WEIGH-TRONIX

# PC-805 Parts Counter
# Service Manual

# Table of Contents

# Specifications

**Capacities and Resolutions:**

| Capacity | Normal Resolution | Expanded Resolution |
|---|---|---|
| 10 lb | 0.001 lb | 0.00005 lb |
| 50 lb | 0.005 lb | 0.0002 lb |
| 100 lb | 0.01 lb | 0.0005 lb |
| 5 kg | 0.0005 kg / 0.5 g | 0.00002 kg / 0.02 g |
| 25 kg | 0.002 kg / 2 g | 0.0001 kg / 0.1 g |
| 50 kg | 0.005 kg / 5 g | 0.0002 kg / 0.2 g |

**Overcapacity Limits:** Overcapacity indication (upper dashes) will occur at 9 divisions over rated capacity or 102% of full scale capacity.

**Internal Resolution:** 1 part in 2,000,000 (QDT™)

**Filters:** Standard digital software filtering

**Display:** Seven digits of seven-segment, high-contrast black LCD, .5" (1.3 cm) high with blue electro-luminescent backlight

**Power:** 15VDC at 300mA from a 117VAC 60Hz inline transformer
Optional 12VDC lead acid battery

**Output:** Bidirectional RS-232 output with selectable baud rate

**Operating environment:** 14° to 104° F (-10° to 40° C)
10 to 90% relative humidity, non-condensing

# What's In This Manual?

This manual contains the information you need to configure, calibrate and service the PC-805 counting scale. The manual is divided into the following sections:

- Scale Menu
- Diagnostic Menu
- Configuration Menu
- Communication
- Technical Drawings and Assemblies

## Accessing Menus and Modes

*Switches not listed in Table are irrelevant to the mode. It does not matter what position they are in for that particular mode.*

The different modes of operation are accessed by placing the switches of SW1 in the positions described in Table 1. Switch SW1 is located under the scale shroud on the right side of the scale. See Figure 1. Calibration, diagnostics, and configuration can also be accessed by pressing and holding the ***PRINT*** key for five seconds.

| Switch SW1 | | |
|---|---|---|
| **ON** | **OFF** | **Mode of Operation** |
| 1, 2 | | Normal Operation Mode |
| 2 | 1 | Menu Mode (Scale, Diag., Config.) |
| | 3 | External Display Mode |

**Table 1**
Switch settings

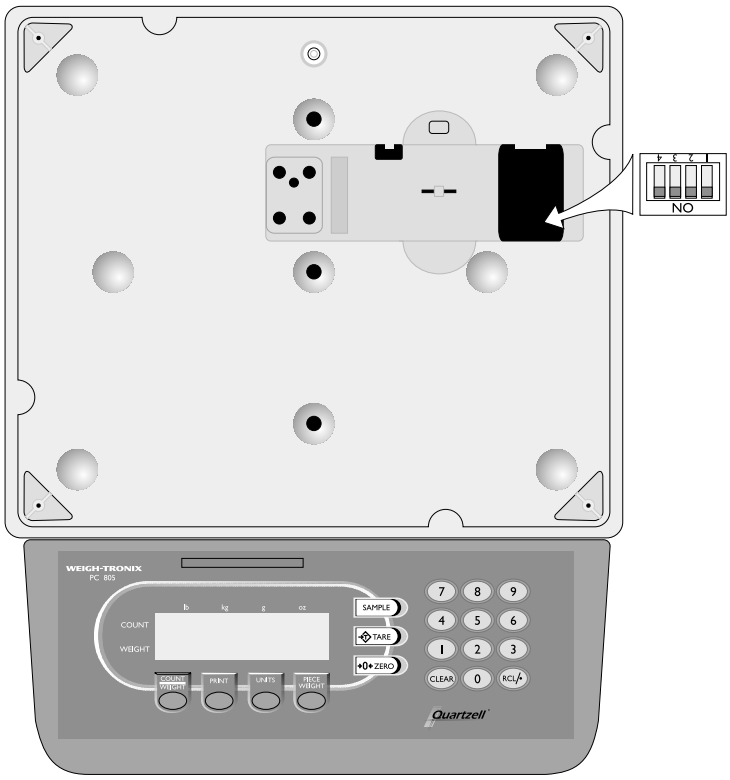



**Figure 1**
Switch SW1 location

# Scale Menu

*Because a 7 segment display cannot show all of the alpha-bet, the words on the display are the closest representations of the words they stand for that can be accomplished. The menus show the words as all caps and clarified in some instances. The explanations in the text will use the letters and case you will see on the display.*

The first menu you see when entering the menu mode is the Scale menu. Follow these steps to explore the Scale menu.

1. Set SW1-2 to the ON position and SW1-1 to the OFF position OR hold the **PRINT** key for 5 seconds.

   The display shows ***SCALE***. The entire Scale menu is shown in Figure 2 below.

2. Follow the legend at the top of the menu to navigate through the menu. Each item is explained on the next pages.

To move → , press the **SAMPLE** key.
To move ← , press the **TARE** key.
To move ↓ , and to choose an option, press the **ZERO** key.
Press **COUNT/WEIGHT** key to go up one menu level.

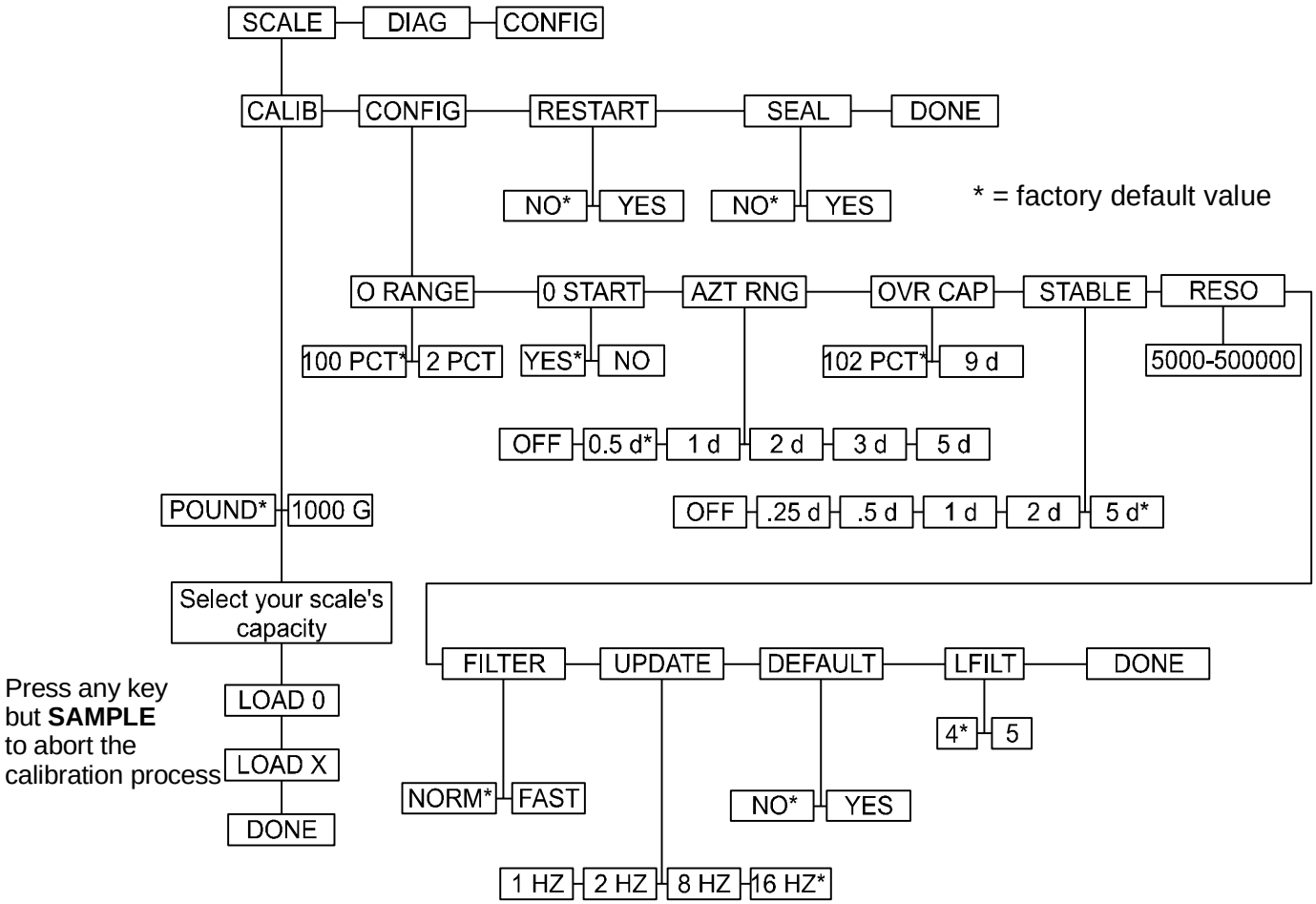



**Figure 2**
Scale Menu

## CALib (Calibration)

***The scale defaults to 10,000d resolution after calibration.***

**Table 2**
Alternate Span Weights

| Scale Capacity | Alt 1 | Alt 2 |
|---|---|---|
| 5 | N/A | N/A |
| 10 | N/A | N/A |
| 25 | 10 | 25 |
| 50 | 10 | 25 |
| 75 | 10 | 50 |
| 100 | 10 | 50 |
| 125 | 10 | 50 |
| 150 | 10 | 50 |
| 200 | 50 | 100 |
| 250 | 50 | 100 |
| 300 | 50 | 100 |
| 500 | 50 | 200 |

*Press any key except the* **SAMPLE** *key to abort calibration. If you abort the procedure,* ***Abort*** *is displayed briefly then* ***CALib****.*

*During calibration the display may show* ***bUSY*** *if scale motion is detected. Wait to see if the display clears. If not, turn off the scale and turn back on. Repeat the calibration procedure*

***CALib*** is the calibration function for the scale. Follow these steps to calibrate your scale:

1. With ***CALib*** displayed, press the **ZERO** key. . .
   ***PoUnd*** or ***1000 g*** is displayed. These are your choices for unit of measure for the calibration test weight.
2. Toggle between these two units of measure by pressing the **SAMPLE** key. With the unit of measure you want displayed, press the **ZERO** key. . .
   A weight capacity is shown on the screen.
3. Press the **SAMPLE** key to scroll through the choices of scale capacity. With your choice displayed, press the **ZERO** key. . .
   ***LoAd 0*** is displayed. Be sure all weight is removed from the scale.
4. Press the **ZERO** key. . .
   ***bUSY*** is briefly displayed then ***LoAd X***. ***X*** is the amount of weight to put on the scale for calibration. You can scroll to an alternate weight by pressing the **ZERO** key. See Table 2 at left.
5. With ***LoAd X*** displayed, place ***X*** weight on the scale and press the **ZERO** key. . .
   ***bUSY*** is briefly displayed then ***donE***. The display then returns to ***CALib***.

