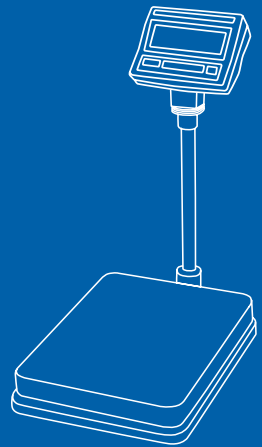


DB-II (LCD Ver.)

Bench Scale



www.globalcas.com

OWNER'S MANUAL

CAS

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PRECAUTIONS

Warning

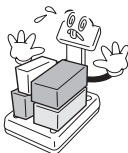
Precautions when installing the scale. To ensure that you get the most from your scale, please follow these instruction.

Do not disassemble the scale.

When any damage or defect occurs, contact your CAS authorized dealer immediately for proper repair.

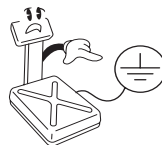


Do not overload beyond the maximum weight limit.



Scale must be grounded to minimize electricity static.

This will minimize defect or electric shock.

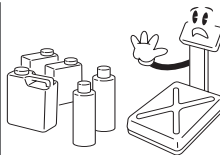


Do not pull the plug by its cord when unplugging.

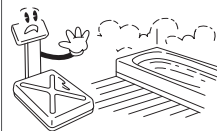
Damaged cord could cause electric shock or fire.



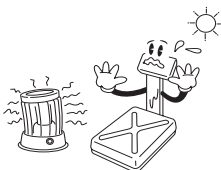
To prevent from fire occurring. Do not place or use the scale near flammable or corrosive gas.



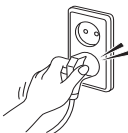
To reduce electric shock or incorrect reading. Do not spill water on the scale or place it in humid condition.



Avoid placing the scale near heater or in direct sunlight.

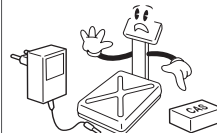


Insert plug firmly to wall outlet to prevent electric shock.

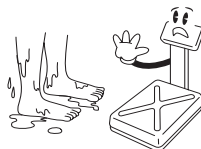


Use proper Adapter.

Incorrect adapter could damage the scale.



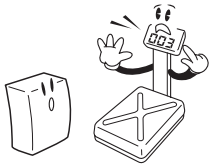
Do not step up on the scale with wet feet. Platter becomes slippery. Humid condition may cause incorrect reading.



Attention

Make sure to plug your scale into the proper power outlet. For maximum performance, plug into a power outlet 30 minutes before the usage for warm up.

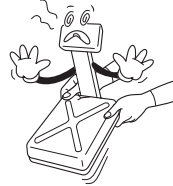
For consistent and accurate reading, maintain periodical check by your CAS authorized dealer.



Avoid sudden shock to the scale.

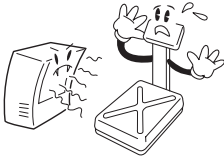


Grab on the bottom of the scale when moving.



Keep the scale away from other electromagnetic generating devices.

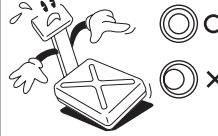
This may interfere with accurate reading.



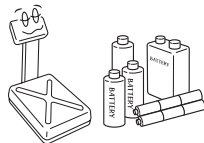
Place the scale on firm and temperature consistent environment.



By adjusting 4 corners of the scale, set the scale even using the built in scale leveling indicator.



Take the battery out when scale is not in use for long time. Leakage from the batteries is hazardous.



PREFACE

Thank you for the purchasing of CAS DB-II series.

