



Professional Weighing Equipment

Portable Jewelry Balance



JLY 53 JLY 123

Operation Manual

Table of Contents

<u>Section</u>	<u>Page</u>
Declaration of Conformity	3
Customer Service	4
Introduction	5
Safety	6
Weight Scale	7
Functions	8
Features	9
Application & Conformity	10
Getting Started	11
Delivery	11
Assembly & Installation	12
Function Settings	13
Calibration	14
Maintenance & Service	15
Transportation & Storage	15
Warranty	16

Declaration of Conformity

Declaration of conformity for apparatus with CE mark

We hereby declare that the product to which this declaration refers conforms to the following standards.

Electronic scale: WPB - High Resolution Balances

USA model

UK (Europe) model

JLY 53

JLY 53

JLY 123

JLY 123

Mark applied	EU Directive	Standards
	2004/108/EC	EN 61326-1: 2006

Signature:



Boon Lim, R & D Manager

Date: 27.08.2018

LW Measurements LLC, 620 Carlson Court, Rohnert Park, CA 94928

Customer Service

USA

LW Measurements LLC
620 Carlson Court
Rohnert Park, CA 94928
USA
Tel: (707) 542-2185
FAX: (707) 542-3285

<http://lwmeasurements.com>

Introduction

What you should know about these Operating Instructions:

Tree® Professional Weighing Equipment products are simple to operate.

Nevertheless, you should read through these operating instructions in their entirety, so that you can make optimum use of the full potential and the diverse possibilities of the weighing scale in your daily work.

These operating instructions contain guidance in the form of pictograms and keyboard diagrams, which should help you in finding the required information:

For the labeling of potential hazards and advice, please see Safety below.

Safety

Representations and symbols

Important instructions, which involve safety, are highlighted with the appropriate mark:



Safety recommendations

When using the weighing equipment in surroundings with increased safety requirements, the corresponding regulations must be observed.

The weighing scale may only be used with the power adapter supplied. Before connecting the power adapter to the scale, the user must ensure that the operating voltage stated on the power adapter is compliant with the mains voltage. If not, please contact Customer Service at the address above.

If the power adapter or its cable is damaged, the weighing scale must immediately be disconnected from the electricity supply (pull out the power adapter).

If there should be any reason to believe that it is no longer safe to operate the scale, it should be immediately unplugged from the electricity supply (pull out power adapter) and secured against inadvertent operation.

In carrying out maintenance work, it is essential to follow the recommendations set out in maintenance and servicing.

The weighing scale must not be operated in an area subject to explosion risks.

Care must be taken when weighing liquids to ensure that no liquid is spilled into the inside of the scale or into connections on the rear of the equipment or the power adapter. If liquid is spilled on the scale, it must immediately be unplugged from the main electricity supply (pull out power adapter).

The weighing scale may be operated after it has first been inspected by a service technician.

