WEIGH-TRONIX

3600B Series
Bench Scale

Service Manual

Table of Contents

Pages are numbered consecutively beginning with the cover page.

Specifications

Capacity and Dimensions

Model	Capacity	Dimensions
3632B*	10 lb (5 kg)	12 x 14"
3632B	50 lb (20 kg) 100 lb (50 kg)	12 x 14"
3634	100 lb (50 kg) 200 lb (110 kg)	18 x 18"

*Model 3632B-10 has an 8" dia. round stainless steel platter.

Weight Sensor

Quartzell®

Construction

Model 3632B: Die cast aluminum load bridge with stainless steel shroud

Model 3634: Mild steel with stainless steel shroud

Display

Seven-digit liquid crystal display. 0.5-inch digits with blue electro-luminescent back light

Units of measure

lb, kg, g selectable from scale display

Controls

ZERO key
PRINT key
TARE key
GROSS/NET key
UNITS key (lb/kg/g)

Display dimensions

9.5" wide, 3.25" high (24 cm x 8.25 cm) , front mounted

Power

Input: 120 VAC ±10%, 60 Hz 0.1 amp maximum
Output: 15 VDC @ .3 amps DC minimum

Power cord

6 ft (1.83 meters)

Environment

-10°C to 40°C (14°F to 104°F)

Agencies

NTEP Certificate #95-071A2
CSA Pending
UL Pending

Warranty

Two-year limited warranty applies

Introduction

This service manual will help you setup, calibrate, and maintain your 3600B series bench scale. The manual is divided into the following sections:

- Introduction
- Understanding the Menus
- Calibration Menu
- Diagnostic Menu
- Configuration Menu
- Restart Menu
- Assembly drawings

Understanding the Menus

There are four menu items you access by one of two methods.

Method 1: Press and hold the **PRINT** key down for five seconds.

Method 2: Move switch S2-1, shown in Figure 1, to the OFF position. Switch S2-1 is located on the mother board beneath the scale platform. Remove the scale platform and the access cover to the mother board. If the unit is sealed, this requires breaking the seal. If you break the seal you must have the scale recertified before putting it back into legal-for-trade use.

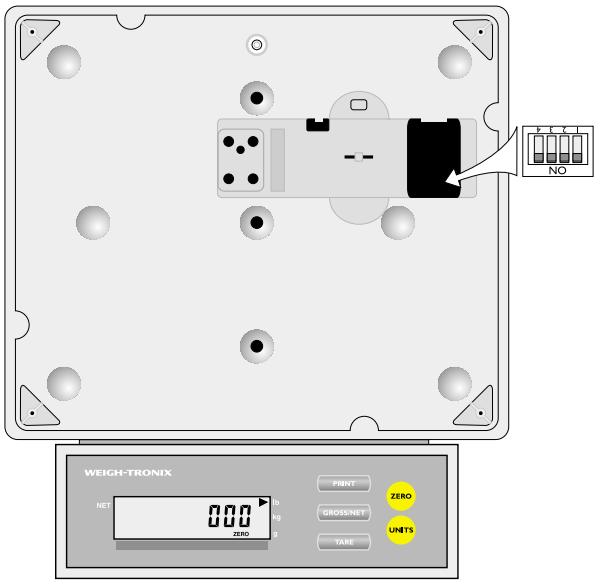


Figure 1
Switch S2 location

Method 1 allows you to access the menu items from the front panel. If you set the SEAL parameter to ***YES*** you must use Method 2 to access the menus.

Whichever method you use to access the menus the result is the same. ***CALib*** is displayed first, showing you are in the calibration menu. The next menu item is ***dIAg***, short for diagnostics. Next is ***ConFig***, short for configuration. The last item is ***rEStArt***, for restart. Figure 2 shows a representation of the top level of the menu.

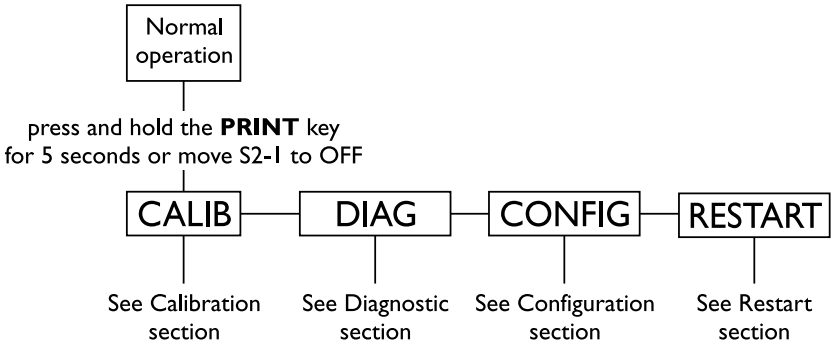


Figure 2
Top level of the menu

To navigate around the menus you—

- press the **ZERO** key to move to the right
- press the **UNITS** key to move down or to accept a displayed variable and return to the menu item level.
- press the **GROSS/NET** key to move up one level in the menu structure. You can do this to avoid accepting a displayed parameter. This leaves the previous parameter in effect.

The following sections contain the menus and definitions for each menu item.

Error Messages

Below are the possible error messages you may see in the display and their meaning.

CAL Err	Calibration Error
buSY	If this appears on the display for prolonged periodds there is excessive motion on the scale platter.
"**-------**"	Upper dashes mean an over weight condition on the scale. Remove weight.
"**_____**"	Lower dashes mean a negative weight condition. Check the scale platter.

Calibration Menu

Figure 3 shows the calibration menu.

- Press the **ZERO** key to move to the right
- Press the **UNITS** key to move down or to accept a displayed variable and return to the menu item level.
- Press the **GROSS/NET** key to move up one level in the menu structure. You can do this to avoid accepting a displayed parameter. This leaves the previous parameter in effect.

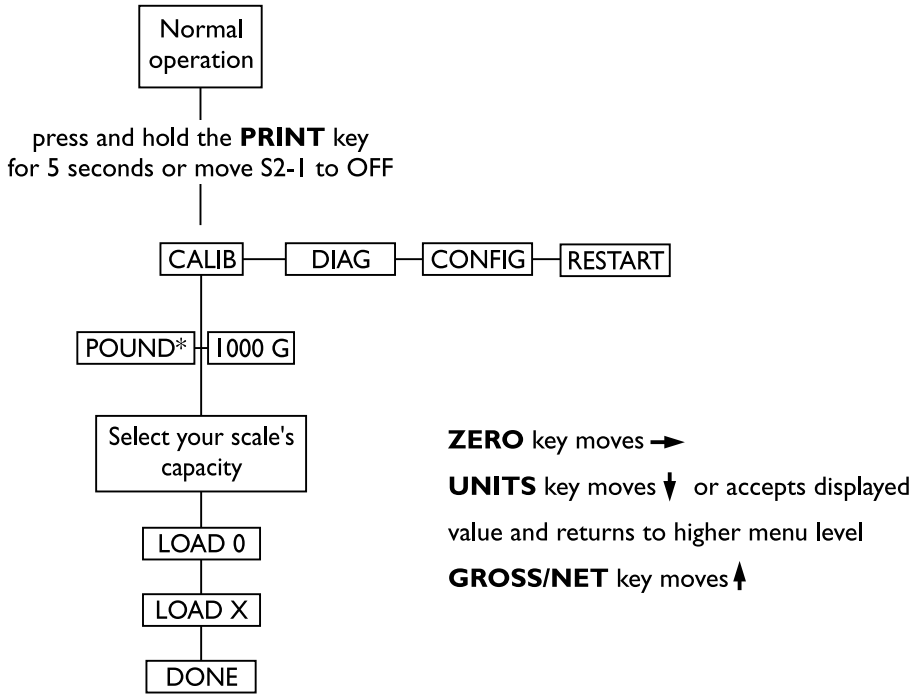


Figure 3
Calibration menu

Press the **GROSS/NET** *key at any time to abort the calibration process. The scale will briefly display* ***Abort*** *and old calibration factors will be maintained in memory. The display will return to* ***CALib****.*

1. With ***CALib*** displayed, press the **UNITS** key. . .

   PoUnd or ***1000g*** is displayed. This is the unit of measurement for the calibration weight. Toggle between these choices by using the **ZERO** key.

2. With the value you want displayed, press the **UNITS** key to accept it. . .

   The current capacity for the scale is displayed. Scroll through alternate choices by repeatedly pressing the **ZERO** key.

3. With the value you want displayed, press the **UNITS** key to accept it. . .

   LoAd 0 is displayed.

Attention

After you perform the calibration of your scale, reset your scale resolution. Calibration automatically changes the resolution to the default value of 10000d.

In Table 1 there are two 50 lb capacities listed. Use the first if you have the scale set at 10,000 divisions resolution and use the second if you are using 12,500 divisions.

If you have a 10lb / 5kg capacity scale, you will not be able to scroll to an alternate span weight. You must use 100% of scale capacity to calibrate.

If the unit is unable to complete the span point calculation the **buSY** *prompt will remain on the display. This could be caused by excessive motion on the scale platter.*

4. Clear the scale platter and press the **UNITS** key. . .

The display will show ***bUSY*** briefly as the scale sets the zero calibration point. The display will then show ***LoAd x***. The ***x*** is the span calibration weight to be placed on the scale. For all but the lowest capacity scale there are one or two alternate span weights you can choose. See Tables 1 and 2 below.

Table 1
LB Alternate Span Weights

Scale Capacity	Alt 1	Alt 2
10 lb	N/A	N/A
50 lb	10	25
50 lb	10	25
100 lb	10	50
200 lb	50	100
250 lb	50	100
500 lb	50	200

Table 2
KG Alternate Span Weights

Scale Capacity	Alt 1	Alt 2
5 kg	N/A	N/A
20 kg	10	N/A
25 kg	10	20
50 kg	10	25
100 kg	10	50
150 kg	10	50
250 kg	50	100

5. Scroll through the alternage span weights with the **ZERO** key. (See the note at left.) With weight you want displayed, place that weight on the scale and press the **UNITS** key. . .

bUSY is displayed briefly as the scale sets the new calibration point. ***donE*** is displayed briefly then ***CALib***.

The scale is now calibrated. Return to normal operation by returning switch S2-1 to the ON position or pressing the **GROSS/NET** key. To contine to diagnostics or configuration, see that section on the following pages.

Maximum battery life with continuous backlight usage is approximately 12 hours on a full charge. Without backlight enabled, battery life is approximately 24 hours. Recharge time is approximately 8 hours.

bAttErY **Battery Test** - 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. See note at left.