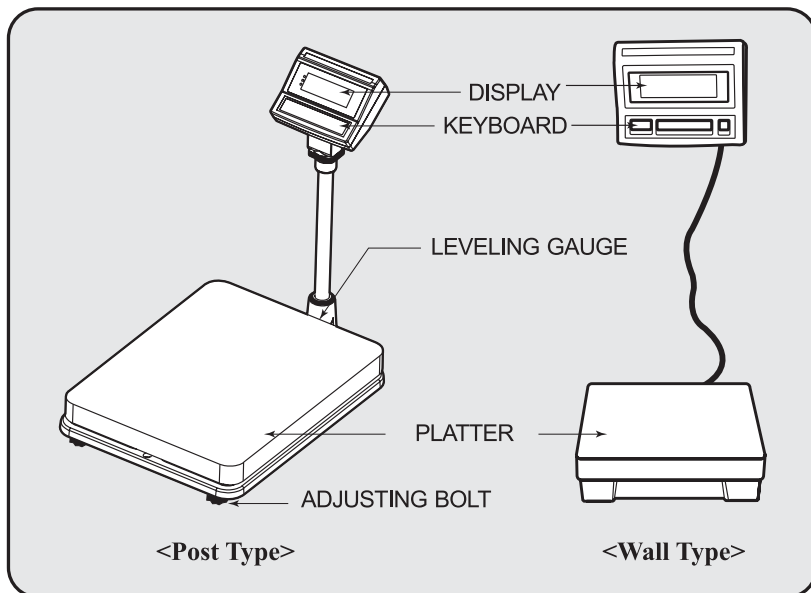
This series have been designed with CAS reliability, under rigid quality control and with outstanding performance. Your specialty departments can enjoy with CAS products.

We hope that CAS product meets your needs.

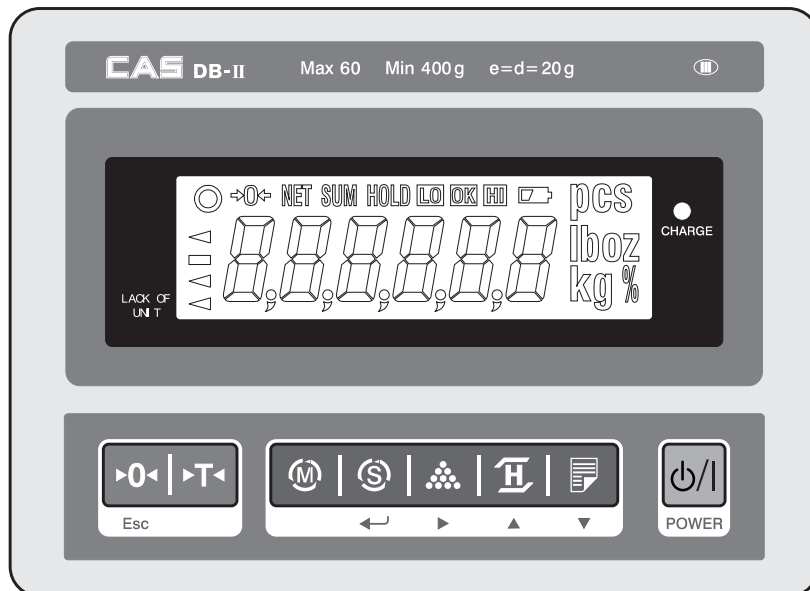
The user manual is designed to guide you to understand product operation and proper care of product.

NAMES AND FUNCTIONS

OVERALL VIEW



DISPLAY AND KEYBOARD



■ KEY FUNCTIONS

KEYS	DESCRIPTIONS
	Used to set the zero point to 0.00. Used as an ESC key in Setup Mode.
	Used to enter a tare weight and used to cancel a tare weight.
	Used to convert the mode as below. [WEIGHING] → [pcs] → [%] → [WEIGHT LIMIT ON/OFF] → [COUNT LIMIT ON/OFF] → [UNIT CONVERSION] → [WEIGHING]
	Used as an ENTER key.
	Used to calculate a unit weight of a sample. [] Used to enter next digit.
	Used to display average weight. [▲] Used to have number up.

KEY	DESCRIPTIONS
	PRINT key. [▼] Used to have number down.
 POWER	Used to turn ON or OFF the power.

OPERATIONS

1. General Weighing

- The display indicates if the scale is at zero or if there is a tare entered into the scale by way of a ZERO and NET.



Turn on the power.
The display shows 0.00.
Make sure that STABLE and
ZERO lamps are on.



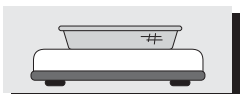
When the display is not zero
though there is nothing on
the platter, press the ZERO
key.



Place an item on the platter.
When the STABLE lamp is
on, read the weight.