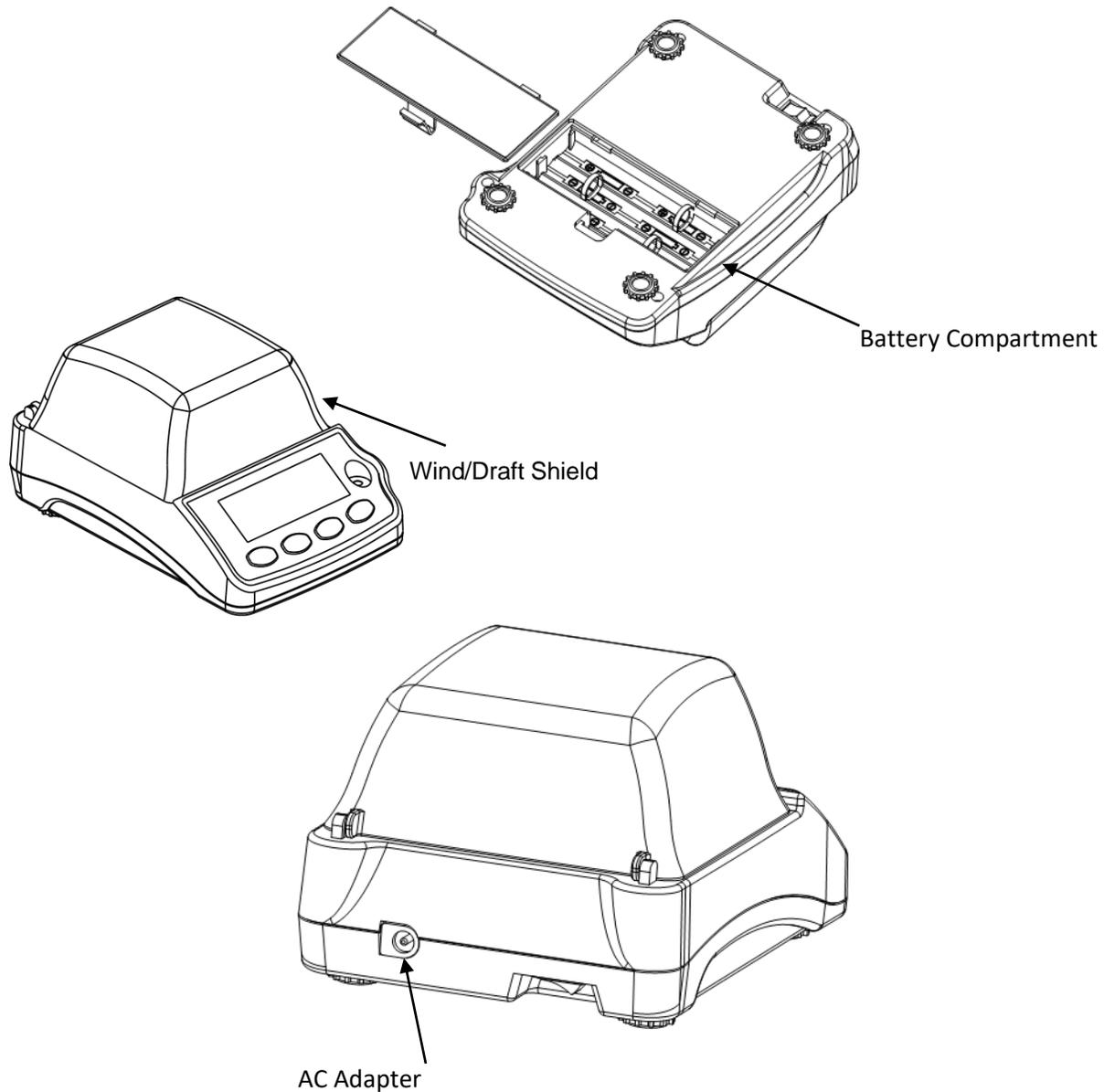
These operating instructions must be read by each user and should be easily accessible at the workplace at all times.

Weight Scale

Construction & Functions

The weighing scale consists of the following parts;

- Weight scale body
- The adapters
- Operating manual
- Storage box



Functions

The JLY Series are high-quality electronic precision weighing scales with the following specifications

Model number	Capacity	Graduation	Weighing pan Size
JLY 53	50g	0.001g	Diameter 70mm
JLY 123	120g	0.001g	Diameter 70mm
Net/gross weight	2.8 kg/4.2 kg		
Package (Standard carton)	1 unit plastic container 9.5 x 6.5 x 4.5 in		
Package (Master carton)	8 units per case 21 x13.5 x 10 in		
Operating Temp.	15-30°C (62-90°F)		
Power source	6 x AA dry cells(not included) or AC/DC		
	Adapter: 9V / 400mA		

Features

- Auto shut off (selectable)
- Auto zero tracking
- AC Power
- Hold function
- Auto calibration (AnyCal Software)
- Auto backlight (selectable)

Application & Conformity

The Following are instructions of how to correctly use the weight scale:

The weighing scale may only be used for the weighing of solid-materials and of liquids filled into secure containers.