## ConFig (Configuration)

ConFig (scale configuration) is the next item under the Scale menu. Below are descriptions of each item in this submenu. Use the **ZERO** and **SAMPLE** keys as you did in the calibration section to navigate through the choices and select the configuration items you want.

***0 rAngE*** Zero range
Choices: **100%** or 2% of full capacity
Use this to set the allowable zero range.

***0 Start*** Zero Start
Choices: **YES** or NO
If YES is select, the scale zeros when it powers up. If NO is selected, the scale will display the weight on the platter when it powers up.

***Azt rng*** Auto zero tracking range
Choices: Off, **0.5d**, 1d, 2d, 3d, 5d
Use this to set the allowable zero tracking range. This will not affect the count or sample modes.

*Bold selections are factory defaults.*

***ovr CAP*** Over capacity
Choices: **102%** or full capacity or 9 divisions
Use this to set the overcapacity limit.

***StAbIE*** Stability
Choices: Off, 0.25d, 0.5d, 1d, 2d, **5d**
Use this to set the stability limit. This is the allowable motion for zero acceptance, tare acceptance and the stable indicator. Off = 100d.

***rESo*** Resolution
Choices: 5k, **10k**, 12.5k, 15k, 20k, 25k, 30k, 40k, 50k, 75k, 100k, 125k, 150k, 200k, 250k, 300k, 400k, 500k
Use this to set the desired scale resolution.

***FiLtEr*** Filter
Choices: **Normal** and Fast
Use this to set the amount of filtering needed for your situation. Choose Fast in situations with excess vibration.

***UPdAtE*** Update
Choices: 1 time/second, 2 times/second, 8 times/second, **16 times/second**
Use this to set the display update rate.

***dEFAULt*** Default
Choices: Yes, **No**
Use this to reset the Config. factory defaults. Calibration will not be affected.

***LFiLt*** LFilter
Choices: **4**, 5
Sets filtering of the QDT® cell. A setting of 4 is more accurate but slows response compared to a setting of 5.

***done*** Done
Hit the SAMPLE key with this displayed to move back to the ***ConFig*** display.

## rEStArt (Restart)

Restart is the next menu item. Use this to reinitialize the scale. You will need to recalibrate if you choose yes.

## SEAL (Seal)

Seal is the next menu item. Choose ***Yes*** if you want to disable access to the scale menu through the front panel **PRINT** key. If yes is chosen and you try to access the scale menu, ***SEALEd*** will be displayed. Choose ***No*** if you want to leave front panel access to the scale menu available.

## done (Done)

Done is the last menu item in the Scale menu. Press the **COUNT/WEIGHT** key to return to the ***SCALE*** display.

# Diagnostic Menu

Figure 3 shows the Diagnostic menu.

To move →, press the **SAMPLE** key.
To move ←, press the **TARE** key.
To move ↓, and to choose an option, press the **ZERO** key.
Press **COUNT/WEIGHT** key to go up one menu level.

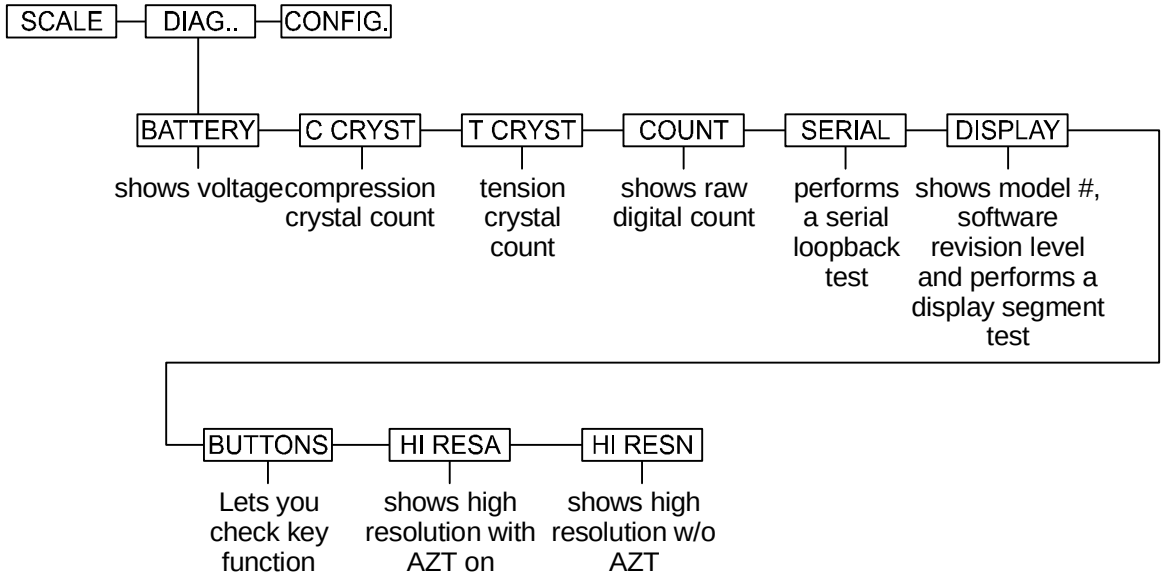



**Figure 3**
Diagnostic menu

Access the diagnostic menu by following the instructions in the section *Accessing Menus and Modes.* Below are explanations for each of the items in this menu. With the test name displayed, press the **ZERO** key to perform the test.

***BAttERY*** Battery
Choose this to display the current battery voltage. Battery voltage will usually read from 11 to 13 volts. The Lo Bat annunciator will show up when voltage drops to 11.5 volts. The scale will shut off when voltage is 10 volts. While recharging, this display will show 13-14.5 volts and if AC powered the display will show approximately 14.5 volts.

*A PC-805 with the backlight enabled and a fully charged battery may be expected to last 12 hours before recharging is necessary. With the backlight disabled the battery will last approximately 24 hours.*

***C CRYSt*** Compression Crystal
Choose this to display the raw digital counts from the compression crystal in the load cell. A typical count with no load on the scale is approximately 2.08 million. This number should increase as weight is applied to the scale. Press the **ZERO** key to end the test.

*For version ? of the Quartzell loadcell the counts should be approximately 2.08 million for the tension and compression.*

***t CRYSt*** Tension Crystal
Choose this to display the raw digital counts from the tension crystal in the load cell. A typical count with no load on the scale is approximately 2.08 million. This number should decrease as weight is applied to the scale. Press the **ZERO** key to end the test.

***Count*** Count
Choose this to display the raw, digital counts from the Quartzell™. The raw count should be approximately 90,000. If tension and compression crystal counts are present and stable, the QDT cell is functioning properly.

***SERIAL*** Choose this to perform a serial loopback test. You must connect the transmit and receive lines together for this test to work. Display will show pass or fail.

***dISPLAY*** Display
Choose this to display the model number, software version part number and revision and to perform a display segment test.

***bUttonS*** Buttons
Choose this to test the keys of the front panel. Each key press is spelled out in the display to show it is functioning properly. The **COUNT/WEIGHT** key will return the display to ***bUttonS***.

***HI RESA*** High resolution with AZT enabled
Choose this to display weight data with 1,000,000 count resolution. AZT is enabled during this test. Press the **SAMPLE** or **COUNT/WEIGHT** key to stop the test.

***HI RESn*** High resolution with no AZT
Choose this to display weight data with 1,000,000 count resolution. AZT is disabled during this test. Press the **SAMPLE** or **COUNT/WEIGHT** key to stop the test.

# Config. (Configuration) Menu

The Config. menu is shown in Figure 4. Access the Config. menu by following the instructions in the section *Accessing Menus and Modes.* Below are explanations for each of the items in this menu.

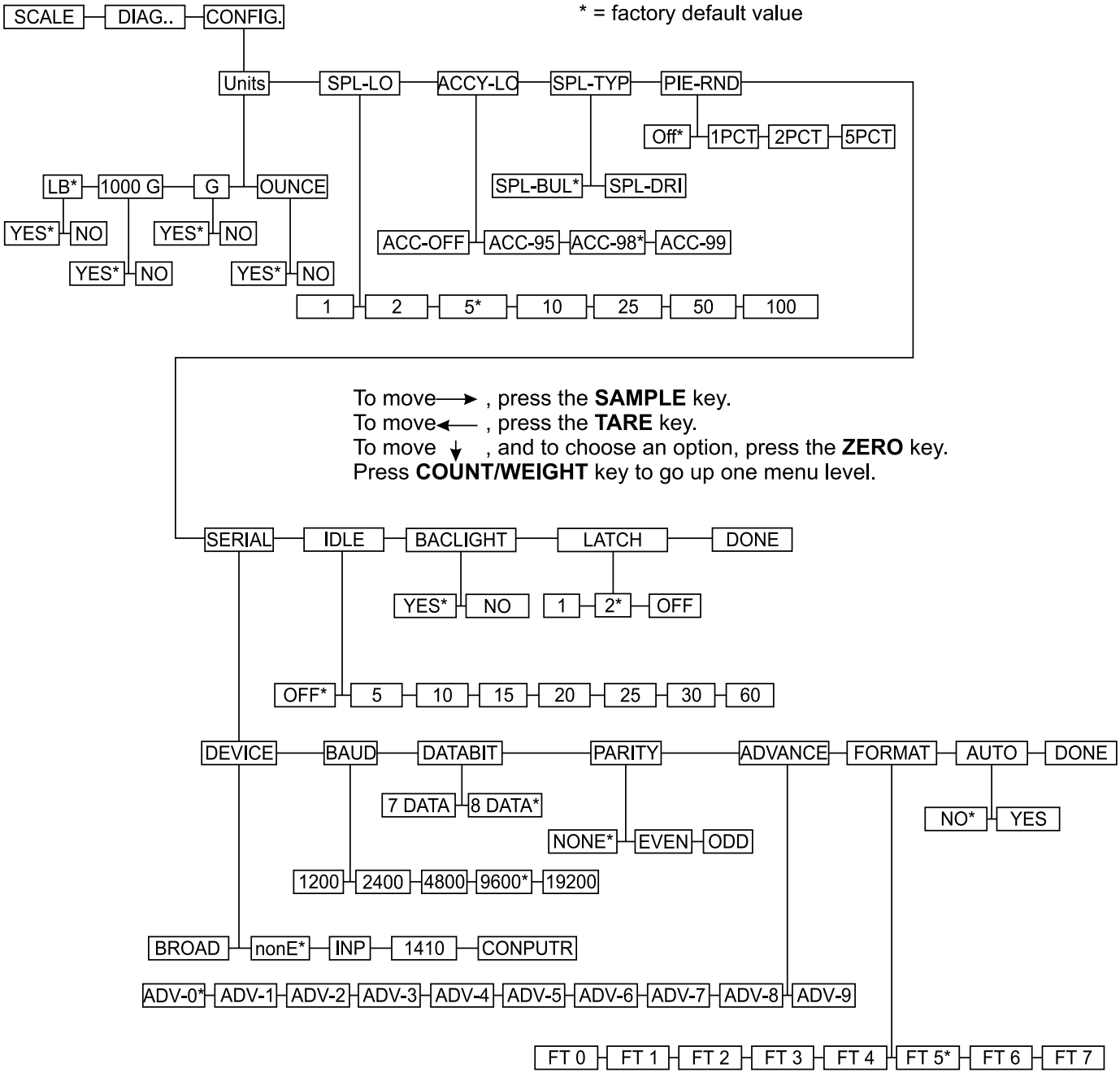



**Figure 4**
Configuration menu

*Bold selections are the factory defaults.*

***UnitS*** Units
Choices: pounds, grams, kilograms, ounces
Enable the unit or units of measure you want to have available when pressing the **UNITS** key. Default is all units are enabled.