2. Weighing with Tare

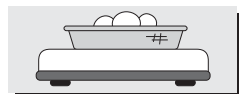
- Tare is the weight of container being used for a commodity.
The TARE key subtracts the weight of the container.



Place the container on the
platter.



Press the TARE key, NET
lamp is on.



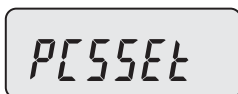
Place an item in the
container.



To release the TARE function, remove an item and container from the platter and press the TARE key.

3. Counting Mode

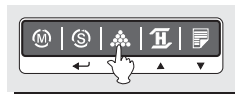
- If you want to count parts, first you have to set sample size.



OR



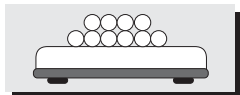
Press the MODE key until the display shows "PCSSET". Make sure that PCS lamp is on. If you have set sample size before, the display shows "0".



Press the SAMPLE key, then the display shows "10".



If you want to increase sample size, press the SAMPLE key. The display shows 10, 20, 30, 40, 50, 100, 150 and 200 every time pressing the SAMPLE key.



If you set sample size to 10, place 10 samples on the platter.

If the display shows "LACK", the counting result may not correct. (LCD version : Lack of Unit lamp is On) If the display shows "LOW", it is impossible to count samples because the unit weight is too small. (Refer to Table 1)

Model	DB-I16kg	DB-I15kg	DB-I30kg	DB-I60kg	DB-I150kg	DB-I300kg
Range of Lack (Single)	2g $\geq$ Lack $\geq$ 0.1g	5g $\geq$ Lack $\geq$ 0.1g	10g $\geq$ Lack $\geq$ 0.1g	20g $\geq$ Lack $\geq$ 1g	50g $\geq$ Lack $\geq$ 1g	100g $\geq$ Lack $\geq$ 1g
Range of Lack (Dual)	1g $\geq$ Lack $\geq$ 0.1g	2g $\geq$ Lack $\geq$ 0.1g	5g $\geq$ Lack $\geq$ 0.1g	10g $\geq$ Lack $\geq$ 1g	20g $\geq$ Lack $\geq$ 1g	50g $\geq$ Lack $\geq$ 1g
Range of Low	0.1g $\geq$ Low	0.1g $\geq$ Low	0.1g $\geq$ Low	1g $\geq$ Low	1g $\geq$ Low	1g $\geq$ Low

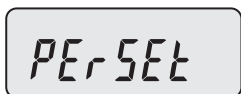
< Table 1 >



Place parts on the platter, then the display shows the number of parts. You can also use tare function in counting mode.

4. Percent Weighing Mode

- The weight is displayed as a percentage of the reference.



OR



Press the MODE key until the display shows "PERSET". If you have set reference sample before, the display shows "0.0".



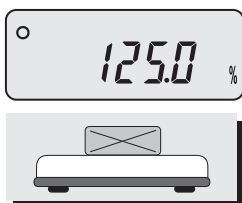
If you want to use container, place it and press the TARE key.



Place reference sample on the platter and press the SAMPLE key.

The display shows "100.0".

Make sure that reference sample should be bigger than 3% of maximum capacity. If it is lower than 3% of maximum capacity, the display shows "low". In this case, increase the weight of reference sample and press the SAMPLE key.



Place an item on the platter, then the weight is displayed as a percentage of the reference.

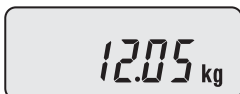
5. Hold Function(Weight Mode ONLY)

■ Key hold

Place an item on the platter and then press the HOLD key.



"HOLD" is shown on the display.



Average weight is shown on the display.

■ After average weight display 3 times, HOLD function will be release automatically.

■ Auto Hold function



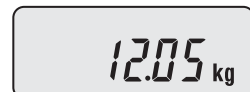
After weighing item remove all of the container from the platter, press Hold key.



Use "TARE" key to select one of Auto Hold function.



Press "Hold" key to save and exit to normal mode.



Place an item on the platter. Then weight display will show "Hold". The "Hold" blinks for two times, and then the average weight blinks continuously.

After remove the item of the platter, place another item on the platter. Then display will show average weight again.

If you don't want use auto-hold function, remove the item and press hold key. Display shows AH_on. Press tare key. It will be changed AH_off.