C CrYSt **Compression Crystal Test** - Choose this to display the raw digital counts from the compression crystal in the Quartzell®. 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.

t CrYSt **Tension Crystal Test** - Choose this to display the raw digital counts from the tension crystal in the Quartzell®. 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.

With a test name displayed, press the **GROSS/NET** *key to return to the* ***diAg*** *display.*

CoUnt **Count Test** - 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 **Serial Test** - 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 Test -** Model number and software version, part number and revision level are displayed followed by a segment test. Display returns to ***diSPLAY*** automatically when done.

Hi-rESA **High Resolution Test with AZT -** Full scale output is normalized to 1:1,000,000 count resolution, with Auto Zero Tracking enabled. Press the **UNITS** key to discontinue the test.

Hi-rESn **Division Test without AZT -** Full scale output is normalized to 1:1,000,000 count resolution, with Auto Zero Tracking disabled. Press the **UNITS** key to discontinue the test.

Press the **GROSS/NET** key to move out of the diagnostics tests to the ***diAg*** display.

Configuration Menu

To enter the configuration menu shown in Figure 5, follow these steps:

1. With ***diAg*** displayed press the **ZERO** key. . . — ***ConFig*** is displayed.

   or

   use Method 1 or 2 shown on page one of this manual . . . — The display will show ***CALib***. Press the **ZERO** key twice and ***ConFig*** is displayed.

2. With ***ConFig*** displayed, press the **UNITS** key. . . — ***rESo*** is displayed.

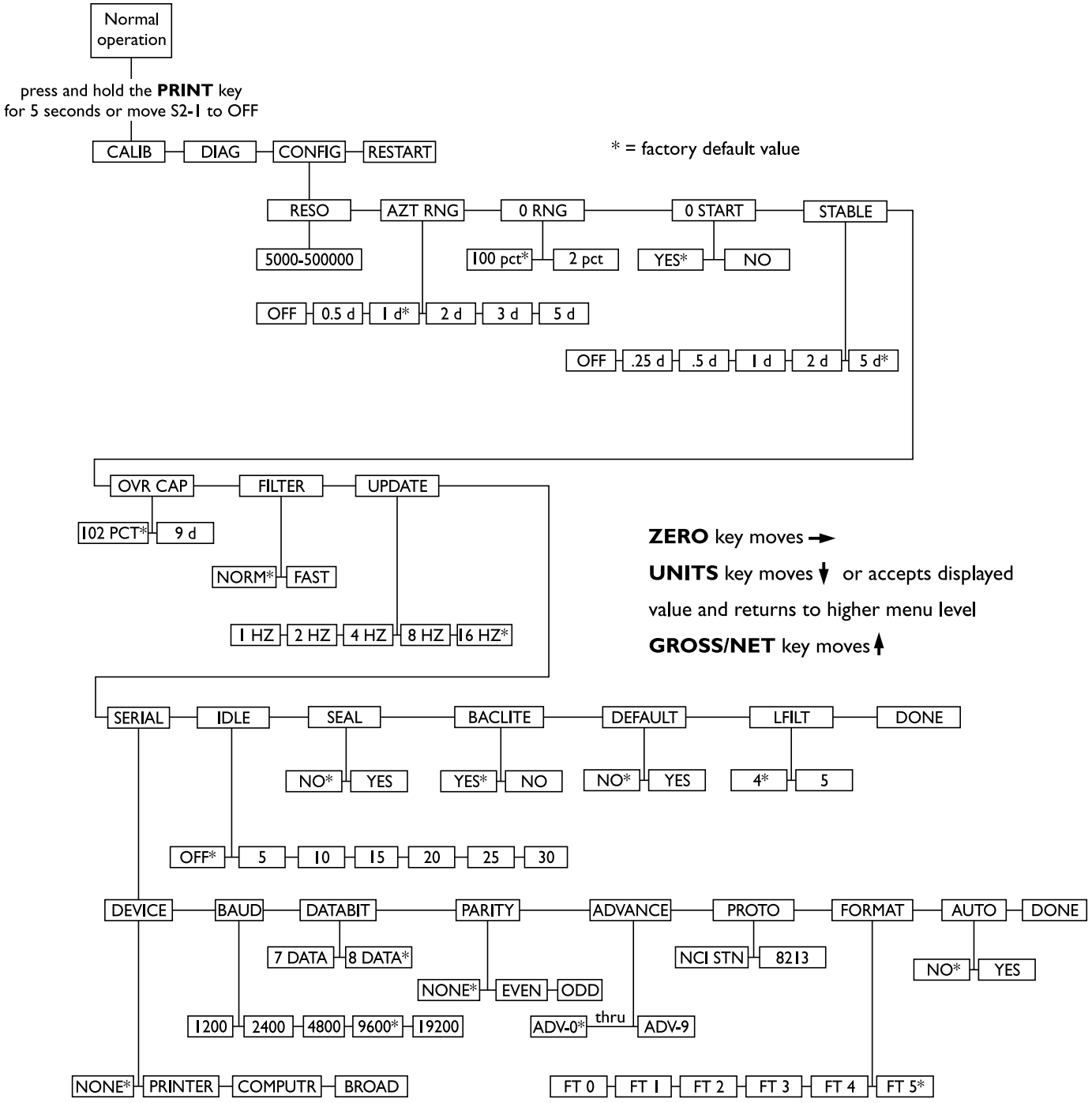


Figure 5
Configuration Menu

NOTE:

Serial Data Word Length: 10 bits
1 Start, 7 Data, 1 Parity, 1 Stop

Parity: Even, Odd or None

Resolution is the first of the configuration menu items. Press the **ZERO** key to scroll through the complete list of configuration menu items. When the item you want is displayed, press the **UNITS** key. Scroll through each items choices and with the value or choice you want displayed, press the **UNITS** key.

All the items are described below in the order they appear in the menu. See Figure 1.

rESo **Resolution** - Choose the weight display resolution. The choices are go from 5,000d to 500,000d. Default is 10,000.

AZt rng **AZT Range** - Choose The Auomatic Zero Tracking Range (AZT). Choices are: OFF, 0.5d, 1d, 2d, 3d, and 5d. If a weight on the scale is within the division range you choose (above or below zero), the scale will automatically zero that weight. Default is 1d.

0 rAngE **0 Range** - Set the allowable zero range of the **ZERO** key; 100% of capacity or 2%. Default is 100 percent.

0 StArt **0 Start** - Choose between having the scale power up at zero or power up with the weight on the scale displayed. Choose ***YES*** to power up at zero weight. Choose ***NO*** to power up showing the weight on the scale. Default is ***YES***.

StAbLE **Stable** - Set the stability window for the scale. If the motion falls within the window size you set, the scale considers the weight to be stable. Choices are: OFF, .25d, .5d, 1d, 2d, and 5d. Default is 5d.

our CAP **Over Capacity** - Set the point at which the over capacity dashes appear on the screen. Choices are at 102% of capacity or 9d over capacity. Default is 102%.

FiLtEr **Filter -** Choose between ***FASt*** (fast) and ***norn*** (normal) filtering under this menu item. Use fast filtering in most applications. Use normal filtering in higher vibration environments or to minimize weight display changes. Default is normal.

UPdAtE **Update** - Pick a display update rate. Choices are: 1Hz, 2Hz, 4Hz, 8Hz, and 16Hz. Default is 16Hz.

SErIAL **Serial** - Set the serial information for your peripheral devices. Items in this menu are:

- ***dEVICE*** - Choose the type of device your scale is connected to. Choices are: None, Printer, Computer and Broadcast. Default is None.
- ***bAUd*** - Choose the baud rate for serial communication. The choices are 1200, 2400, 4800, 9600 and 19,200. Default rate is 9600.
- ***dAtAbit*** - Choose from 7 or 8 data bits. The default is 8.
- ***PAritY*** - Choose the parity for serial communication. The choices are none, even, and odd. Default is none.
- **AdvAnCE** - Choose the number of line feeds after the formatted transmission. The default is 0.
- ***Proto*** - Choose the protocol for serial communication. The choices are ***nCi Stn*** (**N**ormal bidirectional **C**omputer **I**nterface Standard) and ***8213***.

FornAt - Choose from six preset serial formats. See Table 3 below. Default is #5.

Format 0	Net weight only: **WWWW.WW<CR><LF>**
Format 1	Net weight with units: **WWWW.WW<SP>UU<CR><LF>**
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>**
Format 3	Displayed weight with identifier: **I<SP>WWWW.WW<CR><LF>**
Format 4	Displayed weight with identifier and units: **I<SP>WWWW.WW<SP>UU<CR><LF>**
Format 5	Fixed length (nine digits) displayed weight with units. **sxxxxx.xx uu<CR>** (**s** = positive (a space) or negative (-) weight)

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

Table 3
Preset print formats

AUto - This stands for Autoprint. Choose no to disable autoprint and yes to enable autoprint. If enabled the weight will automatically be printed after the weight stabilizes above zero by ten divisions or more. Autoprint will re-arm after the weight has returned to within 10 divisions of net zero. Default is NO.

donE - Press the **UNITS** key to return to the ***SErIAL*** display.

idLE **Idle** - Choose the amount of idle time the scale will remain powered when operating under battery power. Choices are: OFF, 5, 10, 15, 20, 25, and 30 minutes. Default is OFF.

Maximum battery life with continuous backlight usage is approximately 12 hours on a full charge. Without backlight enabled, battery life is approximately 24 hours. Recharge time is approximately 8 hours.

Choose OFF if you do not want the scale to automatically shut off. The scale will show the weight on the platform 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.

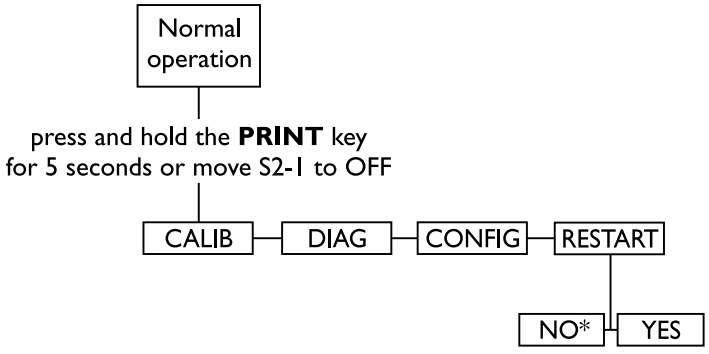
SEAL **Seal** - Choose

bAcLITE **Backlight** - Choose Yes to turn the backlight in the display on. Choose No for off. Yes is the default setting.

dEFAULT **Defaults**- Choose to return the scale to all default settings. NO is the default .

