

LBK SERIES

(P.N. 9596, Revision D, July 2014)



Easy Reference:

Model name of the scale:	
Serial number of the unit:	
Software revision number (Displayed when power is first turned on):	
Date of Purchase:	
Name of the supplier and place:	

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1.0 INTRODUCTION

- The LBK models are supplied with a mains power cord except for LBK-a models which use a DC adapter. All models also have a rechargeable battery fitted.
- Four models: 3kg/6lb X 0.5g/0.001lb
6kg/12lb X 1g/0.002lb
12kg/25lb X 2g/0.005lb
30kg/65lb X 5g/0.01lb
- Large LCD with backlight
- 5 weighing units: g, kg, lb, oz, and lb:oz
- Indicators for Stable, zero, net weight, and low battery functions
- Stainless steel pan with ABS case and pan support
- Sealed Membrane keypad
- Overload Protection
- Spirit level and leveling feet
- Auto calibration, zero tracking and tare

2.0 SPECIFICATIONS

Model	LBK-3/6a	LBK- 6/12a	LBK-12/25a	LBK-30/65a
Capacity	3Kg/6lb	6Kg/12lb	12Kg/25lb	30Kg/65lb
Readability	0.5g/0.001lb	1g/0.002lb	2g/0.005lb	5g/0.01lb
Resolution	1:6000	1:6000	1:6000	1:6000
Repeatability ±	0.5g/0.001lb	1g/0.002lb	2g/0.005lb	5g/0.01lb
Linearity ±	1g/0.002lb	2g/0.004lb	4g/0.01lb	10g/0.02lb
Units	g/ kg / lb / oz / lb:oz			
Stabilization time	2 seconds	2 seconds	2 seconds	2 seconds
Operating temperature	0°C to 40°C 32°F to 104°F			
Humidity	10% ~ 80%			
Power supply	LBK models: AC 220-240 V 50-60 Hz 100mA and 6V 4Ah rechargeable battery LBK-a models: 12VDC 800mA adapter and 6V 4Ah rechargeable battery			
Calibration	External calibration			
Calibration Weights	1Kg/2Kg/3Kg or 2lb/4lb/6lb	2Kg/4Kg/6Kg or 4lb/8lb/12lb	4kg/8kg/12kg or 10lb/20lb/25lb	10kg/20kg/30kg or 20lb/40lb/60lb
Display	6digit LCD display, green backlight			
Net wt.	1.8kg/4lb			


LBK-a models are supplied to North and South American markets only and are available from Adam Equipment USA office.

3.0 SAFETY PRECAUTIONS

Caution:

Please use only the original power cord or DC adapter supplied with the scale. Other cords or adapters may damage the scale.

Notice:

- Avoid extremes of temperature. Do not place in direct sunlight or near air conditioning vents.
- Battery should be removed if the scale is not used for a long period of time.
- When you turn off the scale by pressing [ON/OFF] key, the power is not completely isolated. You should disconnect the power supply if it is not going to be used for an extended period.
- Before operating parts marked with a  symbol please read the instruction manual and operate with caution to avoid hazard.
- Do not stack material on the scale when it is not in use.
- Avoid high humidity that might cause condensation, and keep away from direct contact with water.
- Static may influence the weighing result. To reduce the static wipe the pan and the scale with anti-static wipes.

4.0 SET UP


4.1 ASSEMBLING OF SCALE

- Put the scale on a stable and even table.
- Adjust the height of the feet to level the scale; the spirit level bubble should be in the center of the spirit level.
- Put the pan support in place, inserting the pan support pins into the holes on top of the scale. Place the stainless steel pan on the support.

- Don't press the scale with great force or the load cell could be damaged.

4.2 ASSEMBLING OF BATTERY AND POWER

In some cases the rechargeable battery must be shipped separate from the scale. In this case the user must install the battery.

 Remove the battery cover under the scale and put the 6v 4Ah rechargeable battery provided in to the battery compartment. Connect the battery to the cable paying attention to the polarity. The red connector goes to the (+) positive terminal on the battery, the black connector goes to the (-) negative terminal on the battery.

The power cord or DC adapter provided with the scale is used to charge the battery. Make certain the power cord/DC adapter matches the voltage of the location you are using the scale in.

Internal rechargeable batteries (where used) can be changed, but please first ask for technical support from your dealer or the manufacturer. Replacement batteries should be type BT-6M4.0AC(6V4AH) or equivalent.

Please dispose of and recycle used batteries carefully and according to local laws and regulations.

5.0 WEIGHING

5.1 BEFORE WEIGHING

Check the setting of the auto shut off function, see section 6.2. If the auto shut off function is on, the scale will shut off after a period of time if the scale is not used and it has a stable reading.