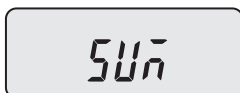
Then press Hold key. Auto-hold function will not operate.

6. Cumulative Weight Sum

The function of cumulative weight sum is to be showing the aggregate times and weight as adding the value of weighing a several times. Even though power is off, the scale stores data. This function is only available in weighing mode.



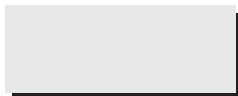
Place an item on the platter.



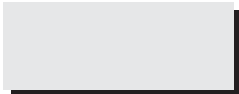
To add this weight, press the SAMPLE key. Make sure that SUM lamp is on.



The display shows cumulative weight sum and aggregate times every time pressing the SET key. The SUM key is flashed.



To cancel last added weight, press the SET key to display cumulative weight sum or aggregate times and then press the SAMPLE key. The display shows "S SUB".

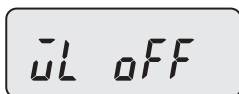


You can delete cumulative weight sum or aggregate times. Press the SET key to display cumulative weight sum or aggregate times and then press the ZERO(ESC key).

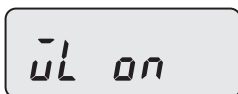
To print out cumulative weight sum, press the SET key to display cumulative weight sum or aggregate times and then press the PRINT key. (DEP only)

7. Weight Comparison Function(HI/OK/LOW)

7-1. How to compare weight



Press the MODE key until the display shows "WL OFF". It means that weight limit function is deactivated.



Press the HOLD key to activate this function, the display shows "WL ON".



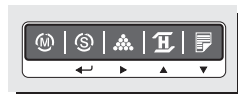
Press the SET key to set up low value, the display shows "L000.00".



Press the HOLD(▲) or PRINT(▼) key to have number up or down. To enter next digit, press the SAMPLE key.



Press the SET key to set up high value, the display shows "H000.00".



Press the HOLD(▲) or PRINT(▼) key to have number up or down. To enter next digit, press the SAMPLE () key.



Press the SET key, the display shows "WL ON".

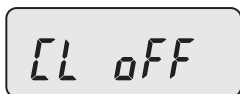
If you set up LOW/HIGH limit wrong, "WL ERR" will be shown on the display. Then you have to set it up again. For example) LOW=100.00kg HIGH=90.00kg → High limit is lower than Low limit.

Press the MODE key to go to weighing mode.

Suppose that the High limit of 70kg and the Low limit of 30kg are set up. In this condition, **OK** lamp is lighted on if the weight is 40kg, **HI** lamp is lighted on if the weight is 80kg and if the weight is 20kg, **LO** lamp is lighted on. It beeps as fixed on User Setup Mode.
(Refer to Setup Mode Table on page 17)



7-2. Counting comparison function



Press the MODE key until the display shows "CL OFF". It means the counting comparison function is deactivated.



Press the HOLD(▲) key to activate this function, the display shows "CL ON".



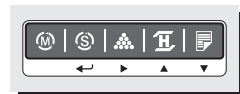
Press the SET key, the display shows "L00000".



Press the HOLD(▲) or PRINT(▼) key to have number up or down. To enter next digit, press the SAMPLE() key.



Press the SET key, the display shows "H00000".



Press the HOLD(▲) or PRINT(▼) key to have number up or down. To enter next digit, press the SAMPLE() key.

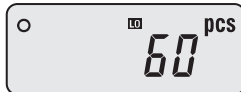


Press the SET key, the display shows "CL ON".

If you set up LOW/HIGH limit wrong, "CL Err" will be shown on the display. Then you have to set it up again. For example) LOW=00100, HIGH=00090 or LOW=00100, HIGH=00100

Press the MODE key to go to weighing mode.

Suppose that the High limit of 200 and the Low limit of 80 are set up. In this condition, **OK** lamp is lighted on if the weight is 120, **H** lamp is lighted on if the weight is 220 and if the weight is 60, **LO** lamp is lighted on. It beeps as fixed on User Setup Mode.
(Refer to Setup Mode Table on page 17)



8. Print Out

8-1. Manual Print

- You can print out data every time pressing the PRINT key. You can setup print function depends on your need. Refer to Setup Mode Table on page 20.

