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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 burnt smell coming from the scale. Remove the batteries or unplug the AC adaptor 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 may become detached causing the scale to fall. This will damage the scale. The platform is designed for easy removal and clean-up.
- 7) Do not insert your finger into the gap or holes in the scale. You may be injured.

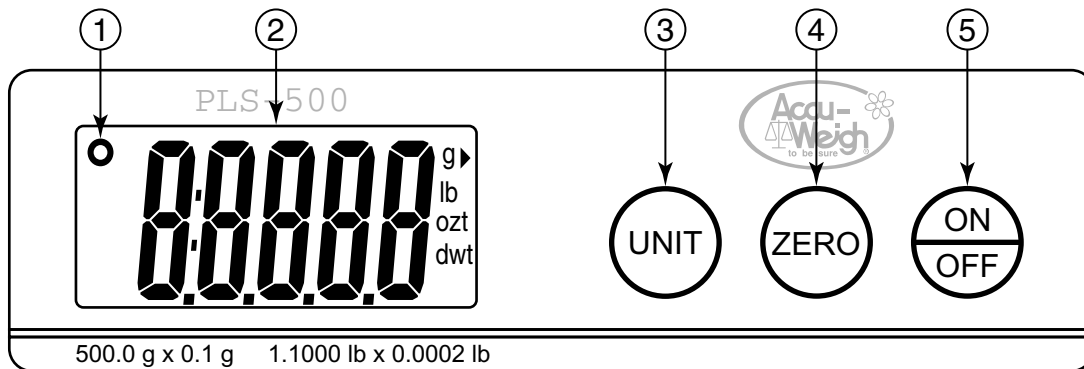
To prevent damage to the scale

- 1) Do not push the indicator or keys with sharp objects. They may break or puncture the switch membrane panel.
- 2) Use the specified power supply and choose a suitable environment. If you do not, the weight readings may be inaccurate and the scale may be damaged.
- 3) The scale is a sensitive weighing instrument, avoid physical shocks. If you drop something on the scale, step on the platform, or drop it, the scale may be damaged and lose accuracy.
- 4) If the scale becomes dirty, wipe it with a soft cloth. For stubborn stains, apply a little neutral detergent and then wipe the scale with a dry cloth. Do not use thinner, benzene, hot water, or chemical agents on non-metallic parts, all of which can cause deformation, discoloration, or deterioration.
- 5) Never remove the case. The fine adjustment section may be damaged and you may be injured by sharp edges on the internal parts.
- 6) Do not place the scale upside down.
- 7) When the low battery indicator appears, recharge the battery. The battery should only be replaced by a qualified scale technician. If the scale will not be used for a long period, have the battery removed.

To keep the scale working efficiently

- 1) Place the scale on a flat stable surface that will support the scale and the load.
- 2) Do not place the scale in an area exposed to direct sunlight or to wind currents from an air conditioner, otherwise, the weights will not be accurate.
- 3) Do not place the scale near machines that create vibrations or electromagnetic disturbance, such as microwave ovens, portable phones, or large motors. This will affect the accuracy.
- 4) The operating temperature range is from 10°C to 35°C (50°F to 95°F). Do not subject the scale to sudden temperature changes; allow the scale to adjust to the new temperature before use.
- 5) This scale is not waterproof or dustproof. Do not expose the scale to splashing water. Do not install the scale in an extremely humid or dusty environment.
- 6) If the scale is sealed, do not break the seal. If you break the seal, the scale will not be considered legal for trade. In this case, contact your dealer.
- 7) Do not disassemble or modify the scale, you will void the warranty. Modified scales will not be legal for trade.

