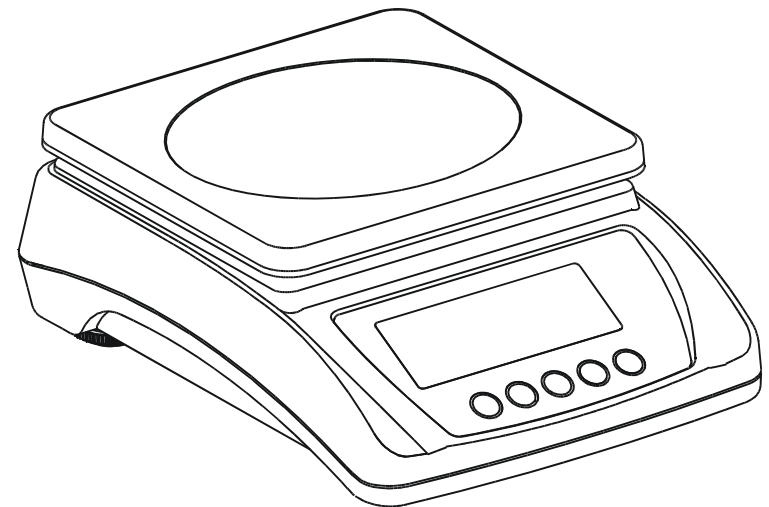


# **HRB BALANCE INSTRUCTION MANUAL**

**3000g, 6000g & 10,000g**

With Counting



# SAFETY PRECAUTIONS

All safety messages are identified by the following the words "WARNING" and "CAUTION". These words mean the following:

△WARNING	Important information to alert you to a situation that might cause serious injury and damage to your balance if instructions are not followed.
△CAUTION	Important information that tells how to prevent damage to equipment.

When using the scale/balance, the following safety precautions should always be followed.

## △ WARNING

**Use only the AC adaptor supplied with the scale/balance. Other adaptor may cause damage.**

## △ CAUTION

Avoid using the balance under direct sun light. This may cause discoloration or malfunctions.

Do not mix batteries. Replace all other batteries at the same time.

Remove all batteries if balance is not used for extend period of time.

Avoid overloading beyond the rated capacity of the balance.

Avoid any moisture or water on the balance.

Discharge static electricity by grounding the balance or using anti-static spray.

## Settings for

- **Beeper**
- **Auto Shut Off**
- **Auto Back Light**

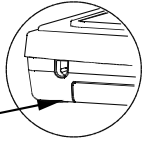
To turn the scale to "always ON"

1. Press "ON/OFF" until it displays "- - - - -"
2. Press "PCS", display will show "Zrd x.x"
3. Press "ZERO", display will show "Zrt x.x"
4. Press "ZERO", display will show "r2d x.x"
5. Press "ZERO", display will show "FIL x"
6. Press "ZERO", display will show "P2r xx"
7. Press "ZERO", display will show "K2r xx"
8. Press "ZERO", display will show "Ktr xxx"
9. Press "ZERO", display will show "Ovr xx"
10. Press "ZERO", display will show "b2 ON" or "b2 OFF", press "UNIT" key to switch ON or OFF beeper
11. Press "ZERO", display will show "Zt ON" or "Zt OFF"
12. Press "ZERO", display will show "A ON" or "A OFF", press "UNIT" key to switch ON or OFF Auto Shut Off.
13. Press "ZERO", display will show "L ON" or "L OFF" or "L Aut", press "UNIT" key to switch ON or OFF or Auto Light.
14. Press "ZERO" to return to the weighing mode.

**PARTS DESCRIPTION**

▶ **RIGHT SIDE**

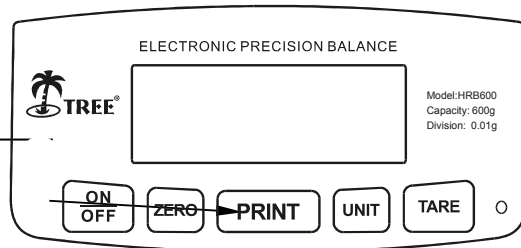
AC adaptor



Socket

**TOP**

Display



**ON/OFF key**

Turns the scale power on/off.