LFILT **Line Filter** - Choices: **4**, 5. Sets filtering of the Quartzell weight sensor. A setting of 4 is more accurate but slows response compared to a setting of 5.

Set switch SW1-1 back to the ON position to return to normal weighing mode.



Communication

Connections

The 3600B series uses a DE-9 connector for EIA Standard RS-232 serial communication.

Pinout for the DE-9 connector are as follows:

DE-9 Female Scale		
Pin	**Name**	**Direction**
1	NC	-
2	Transmit	OUT
3	Receive	IN
4	NC	-
5	Ground	-
6	NC	-
7	NC	-
8	NC	-
9	NC	-

Normal Bidirectional Computer Interface (NCI) Serial Protocol

Key to symbols used:

<ETX> End of text character (03 hex) (03 dec)
<LF> Line Feed character (0A hex) (10 dec)
<CR> Carriage Return character (0D hex) (13 dec)
<SP> Space (20 hex) (32 dec)
x Character from display including minus sign
hh. . . Two or more status bytes
uu Units of measure (using ANSI standard abbreviations)

Commands		
Command	**Scale Response**	**Results**
W<CR>	<LF>xxxx.xxuu<CR> <LF>hh...<CR><ETX> or <LF>xxxxxx<CR> <LF>hh...<CR><ETX>	Returns decimal weight with units plus scale status or returns contents of display (other than wt) & scale status
S<CR>	<LF>hh...<CR><ETX>	Returns scale status
Z<CR>	<LF>hh...<CR><ETX>	Scale is zeroed, returns scale status
H<CR>	<LF>xxxx.xxxuu<CR> <LF>hh...<CR><ETX> or <LR>xxxxxx<CR> <LF>hh...<CR><ETX>	Returns decimal wt in 10X with scale status or Returns contents of display (other than wt) & scale status
all else	<LF>?<CR><ETX>	Unrecognized command

Weight Command ('W')

This command causes the scale to return a WYSIWYG (What You See Is What You Get) of its display when it is in normal weighing mode. That is, the scale will send whatever is showing on its display including any minus sign and/or decimal point. If it is weight, the units of measure will be returned in addition to the displayed weight. For decimal weight, the length of the weight field will be equal to the length of the scale's display plus two or three (one for the decimal point if necessary, and two for the units, e.g., "lb".) Units of measure will appear in their ANSI standard abbreviated form ("lb" for pounds, "kg" for kilograms, etc.) If the scale is displaying all upper bars (over capacity), the weight field will be filled with carets ("^^^^^^^). If the scale is displaying all lower bars (under capacity), the weight field will be filled with underscores ("_____".) If the scale is displaying middle bars (zeroing error), the weight field will be filled with dashes ("---------".)

Scale Status Command ('S')

There are two status bytes. The status bits are defined as follows:

Bit	First Status Byte	Second Status Byte
0	1=Scale in motion 0=Stable	1=Under capacity 0=Not under capacity
1	1=Scale at zero 0=Not at zero	1=Over capacity 0=Not over capacity
2	1=RAM error 0=No RAM error	1=ROM error 0=No ROM error
3	1=EEPROM error 0=No EEPROM error	1=Faulty calibration data 0=Calibration data okay
4	Always 1	Always 1
5	Always1	Always 1
6	Always 0	Always 0
7	Parity	Parity

Zero Command ('Z')

If zeroing criteria are met, the scale is zeroed. In any case, scale status is returned.

High Resolution Command ('H')

It is the same as the W command except that when weight is returned, it is returned with ten times the scale's displayed resolution. Thus, for decimal weight, the length of the weight field is equal to the length of the scale's display plus three or four.

Undefined Commands

When the scale receives an unrecognized or unsupported command, it returns a question mark.

8213 Protocol

Commands		
Command	**Scale Response**	**Results**
W	*<STX>0XX.XX<CR>* *<STX>0XX.XX<CR>* *<STX>0XX.XX<CR>* *<STX>00XXXX<CR>* *<STX>?[STATUS]<CR>*	*Pounds - See notes 1, 2* *Kilos - See notes 1, 2* *Ounces - See notes 1, 2* *Ounces - See notes 2, 3* *- See note 4*
H	*<STX>0XX.XX<CR>* *<STX>0XX.XX<CR>* *<STX>0XX.XX<CR>* *<STX>00XXXX<CR>* *<STX>?[STATUS]<CR>*	*Pounds - See notes 1, 2* *Kilos - See notes 1, 2* *Ounces - See notes 1, 2* *Ounces - See notes 2, 3* *- See note 4*
Z	*<STX>?[STATUS]<CR>*	*Zeros scale*
A	*<STX>?<CR>*	*Scale test*
B	*<STX>[CONFIDENCE]<CR>*	*Confidence*
E	*<STX>E<CR>*	*Echo on*
F	*<STX>F<CR>*	*Echo off*
All other	*<STX>?[STATUS]<CR>*	*Bad command*

Notes:

1. The decimal point position may be different depending on selected capacity and division.
2. A fixed leading zero is added to bring character count to the same as capacities with a decimal point.
3. This supports the 1600 x 1 capacity which does not require the decimal point.
4. A status byte is sent if the scale is in motion, under zero, or over capacity.

Maintenance

Wipe down exterior surfaces with a soap and water dampened cloth.

Disassembly

Refer to the exploded drawings on pages 15 through 17 while reviewing these disassembly steps.

3632B 50lb & 100lb Capacities

1. Remove the platter and shroud.
2. Remove the two flathead screws holding the loadbridge to the Quartzell.
3. Remove the four sealing screws holding the base cover to the base. **Unseal the scale only if absolutely necessary.**

4. To remove the Quartzell, remove the two capscrews located on the bottom of the scale holding the Quartzell to the base.
5. To remove the pc board, disconnect any connected wires and remove the screws holding it to the base.
6. To remove the display, push the release button on the bottom of the display and slide it off the mounting plate.

When you reassemble the unit be sure to place the aluminum spacer on the Quartzell before attaching the loadbridge.

3632B 10lb Capacity

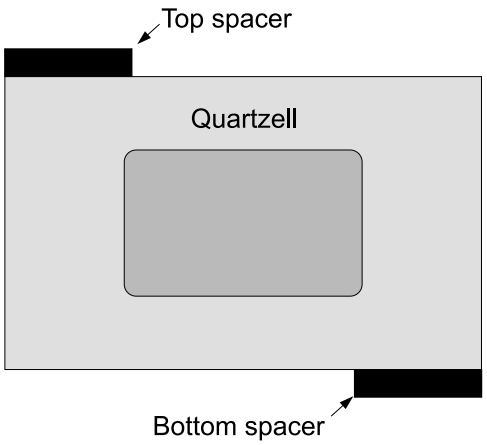
1. Remove the shroud.
2. Remove the security access plate. **Unseal the scale only if absolutely necessary.**
3. Remove the two capscrews holding the loadbridge to the Quartzell.
4. To remove the Quartzell, remove the two capscrews located on the bottom of the scale holding the Quartzell to the base.
5. To remove the main interconnect pc board, disconnect any connected wires and remove the screws holding it to the base.
6. To remove the display, push the release button on the bottom of the display and slide it off the mounting plate.

For reassembly, reverse the disassembly procedure.

3634B 250lb Capacity

1. Remove the shroud.
2. Remove the two cap screws holding the durabridge to the Quartzell.
3. To remove the Quartzell, remove the two capscrews located on the bottom of the scale holding the Quartzell to the base.
4. To remove the main interconnect pc board, remove the screws holding the electronics enclosure to the durabridge base, disconnect all wires and remove the enclosure. Remove the screws holding the main interconnect pc board to the base.
5. To remove the display, push the release button on the bottom of the display and slide it off the mounting plate.

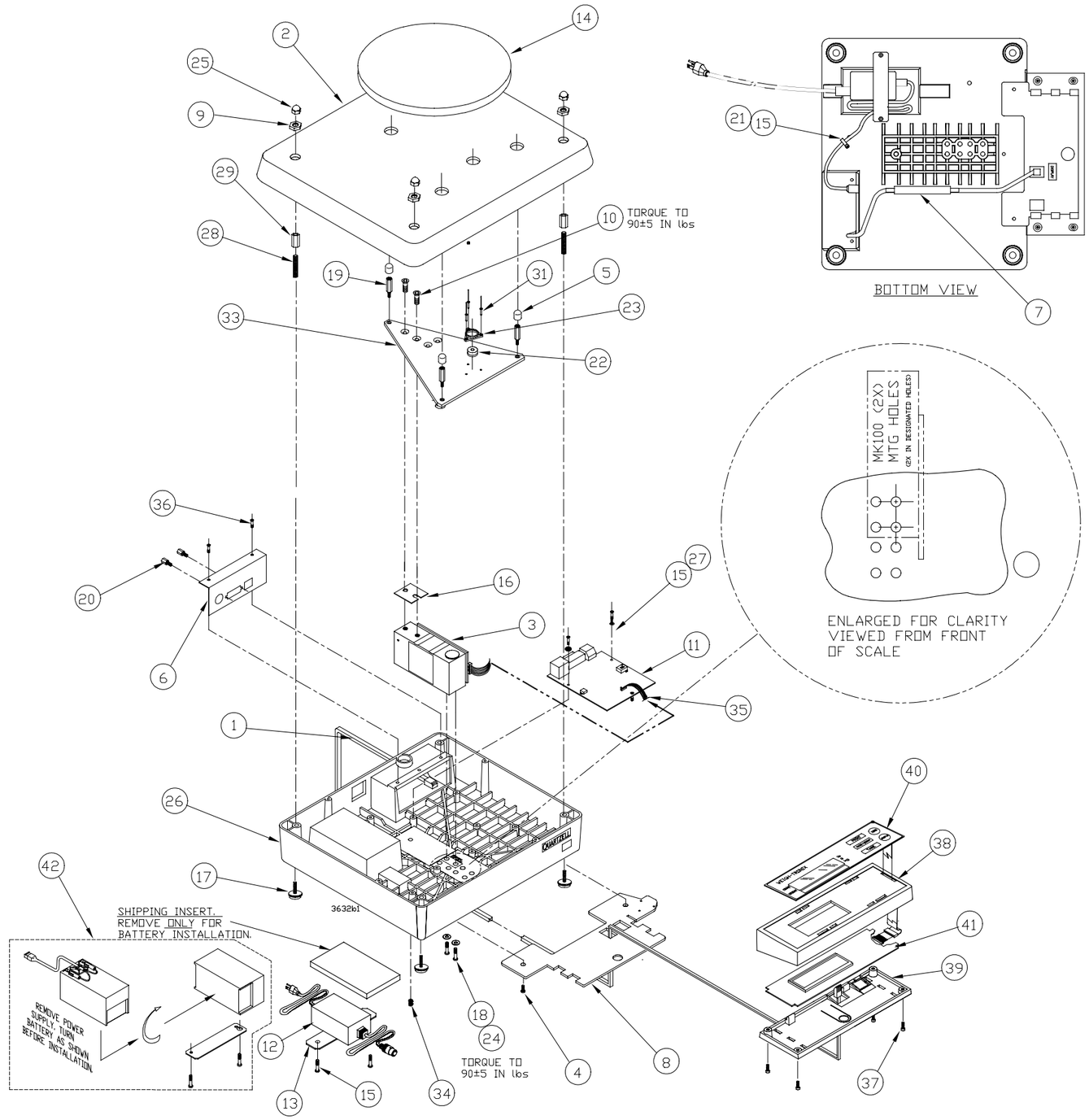
For reassembly, reverse the disassembly procedure. Be sure to replace the spacers between the Quartzell and the durabridge base and top.



