3	BACKER PLATE	29422-0017	1
4	MAIN BOARD ASSY w/ E-PROM	53042-1049	1
	MAIN BOARD ASSY w/o E-PROM	53042-0033	1
	E-PROM (WI-125 WD)	53659-0029	1
5	ENCLOSURE SEALING BRACKET	1067-09677	2
6	FRONT ENCLOSURE	45902-0012	1
7	REAR ENCLOSURE	45860-0012	1
8	CABLE ASSY,RS232/MAIN BD	45898-0018	1
9	CABLE ASSY,WEIGHT SENS/MAIN BD	45897-0019	1
10	RS232/WEIGHT SENS BD ASSY	46283-0043	1
11	TIME & DATE PC BD (OPTIONAL)	29409-0014	1
12	ADHESIVE FOAM GASKET	1045-08401	1
13	CAP SCREW,#10-32 x .38L	14505-0035	2
14	CAP SCREW,#10-32 x .50L	14505-0050	2
15	CAP SCREW,#10-32 X .50 (SPECIAL)	27925-0013	2
16	TOOTH WASHER, #10	15698-0054	6
17	STAND/MTG BRACKET (LONG)	29425-0042	1
18	STAND/MTG BRACKET (SHORT)	29425-0030	1
19	STRAIN RELIEF	15257-0024	1
20	12VDC PWR CONN/CABLE ASSY	46476-0016	1
21	STRAIN RELIEF	15257-0057	1
22	LOCK NUT	22381-0011	1
23	BP-25R BATT. PACK 115V (NOT SHOWN)	46839-0018	1
	BP-25R BATT. PACK 230V (NOT SHOWN)	46839-0026	1
24	BATT PACK CABLE (NOT SHOWN)	22311-0016	1
25	WALL MOUNT PWR SUPPLY ASSY (NOT SHOWN)	46852-0010	1

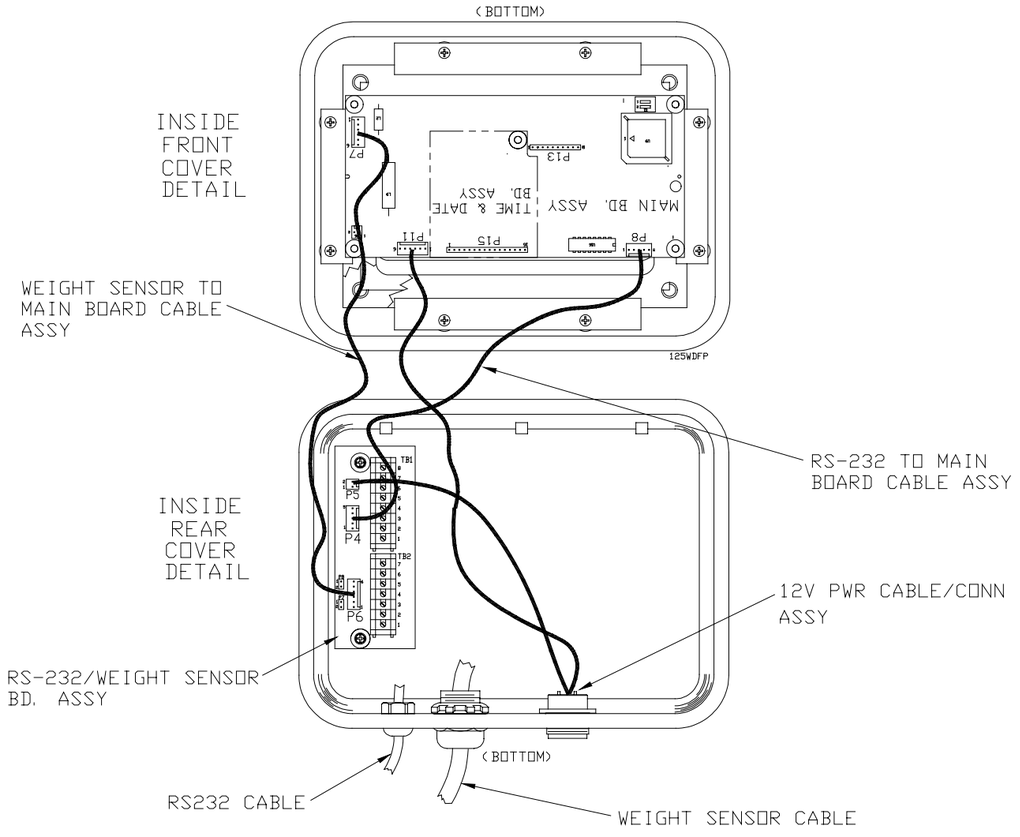




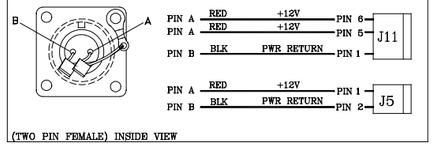
WI-125 WD INDICATOR,*12VDC*

W/O WEIGHT SENSOR CONNECTOR
PC BOARD IDENTIFICATION w/ PIN-OUTS



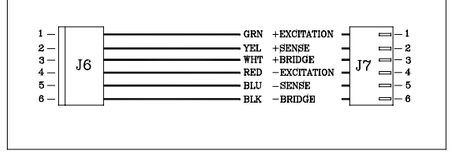


DC POWER CONN/CABLE ASSY P/N 46476-0016



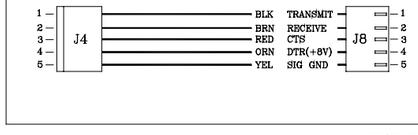
PINOUT2

WEIGHT SENSOR-MAIN BD/CABLE ASSY P/N 45897-0019

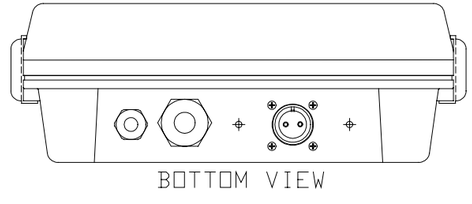


PINOUT1

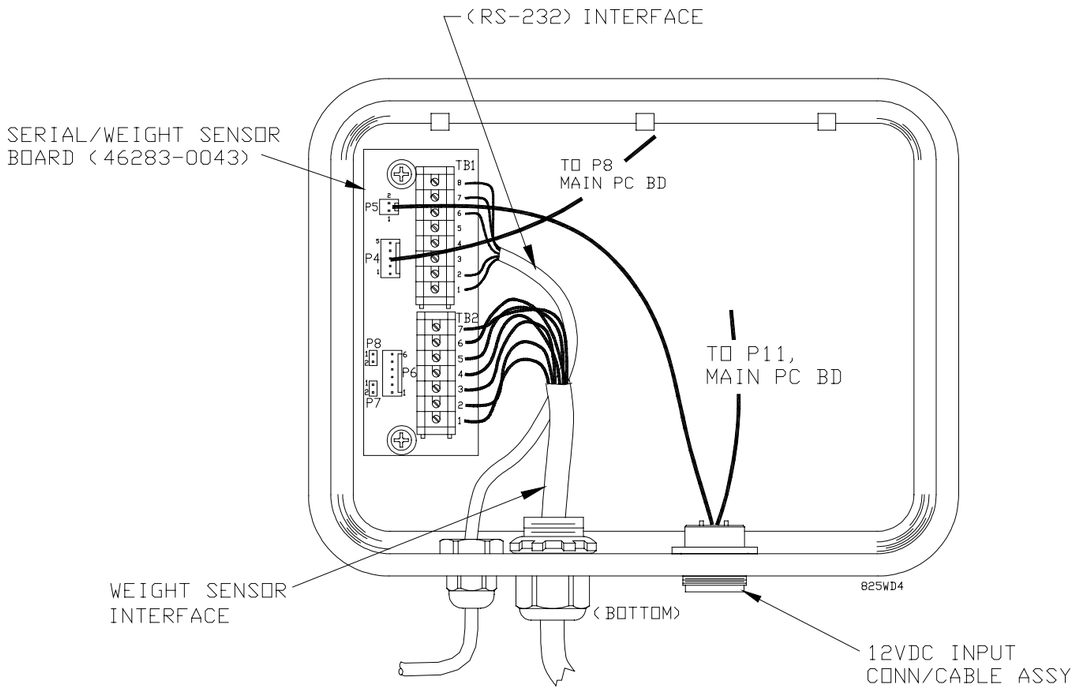
SERIAL INTERFACE-MAIN BD/CABLE ASSY P/N 45898-0018