**ZERO key**

sets display to zero

**PRINT key**

**UNIT key**

**TARE key**

weighing units, g ,ct, oz, tola.....

▶ **BOTTOM**

Switch key

Battery compartment

Battery compartment cover

**Batteries**

Use 6 AA batteries

▶ **DISPLAY**

Low battery indicator

Negative value indicator

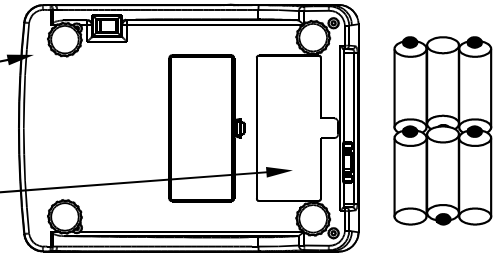
**STABLE** indicator

when weight is stable.

weighing unit TARE indicator



Print indicator



**FUNCTION SETTINGS**

• **Printer**

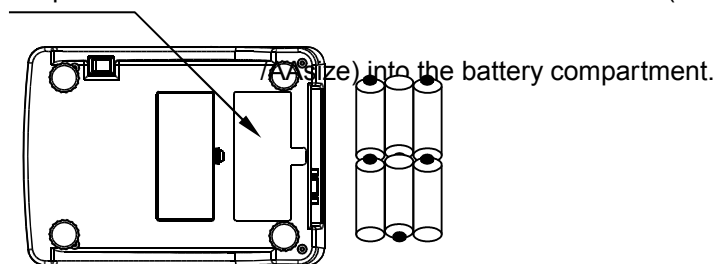
1. Press [ON/OFF] to turn on the scale, the display will show flash digits and then -----,
2. press [PRINT], the display will show b xxx BAU value
3. press [UNIT] to select among (1200,2400,4800,9600),
4. our default setting is 9600.
5. Press [ZERO] to enter Parity mode, the display will show P xxx PAR,
6. Press [UNIT] to select odd, even, none (odd stands for 7 data bits with odd parity, even stands for 7 data bits with even parity, none stands for 8 data bit without parity)
7. Our default setting is none.
8. Press [ZERO] to enter Print mode, the display will show n xxx mod,
9. Press [UNIT] to select CON,OFF, KEY, STB
  - a) OFF stands for serial data output disabled,
  - b) KEY stands for demand mode by pressing [PRINT],
  - c) STB stands for automatic print when scale is stable,
  - d) CON stands for continuous print,
  - e) our default setting is STB.
10. Press [ZERO] again to return to weighing mode.

**PREPARATION**

**1.Installing batteries or connecting AC adaptor**

**Batteries**

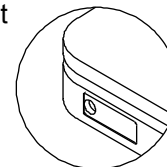
Battery compartment      Remove the battery compartment cover and insert six batteries(R6P/LR6



R6P/LR6/AA size  
Dry batteries  
Battery compartment cover      (batteries are not included)

**AC adaptor**

AC adaptor socket



Your power output can be 110, 120, 220 or 240 volts (50/60 hz). Please use the Correct AC adaptor

**2.Setting**

**CAUTION**

Avoid installing the scale/balance in direct sun light, that may cause discoloration or malfunctions. Place your scale/balance on a firm weighing table so that the scale/balance is level. (The scale/balance will not perform accurately when it is not level.)

Place the balance on the firm surface that is flat and level for an accurate weighing.