3632B QDT BENCH SCALE

10 lb / 5kg cap. , 12” x 14” BASE

PARTS *AND* ASSEMBLY



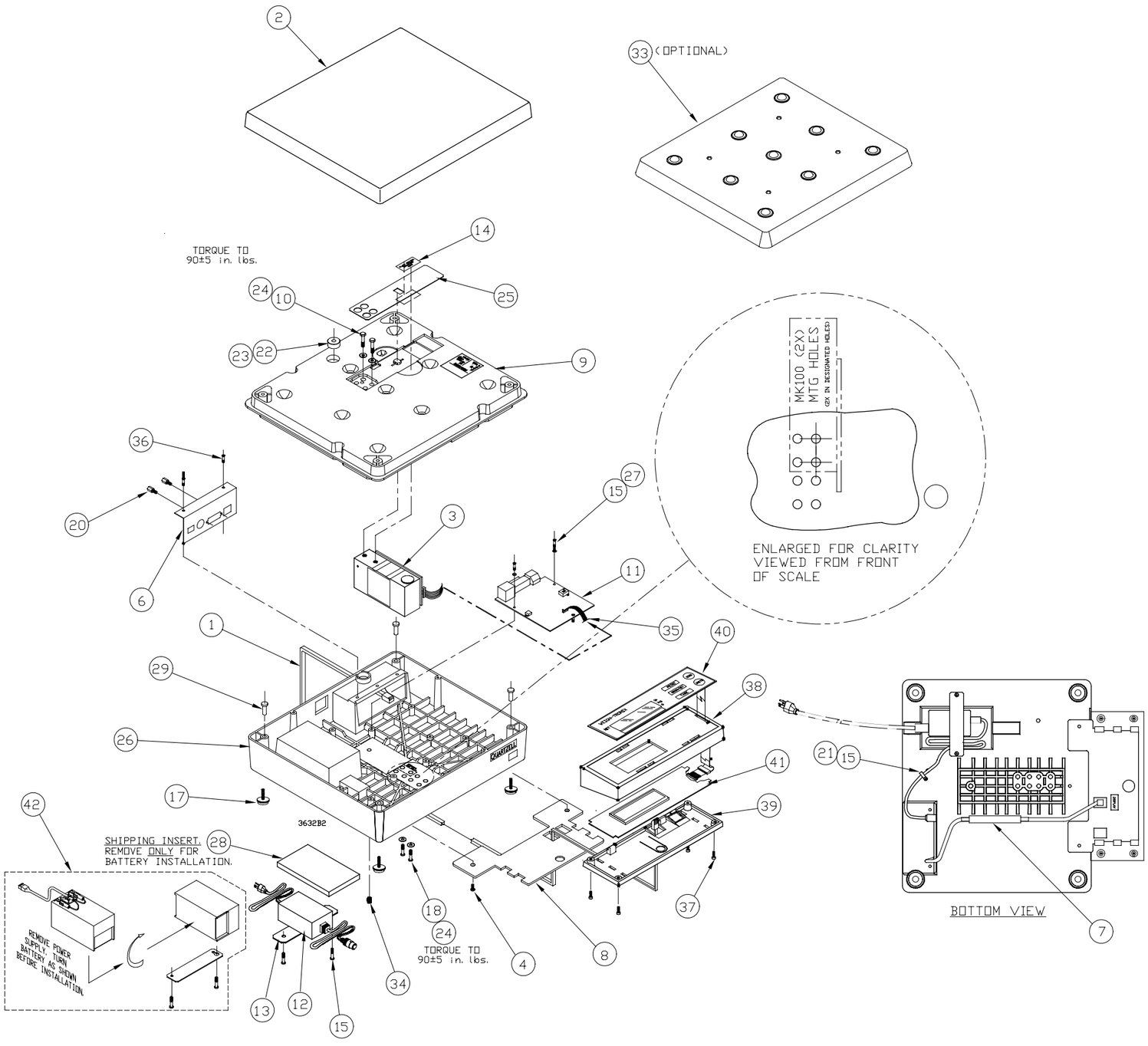
ITEM NO.	DESCRIPTION	W-T P/N	QTY
1	Remote Display Cable Assy	1140-11832	1
2	Shroud (10 lb.)	1076-16136	1
3	Quartzell Assy	7153-15694-05	1
	Quartzell EPROM (not shown)	51565-0018	1
4	Screw, #10-32 x .25"L	1006-09173	2
5	Vinyl Cap	1051-13968	3
6	I/O Connector Mtg Bracket	1067-15693	1
7	PVC Wire Duct	1074-15171-04	1
8	Display Mtg Plate w/ Level Bubble	1069-15328	1
9	Jam Nut, 1/4-20	1022-00231	4
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	1007-15463	2
19	Standoff,m/f #6 x 1/4 HEX x .50"L	1044-00136	3
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	Bubble Mtg Flange	1083-11797	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
31	Rivet, 3/32 dia x .19"L	1041-00102	3
33	Loadbridge	1066-13958	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	1006-02605	4
38	Display Enclosure, Top	106911065	1
39	Display Enclosure, Bottom	106911066	1
40	Keypad	1163-15854	1
41	Display Pc Board Assy	7405-15834-02	1
42	12V Battery Kit, (battery,cable,bracket,screws)	50236-0019	1
43	Remote Display (complete assy)	7516-15956	1

36XXBSV

3632B QDT BENCH SCALE

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

PARTS *AND* ASSEMBLY

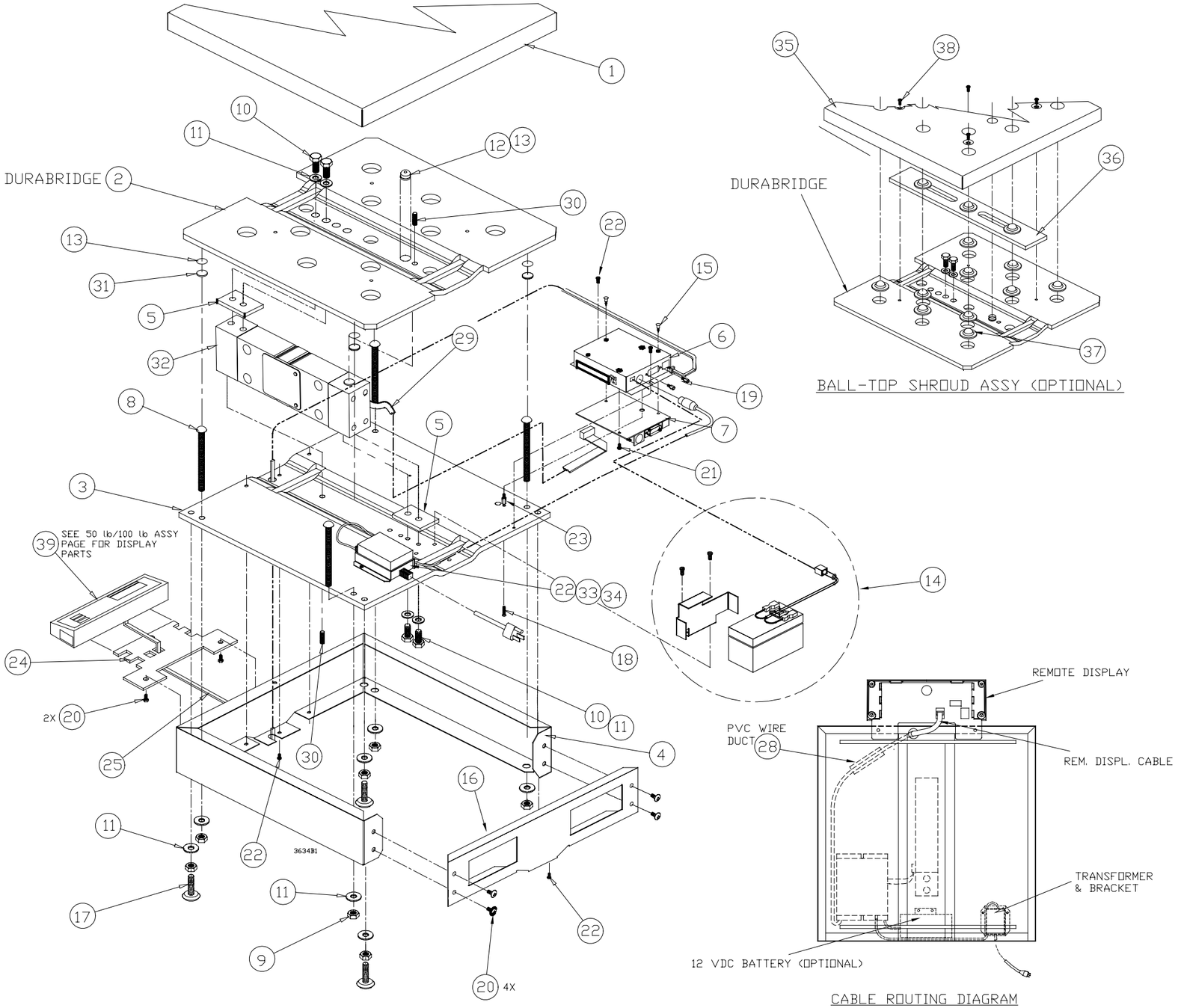


ITEM NO.	DESCRIPTION	W-T P/N	QTY
1	Remote Display Cable Assy	1140-11832	1
2	Shroud	1076-15767	1
3	Quartzell Assy (50lb / 25kg cap.)	7153-15694-32	1
	Quartzell Assy (100lb / 50kg cap.)	7153-15694-50	1
	Quartzell EPROM (not shown)	51565-0018	
4	Screw, #10-32 x 3/8"L	1006-02039	2
6	I/O Connector Mtg Bracket	1067-15693	1
7	PVC Wire Duct	1074-15171-04	1
8	Display Mtg Plate	1069-14869	1
9	Loadbridge	1066-15933	1
10	Capscrew, Hex, 1/4-20 X 1.00"L	1007-02617	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	1067-15693	1
14	Sealing Cover Label	1070-60103	1
15	Screw, #6 X .38"L	1009-05758	6
17	Foot Assy	7075-16213	4
18	Capscrew, 1/4 x .1.00"L	1007-15463	2
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	1006-02605	4
38	Display Enclosure, Top	106911065	1
39	Display Enclosure, Bottom	106911066	1
40	Keypad	1163-15854	1
41	Display Pc Board Assy	7405-15834-02	1
42	12V Battery Kit, (battery,cable,bracket,screws)	50236-0019	1
43	Remote Display (complete assy)	7516-15956	1