I Name and Function of Parts



- | | |
|---|---|
| <p>1) Stable annunciator
 2) LCD Display
 3) Unit key
 4) Zero key
 5) On/Off key</p> | <p>Indicates the displayed weight reading is stable.
 Displays measured weight, units and status information.
 Selects units of measurement displayed (g, lb, oz, lb-oz, dwt or ozt). Press and hold to enter calibration mode.
 Press to zero display. Press and hold to enter setup mode.
 Press to turn scale on or off.</p> |
|---|---|

II Specifications

<p>Weighing system: Platform: Dimensions: Weight display: Type: Characters: Power supply: Battery life: Operating temperature: Capacities and Divisions:</p>	<p>Strain-gauge load cell 5.9" x 4.7" (150 x 120 mm), stainless steel 6.7" (D) x 5.9" (W) x 1.5" (H) (170 x 150 x 38 mm) Single face display 7 segment LCD 0.8" (H) x 0.25" (W) (20 x 6 mm), 5 digits 9 V, alkaline battery or 9 VDC, 100 mA AC adaptor 20 hours of continuous use 50°F to 95°F (10°C to 35°C) 500.0 g x 0.1 g 1.1000 lb x 0.0002 lb 17.500 oz x 0.005 oz 1 lb 1.50 oz x 0.01 oz 320.0 dwt x 0.1 dwt 16.000 ozt x 0.005 ozt</p>
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III Setup

Installing the Battery





The PLS uses a standard 9 volt alkaline battery. The battery compartment is located under the scale towards the back of the scale. Press the locking tab in and swing the cover out. Snap the battery onto the connector and replace the compartment cover.

Installing the AC adaptor


Use only the AC adaptor specified for use with the scale. Using the wrong adaptor can damage the scale. Insert the adaptor plug securely into the jack on the back of the scale.

Setting the Scale Functions

The scale functions can be changed in the setup mode to select which units are displayed (g, lb, oz, lb-oz, dwt and ozt), to select whether or not the counts are displayed, to change the duration of the auto-off function, to disable the auto-off function and to change the capacity of the scale when the load cell and panel are changed.

