



American Weigh Scales

LS-110

User Manual



LS-110 (110lb x 0.2lb)



## LS-110 Manual

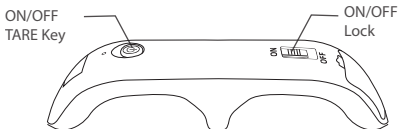
Thank you for purchasing the American Weigh LS-110 luggage scale. Please read all operating instructions carefully before use. Scales are precision measuring devices and should always be handled with proper care. To ensure years of reliable service, keep these simple tips in mind:

- Do not exceed the scale's maximum capacity. Overloading your scale can permanently damage it!
- Avoid exposure to extreme heat or cold. Scales perform best at normal room temperature. If temperatures have changed dramatically, calibration and adjustment may be necessary.
- Allow your scale to warm up for 30-60 seconds before performing calibration and adjustment (if available).
- Store your scale in a clean, dry location. Dust, dirt, and moisture can accumulate on the weighing sensors and electronics causing inaccuracy or malfunction.
- Avoid using your scale in close proximity to strong radio wave emitting devices such as computers, cash registers, and cordless phones.
- Always weigh on a flat and level surface, free from vibrations and drafts. The corner of a room is usually the most stable.
- Gently apply all items to be weighed. Do not drop items onto the weighing platform.
- Avoid dropping your scale. The warranty does not cover damage due to rough treatment or overload.
- Check the batteries first if you are having any trouble with your scale. This simple step can remedy most scale issues.
- Do not disassemble your scale. This product contains no user serviceable parts.

## I. Part List

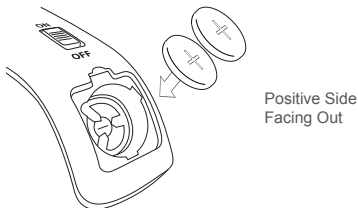
1. Scale
2. Weighing Tray
3. AAA Batteries (x2)

## II. Key Description






## III. Battery Installation

1. Before using the scale for the first time, check the battery compartment and remove any plastic insulation strips or packaging that may be in place to prevent battery drainage during shipping/storage.
2. If you are replacing the batteries, make sure the positive and negative contacts are properly aligned.






## IV. Operation

1. Set the ON/OFF Lock switch to the ON position and then tap the  key to turn the scale on.
2. Once the start-up process completes and the scale goes to zero, you are ready to weigh.
3. Place the quantity to be weighed on the weighing hook.
4. Once the weight has stabilized, a red light will illuminate on the top of the scale and the LCD will display HOLD above the weight.
5. The weight will remain on the display after the item is removed from the hook. To re-zero the scale, tap the  key.
6. Once weighing is complete, hold the  key to turn the scale off then set the ON/OFF Lock switch to the OFF position.

## V. Changing the Unit of Measure

This scale can read in KG or LB. To change the weighing mode, follow these instructions:

1. Tap the  key to turn the scale on, then immediately press the  key again and hold it for 2-3 seconds until the weighing unit is displayed, then release.
2. Now tap the  key to change the weighing unit between KG or LB.
3. After a couple of seconds the scale will enter normal weighing mode.
  - **LS-110 Units:** kg (kilogram) ► lb (pound)

## VI. Using the Tare Feature

You can use this scale's tare feature to subtract the weight

of an empty container or vessel for net weight determination.  
NOTE: The weight of the container will subtract from the available capacity.

1. Turn on the scale as described in Section IV.
2. Attach your tare item / empty container using the hook and wait for it to stabilize (HOLD will be displayed).
3. Tap the  $\odot$  button. "0.0" will be displayed.
4. You can now add items to the container to obtain just the weight of the contents.
5. When the container is removed the weight will be held on the display. Press  $\odot$  again to zero the scale.

## VII. Calibration

Calibration and adjustment are performed at the factory. However, the weighing range can shift slightly during shipping. Also, due to changes in local acceleration of gravity around the world, adjustment is recommended when moving the scale from one location to another. To check calibration:

1. Place the required calibration weight on the scale and note the displayed value.
2. If the displayed value is not within acceptable tolerance (see chart on next page), adjustment is required.

Model	Acceptable Tolerance ( $\pm$ )	Calibration Weight	Recommended Accuracy Class
LS-110	0.3kg	20kg	OIML M2

## VIII. Adjustment

1. Press the  $\odot$  key to turn the scale on.
2. Once the LCD shows "8888" press the  $\odot$  key sev-

- eral times until the inner code displays (~2680)
3. Press  $\odot$  again. The display will flash "CAL" followed by the required calibration weight (20kg).
  4. Add the required weight. The display will show pass and return to normal weighing mode.
  5. Remove the weigh and press and hold the  $\odot$  key to turn the scale off. Calibration is complete!

### IX. Troubleshooting

- **Problem:** Scale will not turn on
- **Solution:** Check the batteries and ON/OFF lock
  
- **Problem:** Display will not stabilize
- **Solution:** Make sure the weight is stable on the hook and not shaking or swinging
  
- **Problem:** Displayed weight is inaccurate
- **Solution:** Perform a calibration adjustment

### X. Error Codes

1. **OUTZ** - Zero range has shifted. Perform calibration adjustment. If the problem persists, the load cell may be permanently damaged due to overloading.
2. **EEEE** - Maximum capacity exceeded. Remove the extra weight to avoid damaging the load cell.
3. **LLLL** - Load cell has been overloaded.
4. **UNST** - The scale is unstable. Use the scale in a more stable position

## XI. Specifications

	LS-110
Max. Capacity	110lb / 50kg
Readability	0.2lb / 0.1kg
Min. Capacity	0.6lb / 0.3kg
Power	2 x CR2032
Dimensions	1.4 x 6.0 x 4.8 in. (hook extended)
Hook Dimensions	Gap: 1.2in / Throat: 1.2in
Warranty	10 Year Limited Warranty