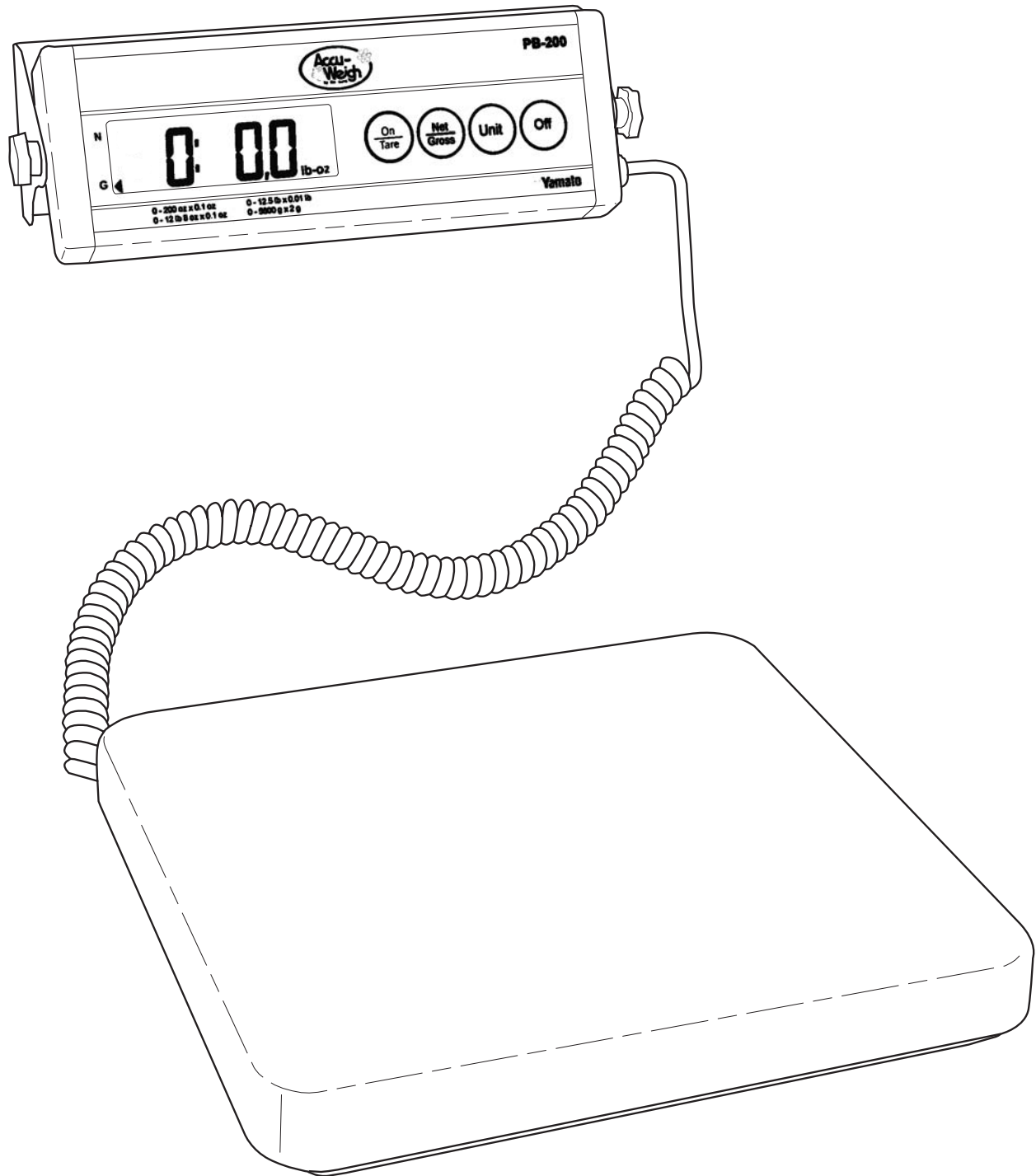


PB-200

Technical Manual



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Table of Contents

I.	Introduction	1
II.	Set-up Procedures	1
	A. System Parameter Mode	1
	1. Unit Enable\Disable	1
	2. Auto-off Setting	3
	B. Calibration Mode	4
III.	Troubleshooting	5
IV.	Wiring Diagram	6
V.	Parts List	7

SAFETY INSTRUCTIONS

Before using the scale, carefully read, understand and follow the "Safety Instructions" described in this manual. Observe the advice given in the "Operations" section to ensure proper operation. Keep this operation manual handy for reference.