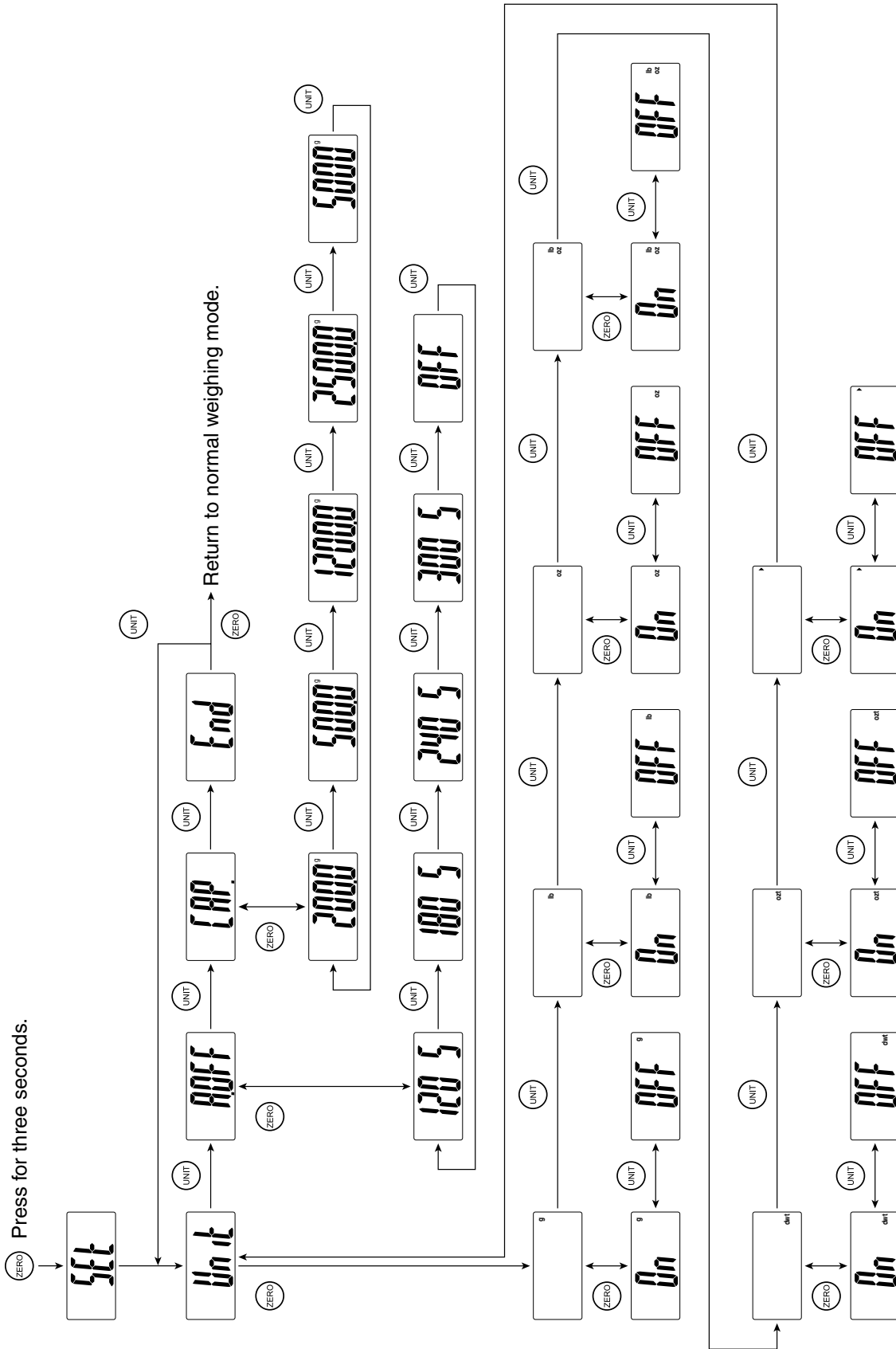
To enter the setup mode, press the  key for about three seconds. The display will briefly show "SET" followed by "UNIT". Use the  key as an ENTER or RETURN key, and use the  key as a SELECT or TOGGLE key. Refer to the setup chart on the following page. Any unit that is selected "ON" will be displayed, in sequence, when the  key is pressed. The auto-off setting selects the duration, in seconds, after which the scale will automatically turn itself off if it is not being used. If "OFF" is selected, the auto-off function will be disabled. The capacity setting should only be changed if the load cell and front panel are being changed.

Calibrating the Scale

With the scale on a level and stable surface, power the scale on and, with nothing on the platform, press the  key for about three seconds. The display indicate "CaL" followed by "CaL 0". The scale will calibrate the zero load point. The display will then alternate "LoAd" and either "200g" or "1000g", depending on the capacity of the scale (500 g or 2500 g). Place the indicated weight on the scale platform. After a few seconds the display will alternate "LoAd" and either "500g" or "2500g". Remove the previous weight from the scale platform and place the new indicated weight on the scale platform. After a few seconds, the scale will indicate "donE" and return to normal weighing mode. Remove the calibration weights from the scale platform and test the scale calibration.


If the calibration is inaccurate, verify that the surface the scale is on is level, stable and free from vibration. Recalibrate the scale. If the scale still will not read accurately, service may be required.



III Setup



IV Directions for Use

Turning the Scale On and Off


Remove everything from the platform surface, and press the  key. The display will briefly display a countdown of five digits. After approximately three seconds, the display will automatically set to zero.

Press the  key. The display will go off. The scale can be programmed to automatically shut off after 2, 3, 4, or 5 minutes of non-use, even if the  key is not pressed. Please see section III, “Setting the Scale Functions” to change this feature.


Low Battery Condition

The low battery indicator will appear when the battery needs to be replaced. See section III, “Installing the Battery” to replace the battery.