3634B QDT BENCH SCALE

250 lb cap. , 18” x 18” BASE

PARTS *AND* ASSEMBLY



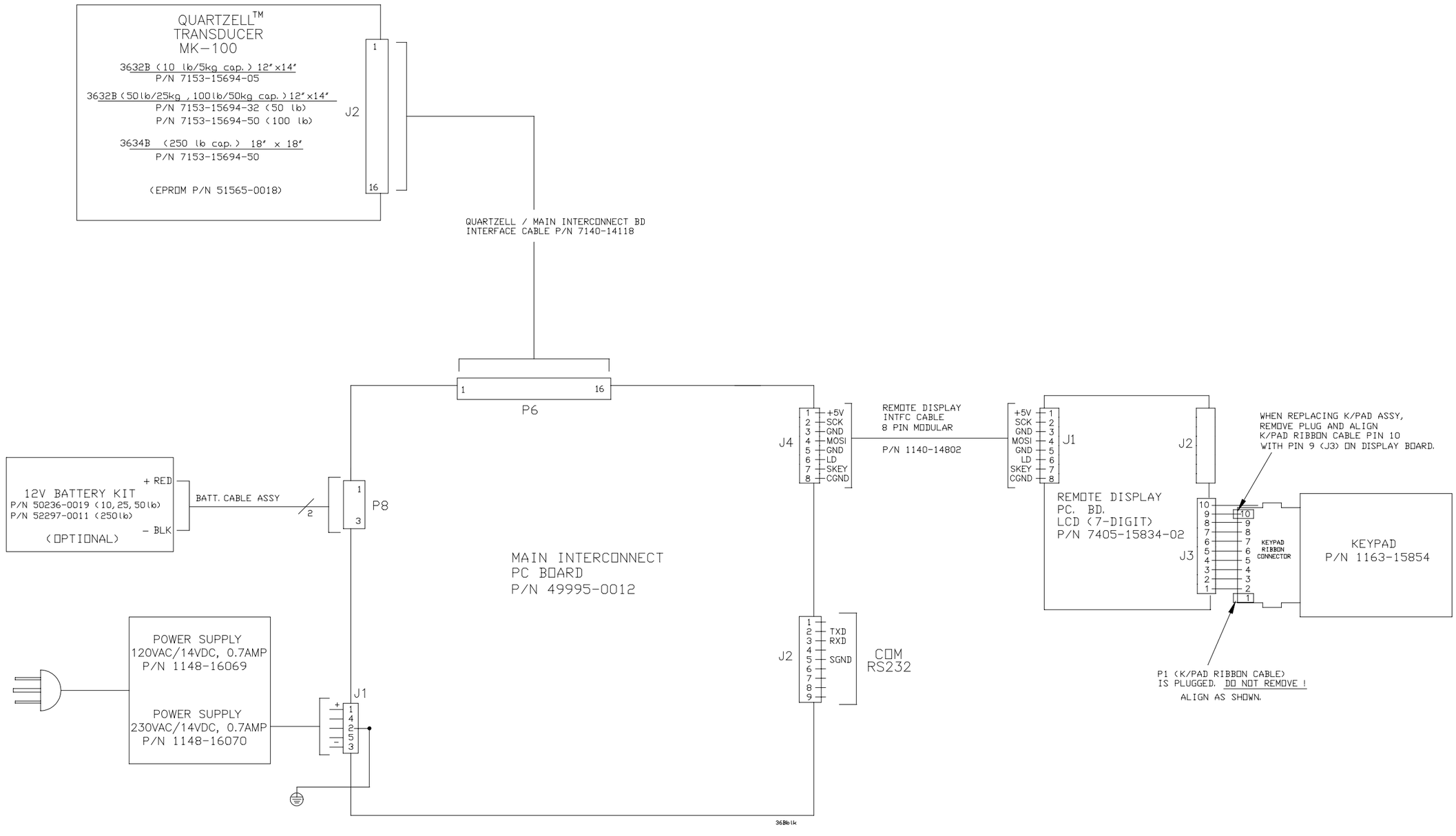
BALL-TOP SHROUD ASSY (OPTIONAL)

CABLE ROUTING DIAGRAM
BOTTOM VIEW

ITEM NO.	DESCRIPTION	W-T P/N	QTY
1	Shroud	1076-15050	1
2	Durabridge	7066-15056	1
3	Durabridge Base	7071-16164	1
4	Front Housing	1069-11066	1
5	Spacer	1043-15054	2
6	Electronics Enclosure	7069-15872-02	1
7	Main Interconnect Pc Board	49995-0012	1
8	Carriage Bolt, 3/8" x 3.50"L	1019-15195	4
9	Jam Nut, 3/8"	1022-00241	4
10	Cap Screw, 3/8" x 1.00"L (GR8)	1007-02308	4
11	Flat Washer, 3/8"	1029-00093	12
12	Level Bubble	1083-00095	1
13	Adhesive Tape (for bubble)	1045-13049	1
14	12V Battery Kit, (battery,cable,bracket,screws)	52297-0011	1
15	Lock ButtonSpacer	1043-00748	2
16	Rear Housing	1069-15841	1
17	Foot Assy w/ Jam Nut	7075-13082	4
18	Sealing Screw, #6 x .50"L	1001-02162	1
19	Standoff,m/f #4 x 3/16HEX x .19"L	1044-01085	2
20	Screw, #10 x .50"L	1001-02729	6
21	Screw, #6 x .25"L	1006-02600	1
22	Screw,#6-32 x .38"L	1009-05758	5
23	Standoff,m/f #6 x 1/4 HEX x .88"L	1044-04791	1
24	Display Mtg Plate	1069-14869	1
25	Remote Display Cable Assy	1140-11832	1
28	PVC Wire Duct	1074-15171-04	1
29	Cable Assy (Quartzell-to-main)	7140-14118	1
30	Set Screw, 1/4 x .38"L	1011-04367	2
31	Spacer	1043-12751	4
32	Quartzell Assy (250 lb)	7153-15694-165	1
	EPROM (not shown)	51565-0018	
33	Pwr Supply, 120vac/14vdc, 0.7 amp	1148-16069	1
	Pwr Supply, 230vac/14vdc, 0.7 amp	1148-16070	1
	Pwr Supply, 120vac/15vdc, 0.7 amp *(old version)*	1148-15536	1
34	Transformer Mtg Bracket	1067-16494	1
	Transformer Mtg Bracket *(old version)*	1067-15859	1
35	Ball Top Shroud (optional)	1076-15066	1
36	Ball Retainer	1069-15068	1
37	Transfer Ball	1049-15072	13
38	Screw, #10-32 x .50"L	1006-03193	4
39	Remote Display , complete assy (see “50/100lb QDT” assy page for parts break down)	7516-15956	1

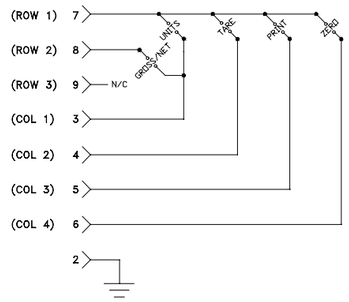
3632B QDT BENCH SCALE

SYSTEM WIRING BLOCK DIAGRAM

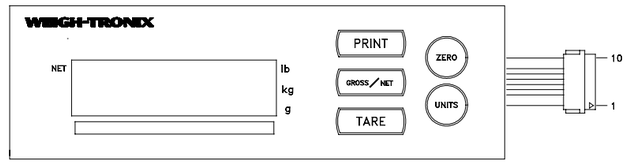


3600B SERIES QDT BENCH SCALE

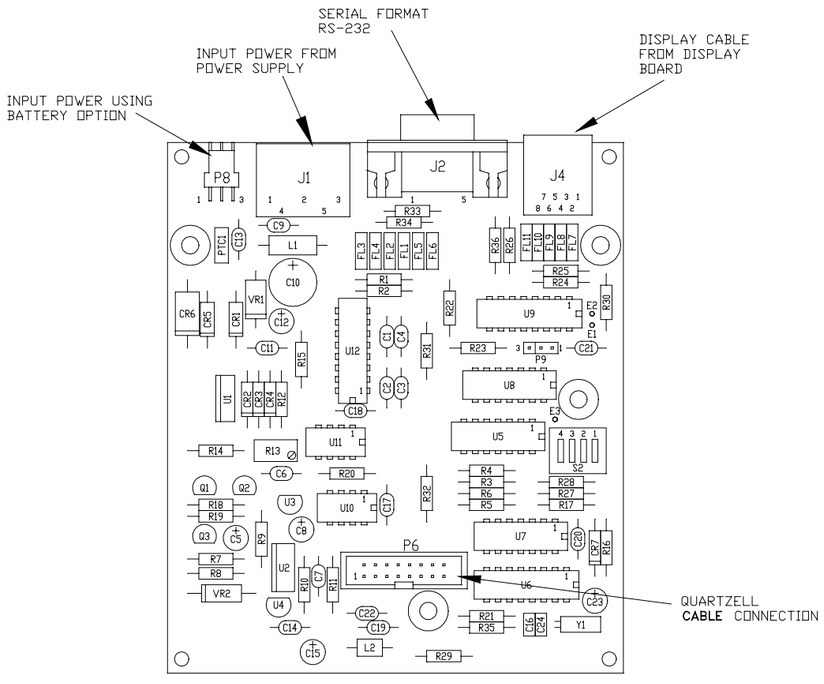
MAIN P.C. BOARD / DISPLAY BD. / KEYPAD OVERLAY



