

**HRB BALANCE**  
**INSTRUCTION MANUAL**  
**60g, 100g, 600g & 1000g**



# SAFETY PRECAUTIONS

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

△ <b>WARNING</b>	<b>Important information to alert you to a situation that might cause serious injury and damage to your balance if instructions are not followed.</b>
△ <b>CAUTION</b>	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

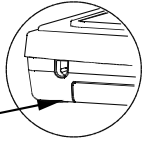
To turn the scale to "always ON"

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**

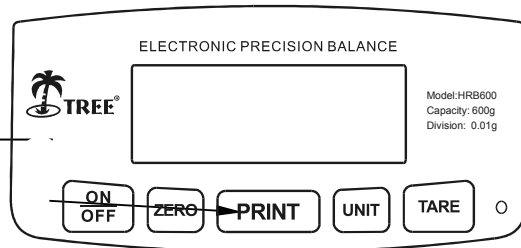
▶ **RIGHT SIDE**

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

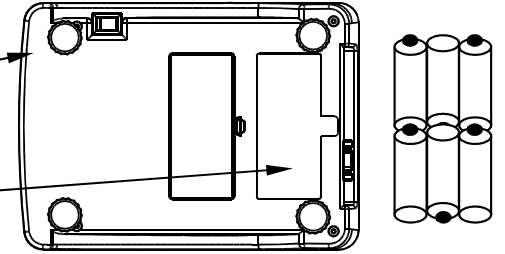
Negative value indicator

**STABLE** indicator  
when weight is stable.

weighing unit TARE indicator



Print indicator



FUNCTION SETTINGS

• Printer

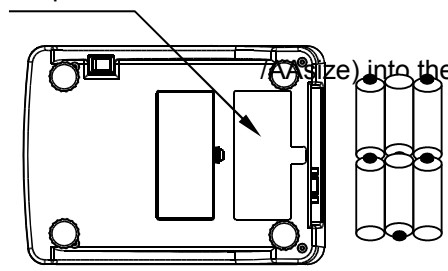
1. Press [ON/OFF] to turn on the scale, the display will show flash digits and then -----,
2. press [PRINT], the display will show b xxx BAU value
3. press [UNIT] to select among (1200,2400,4800,9600),
4. our default setting is 9600.
5. Press [ZERO] to enter Parity mode, the display will show P xxx PAR,
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 AA size) into the battery compartment.

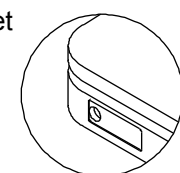


R6P/LR6/AA size  
Dry batteries  
(batteries are not included)

Battery compartment cover

AC adaptor

AC adaptor socket



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

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 - 60	60g ***	0.001g
HRB -100	100g ***	0.001g
HRB - 210	200g ***	0.001g
HRB - 600	600g	0.01g
HRB - 1000	1000g	0.01g
Platter	Φ40mm*** Φ 115mm	
Net/gross weight	3800g / 4700g	
Package	34 x 29 x 48 cm (H)***	
	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	

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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 [TARE] 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 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
- Larger 1 inch LCD Display
- Net weight/stability indication
- 1/120000 & 1/200000 division available
- 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