Zero the Display

The scale will automatically zero when turned on. If a value is displayed when the platform is empty, push the  key to zero the display. The maximum zero range is approximately the capacity of the scale.

Changing Units of Measurement



To cycle through g, lb, oz, lb-oz, dwt, ozt and counts, press the  key. The scale will only display the units that have been enabled in the scale set-up mode. Upon startup, the scale will default to the units that were selected when the scale was last turned off.

IV Directions for Use




Gross Weighing

- 1) Begin with no load on the scale and the display reading zero.
- 2) Place the item(s) to weighed on the scale platform. The weight displayed will be the gross weight.

Net Weighing

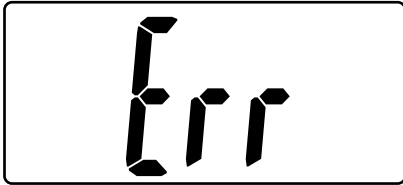
- 1) Begin with no load on the scale and the display reading zero.
- 2) Place an empty container on the scale platform, wait for a stable weight indication, and press the  key. The weight of the container will be deducted automatically and the display will read zero.
- 3) Place the item(s) to be weighed in the container. The weight displayed will be the net weight. Do not allow the gross weight on the scale platform to exceed the capacity of the scale.
- 4) To return to gross weighing mode, remove all items from the scale platform and press the  key.

Batching

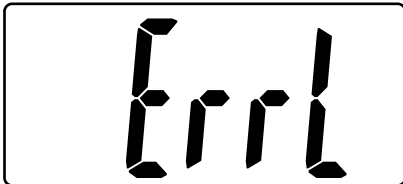
- 1) Begin with no load on the scale and the display reading zero.
- 2) Place an empty container on the scale platform, wait for a stable weight indication and press the  key. The weight of the container will be deducted automatically and the display will read zero.
- 3) Place the first item in the container until the desired weight is reached.
- 4) Press the  key and the display will return to zero. Place the next item in the container until the desired weight is reached.
- 5) Continue in this manner until all items to be batched have been weighed. Do not allow the gross weight on the scale platform to exceed the capacity of the scale.
- 6) To return to gross weighing mode, remove all items from the scale platform and press the  key.

V Troubleshooting and Error Messages

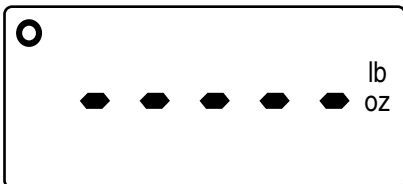
The scale can check some functions automatically. When a problem is detected, the following messages will be displayed. Take the steps described below in order until the error is corrected.



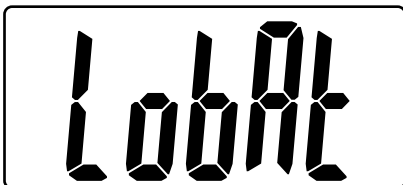
- The load on the scale exceeds the scale capacity.
- 1) Remove the excess load from the scale platform.
 - 2) Check to make sure nothing is wedged beneath the scale platform, causing it to stick.
 - 3) Calibrate the scale.
 - 4) Have the scale serviced by a qualified scale technician.



- The load on the scale is below the scale capacity (excessive negative reading).
- 1) Place the scale platform back on the scale if it has been removed.
 - 2) Check to make sure nothing is wedged beneath the scale platform, causing it to stick.
 - 3) Calibrate the scale.
 - 4) Have the scale serviced by a qualified scale technician.



- The scale is reading a negative weight that is beyond the ability of the scale to display. This usually occurs in pound and in pound-ounce modes when a weight has been zeroed and then removed from the platform.
- 1) Press the zero key.
 - 2) Calibrate the scale.
 - 3) Have the scale serviced by a qualified scale technician.



- Low battery indication.
- 1) Replace the battery or use the AC adaptor.
 - 2) Have the scale serviced by a qualified scale technician.