PINOUT1



WI-125 WD INDICATOR, *12VDC*
W/O WEIGHT SENSOR CONNECTOR
EXTERNAL INTERFACE CONNECTIONS

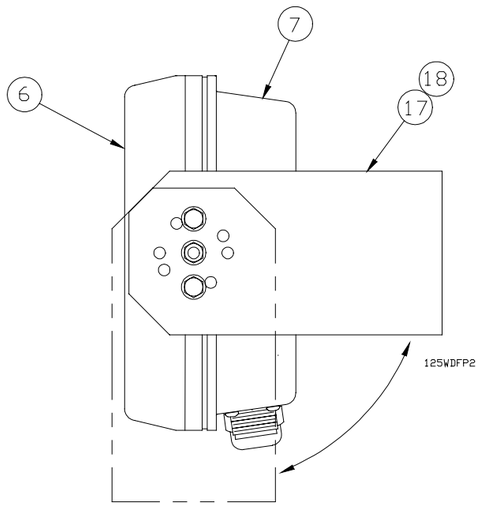


RS-232 Interface Connections	
Terminal Board	Description
TB1-1	Signal Ground
TB1-2	Transmit Data
TB1-3	Receive Data
TB1-4	Data Terminal Ready
TB1-5	Clear To Send
TB1-6	Chassis Ground
TB1-7	+12VDC
TB1-8	Power Return

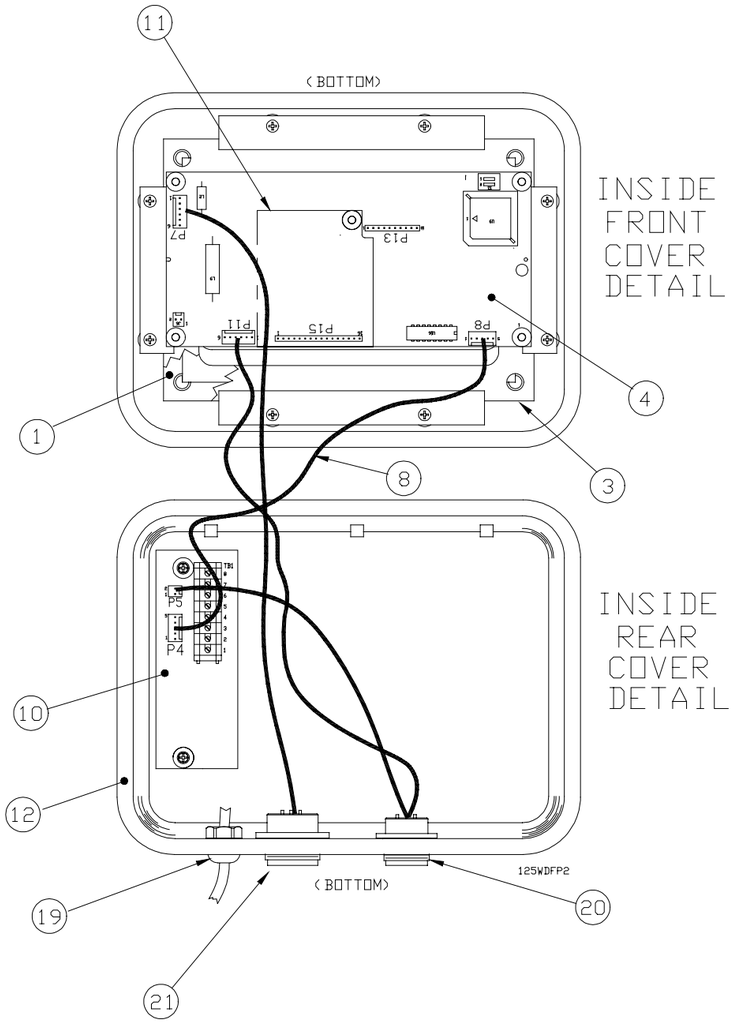
Weight Sensor Interface Signal Cable Connections	
Terminal Block	Description
TB2-1	+Excitation
TB2-2	+Sense
TB2-3	+Output
TB2-4	Shield (gnd)
TB2-5	-Output
TB2-6	-Sense
TB2-7	-Excitation

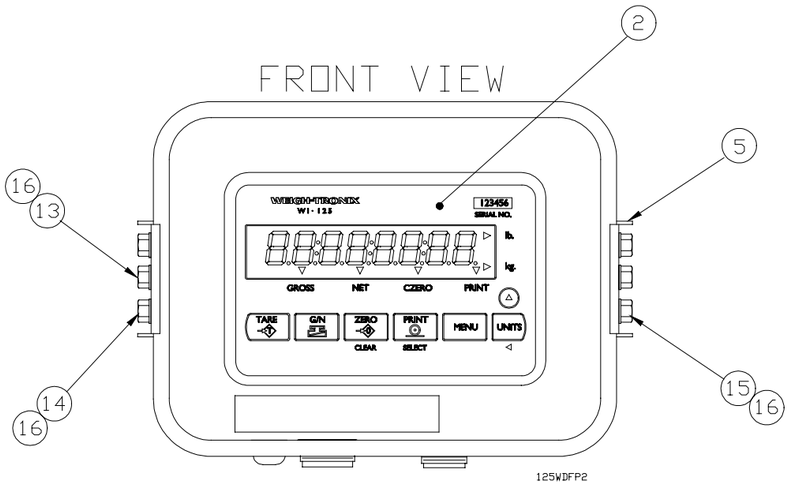
WI-125 WD INDICATOR,*12VDC*

W / WEIGHT SENSOR CONNECTOR
PARTS & ASSEMBLY



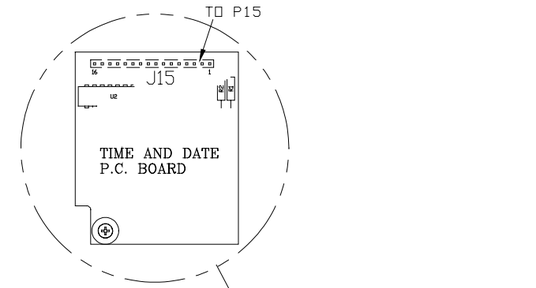
ITEM NO.	DESCRIPTION	W-T P/N	QTY
1	SILICONE GASKET	1055-10389	1
2	KEYPAD/PC BOARD ASSY	45957-0016	1
3	BACKER PLATE	29422-0017	1
4	MAIN BOARD ASSY w/ E-PROM	53042-1049	1
	MAIN BOARD ASSY w/o E-PROM	53042-0033	1
	E-PROM (WI-125 WD)	53659-0029	1
5	ENCLOSURE SEALING BRACKET	1067-09677	2
6	FRONT ENCLOSURE	45902-0012	1
7	REAR ENCLOSURE	46477-0015	1
8	CABLE ASSY,RS232/MAIN BD	45898-0018	1
9	---------- NO PART ----------	--------	----
10	RS232/ BD ASSY	46283-0019	1
11	TIME & DATE PC BD (OPTIONAL)	29409-0014	1
12	ADHESIVE FOAM GASKET	1045-08401	1
13	CAP SCREW,#10-32 x .38L	14505-0035	2
14	CAP SCREW,#10-32 x .50L	14505-0050	2
15	CAP SCREW,#10-32 X .50 (SPECIAL)	27925-0013	2
16	TOOTH WASHER, #10	15698-0054	6
17	STAND/MTG BRACKET (LONG)	29425-0042	1
18	STAND/MTG BRACKET (SHORT)	29425-0030	1
19	STRAIN RELIEF	15257-0024	1
20	12VDC PWR CONN/CABLE ASSY	46476-0016	1
21	WEIGHT SENS CONN / CAB ASSY	29427-0012	1
22	BP-25R BATT. PAC-115V (NOT SHOWN)	46839-0018	1
	BP-25R BATT. PAC-230V (NOT SHOWN)	46839-0026	1
23	CABLE ASSY,BAT PAC TO IND.,(NOT SHOWN)	22311-0016	1
24	WALL MOUNT PWR SUPPLY-TO-INDICATOR CABLE ASSY (NOT SHOWN)	46852-0010	1