Sample format(DEP-50):

-Weighing Function-

```
===== WEIGHT =====
WELCOME TO CAS
DATE . 07/30/2007
TIME. 17:35:58
```

Weight : 0.000 kg

```
- WEIGHT LIMIT SET VALUE -
Limit(H): 40.000 kg
Limit(L): 30.000 kg
```

When 'the weight comparison function' is set.

-Counting Function-

```
===== COUNT =====
WELCOME TO CAS
DATE. 07/30/2007
TIME. 17:35:58
```

Weight : 40.200 kg
Quantity : 50 pcs

```
- COUNT LIMIT SET VALUE -
Limit(H): 2000 pcs
Limit(L): 1000 pcs
```

When 'the counting comparison function' is set.

-Cumulative Weight Sum Function- (DEP only)

```
===== WEIGHT =====
WELCOME TO CAS[DB-2]
DATE . 07/30/2007
TIME. 17:35:58
```

Weight : 40.180 kg
Weight : 40.200 kg
Weight : 40.200 kg
Weight : 40.200 kg
Weight : 40.200 kg
Weight : 40.200 kg
Weight : 40.200 kg
Weight : 40.200 kg
Weight : 40.200 kg
Weight : 40.200 kg
Weight : 40.200 kg
Weight : 40.200 kg
Weight : 40.200 kg

```
-----
Total : 401.980 kg
Count : 10 times
```

→Label Caption
→Date
→Time

→ - means that you cancel the weight right before this weight.

→Cumulative weight sum
→Aggregate times

Please take a reference of page 12(cumulative weight sum) for printing process details.

Sample format(DEP-50):

Notice, 4 kinds of Print forms should downloaded to the DLP Printer to use all the features and Function smoothly

1. Weight + tare

```

=====
DBII
=====
Date:2008-09-24 16:08:08
Net: 1234567 kg
Tare : 1234567 kg
Gross : 1234567 kg
  
```

In order to use the above label format, Barcode set as OFF and weight comparison function as OFF in SETUP MODE

2. Weight + Tare + Barcode

```

=====
DBII
=====
Date:2008-09-24 16:09:19
Net: 1234567 kg
Tare :1234567 kg
Gross :1234567 kg 01000001234565
  
```

In order to use the above label format, Barcode set as ON and weight comparison function as OFF in SETUP MODE

3. counting function

```

-Counting Function-
===== COUNT =====
2008-09-24 15:25:51
Weight: 0.546 kg
Quantity: 20 pcs
- COUNT LIMIT SET VALUE -
Limit(H): 0.200 pcs
Limit(L): 0.100 pcs
  
```

Quantity Comparison Functions should set as ON

4. Weight comparison function

```

-Weighing Function-
===== WEIGHT =====
2008-09-24 15:24:38
Weight: 1234567 kg
- WEIGHT LIMIT SET VALUE -
Limit(H): 1234567 kg
Limit(L): 1234567 kg
  
```

Weight comparison functions should set as ON

When using DLP printer, it could not print in the percentage mode

8-2. Auto Print

To use auto print function, you have to set printer menu to "Pr AUt" in setup mode. Refer to Setup Mode Table on page 20.

If the weight is stable, it is printed out automatically.
And You can print out data every time pressing the PRINT key.

8-3. Stream Print

To use auto print function, you have to set printer menu to "Pr Str" in setup mode. Refer to Setup Mode Table on page 20.

If the weight is stable, it is printed out continuously

9. Battery Charge

■ Warning message is shown when the battery voltage is very low. ()

■ At this time, charge the battery. (a charging battery only)

■ The display will show a red lamp and the battery will begin a fast charge automatically.

- Use only the ac adapter which comes with the scale. Other AC adapter may cause damage.

10. Unit conversion (kg, lb, oz)



Press the MODE key until the display shows "U kg" or your last unit.



Use "HOLD key" or "PRINT key" you can set which unit you want to use. kg, lb, oz.



Press "SET key" and "CHAnGE" will display.

Press the "MODE" key to go to the weighing mode.

Tare, Unstable, when the display weight is not 0 when change is not working.
Leave the platter empty, and weighing is at Zero and stable, the scale should work.