***Spl Lo*** Sample low
Choices: 1, 2, **5**, 10, 25, 50, 100
Choose the minimum allowable sample size

***AccY-Lo*** Accuracy low
Choices: Off, 95%, **98%**, 99%
Choose the minimum desired sample accuracy. Reducing sample accuracy requires fewer samples.

***Spl-typE*** Sample type
Choices: **bul** (bulk) and dri (dribble)
Choose the type of sampling you want to use. Pick bulk sampling if you want to place all the sample parts on the scale at the same time. Pick dribble sampling if you will be counting (dribbling) parts onto the scale.

***PIE-rnd*** Piece weight rounding
Choices: **Off**, 1%, 2%, 5%
Choose the percent of piece weight rounding you want.

***Serial*** Serial
Use this submenu to configure the serial interface.

- ***dEVICE*** Device
  Choices: **none**, broadcast, imp printer, 1410, computer
  Use this to choose the device to be interfaced with your scale. If you select imp, the output format will be selected by the format menu. If you select computer, the output is determined by the commands received from the computer. Select broadcast to continuously output the format selected in the format menu. If you pick the 1410 printer, the format shown in the *Print Formats* section is sent.

- ***bAUd*** Baud
  Choices: 1200, 2400, 4800, **9600**, and 19,200
  Choose the baud rate for your serial communication.

- ***dAtAbit*** Databit
  Choices: 7 or **8**
  Choose the data bits to be used in serial communication.

- ***PAritY*** Parity
  Choices: **none**, even, odd
  Choose the parity to be used in serial communication.

- ***AdvAnCE*** Advance
  Choices: **0**, 1, 2, 3, 4, 5, 6, 7, 8, 9
  If you are using an imp printer, use this to choose the number of advances to be inserted after the formatted transmission.

***ForNat*** Format
Choices: 0, 1, 2, 3, 4, **5**, 6, 7
If you are using an imp printer or Broadcast, choose from 8 preformatted outputs. These are described in the *Serial Communications* section of this manual.

***Auto*** Autoprint
Choices: **No** and Yes
If you are using an imp printer, choose no to disable autoprint and yes to enable autoprint. If enabled the weight will automatically be printed after each weight is added and stabilizes. Autoprint will re-arm after the weight has returned to within 10 divisions of net zero.

***donE*** Done
Press the **ZERO** key to return to the ***Serial*** display.

***IdLE*** Idle
Choices: **off**, 5, 10, 15, 20, 25, 30, 60 minutes
Choose the amount of idle time the scale will remain powered when operating under battery power. Choose off if you do not want the scale to automatically shut off. The scale will not do the power zero test if Off is chosen. Maximum battery life with continuous backlight usage is approximately 12 hours on a full charge. Without backlight enabled, battery life is approximately 24 hours.

***Latch*** Sample Latching
Choices: 1, **2**, OFF
Latching, if enabled, gives the appearance of stability immediately following the sample process. The sample latch is broken when motion is detected or if the calculated count is over two pieces away from the sample size. The latch will not function again until another sample process is completed.

***Backlight*** Backlight

Choose to turn backlight on or off. On is the default setting.

***donE*** Done
Press the **ZERO** key to return to the ***ConFig*** display.

# Error Messages

The error messages you might see on the display are shown below.

**EPr Err** EEPROM error - press the **TARE** key to acknowledge the error

**CAL Err** Calibration error - perform calibration procedure to correct

**Lo Bat** Low battery voltage - this annunciator will appear when battery voltage reaches 11.5 volts. The scale will shut off at 10 volts.

# Serial Communications

## Cable Pinouts

*A straight through cable (1 to 1, 2 to 2, etc.) can be used from a 9-pin computer serial port to connect this scale.*

Pinout assignments for the serial communication are shown below.

| 9-pin Female Scale | | |
|---|---|---|
| **Pin** | **Name** | **Direction** |
| 2 | TXD | OUT |
| 3 | RXD | IN |
| 5 | SG | - |

## Preset Print Formats

There are six preset serial print formats. Choose the one you want to use during configuration of the scale. See the *Service Manual* for configuration instructions. The formats are described below.

*If the scale is in count mode, displayed weight formats will send weight, not count.*

Abbreviations:
CR = carriage return
LF = line feed
SP = space
U = units character
W = weight character
C = count character
T = tare character
G = gross weight character
P = piece weight character
I = weight type identifier (G for gross, T for tare and N for net)

**Imp Printer Format 0**

Net weight only:

**WWWW.WW<CR><LF>**

```
4.410
```

**Imp Printer Format 1**

Net weight with units:

**WWWW.WW<SP>UU<CR><LF>**

```
4.410 LB
```

**Imp Printer Format 2**

GTN with units:

**'G'<SP>GGGG.GG<SP>UU<CR><LF>**

**'T'<SP>TTTT.TT<SP>UU<CR><LF>**

**'N'<SP>WWWW.WW<SP>UU<CR><LF>**

```
G 4.410 LB
T 0.000 LB
N 4.410 LB
```

**Imp Printer Format 3**

Displayed weight with identifier:

**I<SP>WWWW.WW<CR><LF>**

```
G 4.410
```

**Imp Printer Format 4**

In Count Mode: **N<SP>CCCC<SP>PCS<CR><LF>**

In Weigh Mode: **I<SP>WWWW.WW<SP>UU<CR><LF>**

```
G 4.410 LB
```

**Imp Printer Format 5**

Net weight with units, count and piece weight:

**Net = WWWW.WW<SP>UU<CR><LF>** (Net = or Gross =)

**Count = CCCCCCC<CR><LF>**

**Piece Wt = .PPPPPP<SP>UU<CR><LF>**

```
GROSS WT:  4.410 LB
COUNT      0
PIECE WT:  0.000000000 LB
```

**Imp Printer Format 6**

Fixed length (nine digits) displayed weight with units.

**sxxxxx.xx uu<CR>** (**s** = positive (a space) or negative (-) weight)

```
     4.410 LB
```

**Imp Printer Format 7**

**COUNT: CCCC<SP>PCS<CR><LF>**

```
COUNT      0 PCS
```

## 1410 Printer Fixed Format Label Output

You may also choose to print a 1410 printer bar code label. This printer has one format shown below. It can be chosen through the configuration menu explained in the Service Manual. The active unit of measure will be printed. This example shows LB.

## Computer Protocol

The scale's RS-232 bidirectional communication works in a master/slave protocol. A computer or master sends a command code to the scale (slave) which will return a response to the master device or perform a scale function. Commands to the scale are in uppercase, terminated with a carriage return. Scale responses begin with the lowercase equivalent of the command code.

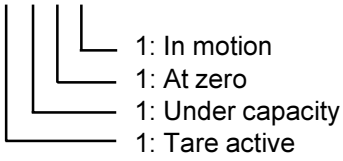
| COMMAND | RESPONSE | DESCRIPTION |
|---|---|---|
| CA<CR> | none | Clear Sample |
| CC<CR> | cc_xxxxx<CR> | Request piece count |
| CP<CR> | cp_xxxxxx_uu<CR> | Request piece weight value |
| CM<CR> | none | Switch to count mode |
| DIxxxxxxxx<CR> | none | Display Message xxxx (message is 8 characters max) |
| IC<CR> | none | Reset Scale (warm start) |
| PWx.xxxxx_uu<CR> | none | Loads xxxx.x as piece weight |
| TR<CR> | tr_x.xxx_uu<CR> | Request tare value |
| TZ<CR> | none | Clear the current tare |
| Txxxx.x_uu<CR> | none | Loads xxxx.x as tare |
| WD<CR> | ws_x.xxxx<CR> | Request net weight |
| WE<CR> | we_x.xxx_uu<CR> | Request net weight with units |
| W<CR> | we_x.xxxx_uuHML<CR> | Request net weight with units and status |
| WG<CR> | wg_x.xxx_uu<CR> | Request gross weight with units |
| WM<CR> | none | Switch to weight mode |
| WS<CR> | ws_HML<CR> | Request scale status |
| WZ<CR> | none | Zero the scale |

**Legend:**

1) "_" ..... represents the ASCII space character
2) "u" ..... represents the units of measure character(s):
   ..... "LB" for pounds
   ..... "KG" for kilograms
   ..... "G" for grams
3) <CR> .. represents the ASCII carriage return
4) HML .... represents three bytes of scale status information as described on the next page.
5) Value entered is assumed to be in same units of measure as what the scale is currently in.
6) Display messages are limited to seven characters.

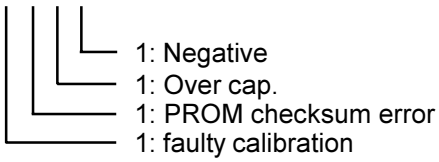
**Scale Status Byte H:**

BIT: 7 6 5 4 3 2 1 0
0 0 1 1 X X X X



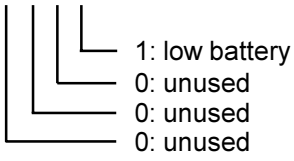

**Scale Status Byte M:**

BIT: 7 6 5 4 3 2 1 0
0 0 1 1 X X X X




**Scale Status Byte L:**

BIT: 7 6 5 4 3 2 1 0
0 0 1 1 0 0 0 X



# Disassembly Instructions

**Warning**

*WARNING! Be sure to counter the torque force applied when loosening or tightening screws connected to the weight sensor, or weight sensor damage may result. Also do not use a "T" handle allen wrench and always lay the palm of your hand on the aluminum top plate when your break loose the top screws.*

If it is necessary to service the PC-805, follow this checklist for disassembly and re-assembly.

❒ 1. Disconnect the scale from the power source and remove the scale shroud.

**SEE WARNING TO THE LEFT.**

❒ 2. Remove the two socket-head screws securing the top plate to the weight sensor. Lift off the top plate. Do not lose the weight sensor spacer located between the top plate and the weight sensor.