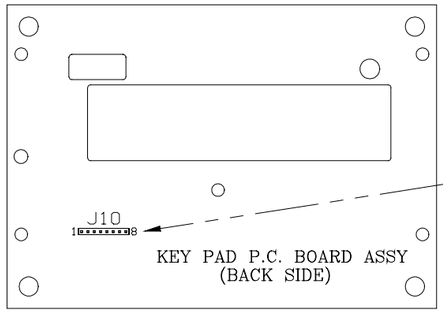


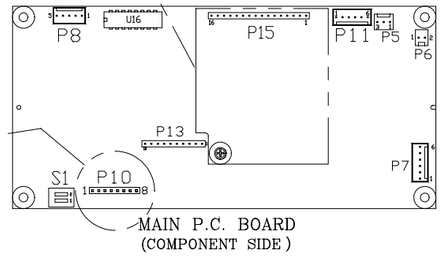


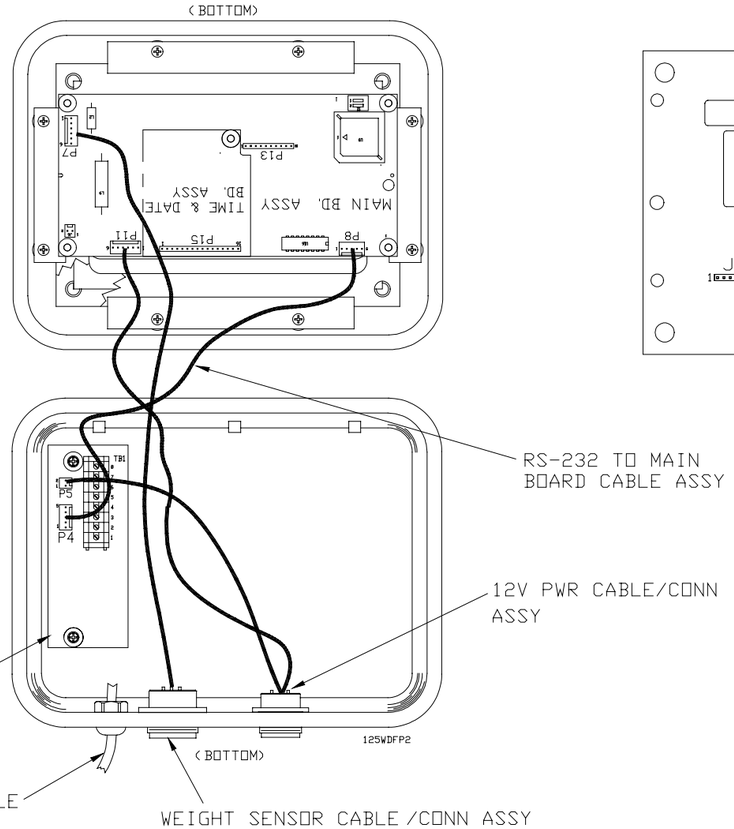
WI-125 WD INDICATOR, *12VDC*

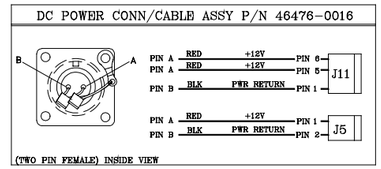
W / WEIGHT SENSOR CONNECTOR
PC BOARD IDENTIFICATION, PIN-OUTS

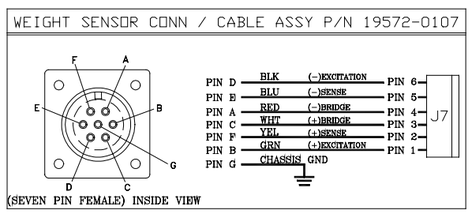


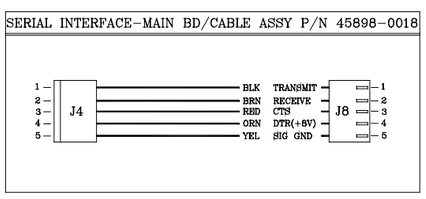


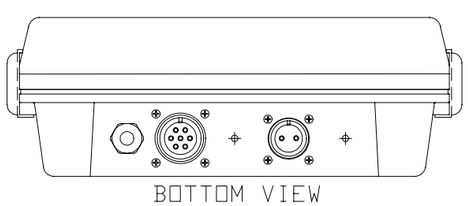




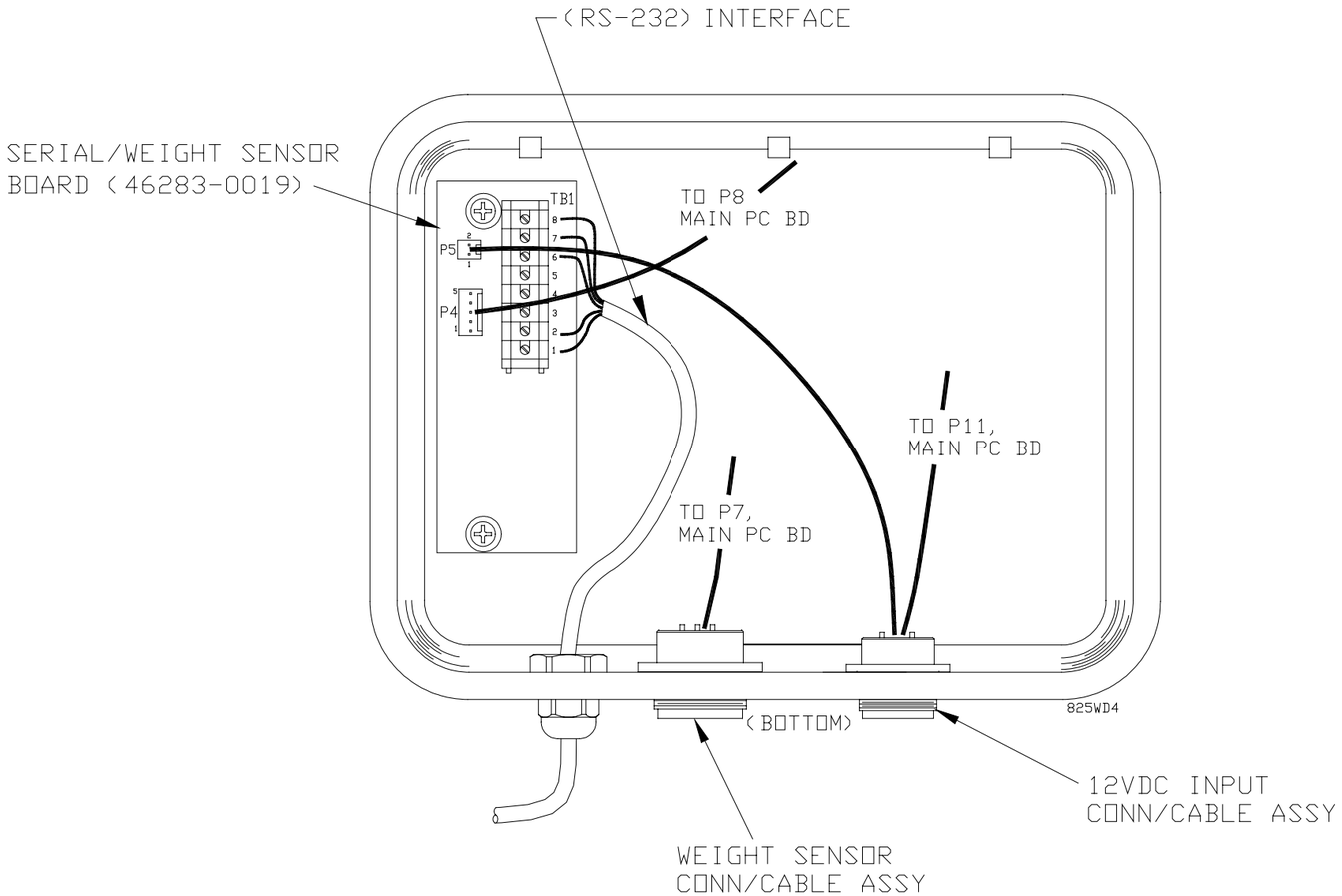








WI-125 WD INDICATOR,*12VDC*
W / WEIGHT SENSOR CONNECTOR
EXTERNAL INTERFACE CONNECTIONS

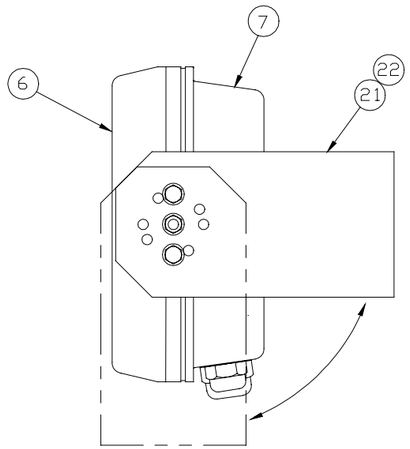


RS-232 Interface Connections	
Terminal Board	Description
TB1-1	Signal Ground
TB1-2	Transmit Data
TB1-3	Receive Data
TB1-4	Data Terminal Ready
TB1-5	Clear To Send
TB1-6	Chassis Ground
TB1-7	+12VDC
TB1-8	Power Return