5.2 WEIGHING

- **Press [On/Off] to turn on the scale.** The display will show "LBK-1.0 LBK" and show the current voltage "X.X vol". Then it will begin its self checking test from 0 to 9. When the reading is stable, the display will show "0.00", stable symbol, zero symbol, and the weighing unit used the last time the scale was used.
- **Press [Unit] to select units,** "g" / "Kg" / "lb" / "oz" / "Lb.z".
- Check if the reading is "0.00", if not, press **[Zero]**. "0.00" and the zero symbol will be displayed.
- Put the item to be weighed on the pan. When the reading is stable, the net weight will be shown.
- If a container is used, put the container on the pan and press **[Tare]** key when the reading is stable. The display will show "0.00" and the zero symbol and net weight symbol.

5.3 POUND/OUNCE MODE:

When using the pounds/ounces weighing unit the display will show the results rounded to the nearest ounce.

Model	Weight	Display	Readability specification
LBK 3/6a	5Lb15.98oz	5 15.98	Readability 0.02oz max capacity 6Lb
LBK6/12a	11Lb15.9oz	11 15.9	Readability 0.1oz max capacity 12Lb
LBK12/25a	24Lb15.9oz	24 15.9	Readability 0.1oz max capacity 25Lb
LBK30/65a	64Lb15.8oz	64 15.8	Readability 0.2oz max capacity 65Lb

5.4 USER FUNCTIONS

The parts counting, percent weighing and calibration functions can be accessed using the **[Func]** key, if the functions have been enabled as described in section 6.

If the function is turned off the function will not be available. Only functions that have been turned on can be accessed.

5.4.1 PARTS COUNTING FUNCTION

- In normal weighing mode, press **[Func]** key to move to parts counting mode.
- The display will show "PC—10pcs", press **[Tare]** key to go through the preset sample piece values of 10, 25, 50 or 100 pieces. For example if you selected PC-25pcs, hand count out 25 pieces and put them on the scale.
- Press **[Zero]** key once the stability indicator comes on to confirm the entered value. The display will show the number of pieces placed on the pan.
- If more items are put on the pan, the increased count value will be shown.

- If a container is used, place the empty container on the pan before entering parts counting mode then press **[Tare]** key to remove the weight of the empty container. Then press **[Func]** key to go to parts counting mode and select the preset sample piece value and add the items to the container as selected and press **[Zero]** key.
- Press **[Func]** to exit and go back to the normal weighing mode.

5.4.2 PERCENTAGE WEIGHING

- In the weighing mode, press **[Func]** key twice to access the percentage weighing mode, the display will show "PER".
- Press **[Zero]** key to set the reference sample value, the display will show "SEt".
- Place the item to be set at 100% on the pan, and press **[Zero]** Key when the stability indicator comes on.
- The display will show "100.0%".
- When another item with a different weight value is put on the pan, the relative % value would be shown against the initial reference sample value.
- Press **[Func]** key to exit and go back to weighing mode.

5.4.3 CALIBRATION

- Refer to section 7 for details

6.0 FUNCTION SETTING

6.1 ENTERING THE FUNCTION SETTING MODE

- Press [**On/Off**] to shut off the power.
- Hold [**Tare**] and press [**On/Off**] to turn the scale on.
- The display will show "LBK-1.0 LBK" and then enter the auto shut off mode.
- The display will show "OFF PWR" or "XX PWR" (XX is the number of minutes before the scale would shut off automatically if it has remained stable for the set amount of time).
- Release the [**Tare**] key.

6.2 SETTING OF AUTO SHUT OFF FUNCTION

- Press [**Tare**] to change the setting of the function.
- "OFF PWR" means that the function is disabled.
- "XX PWR" means that the auto off function is on. XX is the time before the scale will shut off automatically. The number is in minutes.
- To continue to other function settings, press [**Unit**] to confirm the current setting and show the next mode.
- The display will then show "OFF bL", "On bL", or "AuTo bL" these are the backlight function settings.

6.3 BACKLIGHT SETTING MODE

- Press the [**Tare**] key to change the state of backlight.
- "OFF BL": the backlight is off all the time.
- "AuTo bL": auto backlight, backlight will come on if the display moves off of zero.
- "On bL": backlight will be on all the time.
- Press [**Unit**] to confirm and move to the next setting.
- When you enter the unit setting mode, it will show "On PEr" or "OFF PEr".

6.4 PARTS COUNTING FUNCTION

- Press [**Tare**] to switch on or off the part counting function.
- "OFF PCS" : part counting function is off.
- "ON PCS" : part counting function is on.
- Press [**Unit**] key to confirm the setting and look through the next setting. It would enter the percentage weighing when it shows "On PEr " or "OFF PEr".

6.5 PERCENTAGE WEIGHING FUNCTION

- Press [**Tare**] key to switch on or off this function.
- "OFF PEr " : the percentage function is off.
- "ON PEr": the percentage function if on.
- Press [**Unit**] key to confirm the setting and look through the next setting. It enters user's simple cal function when it displays "On CAL" or "OFF CAL".

6.6 USER CALIBRATION FUNCTION

- Press [**Tare**] key to switch on or off the function.
- "OFF CAL" : the function is off.
- "ON CAL" : the function is on, when the user cal function is off in weighing mode, press [**Func**] key to overlap this function and move to the next setting.
- Press [**Unit**] key to confirm the setting and enter the next setting. It enters unit setting when it shows "On g " or "OFF g".