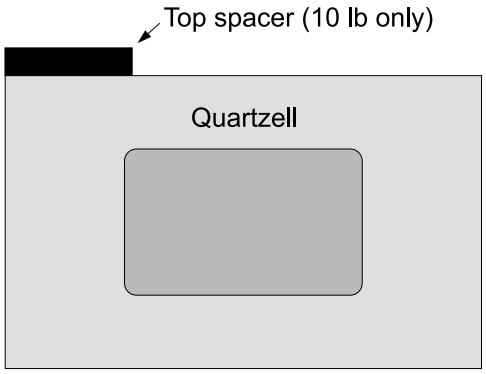



**Figure 5**
Spacer locations

**To access the electronics:**

❒ 3. Disconnect the display cable from the scale base.

❒ 4. Remove the four screws holding the electronics cover plate to the base and lift off the cover.

**To remove the power supply/IO board:**

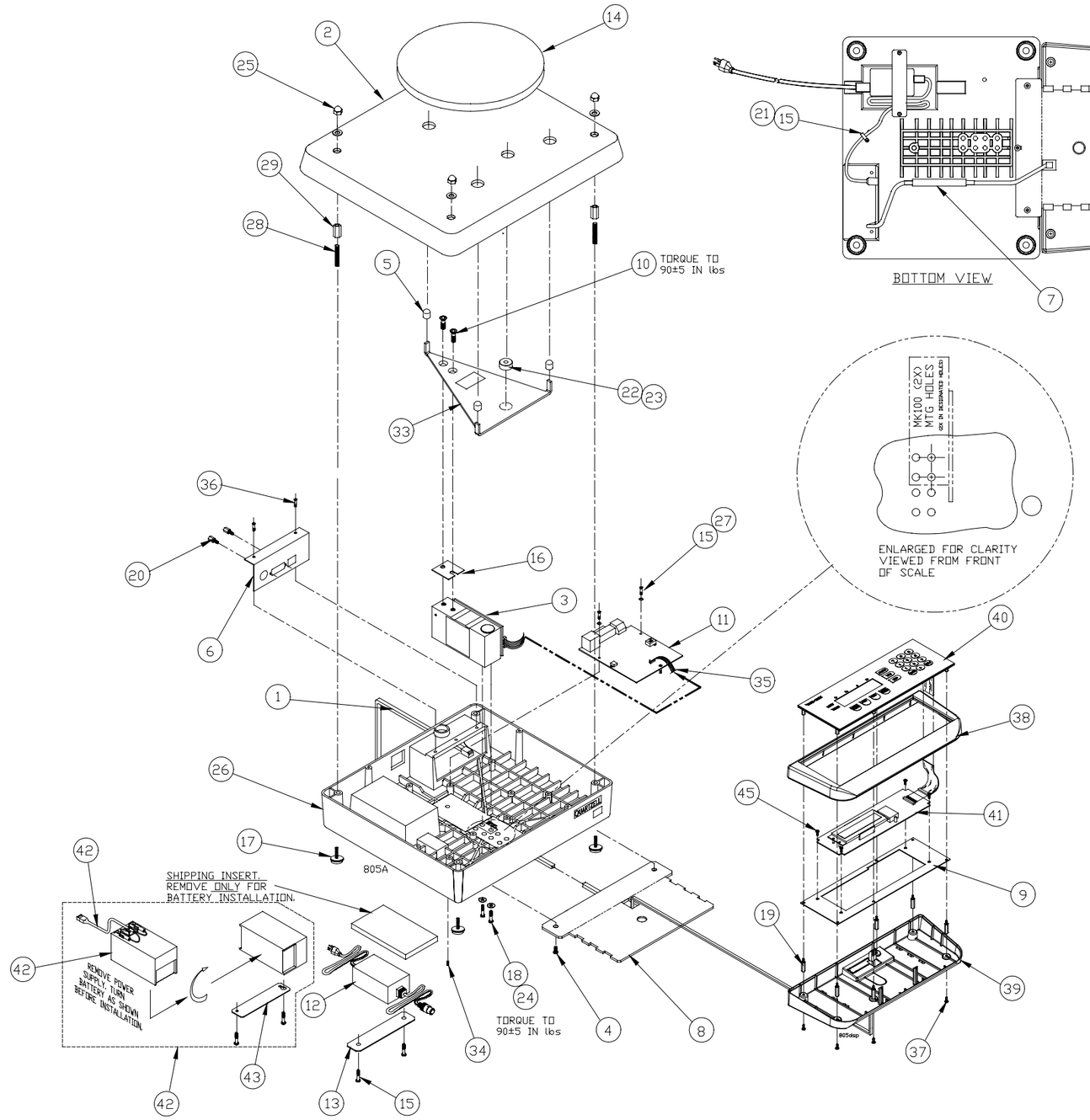
❒ 5. Remove the weight sensor interface cable from the pins on the power supply board.

❒ 6. Remove the screws holding the PC board to the base and lift out the PC board.

# PC-805 COUNTING SCALE

10 lb / 5 kg cap. , 12” x 14” BASE

PARTS AND ASSEMBLY

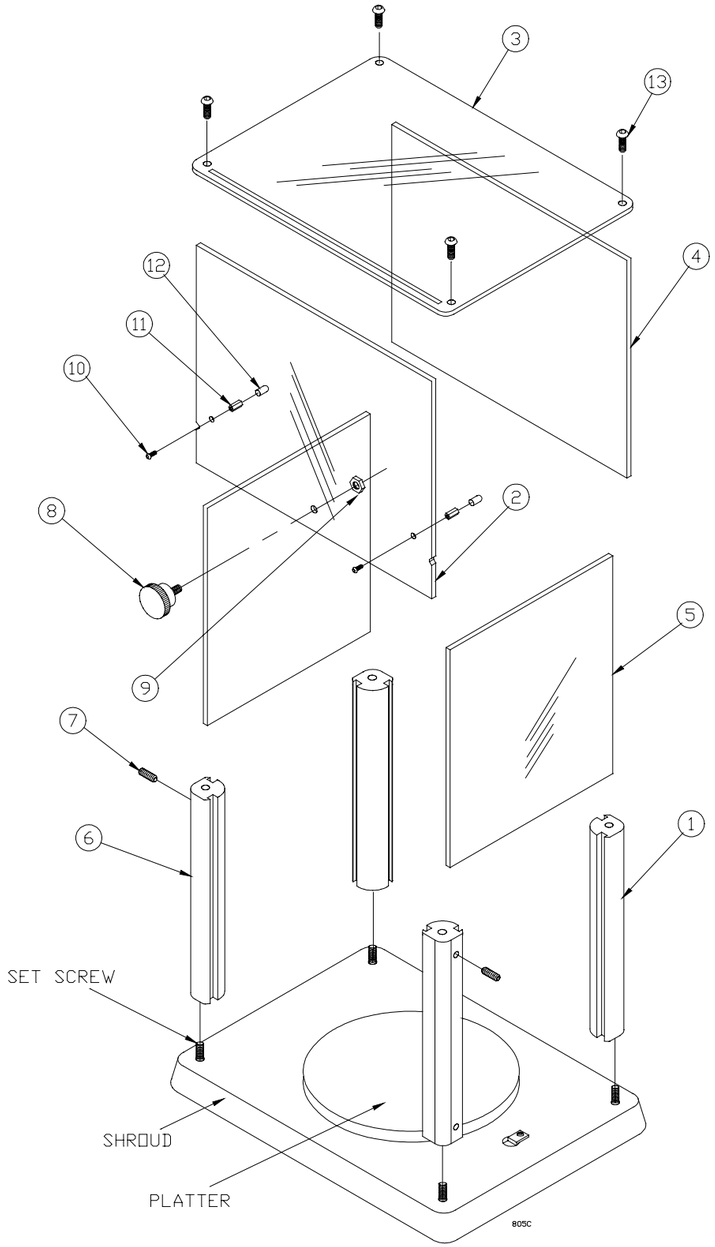



| ITEM NO. | DESCRIPTION | W-T P/N | QTY |
|---|---|---|---|
| 1 | Remote Display Cable Assy | 1140-11832 | 1 |
| 2 | Shroud (10 lb.) | 1076-16136 | 1 |
| 3 | Quartzell Assy | 7153-15694-05 | 1 |
| | Quartzell EPROM (not shown) | 51757-0016 | 1 |
| 4 | Screw, #10-32 x .25"L | 1006-09173 | 2 |
| 5 | Vinyl Cap | 1051-13968 | 3 |
| 6 | I/O Connector Mtg Bracket | 1067-15693 | 1 |
| 7 | PVC Wire Duct | 1074-15171-04 | 1 |
| 8 | Display Mtg Plate | 1069-16135 | 1 |
| 9 | PC Board / Display Mtg PLate | 7069-15968 | 1 |
| 10 | Screw, Flat Head, Hex Soc, 1/4-20 X 1.00"L | 1018-11594 | 2 |
| 11 | Main Interconnect Pc Board | 49995-0012 | 1 |
| 12 | Pwr Supply, 120vac/14vdc, 0.7 amp | 1148-16069 | 1 |
| | Pwr Supply, 230vac/14vdc, 0.7 amp | 1148-16070 | 1 |
| 13 | Pwr Supply Mtg Bracket | 1067-15647 | 1 |
| 14 | Platter | 1076-14702 | 1 |
| 15 | Screw, #6 x .38"L | 1009-05758 | 6 |
| 16 | Aluminum Spacer | 1043-13977 | 1 |
| 17 | Foot Assy | 7075-16213 | 4 |
| 18 | Capscrew, 1/4 x .1.00"L | 1007-02617 | 2 |
| 19 | Standoff,m/f #6 x 1/4 HEX x .75"L | 1044-00275 | 6 |
| 20 | Standoff,m/f #4 x 3/16 HEX x .19"L | 1044-01085 | 2 |
| 21 | Cable Clamp | 1074-00392 | 1 |
| 22 | Level Bubble | 1083-00095 | 1 |
| 23 | Level Bubble Tape | 1045-15177 | 1 |
| 24 | Flat Washer, 1/4" | 1029-00099 | 2 |
| 25 | Acorn Nut, #10 | 1028-16157 | 4 |
| 26 | Base | 7069-15914-02 | 1 |
| 27 | Tooth Washer, #6 | 1031-00128 | 3 |
| 28 | Slotted Stud, 1/4-20 x 2.00"L | 1015-14427 | 4 |
| 29 | Shroud Spacer | 1043-14426 | 4 |
| 33 | Loadbridge | 1066-16179 | 1 |
| 34 | Screw, Locking Hex Socket, | 1011-04367 | 1 |
| 35 | Cable Assy (Quartzell-to-main) | 7140-14118 | 1 |
| 36 | Screw,#6-32 x .25"L | 1009-10039 | 2 |
| 37 | Screw,#6-32 x .38"L | 1006-02604 | 6 |
| 38 | Display Enclosure, Top | 1069-15966 | 1 |
| 39 | Display Enclosure, Bottom | 1069-15967 | 1 |
| 40 | Keypad / Backer Plate Assy | 51937-0019 | 1 |
| 41 | Display Pc Board Assy | 7405-15834-02 | 1 |
| 42 | Battery, 12VDC | 15553-0074 | 1 |
| 44 | Remote Display (complete assy) | 7131-15965 | 1 |
| 45 | Screw, #6 x .25"L | 1006-02598 | 4 |
| 46 | Remote Display Cable, 6 ft. length (optional) | 9570-12450 | 1 |
| 47 | Battery Cable Assy | 50048-0017 | 1 |
| 48 | 12V Battery Kit, (battery,cable,bracket,screws) | 50236-0019 | 1 |