The maximum capacity load of the weighing scale must never be exceeded, otherwise the weighing scale may be damaged.

In using the weighing scale in combination with other devices as well as with devices produced by other manufacturers, the appropriate regulations for the safe use of the relevant attachments and their application in accordance with instructions must be observed.

The weighing scale has been manufactured and tested in accordance with the standards and recommendations set out in the declaration of conformity.

The power adapter supplied for the weighing scale complies with the appropriate electrical protection class.

The following applies to JLY series

Power supply:

Input: 110V or 240V AC (+/-15-20%); 50 to 60Hz

Output: 9V DC/400mA

Allowable ambient conditions

Temperature: 5°C - 40°C

Relative humidity: 25% - 85%, non-condensing

If you have any questions on the technical data or require detailed technical information on your balance, please contact your technical representative.

Getting started

The scale is packaged in an environmentally-friendly carton, which provides optimum protection for the balance during transportation.

We suggest that you keep the original packaging in order to avoid damage if you are shipping or transporting the scale to a different location. It is also the best way to keep it in the best conditions if it will not be used for an extended period of time.

In order to avoid damage, please follow the instructions provided below, when unpacking the scale:

- Unpack the scale carefully.
- When outside temperatures are very low, the scale should be stored for a couple hours and kept in its box in a dry room at normal temperature, so that no condensation settles on the unit when opening the box.
- Check the scale immediately after unpacking for any external visual damage. If there is any damage on scale, contact customer service immediately.
- If the scale is not to be used immediately after purchase, it should be stored in a dry place where fluctuations in temperature are low. (Reference pg.15).
- Read through these operating instruction, before you work with the unit and pay attention to the Safety recommendations (reference Safety pg. 6).

Delivery

Inspect delivery for completeness immediately on unpacking all components.

Checklist for complete delivery

	Component delivered present yes / no
Weighing unit	
Plastic storage box	
Power adapter	
Operating manual	

Assembly & Installation

The weighing scale is delivered in a partly dismantled condition. Assemble the individual components in the following sequence:

- Place your machine on a level, clean, and dry surface to obtain accurate readings.

Connecting the AC Adapter

The following Safety recommendations must be observed when connecting the scale:



The Scale should only be connected to the mains voltage socket with the power adapter supplied. Check before connecting the power adapter to the mains socket, that the operating voltage stated on the power adapter complies with the local mains voltage. If the operating voltage is not the same as the mains voltage, the power adapter must not be connected to the mains socket and contact customer service.

Placement of Scale

The location in which the scale is placed is very important in order for the scale to work to its full potential. Certain conditions can affect the capabilities of the scale, conditions like: the presence of air flow, variations in temperature, and direct sunlight. Please follow the recommendations given below in choosing a location to place your scale.

- Place the scale on a solid, firm and preferably vibration-proof, horizontal base
- Make sure that the weighing machine cannot be shaken or knocked over
- Protect from direct solar radiation
- Avoid drafts and excessive temperature fluctuations
- Avoid placing the scale near or on any magnetic surfaces.

Function Settings

- Enter function setting mode.
Press **[ON/OFF]** to turn the power off, Press and hold **[ZERO]** button, then press **[ON/OFF]** to turn on the scale, the display will show **A_ON** or **A_OFF**.
- Selection of auto shut off mode.
When the balance entered function setting mode and showing **A_ON** or **A_OFF**, press **[ZERO]** to select **A_ON** or **A_OFF**, **A_ON** means auto shut off function active, **A_OFF** means auto shut off function inactive.
- Selection of auto backlight mode.
When the balance entered function setting mode and showing **A_ON** or **A_OFF**, press **[UNIT]** key, the display will show **L_ON** or **L_OFF**, press **[ZERO]** to select **L_ON** or **L_OFF**. **L_ON** means auto backlight function active, **L_OFF** means auto backlight function inactive.
- Return to weighing mode.
Press **[ON/OFF]** to turn the scale off, press **[ON/OFF]** again to turn on the scale and it returns to the weighing mode.