6.7 SELECTION OF WEIGHING UNITS

Each weighing unit can be set to be either on or off. If it is on it is available when the user presses the **[Unit]** key during normal weighing. If it is off the weighing unit is not available during normal use. The grams unit is always on.

- Press **[Tare]** key to change the unit from on to off.
- On: the unit is activated.
- Off: the unit is disabled.
- All the units will be in the following sequence: "Kg" / "lb" / "oz"/"Lb.Z".
- Press **[Unit]** key to confirm and move to the next unit. After the last weighing unit is set the display will go back to the first function, Auto Off.

To leave the Function Settings section, turn the scale off and on again to enter the normal weighing mode and save the changes make.

7.0 CALIBRATION

- Calibration is recommended for best accuracy. It is suggested that the scale be calibrated when first installed and any time the scale is moved to a different environment.
- To ensure best accuracy calibrate before use.
- Ensure weights are ready before calibrating, the weight should be of a known accuracy, for example OIML class M1 or Class 4 of ASTM E617.
- Do not calibrate the scale if no calibration weight is available.
- Calibration can only be accessed if the Calibration function has been enabled as described in section 6.0.

7.1 AUTOMATIC EXTERNAL CALIBRATION


- In the weighing mode, press **[Func]** key to access calibration mode. The display will show "CAL".
- Press **[Zero]** key, an access code (Pin code) is required to continue, The display will show "Pin" .
- To enter the access code press the **[Func]** key, **[Unit]** key and **[Tare]** key in sequence, then press the **[Zero]** key to confirm the pin code.
- The display will show the weighing unit last used to calibrate the scale, "S-Unit kg"(or "S-Unit Lb") ,press **[Unit]** key to change to lb's or kg's for the calibration weighing unit value.
- Press **[Zero]** key to start the zero calibration. The display will show "CAL 0" and when the stable symbol is displayed press **[Zero]** key to confirm.
- The display will now show the calibration mass expected. "CAL XX Kg " or "CAL XX Lb " .Press **[Tare]** key to change the calibration values if necessary. Each model has 3 different kg and lb calibration selection values.

Calibration selection values for all model:

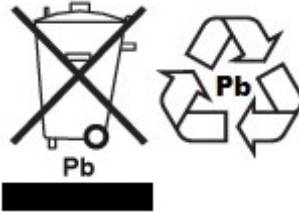
LBK 3/6a	LBK 6/12a	LBK 12/25a	LBK 30/65a
1Kg/2kg/3kg	2Kg/4kg/6kg	4Kg/8kg/12kg	10Kg/20kg/30kg
2lb/4lb/6lb	4lb/8lb/12lb	10lb/20lb/25lb	20lb/40lb/60lb

- Press **[Zero]** key, the display will show "Load" then add the selected calibration mass value to the pan.
- After the calibration mass is added, wait for the stable symbol to come on and then press **[Zero]** key, the display will show "PASS", and then return to normal weighing after 3 seconds.
- If it is outside of the previous calibration value by more than 5% ,it will show "FAIL L" or "FAIL H" indicating the new calibration weight was too low(FAIL L) or too high (FAIL H) in respect to the previous calibration value.

8.0 ERROR MESSAGE

---ADO	A/D counts are too high
---ADL	A/D counts are too low
--ERR-	Wrong operation
Unit-E	All the units are disabled
	Low battery indication

WEEE 2012/19/EU



This device may not be disposed of in domestic waste. This also applies to countries outside the EU, per their specific requirements. Disposal of batteries (if fitted) must conform to local laws and restrictions.

Cet appareil ne peut être éliminé avec les déchets ménagers. L'élimination de la batterie doit être effectuée conformément aux lois et restrictions locales.

Dieses Gerät nicht mit dem Hausmüll entsorgt.

Dispositivo no puede ser desechado junto con los residuos domésticos

Dispositivo non può essere smaltito nei rifiuti domestici.

FCC / IC CLASS A DIGITAL DEVICE EMC VERIFICATION STATEMENT

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules and Canadian ICES-003/NMB-003 regulation. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CALIFORNIA PROPOSITION 65 - MANDATORY STATEMENT

WARNING: This product includes a sealed lead-acid battery which contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.



Adam Equipment products have been tested with, and are always supplied with mains power adaptors which meet all legal requirements for the intended country or region of operation, including electrical safety, interference and energy efficiency. As we often update adaptor products to meet changing legislation it is not possible to refer to the exact model in this manual. Please contact us if you need specifications or safety information for your particular item. Do not attempt to connect or use an adaptor not supplied by us.

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Adam products are predominantly designed for the Laboratory, Educational, Health and Fitness, Retail and Industrial Segments. The product range can be described as follows:

- Analytical and Precision Laboratory Balances
- Compact and Portable Balances
- High Capacity Balances
- Moisture analysers / balances
- Mechanical Scales
- Counting Scales
- Digital Weighing/Check-weighing Scales
- High performance Platform Scales
- Crane scales
- Mechanical and Digital Electronic Health and Fitness Scales
- Retail Scales for Price computing

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