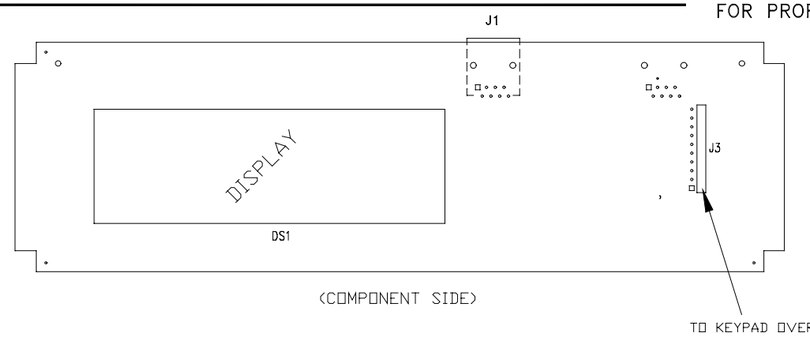
KEYPAD OVERLAY & MATRIX
P/N 1163-15854

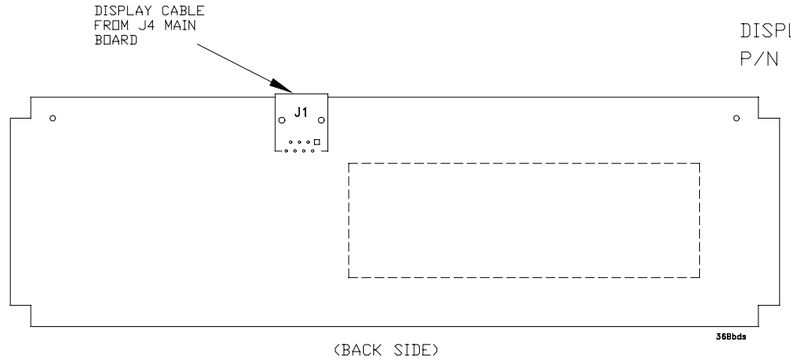


NOTE; WHEN REPLACING DISPLAY BD. OR K/PAD ASSY, REF. SYSTEM DIAGRAM PAGE FOR PROPER K/PAD CABLE CONNECTION



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



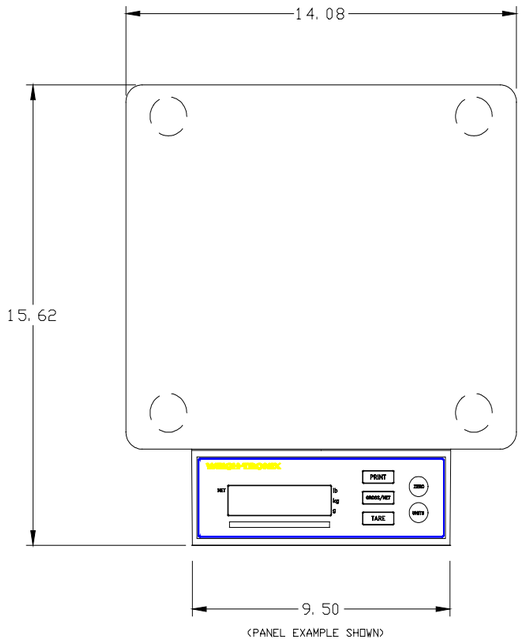


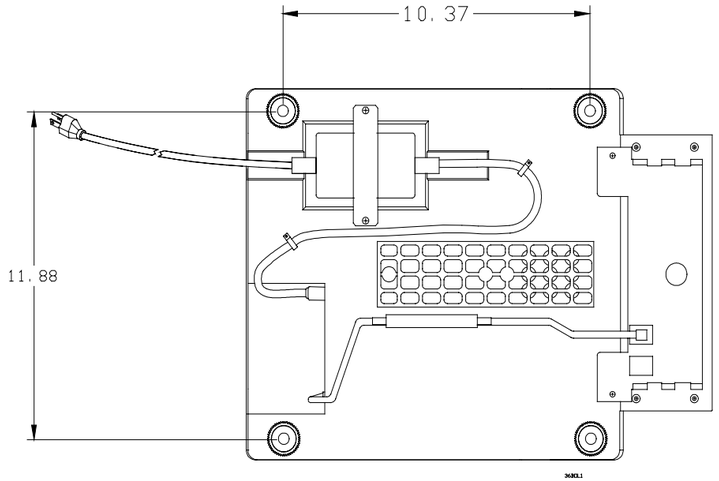
DISPLAY PC BOARD
P/N 7405-15834-02

3600B SERIES QDT BENCH SCALE

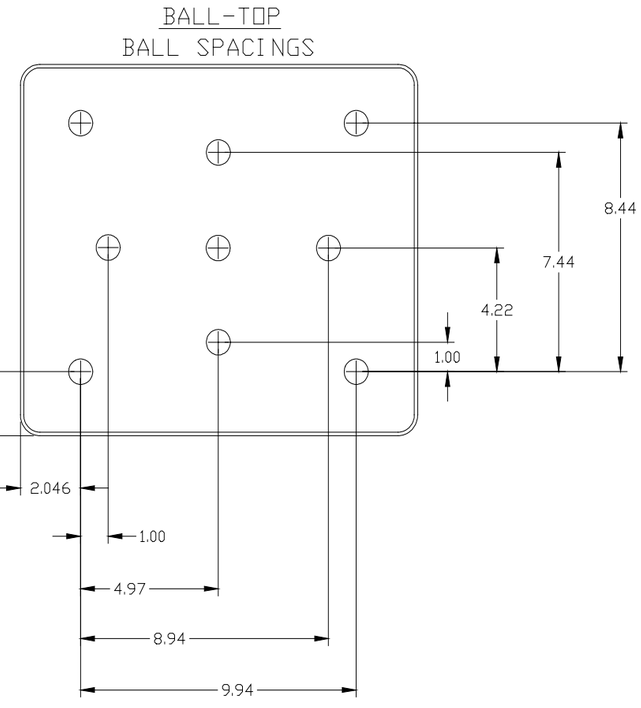
SCALES *AND* BASES

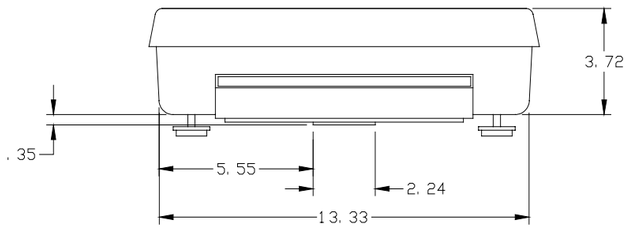
DIMENSIONAL OUTLINE *FOR* 12” x 14” BASES