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### SPECIFICATIONS

Model number	Capacity	Division
HRB – 3000	3000g	0.1g
HRB - 6000	6000g	0.1g
HRB – 10,000	10,000g	0.1g
Platter	180 mm x 170 mm	
Net/gross weight	5 lb	
Package	35 x 23 x 14 cm (H)	
Operating Temperature	0-40 °C (32-104 °F)	
Power source	6 AA battery or AC/DC	
	Adapter 10~12V / 500mA	

#### Error Code

Error Code	Reason	Trouble Shooting
ERR-O	Over load	use within capacity
ERR-2	1).exceed Zero tracing range when power on. 2). Forgot to place platform when linearity calibration	1). tack off the weight when power on 2). place platform and then recalibrate scale
ERR-5	inner code unstable when power on	1) load cell was being touched 2) E+ power supply unstable 3) There are capacitance creepage of C1AD~C6AD
ERR-C	forgot to input calibration weight when calibrating	CAL~000000~ press [UNIT] and [PCS] (TARE) key to input calibration weight
ERR-P	counting setting error	place sample when counting setting
ERR-L	forgot to place test	place test weight when

	weight when calibrating	calibrating
ERE-E	there are something wrong w/ memorizer	check U24c02

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### CALIBRATION

How to calibrate

1. Turn on hard switch on bottom right of scale.
2. Press [ON/OFF] to turn the power on for 15 minutes for warm up.
3. With scale turned off, Press [ON/OFF] to turn the power on.
4. Display will show flash digits and then “-----”,
5. Press [ZERO], the display will show “CAL” ,
6. Press [ZERO] again , the display will show “X0000 CAL”,
7. X is the flashing digit.
8. Press [UNIT] key the flash digit will move to right;
9. Press [PCS] key to increase the flash digit. (X is the calibration weight which can be set according to your requirement – we recommend a minimum of 50% balance capacity).
10. Place calibration weight on center of scale platform.
11. Press [ZERO] key, the display return to the weight value.
12. Now the Calibration is completed.
13. Press [ON/OFF], turn off the power.
14. Press [ON/OFF] turn on the power again.
15. Place the weight on the platform to make sure weighing is correct, if not, repeat above steps.

## WEIGHING

### Before weighing

Whenever possible, please allow the balance to warm up for 10 minutes after first turning to power on, so that the balance will function properly and accurately.

### Error messages

EEEE: Overload



Low battery

Calibration may be required before weighing.

Read "CALIBRATION" first and if necessary, calibrate your balance for accurate weighing.

### Weighing procedures

1. Press [ON/OFF] to turn on the balance.

When power is turned on, all display segments appear on LCD for a few seconds and finally "0" will appear on the display.

2. Select the weighing unit with [UNIT].

Press [UNIT] to select a weighing unit, eg. "g" "ct" "oz" "tola" .....

Once the unit has been selected, the selected unit will display the weight value.

3. Start weighing

If you do not use a container for weighing

Verify the reading is "0". If not, press [ZERO] to display "0".

Place objects on the weighing platform to weigh.

When the reading becomes stable, the stable indicator is displayed.

If you use a container for weighing

Place an empty container on the platform.

Wait for the stable indication and press [ZERO].

Place the objects to be weighed in the container.

When the reading becomes stable, the stable indicator is displayed.

## FEATURES

- Auto calibration
- Auto zero tracking
- Low battery indication
- Large 1 inch LCD with backlight
- Net weight/stability indication
- 1.3 million internal resolution
- Less than 1 second display setting time
- 24 bit AD conversion
- Selectable auto shut off
- Selectable backlight
- Selectable beeper
- g/ct/oz/tola conversions
- Counting Function

### Counting procedures

1. Press [ON/OFF] to turn on the scale.
2. Wait for "0" to appear on the display.
3. If necessary, press [ZERO] key to set the display to "0"
4. Press the [PCS] key to put the scale in PCS mode. ,the display will show P=X X
5. Press the [UNIT] key to select XX value (10, 20, 50, 100)
6. Place a given number of samples of an item on the pan (the Sample Size should be either 10, 20, 50 or 100 pieces).
7. Press [PCS] key to accept sample quantity.
8. Start counting by adding weight on the scale.

9. Press [PCS] key to return to the weighing mode.