Calibration

Using an External Calibration Weight

Calibration is required when the weighing scale is initially installed or if the balance is moved to a substantial distance from the original location.

When to Calibrate

Calibration may be required when it is initially installed, if the scale is moved to a substantial distance.

This is necessary because the weight of a mass in one location is not necessarily the same in another location. Also, with time and use, mechanical deviations may occur.

How to calibrate

Before entering calibration mode, press **[ON/OFF]** to turn the power on to warm up the scale for 1 minute.

1. Enter calibration mode

Press **[ON/OFF]** to turn the power off. Press and hold **[UNIT]** , then Press **[ON/OFF]** to turn on the scale, the display will show CAL then the A/D value.

2. Calibration by the weight

Wait for the stable indicator to be displayed, Press **[UNIT]**, the display will show flashed calibration weight. Place the calibration weight on pan. After the stable indicator is displayed, then press **[UNIT]**, the display will show "-----" then the A/D value. Now calibration is finished, then remove the weight. Press **[ON/OFF]** to turn off the scale, press **[ON/OFF]** again to turn on the scale, place the weight on the pan to make sure the weighing is correct, if not, repeat above steps 1-2.

3. Return to weighing mode

Press **[ON/OFF]** to turn the scale off, press **[ON/OFF]** again to turn on the scale and it returns to the weighing mode.

Note: Transparent cover (wind shield) may accumulate static when the weather is dry. It can cause weight change when in use. Please wipe the cover fully with a damp cloth to get rid of the static.

Maintenance & Service

The weighing scale is a precision instrument, it must be treated carefully and cleaned regularly

DANGER

For maintenance-work, the balance must be disconnected from the power supply (remove power adapter plug from socket). Also ensure that the balance cannot be connected to the power supply during the work by a third party.

Make sure that no liquid spills into the scale while performing maintenance work. If liquid is spilled on the scale, it must be inspected by a service technician.

Regularly perform maintenance to the weighing pan and the weighing pan holder by removing any dirt or dust from under the weighing pan and on the weighing scale housing. Use a soft brush or a soft, lint-free cloth, moistened with a mild soap solution

CAUTION

Never use solvents, acids, alkalis, paint thinners, scouring powders or other aggressive or corrosive chemicals for cleaning; these substances can cause damage to the surfaces of the scale housing.

Transport & Storage

Your weighing machine is a precision instrument, treat it carefully. Avoid shaking, severe impacts and vibration during the transportation. Make sure that there are no marked temperature fluctuations during the transportation and that the weighing machine does not become damp (condensation).

If you would like to take the weighing machine out of service for an extended period, disconnect it from the electricity supply, clean it thoroughly (refer to Maintenance & Service) and store it in a place which meets the following conditions:

- No violent shaking, no vibrations
- Minimum temperature fluctuations
- No direct solar radiation
- Minimum moisture

Warranty

The products are under warranty against factory defects for a period of two (2) years from the date of shipment.

For Customers within the lower 48 states of the continental United States. LW Measurements will pay for freight both ways for the first 30 days after purchase. After 30 days expire the customer is responsible for shipping the product back to us. After the product is received we will inspect it and as necessary we will repair or replace and will ship the product back to the customer at our expense.

Any new scales returned for warranty must be properly packaged in the original box. If they are not properly packed an in the original box, the customer pays for shipping cost. If we determine there is a factory defect, we will pay for the shipping back. If we determine that it is not a factory defect, the customer will pay shipping.

For Customers outside the lower 48 States, including Mexico, Canada, Puerto Rico, Hawaii, Alaska and all other countries, customers must pay for shipping.

Our warranty does not cover misuse or neglect including but not limited to battery or water damage, overloading, and chewed or cut wires. If the product is found to have been misused or damaged by the customer, LW measurements is not responsible for the cost of return.

For warranty claims please go online to lwmeasurements.com and fill out the warranty submission form or call your customer service representative.