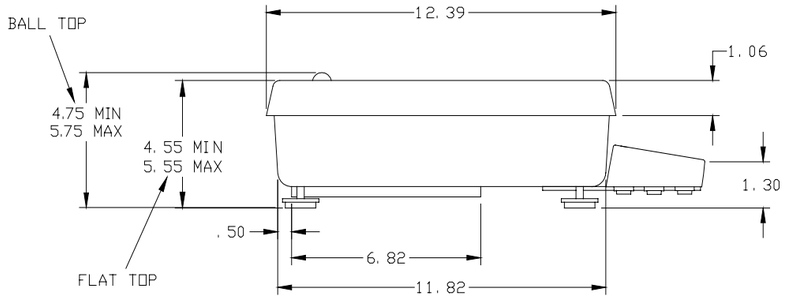




BOTTOM VIEW



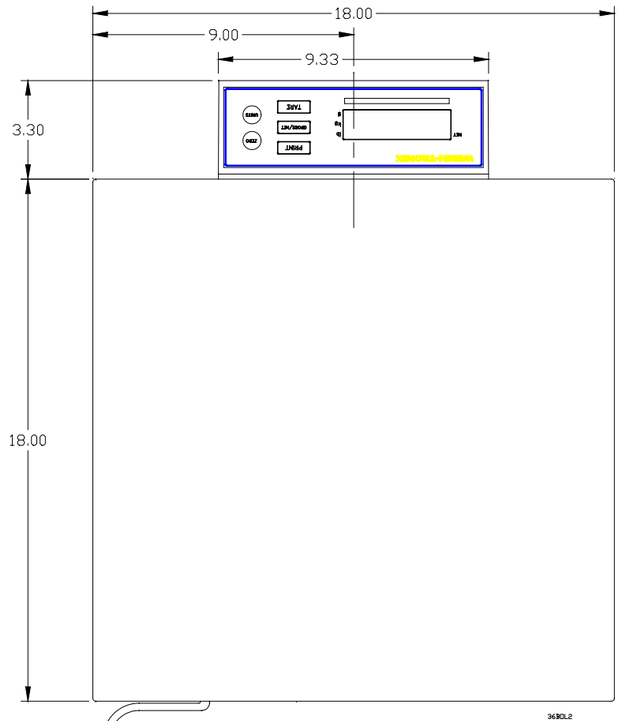


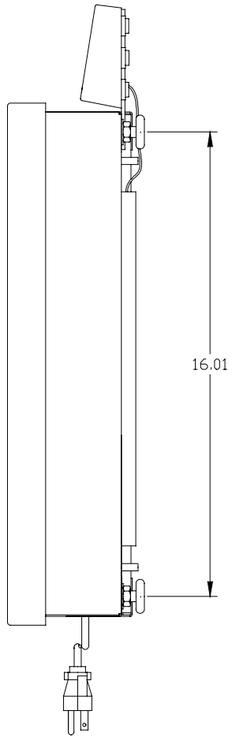


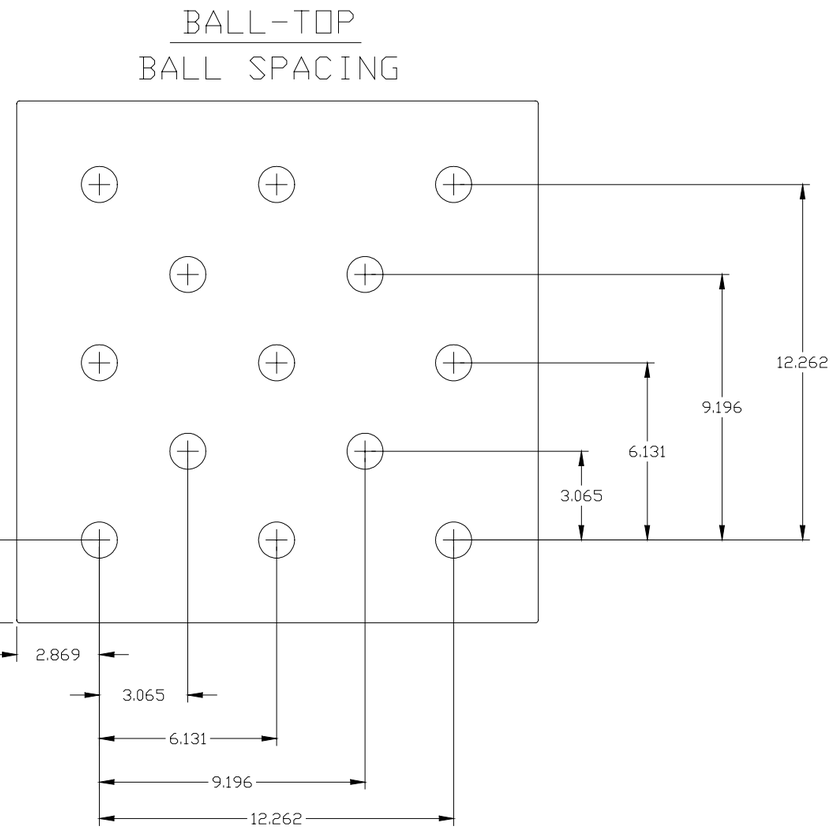
3600B SERIES QDT BENCH SCALE

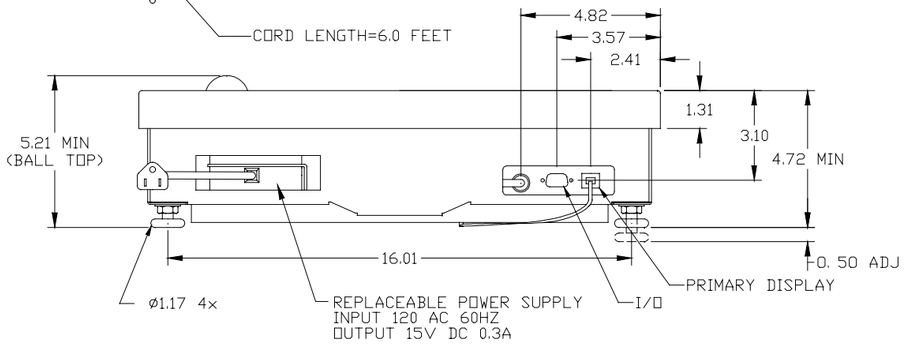
SCALES *AND* BASES

DIMENSIONAL OUTLINE FOR 18” x 18” BASES



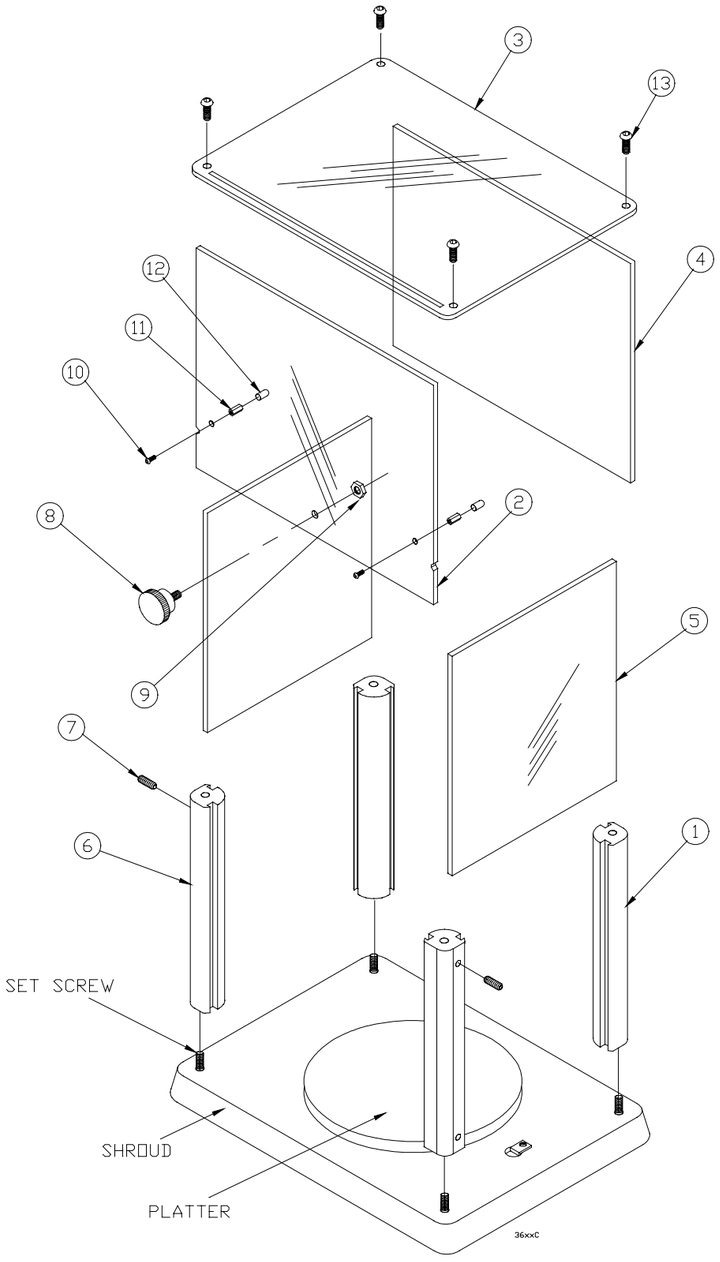






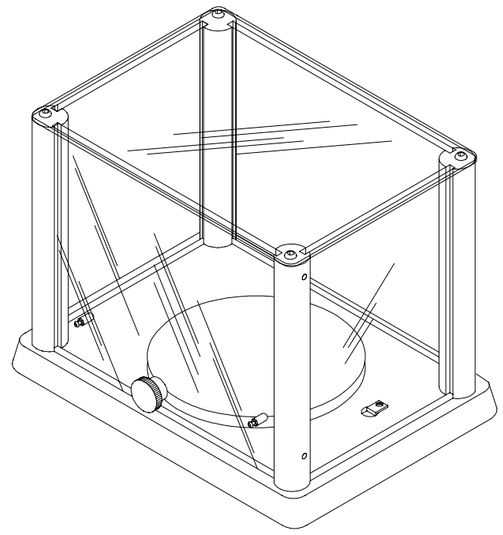
3600B SERIES QDT BENCH SCALE

DRAFT SHIELD *(optional)* (10 lb. / 5kg., 12” x 14” BASE VERSION ONLY
PARTS *AND* ASSEMBLY



NOTES:

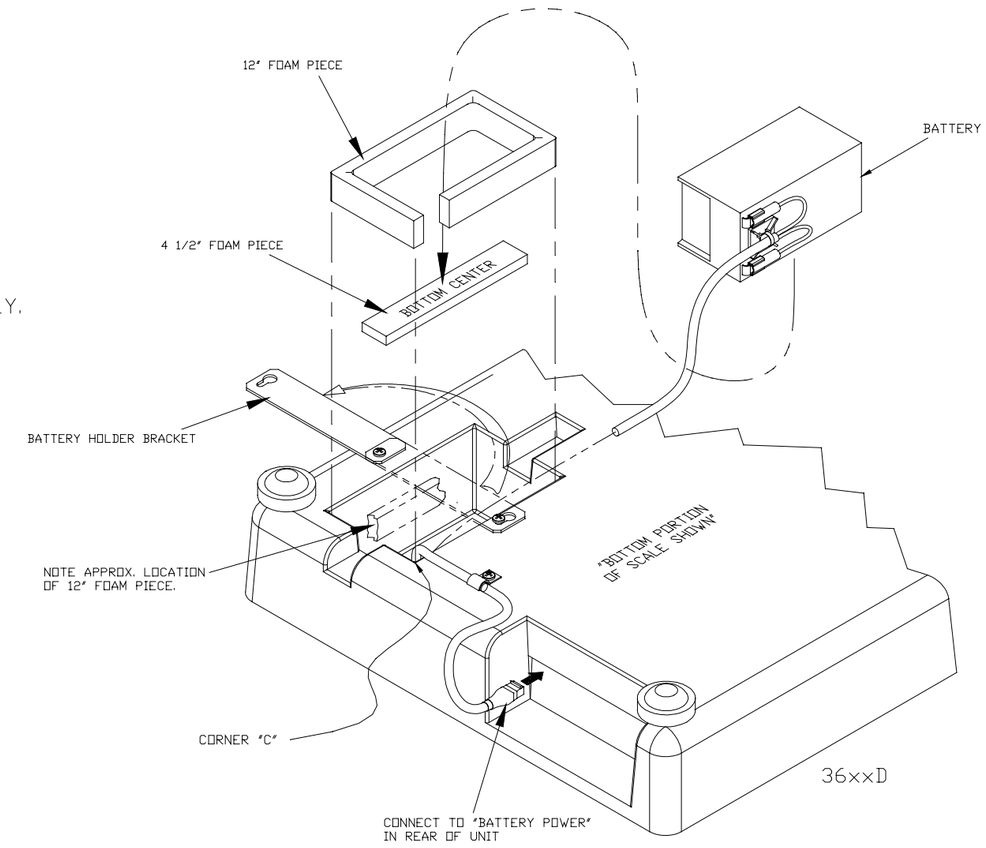
TO INSTALL DRAFT SHIELD, THE HEXNUT AND PLASTIC CAP AT THE CORNERS OF THE SHROUD NEED TO BE REMOVED AND DISCARDED BEFORE ATTACHING CORNER RODS.