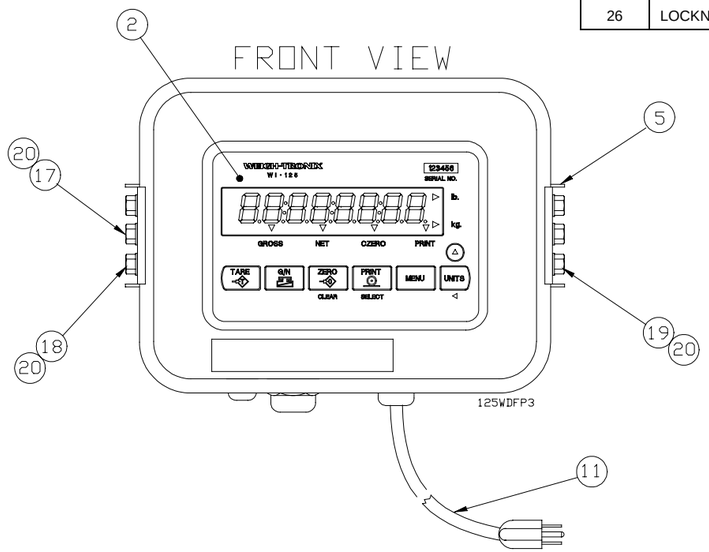
WI-125 WD INDICATOR, *115/230VAC*

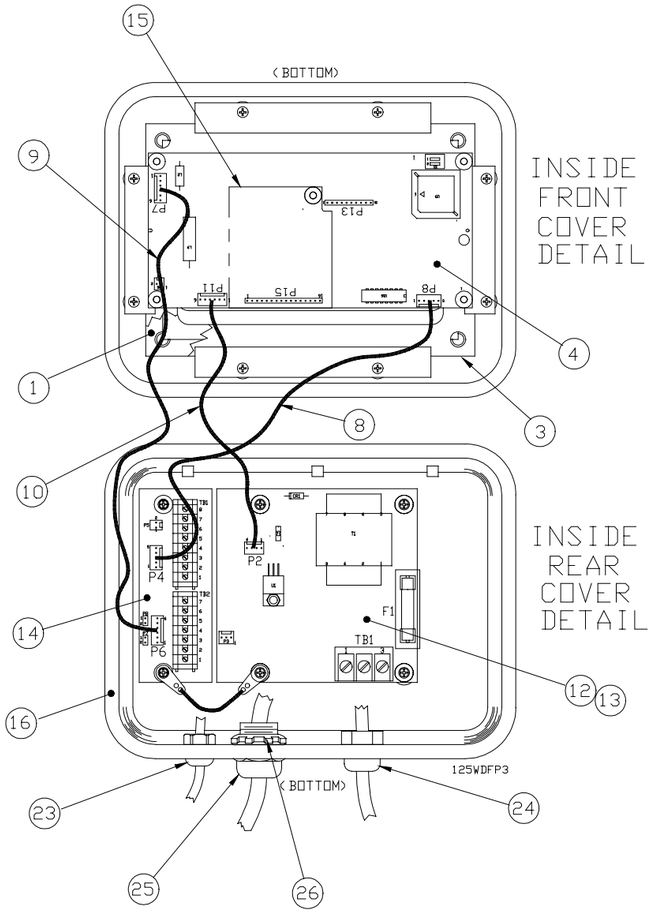
W/O WEIGHT SENSOR CONNECTOR

PARTS AND ASSEMBLY



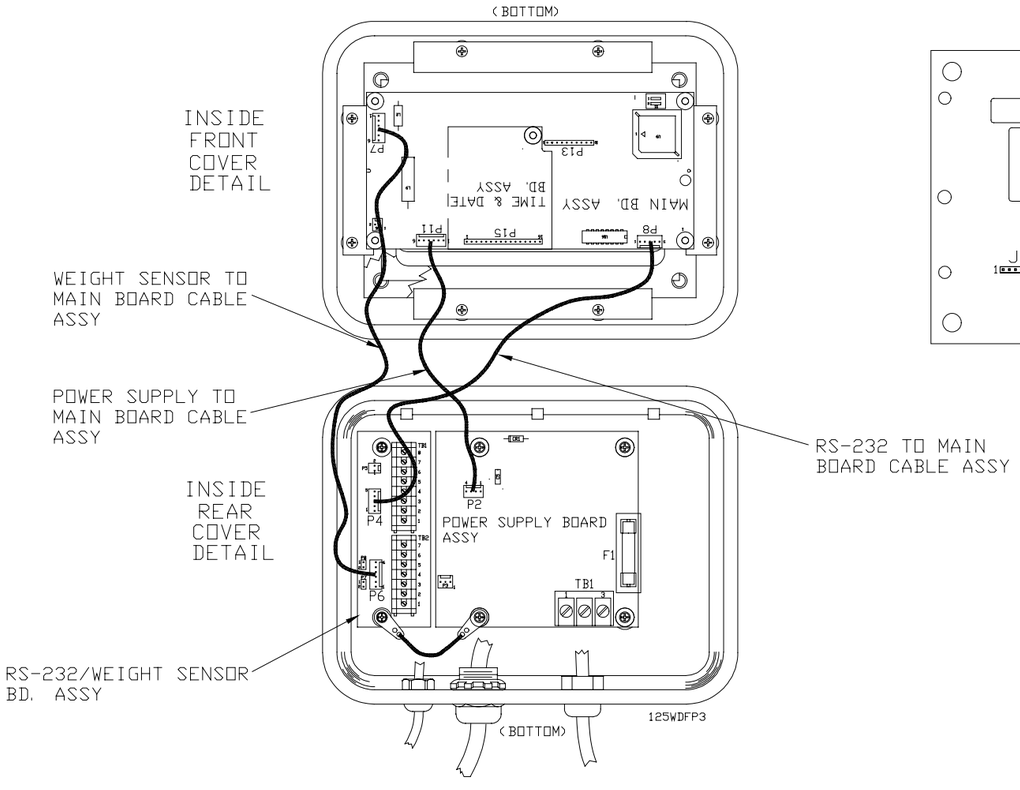
ITEM NO.	DESCRIPTION	W-T P/N	QTY
1	SILICONE GASKET	1055-10389	1
2	KEYPAD/PC BOARD ASSY	45957-0016	1
3	BACKER PLATE	29422-0017	1
4	MAIN BOARD ASSY w/ E-PROM	53042-1049	1
	MAIN BOARD ASSY w/o E-PROM	53042-0033	1
	E-PROM (WI-125 WD)	53659-0029	1
5	ENCLOSURE SEALING BRACKET	1067-09677	2
6	FRONT ENCLOSURE	45902-0012	1
7	REAR ENCLOSURE	45905-0019	1
8	RS-232 / MAIN BD CABLE ASSY	45898-0018	1
9	WEIGHT SENSOR / MAIN BD CABLE ASSY	45897-0019	1
10	PWR SUPPLY/MAIN BD CABLE ASSY	45949-0025	1
11	POWER CORD (115/230)	15318-0013	1
12	PWR SUPPLY BD ASSY (115VAC)	46003-0018	1
13	PWR SUPPLY BD ASSY (230VAC)	46003-0075	1
14	RS-232/WEIGHT SENSOR BOARD ASSY	46283-0035	1
15	TIME & DATE PC BD (OPTIONAL)	29409-0014	1
16	ADHESIVE FOAM GASKET	1045-08401	1
17	CAPSCREW, #10-32 x .38	14505-0035	2
18	CAPSCREW, #10-32 x .50	14505-0050	2
19	CAPSCREW, #10-32 x .50 (SPECIAL)	27925-0013	2
20	TOOTH WASHER, #10	15698-0054	6
21	STAND/MTG BRACKET (LONG)	29425-0042	1
22	STAND/MTG BRACKET (SHORT)	29425-0030	1
23	STRAIN RELIEF	15257-0024	1
24	STRAIN RELIEF	15257-0040	1
25	STRAIN RELIEF	15257-0057	1
26	LOCKNUT	22381-0011	1