SETUP MODE

1. How to Go to Setup Mode

Make sure that power is OFF. While pressing the PRINT key, press the POWER key. The display shows “U Set”. You can select each menu by pressing the MODE key and change the setting by pressing the HOLD or PRINT key. If you press SET key, you will save current setting and finish this mode. To finish this mode without saving, press the ZERO key.

2. Set up Mode Table

MENU	DISPLAY	DESCRIPTIONS
Buzzer	“ b on ”	You can hear buzzer.
	“ b oFF ”	You cannot hear buzzer.
Printer	“Pr oFF”	Do not use printer.
	“Pr DLP”	DLP50 printer interface. (Label)
	“Pr DEP”	DEP50 printer interface. (Ticket)
Print method	“Pr key”	Manual print. (DLP, DEP)
	“Pr AU”	Auto print when the scale is stable. (DLP, DEP)
	“Pr Str”	Print continually when the scale is stable. (DEP)
Linefeed (DEPonly)	LF1~LF9	Linefeed
Barcode (DLP only)	“BC on/off”	Print out barcode on/off.
Baud Rate	“br 48”	4,800 bps
	“ br 96 ”	9,600 bps
	“ br 192 ”	19,200 bps
	“ br 384 ”	38,400 bps
Backlight	“ bL on ”	Use back-light.
	“ bL 10 ”	Back-light is on 10 seconds.
	“ bL 30 ”	Back-light is on 30 seconds.
	“ bL oFF ”	Do not use back-light.
Brightness	“ 1 ~7 ”	You can set backlight brightness. (Default : 3)
Auto Power Off	“ AP oFF ”	Do not use Auto Power Off function.
	“ AP 10 ”	Power turns to be off automatically when the scale is not in operation over for 10 minutes.
	“ AP 30 ”	Power turns to be off automatically when the scale is not in operation over for 30 minutes.
	“ AP 60 ”	Power turns to be off automatically when the scale is not in operation over for 60 minutes.

Weight Limit	" WL M0 "	HIGH Limit $\geq$ Weight $\geq$ LOW Limit - You will hear buzzer.
	" WL M1 "	HIGH Limit $\leq$ Weight, Weight $\leq$ LOW Limit - You will hear buzzer.
	" WL M2 "	Weight $\leq$ LOW Limit - You will hear buzzer.
	" WL M3 "	HIGH Limit $\leq$ Weight - You will hear buzzer.
Count Limit	" CL M0 "	HIGH Limit $\geq$ Counting result $\geq$ LOW Limit - You will hear buzzer.
	" CL M1 "	HIGH Limit $\leq$ Counting result, Counting result $\leq$ LOW Limit - You will hear buzzer.
	" CL M2 "	Counting result $\leq$ LOW Limit - You will hear buzzer.
	" CL M3 "	HIGH Limit $\leq$ Counting result - You will hear buzzer.
Date	" dy on "	Print out date/day.
	" dy oFF "	Do not print out date/day.
Time	" ti on "	Print out time.
	" ti oFF "	Do not print out time.
Label	" LA off "	Do not print out label caption.
	" LA on "	Print out label caption.
Default	" dF no "	Default setting is released.
	" dF YES "	Everything is setup in default.

Italic Bold : Default Setting

Select the DEP printer in the Set up mode, LINE Feed Features are enable to use and if DLP printer is selected then Barcode features are enable to use. However, both Line Feed and Barcode features could not use at the same time.

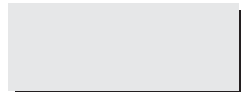
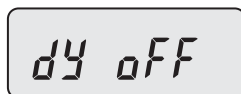
3. How to Enter Date



Press the MODE key until the display shows "dy ON". It means that date is printed out.



If you do not want to print out date, press the HOLD(▲) key.



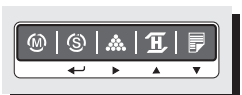
Press the SAMPLE() key, the display shows "00,00,00".



Press the HOLD(▲) or PRINT(▼) key to have number up or down. To enter next digit, press the SAMPLE() key.



Press the SET key to save. "dysave" is shown on the display and then the display shows a day of the week. If you set up a day of the week wrong, "dy err" is shown on the display



You can change the day by pressing the HOLD(▲) or PRINT(▼) key. If you set up a day of the week wrong, "Wk err" is shown on the display.