# PC-805 COUNTING SCALE

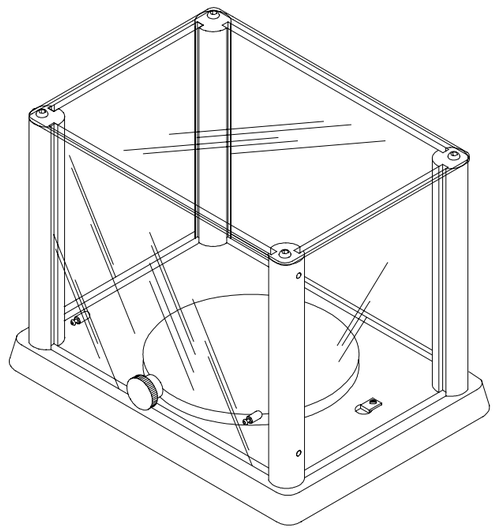
DRAFT SHIELD (optional) *(10 lb. / 5 kg. 12" x 14" BASE VERSION ONLY)*

PARTS AND ASSEMBLY




NOTES:

TO INSTALL DRAFT SHIELD, THE HEXNUT AND PLASTIC CAP AT THE CORNERS OF THE SHROUD NEED TO BE REMOVED AND DISCARDED BEFORE ATTACHING CORNER RODS.

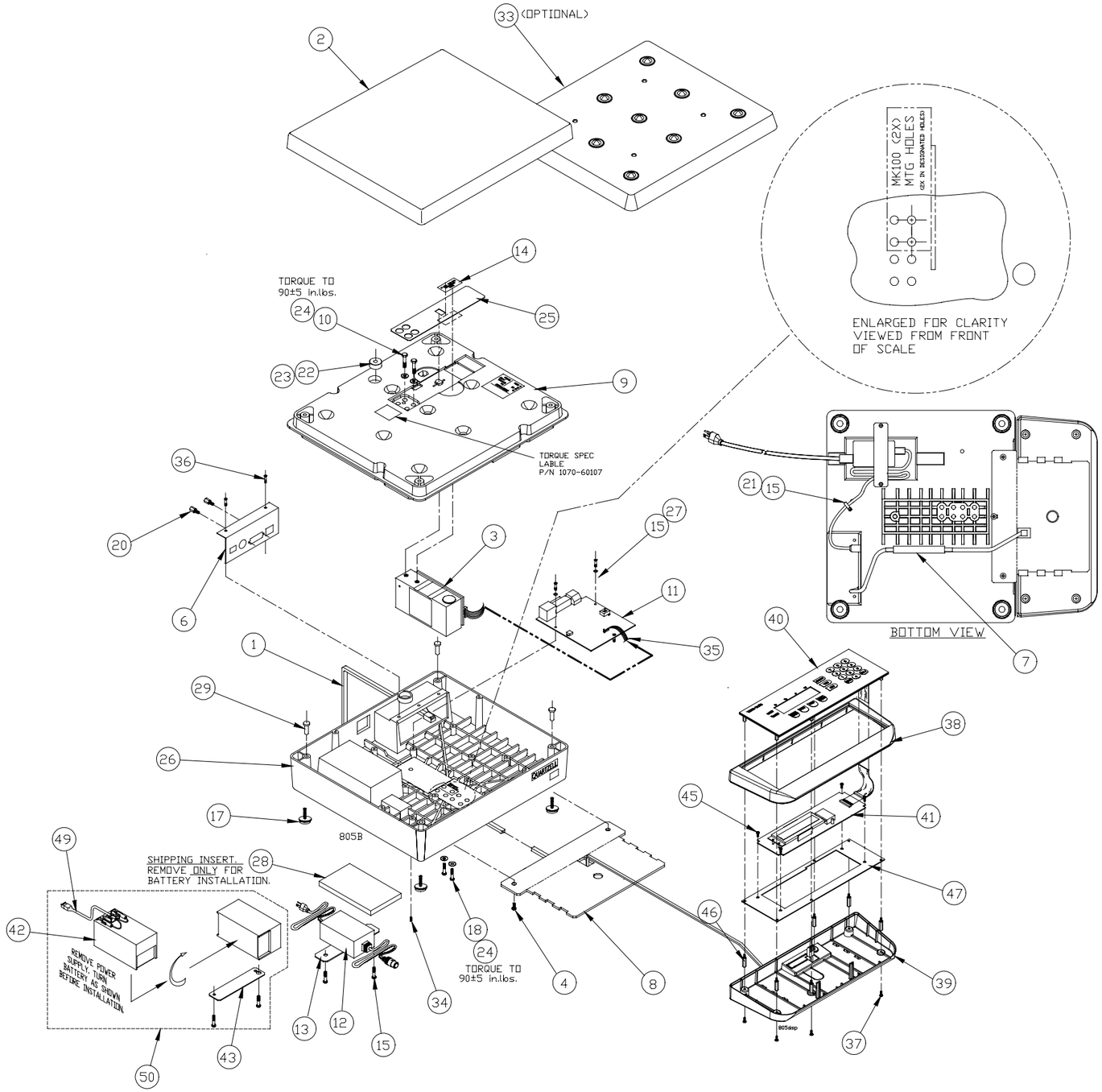


| ITEM NO. | DESCRIPTION | W-T P/N | QTY | QTY |
|---|---|---|---|---|
| 1 | SUPPORT POST | 1058-15413 | 2 | 2 |
| 2 | SHIELD DOOR | 1069-15404 | 1 | 1 |
| 3 | SHIELD TOP PANEL | 1069-15403 | 1 | 1 |
| 4 | SHIELD REAR PANEL | 1069-15406 | 1 | 1 |
| 5 | SHIELD SIDE PANEL | 1069-14604 | 2 | 2 |
| 6 | SUPPORT POST w/SIDE HOLE | 1058-14424 | 2 | 2 |
| 7 | THREADED SPRING / PLUNGER | 1068-14610 | 2 | 2 |
| 8 | KNOB | 1091-14144 | 1 | 1 |
| 9 | HEX NUT, #10-32 | 14506-0059 | 1 | 1 |
| 10 | SCREW, #6-32 x .31" LG | 1001-13790 | 2 | 2 |
| 11 | STANDOFF, #6-32 x .31" LG | 1044-00121 | 2 | 2 |
| 12 | VINYL CAP | 1051-13968 | 2 | 2 |
| 13 | SCREW, .25"-20 x .50" LG | 1007-00538 | 4 | 8 |

# PC-805 COUNTING SCALE

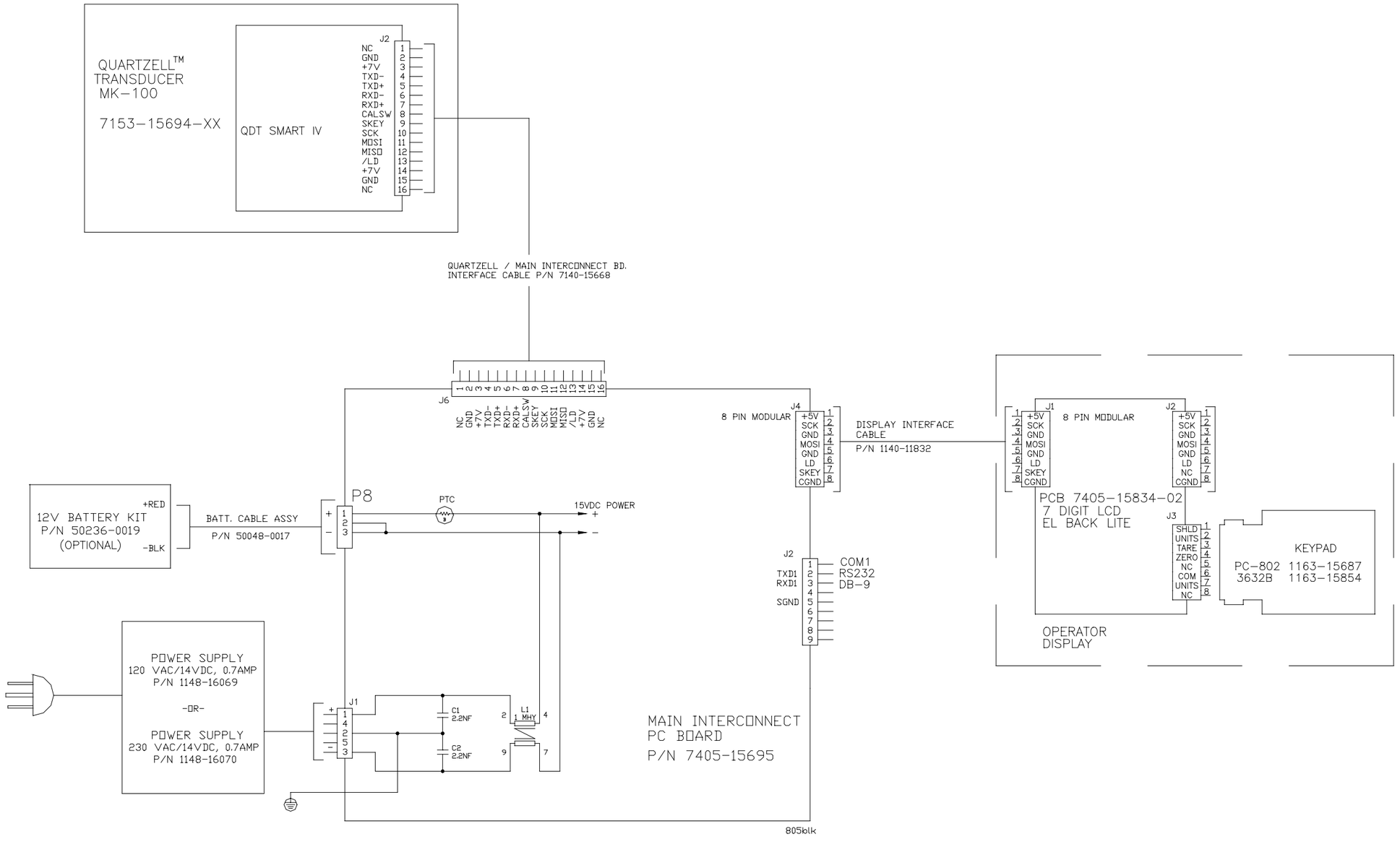
50 lb / 25 kg , *AND* 100 lb / 50 kg cap. , 12” x 14” BASE