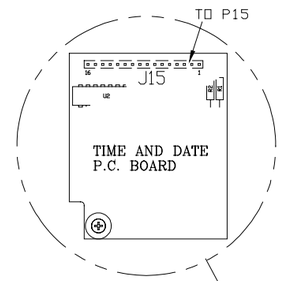


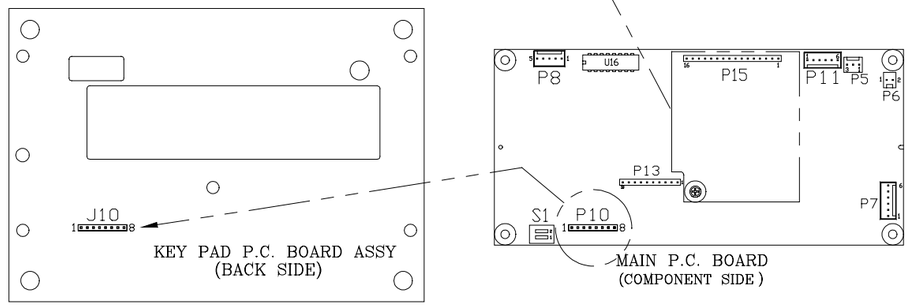


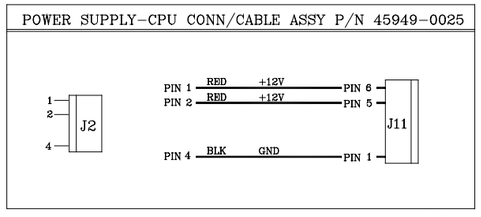
WI-125 WD INDICATOR,*115/230VAC*

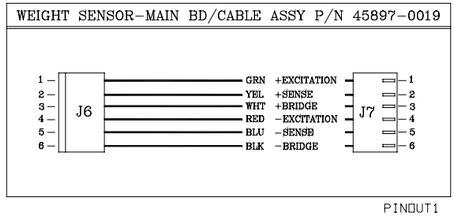
W / O WEIGHT SENSOR CONNECTOR
PC BOARD IDENTIFICATION, PIN-OUTS

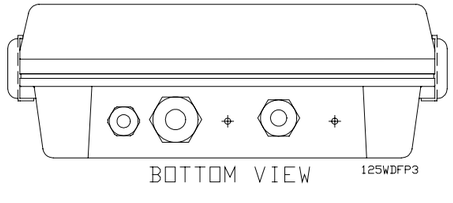


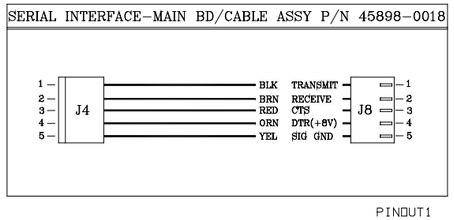




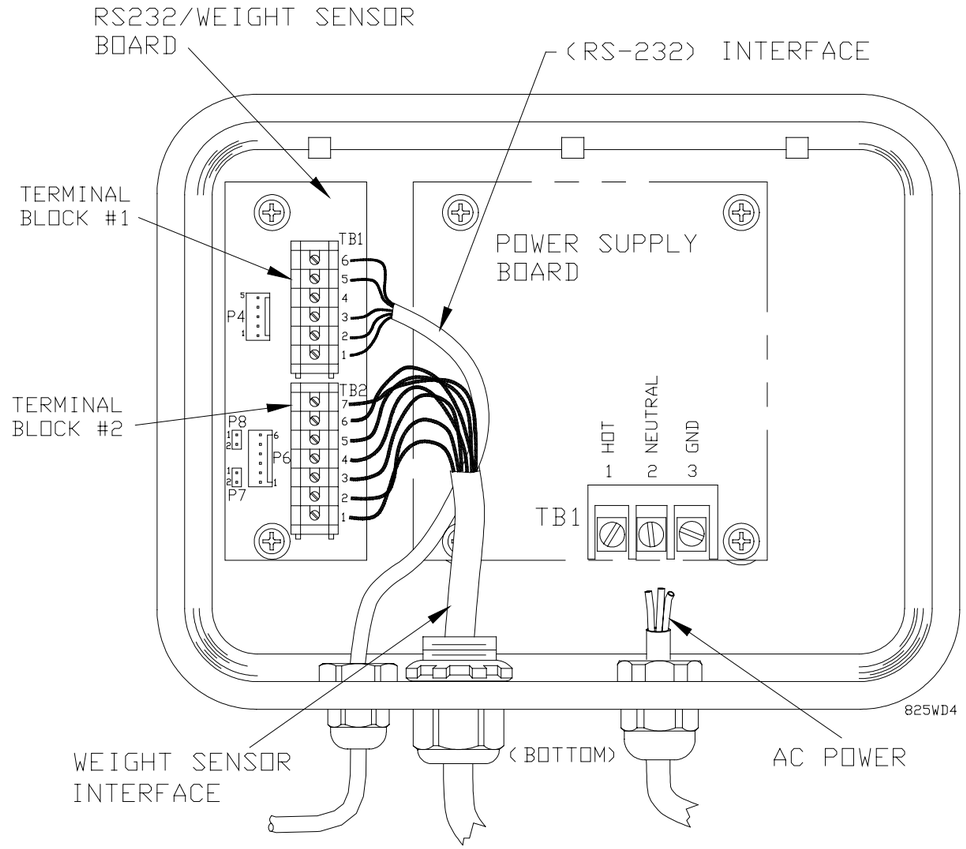








WI-125 WD INDICATOR, *115/230VAC*
W/O WEIGHT SENSOR CONNECTOR,
EXTERNAL INTERFACE CONNECTIONS & WIRE LISTS



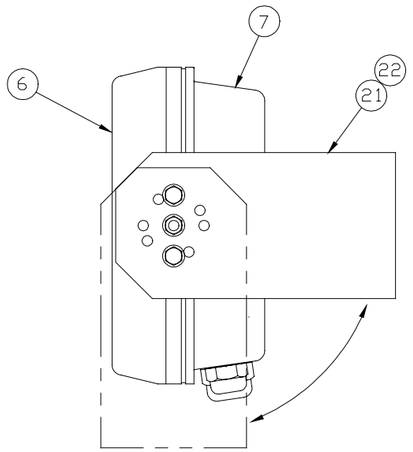
RS-232 *Serial* Interface Connections	
Terminal Block	Description
TB1-1	Signal Ground
TB1-2	Transmit Data
TB1-3	Receive Data
TB1-4	Data Terminal Ready (+8V)
TB1-5	Clear To Send
TB1-6	Chassis Ground

Weight Sensor Interface Signal Cable Connections		
Terminal Block	Description	W-T Wire Color
TB2-1	+Excitation	Green
TB2-2	+Sense	Yellow
TB2-3	+Output	White
TB2-4	Shield (gnd)	White/Orange
TB2-5	-Output	Red
TB2-6	-Sense	Blue
TB2-7	-Excitation	Black