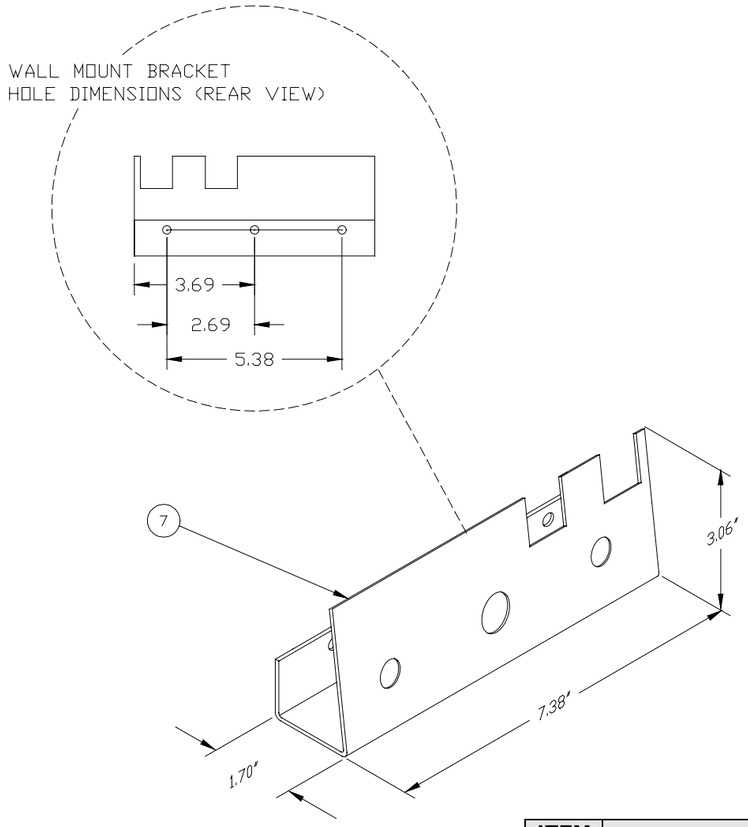


ITEM NO.	DESCRIPTION	W-T P/N	QTY	QTY
1	SUPPORT POST	1058-15413	2	2
2	SHIELD DOOR	1069-15404	1	1
3	SHIELD TOP PANEL	1069-15403	1	1
4	SHIELD REAR PANEL	1069-15406	1	1
5	SHIELD SIDE PANEL	1069-14604	2	2
6	SUPPORT POST w/SIDE HOLE	1058-14424	2	2
7	THREADED SPRING / PLUNGER	1068-14610	2	2
8	KNOB	1091-14144	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

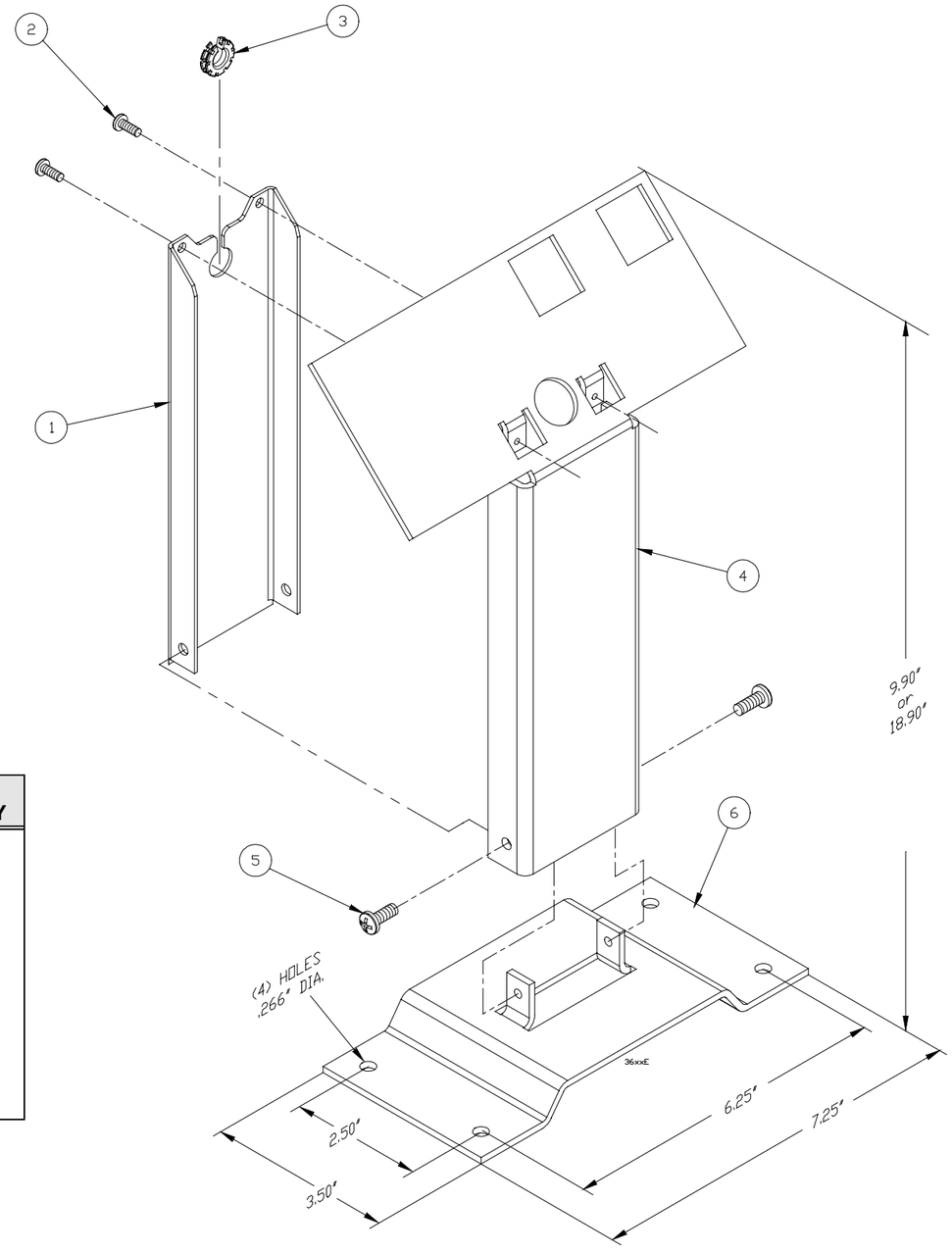
DIRECTIONS FOR INSTALLING BATTERY KIT:

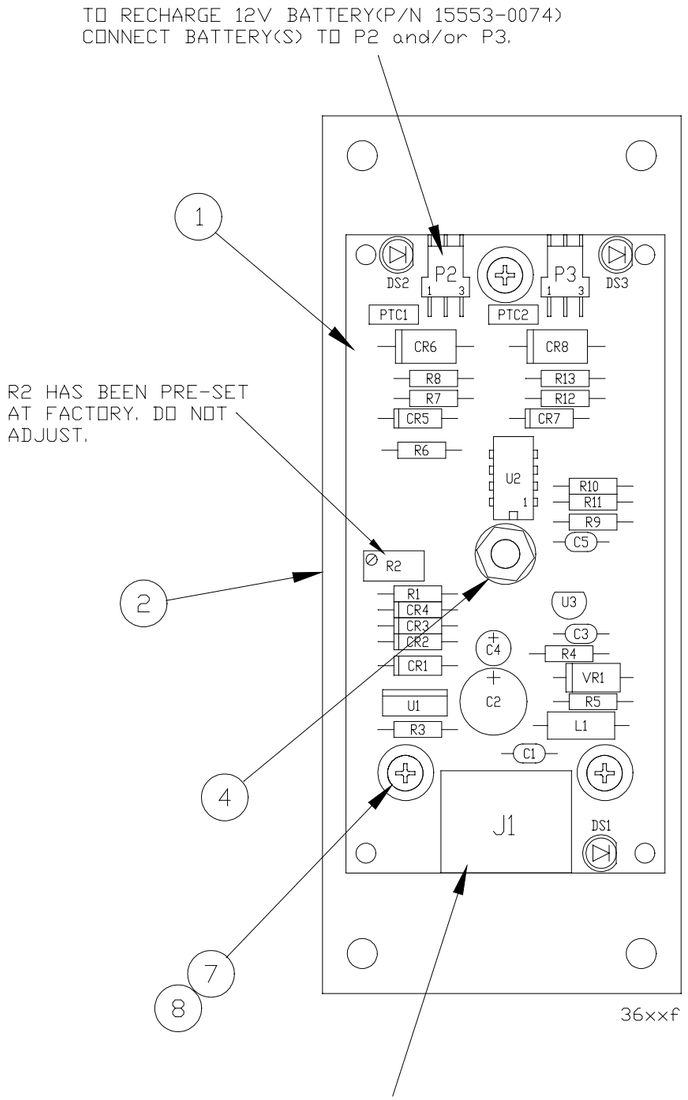
1. REMOVE BRACKET HOLDING INLINE 15 VDC POWER SUPPLY IN PLACE.
2. REMOVE INLINE POWER SUPPLY AND FOAM SHIPPING PAD FROM UNDER THE POWER SUPPLY.
3. CUT A 4.5" LENGTH OF FOAM STRIP FROM THE 16.5" PIECE OF FOAM INCLUDED IN KIT.
4. PLACE THE 4.5" PIECE OF FOAM CENTERED TO BOTTOM OF OPENING AS SHOWN.
5. PLACE 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.

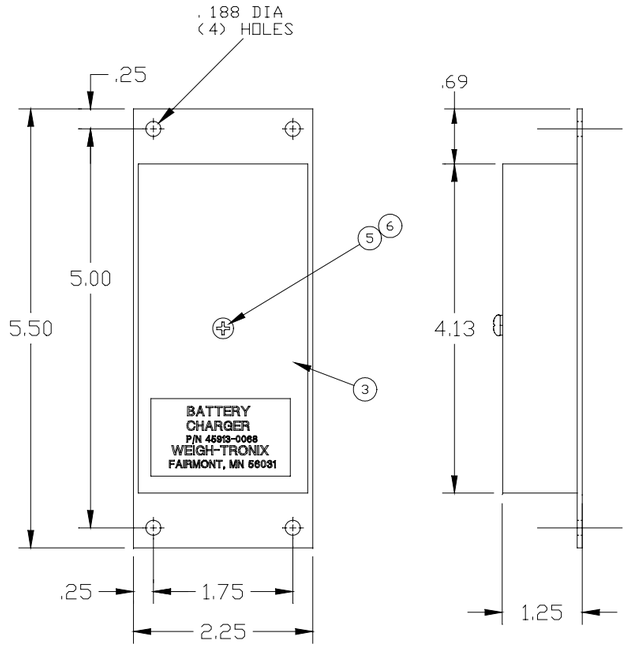




ITEM NO.	DESCRIPTION	W-T P/N	QTY
1	Tower Support Channel	49658-0010	1
	Tower Support Channel	49658-0028	1
2	Screw,#6 x 3/8" L	14473-0249	2
3	Grommet	15347-0018	1
4	Tower Channel (9")	49659-0019	1
	Tower Channel (18")	49659-0027	1
5	Screw,#10 x ½" L	14473-0496	2
6	Tower Base	50085-0011	1
7	Wall-Mount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







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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