PARTS AND ASSEMBLY

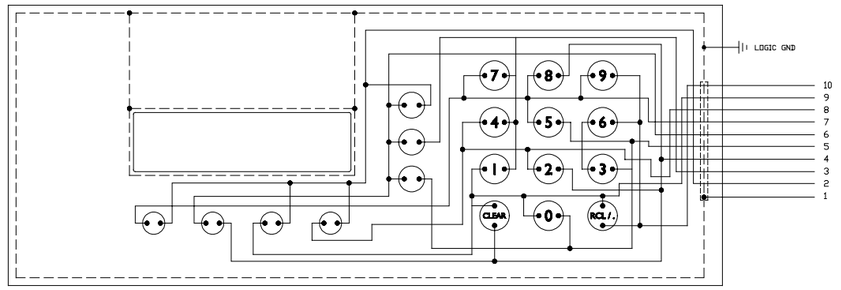


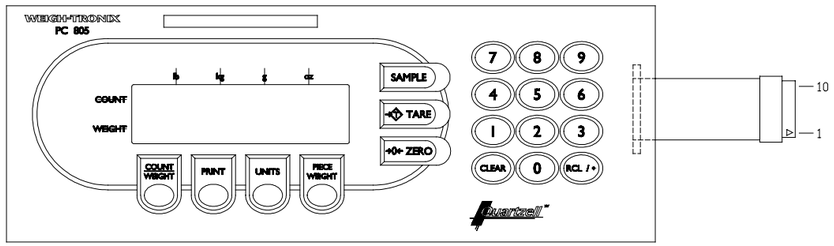

| ITEM NO. | DESCRIPTION | W-T P/N | QTY |
|---|---|---|---|
| 1 | Remote Display Cable Assy | 1140-11832 | 1 |
| 2 | Shroud (dished) | 1076-14741 | 1 |
| 3 | Quartzell Assy (50lb / 25kg cap.) | 7153-15694-32 | 1 |
| | Quartzell Assy (100lb / 50kg cap.) | 7153-15694-50 | 1 |
| | Quartzell EPROM (not shown) | 51757-0016 | |
| 4 | Screw, #10-32 x 3/8"L | 1006-02039 | 2 |
| 6 | I/O Connector Mtg Bracket | 1067-15693 | 1 |
| 7 | PVC Wire Duct | 1074-15171-04 | 1 |
| 8 | Display Mtg Plate | 1069-16135 | 1 |
| 9 | Loadbridge | 1066-15993 | 1 |
| 10 | Capscrew, Hex, 1/4-20 X 1.00"L | 1007-02617 | 4 |
| 11 | Main Interconnect Pc Board | 7405-15695 | 1 |
| 12 | Pwr Supply, 120vac/14vdc, 0.7 amp | 1148-16069 | 1 |
| | Pwr Supply, 230vac/14vdc, 0.7 amp | 1148-16070 | 1 |
| 13 | Pwr Supply Mtg Bracket | 1067-15693 | 1 |
| 14 | Sealing Cover Label | 1070-60103 | 1 |
| 15 | Screw, #6 X .38"L | 1009-05758 | 6 |
| 17 | Foot Assy | 7075-16213 | 4 |
| 19 | Ground Spring | 1068-07674 | 2 |
| 20 | Standoff,m/f #4 x 3/16HEX x .19"L | 1044-01085 | 2 |
| 21 | Cable Clamp | 1074-00392 | 1 |
| 22 | Level Bubble | 1083-00095 | 1 |
| 23 | Adhesive Tape (for bubble) | 1045-13049 | 1 |
| 24 | Flat Washer, 1/4" | 1029-00099 | 4 |
| 25 | Access / Security Cover | 1069-15766 | 1 |
| 26 | Base | 7069-15278 | 1 |
| 27 | Tooth Washer, #6 | 1031-00128 | 3 |
| 28 | Shipping Block | 1084-15131 | 1 |
| 29 | Load Stop Pin (50lb / 25kg) | 1090-16074-32 | 4 |
| | Load Stop Pin (100lb / 50kg) | 1090-16074-50 | 4 |
| 33 | Ball Top Shroud (optional) | 7076-15118 | 1 |
| 34 | Screw, Locking Hex Socket, | 1011-15213 | 1 |
| 35 | Cable Assy (Quartzell-to-main) | 7140-14118 | 1 |
| 36 | Screw,#6-32 x .25"L | 1009-10039 | 2 |
| 37 | Screw,#6-32 x .38"L | 1006-02604 | 6 |
| 38 | Display Enclosure, Top | 1069-15966 | 1 |
| 39 | Display Enclosure, Bottom | 1069-15967 | 1 |
| 40 | Keypad / Backer Plate Assy | 51937-0019 | 1 |
| 41 | Display Pc Board Assy | 7405-15834-02 | 1 |
| 42 | Battery, 12VDC | 15553-0074 | 1 |
| 44 | Remote Display (complete assy) | 7131-15965 | 1 |
| 45 | Screw, #6 x .25"L | 1006-02598 | 4 |
| 46 | Standoff, #6 x .75"L | 1044-00275 | 6 |
| 47 | PC Board Mtg Plate | 7069-15968 | 1 |
| 48 | Remote Display Cable, 6 ft. length (optional) | 9570-12450 | 1 |
| 49 | Battery Cable Assy | 50048-0017 | 1 |
| 50 | 12V Battery Kit, (battery,cable,bracket,screws) | 50236-0019 | 1 |

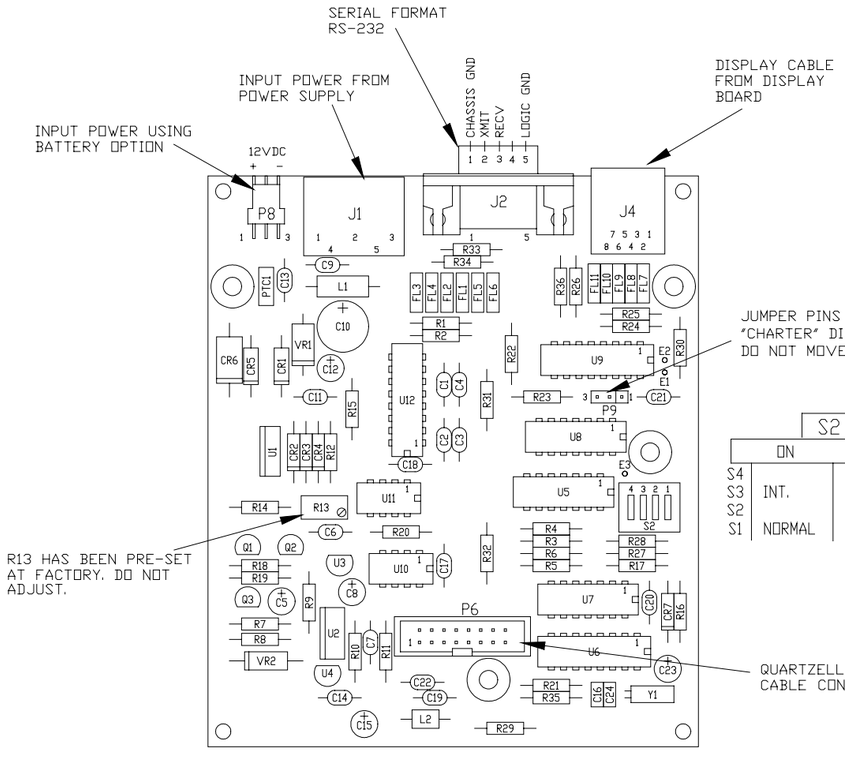
# PC-805 COUNTING SCALE
SYSTEM WIRING BLOCK DIAGRAM



## KEYPAD OVERLAY & MATRIX

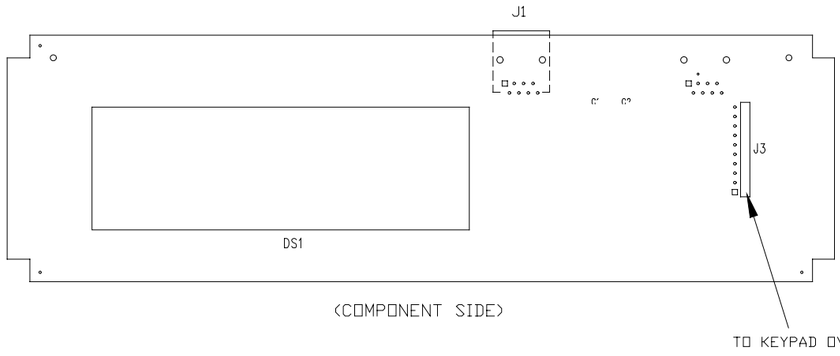


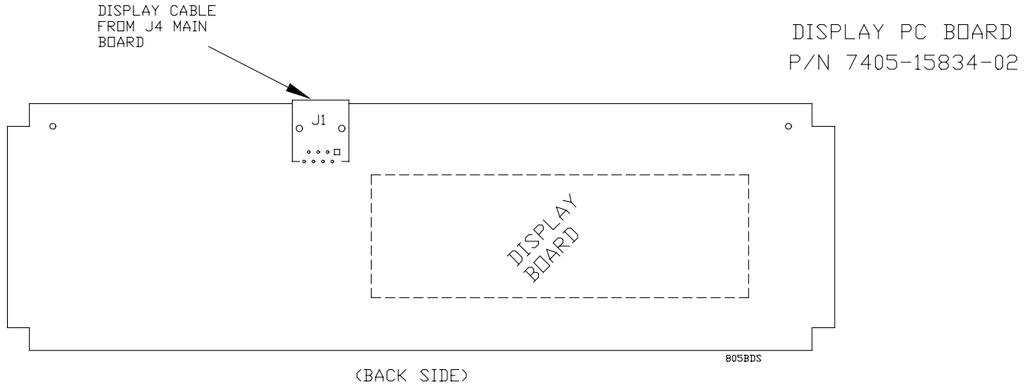




| S2 | ON | OFF |
|---|---|---|
| S4 | | N/A |
| S3 | INT. | EXT. KEYPAD |
| S2 | | N/A |
| S1 | NORMAL | MENU MODE |

MAIN INTERCONNECT PC BOARD
(COMPONENT SIDE)
P/N 49995-0012




(COMPONENT SIDE)