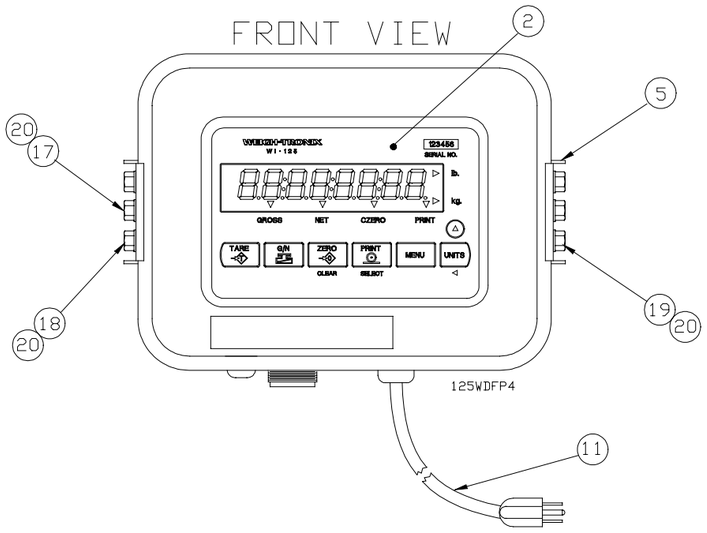
WI-125 WD INDICATOR, *115/230VAC*

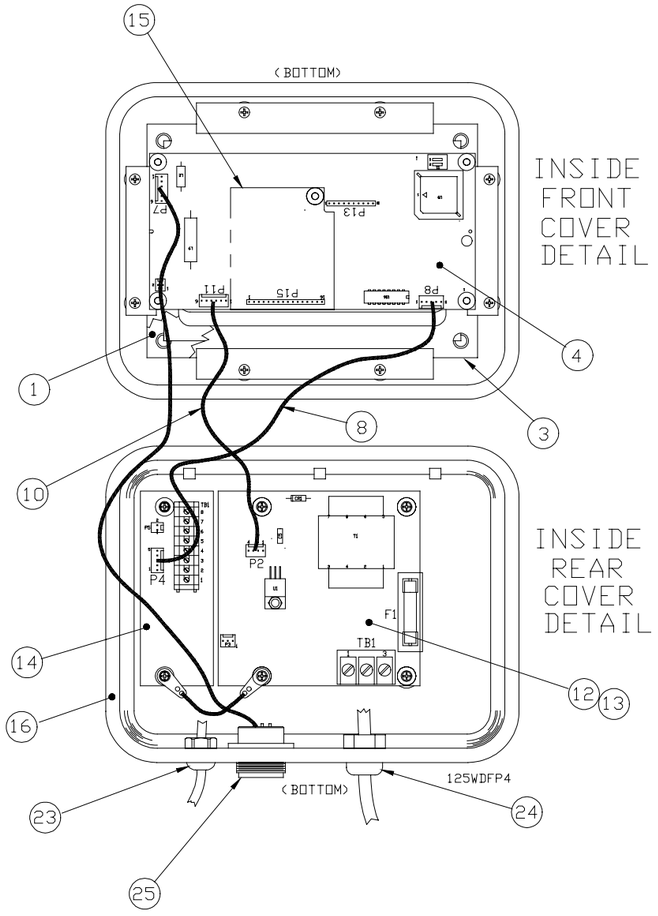
W / WEIGHT SENSOR CONNECTOR

PARTS & ASSEMBLY



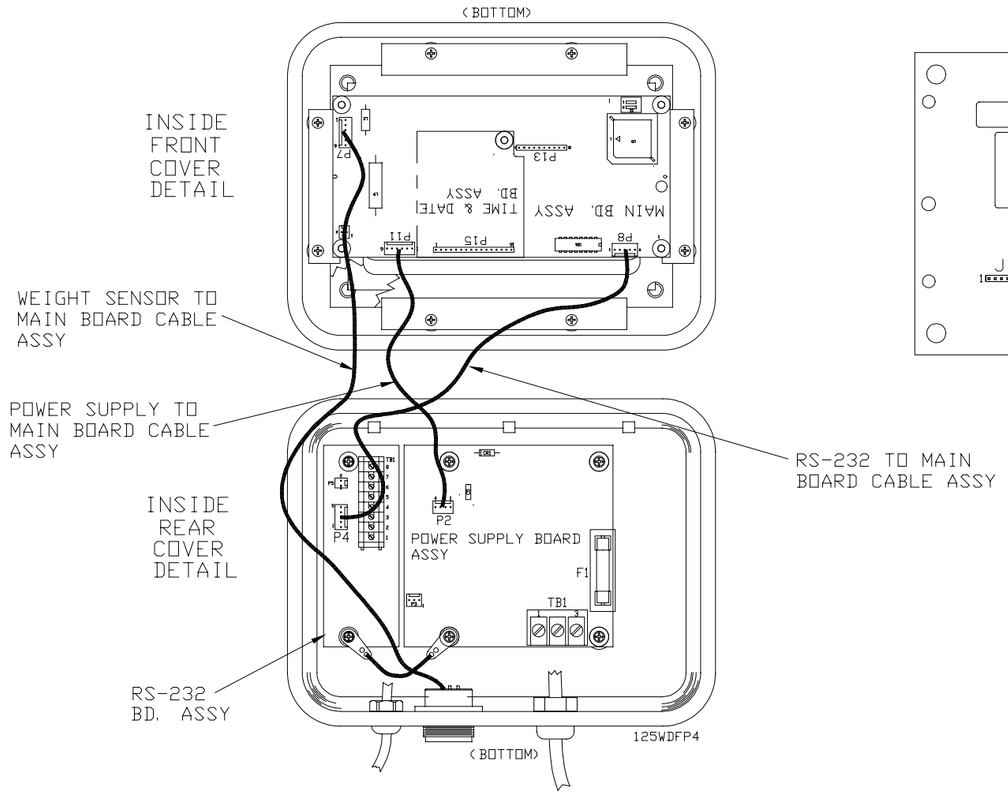
ITEM NO.	DESCRIPTION	W-T P/N	QTY
1	SILICONE GASKET	1055-10389	1
2	KEYPAD/PC BOARD ASSY	45957-0016	1
3	BACKER PLATE	29422-0017	1
4	MAIN BOARD ASSY w/ E\PROM	53042-1049	1
	MAIN BOARD ASSY w/o E\PROM	53042-0033	1
	E-PROM (WI-124 WD)	53659-0029	1
5	ENCLOSURE SEALING BRACKET	1067-09677	2
6	FRONT ENCLOSURE	45902-0012	1
7	REAR ENCLOSURE	46854-0018	1
8	CABLE ASSY,RS232/MAIN BD	45898-0018	1
9	---------- NO PART ----------	--------	----
10	PWR SUPPLY/MAIN BD CABLE ASSY	45949-0025	
11	POIWER CORD (115/230VAC)	15318-0013	1
12	PWR SUPPLY BOARD ASSY (115VAC)	46003-0018	1
13	PWR SUPPLY BOARD ASSY (230VAC)	46003-0075	1
14	RS-232 BD ASSY	46283-0019	1
15	TIME & DATE PC BD (OPTIONAL)	29409-0014	1
16	ADHESIVE FOAM GASKET	1045-08401	1
17	CAP SCREW,#10-32 x .38L	14505-0035	2
18	CAP SCREW,#10-32 x .50L	14505-0050	2
19	CAP SCREW,#10-32 X .50 (SPECIAL)	27925-0013	2
20	TOOTH WASHER, #10	15698-0054	6
21	STAND/MTG BRACKET (LONG)	29425-0042	1
22	STAND/MTG BRACKET (SHORT)	29425-0030	1
23	STRAIN RELIEF	15257-0024	1
24	STRAIN RELIEF	15257-0040	1
25	WEIGHT SENSOR CONN / CABLE ASSY	29427-0012	1