- 1) This scale is **not** an explosion-proof model. Do not use the scale in an atmosphere containing flammable gases or explosive fumes. A fire or an explosion can result.
- 2) Do not operate the scale if there is smoke or a burned smell coming from the scale. Unplug the scale immediately. After making sure that there is no danger, consult your dealer. Never try to repair the scale by yourself.
- 3) Never step on or sit on the scale. Not only will the scale be damaged, but you may also be injured.
- 4) Place the item to be weighed in the center of the platform. Items placed on the edge of the platform may fall off and cause injury.
- 5) When weighing a heavy, large or unbalanced item, make sure the item is stable on the platform, otherwise, an accident may occur.
- 6) When carrying or moving the scale, be sure to hold it by the bottom of the base with both hands. If you hold it by the platform, the platform or the platform support may become detached causing the scale to fall. This will damage the scale. The platform is designed for easy removal and cleanup.
- 7) Do not insert your finger into the gaps or holes in the scale. You may be injured.

I Introduction

The PB-200 displays units of pounds and ounces, continuous pounds, continuous ounces, and grams. Any of these units can be disabled in the System Parameter mode (see section II.A.) The specifications for each unit are in the following table.



Capacity	Increment	Accuracy	Maximum Tare
12 lb 8 oz	0.1 oz	0.1 oz	12 lb 8.9 oz
12.5 lb	0.01 lb	0.01 lb	12.56 lb
200 oz	0.1 oz	0.1 oz	200.9 oz
5600 g	2 g	2 g	5696 g

The PB-200 contains a 6-AA rechargeable battery pack good for up to eight hours of continuous use. It takes about fourteen hours to recharge the battery pack with the AC adaptor. The scale may be operated while the batteries are recharging. Use only the AC adaptor supplied or an adaptor of the same output characteristics.








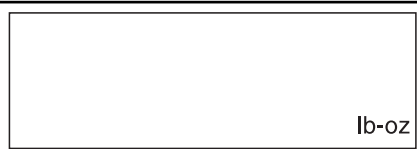


While operating the PB-200 on batteries, an automatic-off feature is enabled. It will turn off the scale after two, three, four or five minutes of non-use, unless the feature is disabled. The time delay for the automatic-off, including full disable, is set in the System Parameter mode (see section II.A.) Use of an AC adaptor disables the automatic-off feature.

II Set-up Procedures

II.A System Parameter Mode

System parameter mode is used to select which units (g, lb-oz, lb or oz) can be chosen by the scale operator, and to disable or select the length of the automatic-off feature. While in system parameter mode, the  key is used as a "Enter" key and the  key is used as a "Select" key.


II.A.1 Unit Enable\Disable

1. With the scale on, press and hold the  key until the display shows "Set".	
2. Release the  key. The display will now show "Unit".	
3. To disable operation of the scale in any of the four units press the  key.	
4. Pressing the  key will advance the display through gram mode, pound-ounce mode, pound mode, ounce mode and back to "Unit". Advance to the desired unit.	
5. Press the  key to set the selected unit.	


II Set-up Procedures

II.A System Parameter Mode


II.A.1 Unit Enable\Disable (continued)

6. Toggle between on and off to enable or disable the selected unit mode by pressing the  key.


OFF lb-oz

7. When the desired state is displayed, press the  key to return to the unit mode selection display.


lb-oz

8. Continue to advance through the unit modes by pressing the  key until all desired changes have been made.



lb

9. Press the  key until the display reads "Unit".


Unit

10. Press the  key once to proceed to automatic-off setting (see section II.A.2 for details.)

A,OFF

11. To return to normal operating mode and save any changes, press the  key twice. The display will read "End". Press the  key.