DISPLAY PC BOARD
P/N 7405-15834-02

(BACK SIDE)

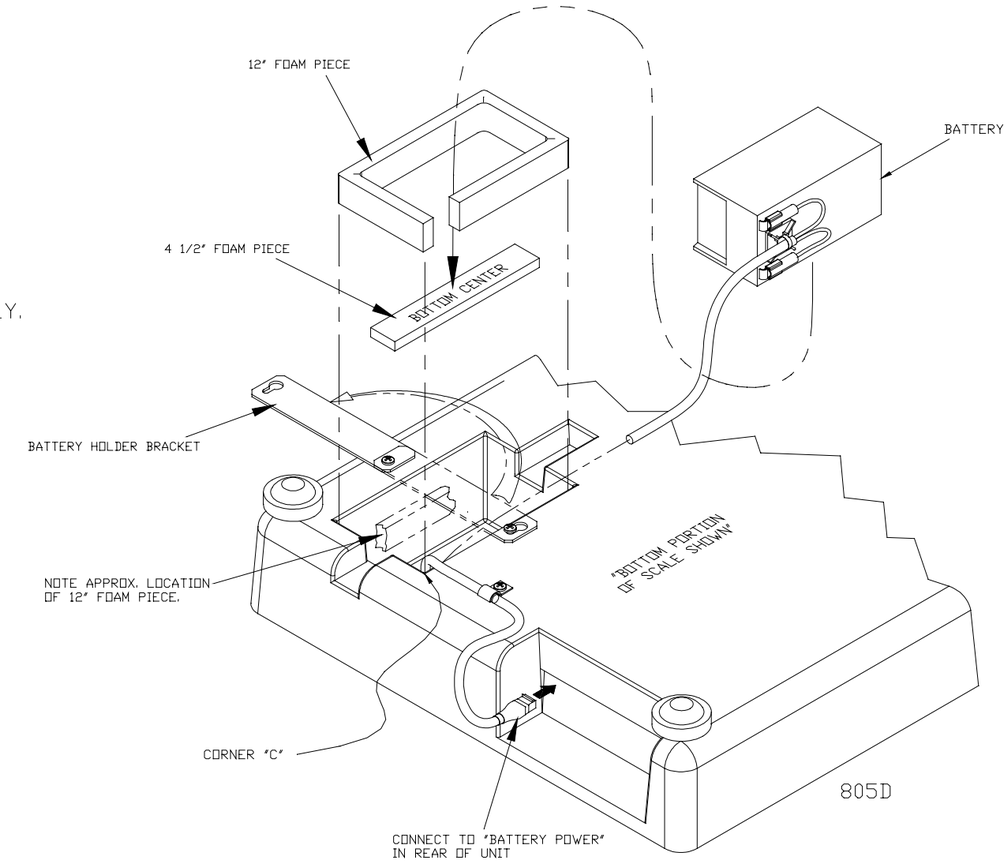
# PC-805 COUNTING SCALE

BATTERY INSTALLATION

(Battery Kit P/N 29676-0010)

## DIRECTIONS FOR INSTALLING BATTERY KIT:

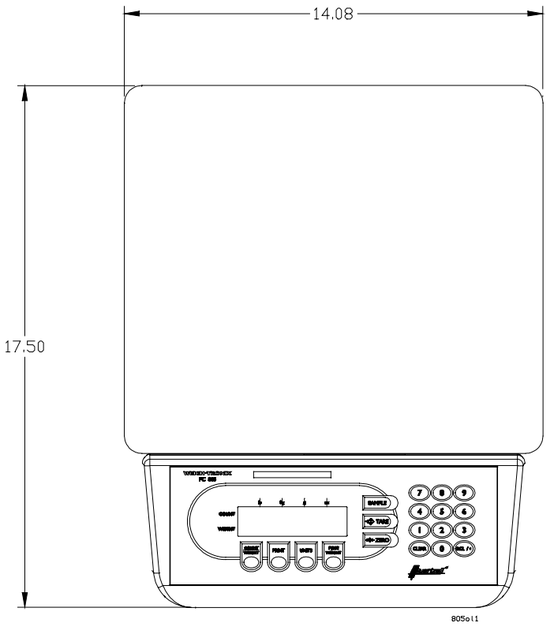
1. REMOVE BRACKET HOLDING INLINE 15 VDC POWER SUPPLY IN PLACE.
2. REMOVE INLINE POWER SUPPLY AND FOAM SHIPPING PAD FROM UNDER THE POWER SUPPLY.
3. CUT A 4.5" LENGTH OF FOAM STRIP FROM THE 16.5" PIECE OF FOAM INCLUDED IN KIT.
4. PLACE THE 4.5" PIECE OF FOAM CENTERED TO BOTTOM OF OPENING AS SHOWN.
5. PLACE THE 12" PIECE OF FOAM ON THE SIDE OF OPENING STARTING AT CORNER "C" (GOING CLOCKWISE) APPROXIMATELY HALF WAY DOWN IN THE OPENING.
6. INSERT BATTERY AS SHOWN.
7. INSTALL HOLDER BRACKET AS SHOWN.
8. CONNECT BATTERY CABLE TO "BATTERY POWER" ON BACK OF SCALE.
9. IF POWER SUPPLY REMAINS CONNECTED TO SCALE, IT PROVIDES INTERNAL RECHARGING OF BATTERY AND POWERS THE UNIT SIMULTANEOUSLY. A TOTALLY DISCHARGED BATTERY WILL BE FULLY CHARGED IN 8 HOURS MAXIMUM TIME.

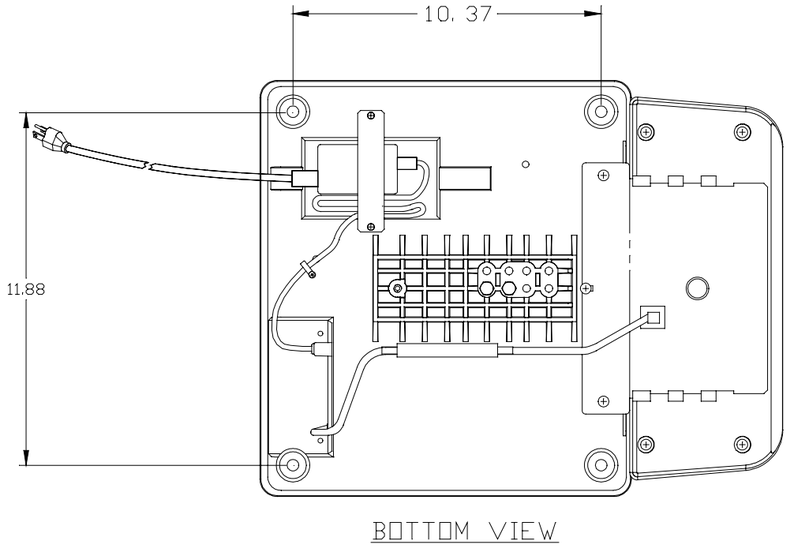


# PC-805 COUNTING SCALE

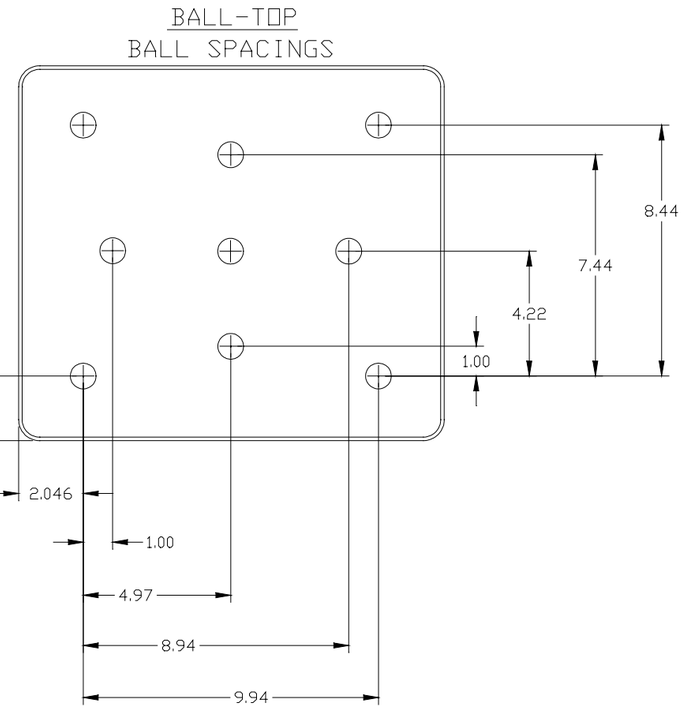
SCALES *AND* BASES

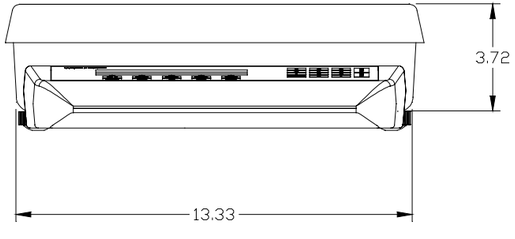
DIMENSIONAL OUTLINE *FOR* 12" x 14" BASE