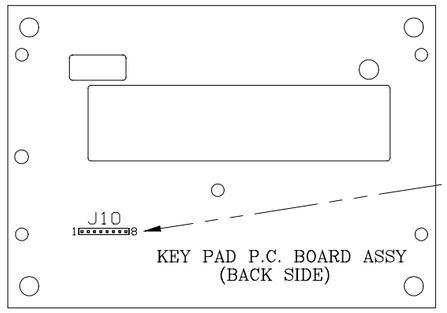


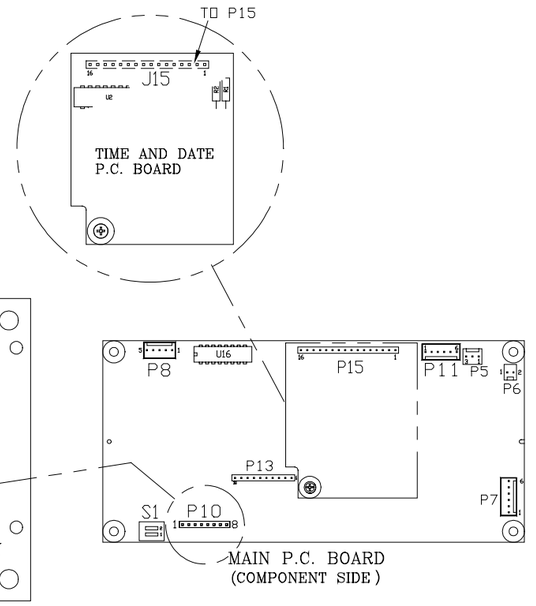


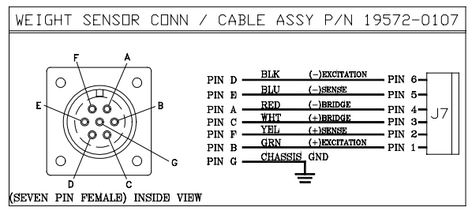
WI-125 WD INDICATOR, *115/230VAC*

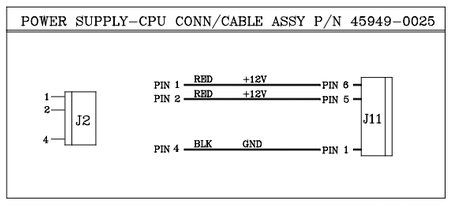
W / WEIGHT SENSOR CONNECTOR, &
PC BOARD IDENTIFICATION AND PIN-OUTS

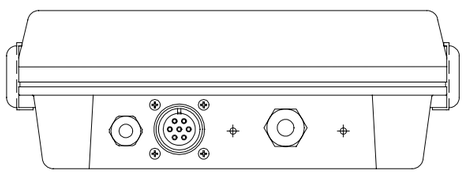


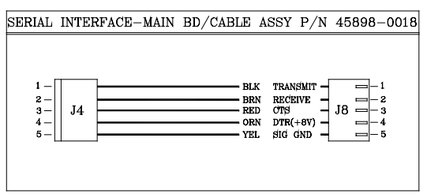




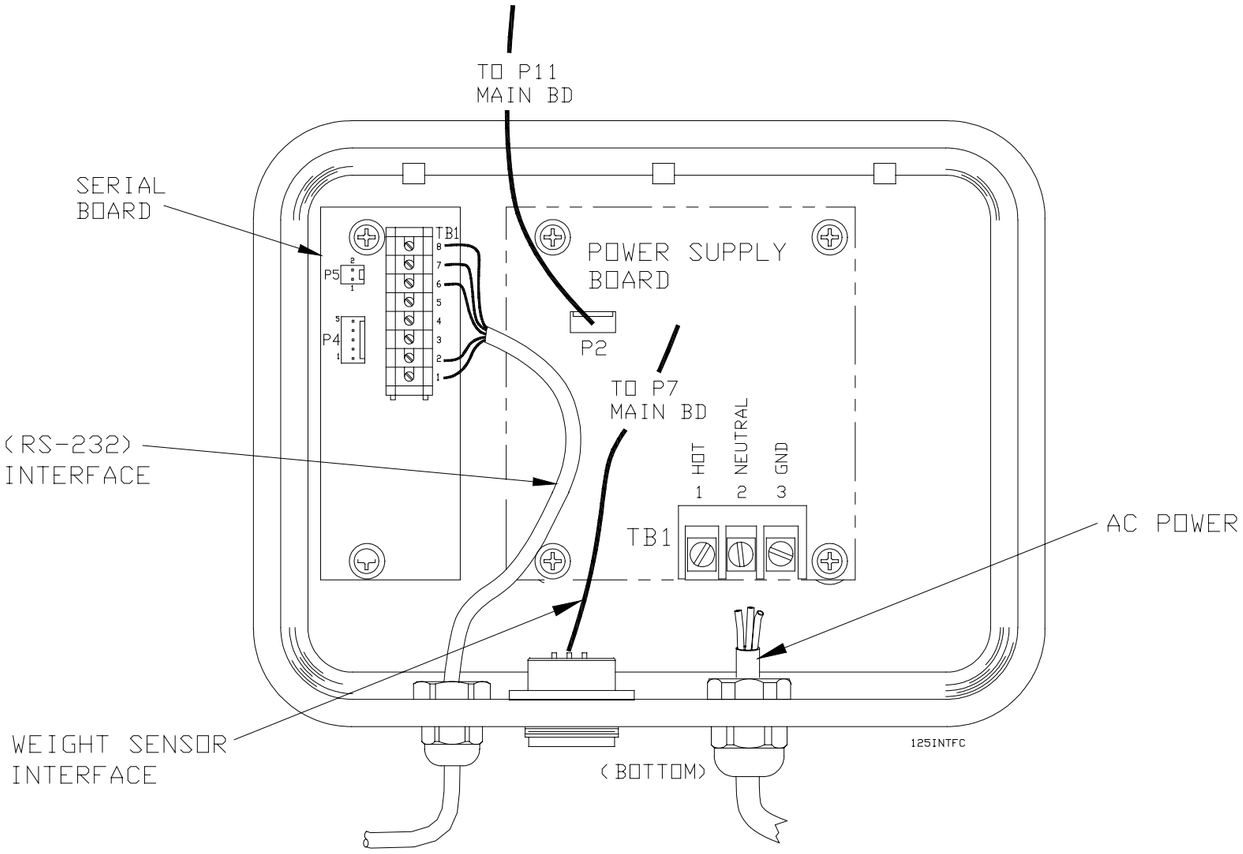








WI-125 WD INDICATOR, *115/230VAC*
W / WEIGHT SENSOR CONNECTOR
EXTERNAL INTERFACE CONNECTIONS W/ WIRE LIST

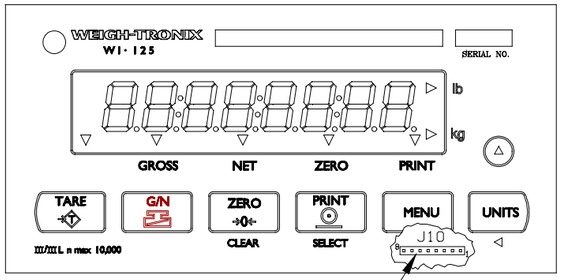


RS-232 Interface Connections	
Terminal Board	Description
TB1-1	Signal Ground
TB1-2	Transmit Data
TB1-3	Receive Data
TB1-4	Data Terminal Ready
TB1-5	Clear To Send
TB1-6	Chassis Ground
TB1-7	+12VDC
TB1-8	Power Return

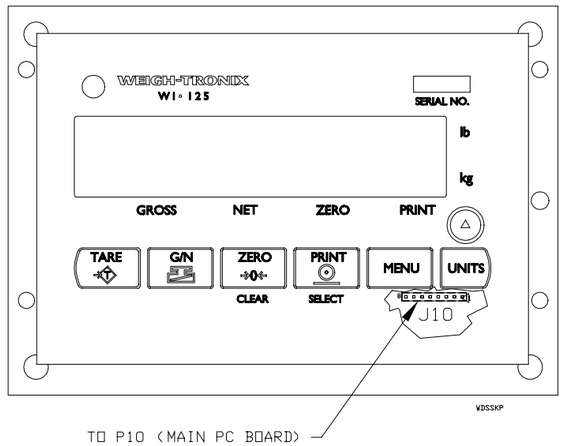
WI-125 INDICATOR

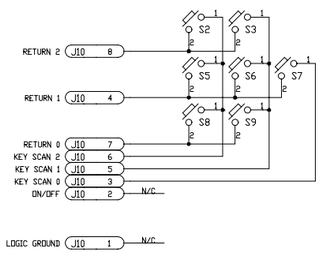
KEYPAD ASSEMBLY AND SCHEMATIC,
MAIN PC BOARD ASSEMBLY