End

12. To exit the system parameter mode without saving any changes, press the  key.


II Set-up Procedures

II.A System Parameter Mode


II.A.2 Auto-off Setting

1. With the scale on, press and hold the  key until the display shows "Set".


◀ **Set** lb

2. Release the  key. The display will now show "Unit".


Unit

3. Press the  key once. The display will read "A,OFF".

A,OFF

4. Press the  key once to enter Automatic-off adjustment mode.



120

5. Pressing the  key will advance the display through 120, 180, 240, 300 and OFF.


180

6. Select the desired setting by pressing the  key.

Unit














7. To return to normal operating mode and save any changes, press the  key. The display will read "End". Press the  key.

End

8. To exit the system parameter mode without saving any changes, press the  key.

II Set-up Procedures

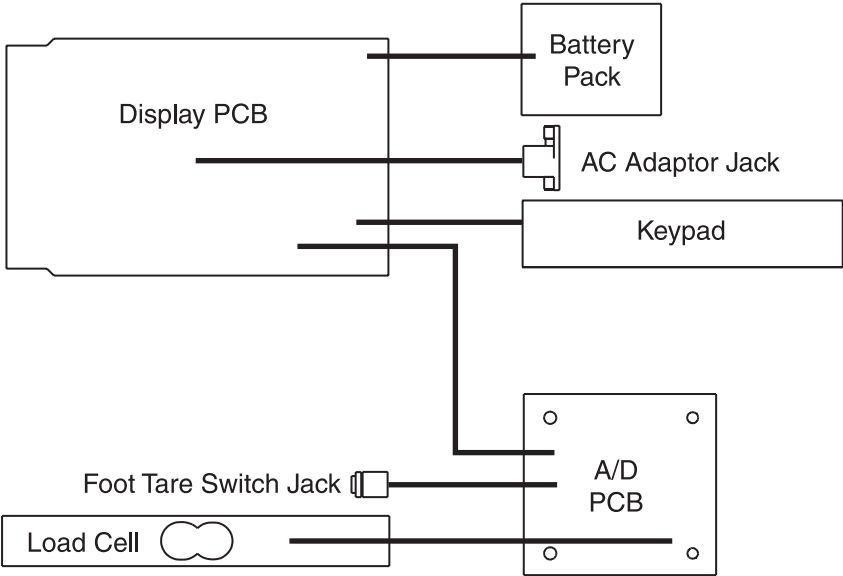
II.B Calibration Mode

1. With the scale off, hold down the  key while pressing the  key three times. Release the  key. The scale should be displaying the internal counts.	
2. Press the  key to zero the counts.	
3. Select either pounds or grams by pressing the  key.	
4. Place either 10 pounds or 5 kilograms on the scale platform. The counts should read 5000 to 9000 for pounds or 5000 to 10,000 for grams.	
5. Press the  key. The display will read "Cal" for about four seconds.	
6. The scale should return to normal operating mode and display the calibration weight.	
7. Remove the weight from the scale platform. The display should indicate zero pounds or grams.	