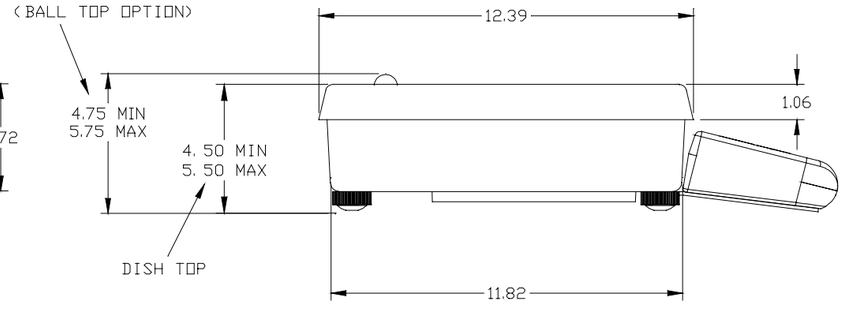



BOTTOM VIEW

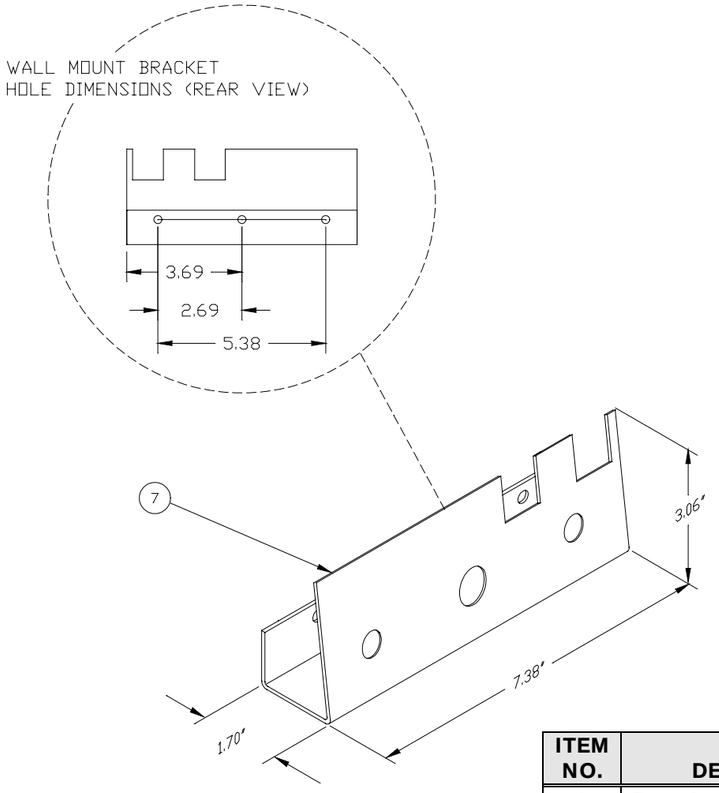


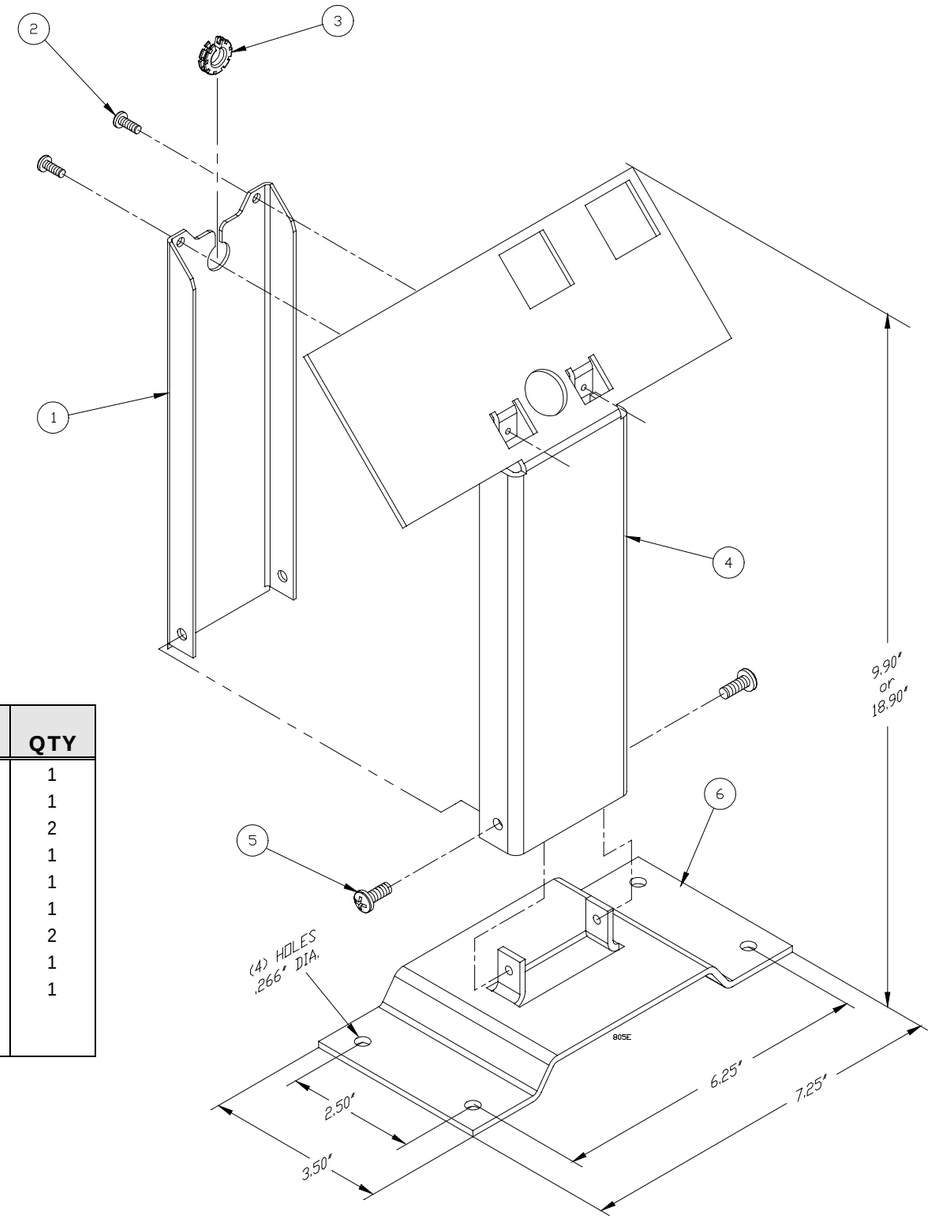



# PC-805 COUNTING SCALE

WALL-MOUNT BRACKET AND REMOTE TOWER *(OPTIONAL)*
PARTS AND ASSEMBLY



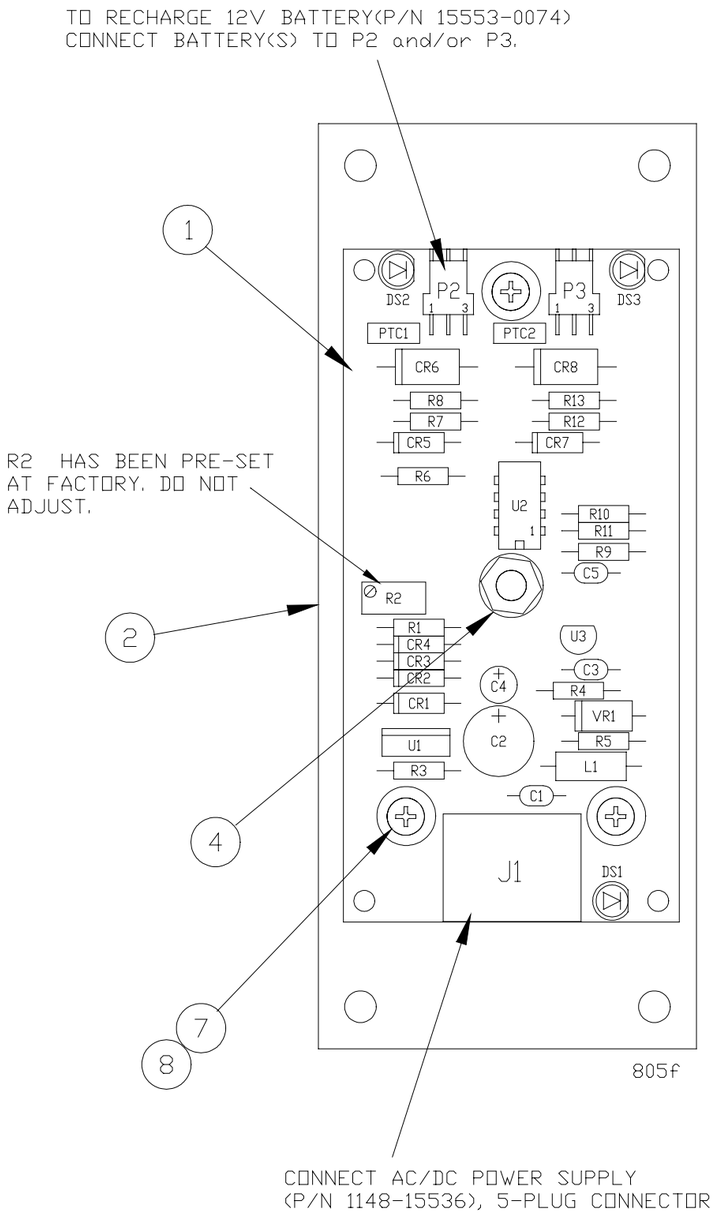

| ITEM NO. | DESCRIPTION | W-T P/N | QTY |
|---|---|---|---|
| 1 | Tower Support Channel | 49658-0010 | 1 |
| | Tower Support Channel | 49658-0028 | 1 |
| 2 | Screw,#6 x 3/8" L | 14473-0249 | 2 |
| 3 | Grommet | 15347-0018 | 1 |
| 4 | Tower Channel (9") | 49659-0019 | 1 |
| | Tower Channel (18") | 49659-0027 | 1 |
| 5 | Screw,#10 x ½" L | 14473-0496 | 2 |
| 6 | Tower Base | 50085-0011 | 1 |
| 7 | Wall-Mount Display Bracket | 49599-0012 | 1 |

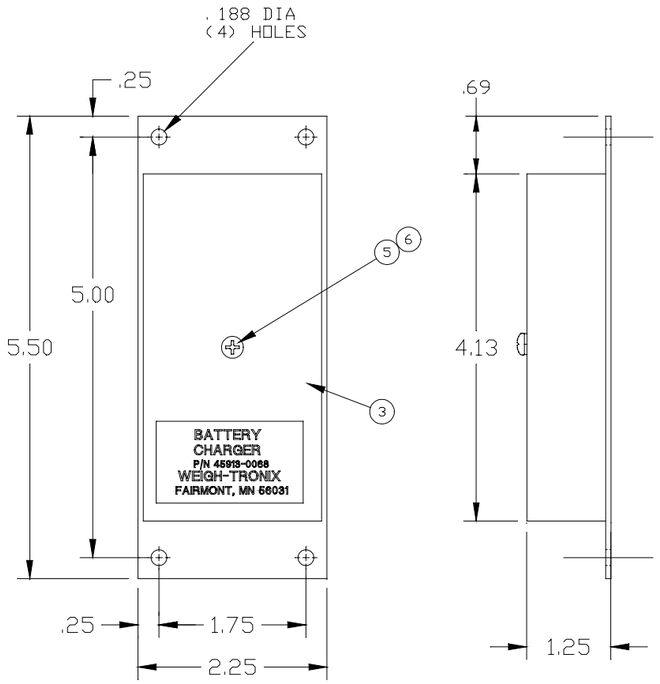


# PC-805 COUNTING SCALE

BATTERY CHARGER *(OPTIONAL)*

PARTS LIST







| ITEM NO. | DESCRIPTION | W-T P/N | QTY |
|---|---|---|---|
| 1 | Battery Charger PC BD Assy | 50093-0011 | 1 |
| 2 | Base Plate Assy | 45911-0045 | 1 |
| 3 | Grommet | 15347-0018 | 1 |
| 4 | Standoff, M/Fem, #6 x 7/8" L | 15437-0472 | 1 |
| 5 | Screw,#6 x 3/8" L | 14473-0249 | 1 |
| 6 | Lock Washer, #6 | 14474-0032 | 1 |
| 7 | Screw,#4 x 1/4" L | 14473-0108 | 3 |
| 8 | Lock Washer, | 14474-0024 | 3 |

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