WI-125 METAL ENCLOSURE KEYPAD
P/N 47280-0028



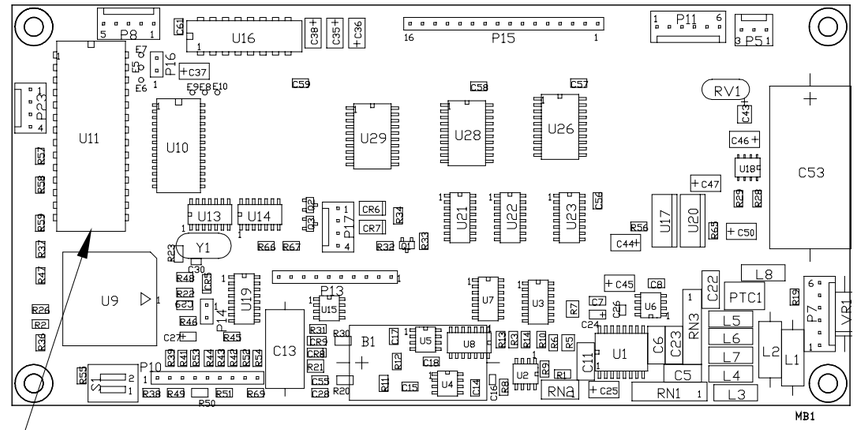
WI-125 NEMA ENCLOSURE KEYPAD ASSY
P/N 45957-0016





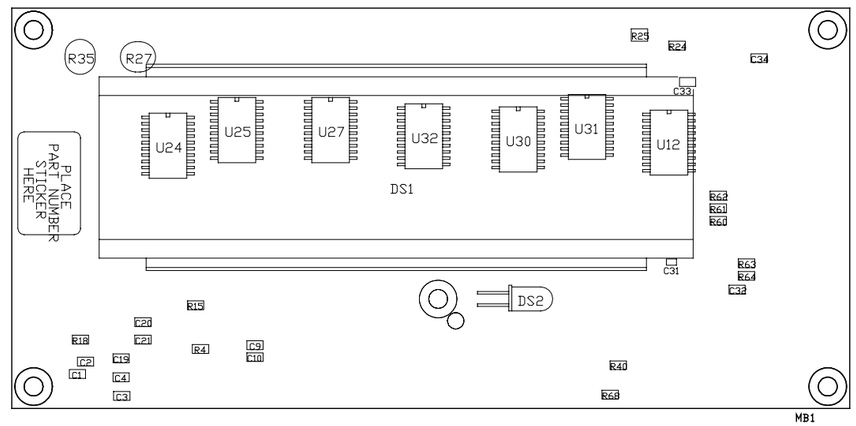
KEY	KEY NAME
S1	ON/OFF (BLUE PANEL, EARLY VERSION ONLY)
S2	TARE
S3	G/N
S4	NET (BLUE PANEL, EARLY VERSION ONLY)
S5	ZERO/CLEAR
S6	PRINT/SELECT
S7	MENU
S8	UNITS
S9	⇧

WI-125 INDICATOR MAIN BOARD (W/ E-PROM)
P/N 53042-1015 (SS), -1023 (FF), -1049 (NEMA)



COMPONENT SIDE

E-PROM P/N 53659-0011 (SS)
E-PROM P/N 53659-0029 (FF)
E-PROM P/N 53659-0029 (WD)

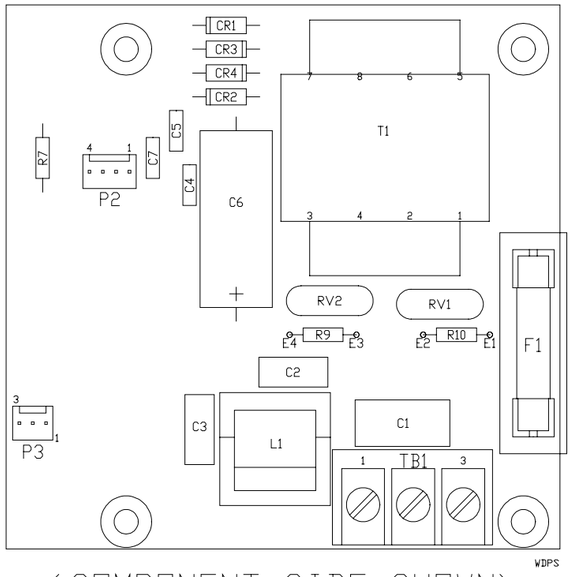


BACK SIDE

WI-125 INDICATOR

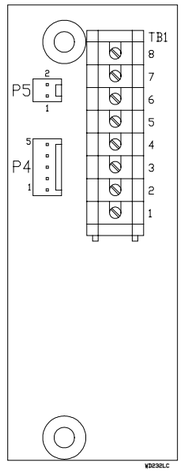
POWER SUPPLY BOARD ASSY (used w/ WD version only),
RS-232 / WEIGHT SENSOR BOARDS (WD version only),
and TIME & DATE BOARD (optional for all versions)

POWER SUPPLY BOARD
P/N 46003-0018 (115VAC)
-0075 (230VAC)



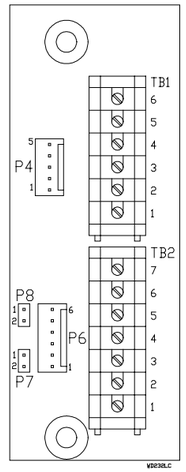
(COMPONENT SIDE SHOWN)

115/230AC W/WEIGHT SENSOR CONN and 12VDC W/WEIGHT SENS CONN



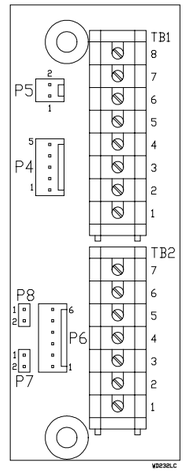
46283-0019

115/230AC W/O WEIGHT SENS CONN

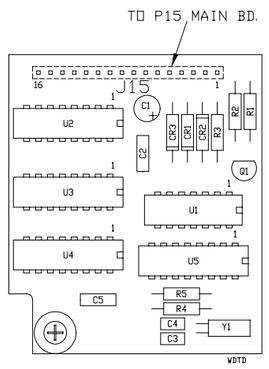


46283-0035

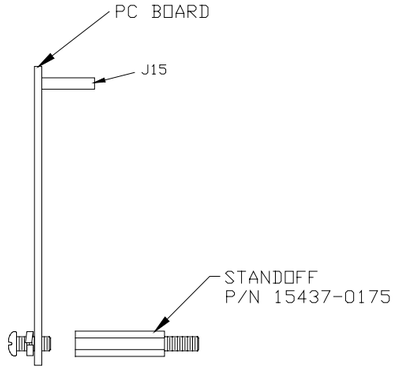
12VDC W/O WEIGHT SENS CONN



46283-0043



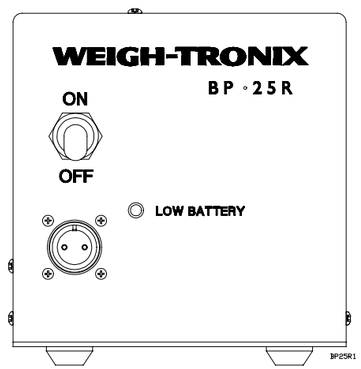
TIME & DATE BD. ASSY
P/N 29409-0014



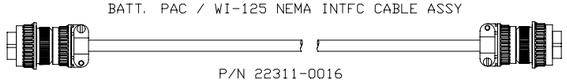
WI-125 INDICATOR

BP-25R BATTERY PACK W/ BUILT-IN CHARGER
P/N 46839-0018 (115VAC), -0026 (230VAC)

FRONT VIEW

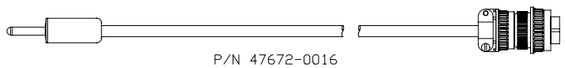


BATT. PAC / WI-125 NEMA INTFC CABLE ASSY

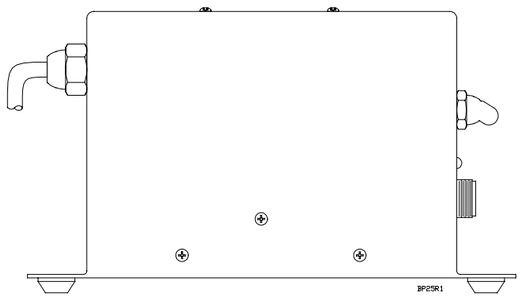


P/N 22311-0016

BATT. PAC / WI-125 METAL ENCL. INTFC CABLE ASSY



P/N 47672-0016



SIDE VIEW

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