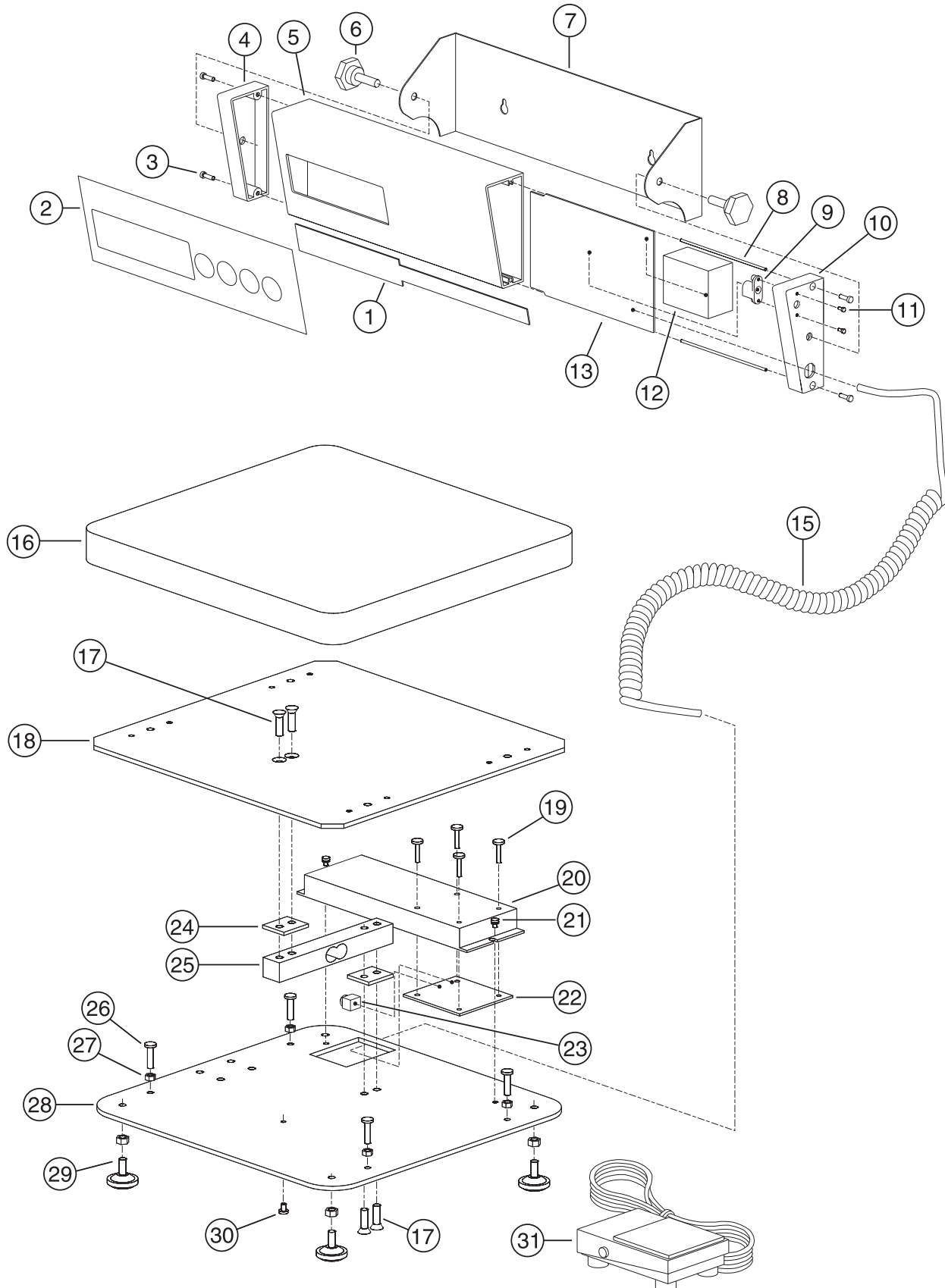
III Troubleshooting

Problem	Possible Cause	Solution
The scale will not power on.	Batteries dead or incorrectly installed. AC adapter loose or malfunctioning. CPU board malfunction.	Test batteries. Reinstall if needed. Reseat adapter. Replace if needed. Replace CPU board.
The display continues to display four eights after the scale is turned on.	Vibration or an unstable position or platform.	Remove source of vibration or place scale on stable platform.
"Err" appears upon power up.	Platform weight too high.	Clear platform and restart.
"ErrL" appears upon power up.	Platform weight too low.	Remove platform, clear away any debris and reinstall platform.
The displayed weight fluctuates excessively.	Material between the platform and the scale body. Weighing assembly in contact with wires or case. Load cell connector loose or damaged. Power board malfunction. CPU board malfunction.	Remove material. Reposition wires, case or platform. Reconnect or replace the load cell connector. Replace power board. Replace CPU board.

IV Wiring Diagram



V Parts List



V Parts List

ITEM	PART NUMBER	DESCRIPTION	QTY
1	CHA-1585-200110	Keypad	1
2	CHA-1585-200100	Front Mask	1
3		Screw, Tapping, Pan Head, M3 x 10	4
4		End, Indicator, Left	1
5		Housing, Indicator	1
6	CHA-1585-200170	Knobs, Adjustment	2
7		Holder, Indicator	1
8		Rod, Retaining	2
9		Jack, AC Adaptor	1
10		End, Indicator, Right	1
11		Screw, Tapping, Pan Head, M2 x 5	2
12		Battery Pack, Rechargeable	1
13	CHA-1585-200120	PCB, Display	1
14	CHA-1585-ODS310	AC Adaptor (not shown)	1
15	CHA-1585-200150	Cable, Connecting	1
16		Platform, SS	1
17		Screw, Hex Head, Flat, Countersunk, M6 x 20	4
18		Plate, Upper	1
19		Standoff, A/D PCB	4
20		Housing, A/D	1
21		Screw, Pan Head, M4 x 5	2
22	CHA-1585-200140	PCB, A/D	1
23		Jack, Foot Tare Switch	1
24		Spacer, Load Cell	2
25	CHA-1585-200130	Load Cell	1
26		Screw, Pan Head, M5 x 17	4
27		Hex Nut, M5	4
28		Plate, Lower	1
29	CHA-1585-200160	Foot, Adjustable, with Locknut	4
30		Screw, Pan Head, M4 x 6	1
31	CHA-1585-200180	Switch, Foot Tare	1
32	CHA-1585-ODS330	Column, Indicator (Optional - Not Shown)	1