Press the SET key to save. "Wksave" is shown on the display.

If you do not want to save, press the ZERO key.

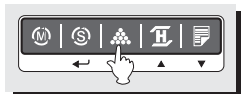
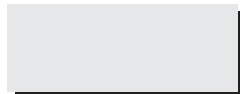
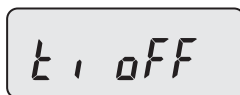
4. How to Enter Time



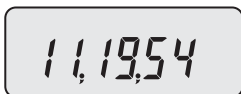
Press the MODE key until the display shows "t 1 ON". It means that time is printed out.



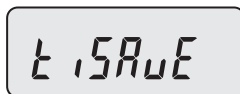
If you do not want to print out time, press the HOLD(▲) key.



Press the SAMPLE() key to set up time, "00,00,00" is shown on the display.



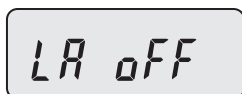
Press the HOLD(▲) or PRINT(▼) key to have number up or down. To enter next digit, press the SAMPLE() key.



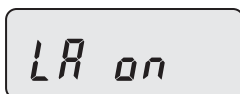
Press the SET key to save. "t 1save" is shown on the display.

If you do not want to save time, press the ZERO key.

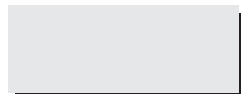
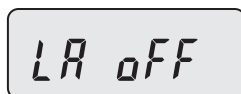
5. How to Enter Label Caption (Maximum 24characters)



Press the MODE key until the display shows "LA off". It means that label caption is not printed out.



To print out label caption, press the HOLD (▲) key. The display shows "LA on".

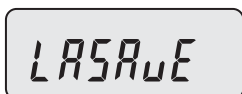


Press the SAMPLE (S) key, "WELCOM TO CAS" is shown on the display in default.



You can program label caption by pressing HOLD (▲) or PRINT (▼) key. To enter next digit or previous digit, press the MODE or SAMPLE (S) key.

You can enter alphabet or special character by pressing the TARE key. When you enter special character, STABLE lamp is on. When you enter alphabet, STABLE lamp is off.



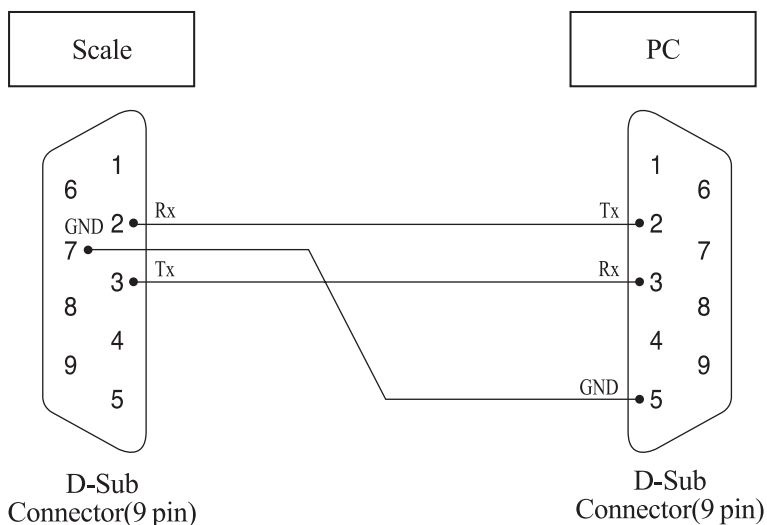
Press the SET key to save. "LA save" is shown on the display.

If you do not want to save, press the ZERO key.

ERROR MESSAGES

Error Message on Display	Description	Solution
"Err 0"	The "Err 0" occurs when scale is not stable.	Remove unstable facts.
"Err 1"	The "Err 1" occurs when a current zero point has shifted from the last span calibration.	Please call your CAS dealer.
"Err 3"	The "Err 3" is an overload error.	Please remove the weight.
"Err 9"	The "Err 9" is no weight error. When scale is in counting mode, you must load the weight. If you have no weight on your scale, you can see this error message.	Please load the weight on your tray.
"Err 14"	The "Err 14" means calibration range is not correct.	Please call your CAS dealer.

SERIAL INTERFACE

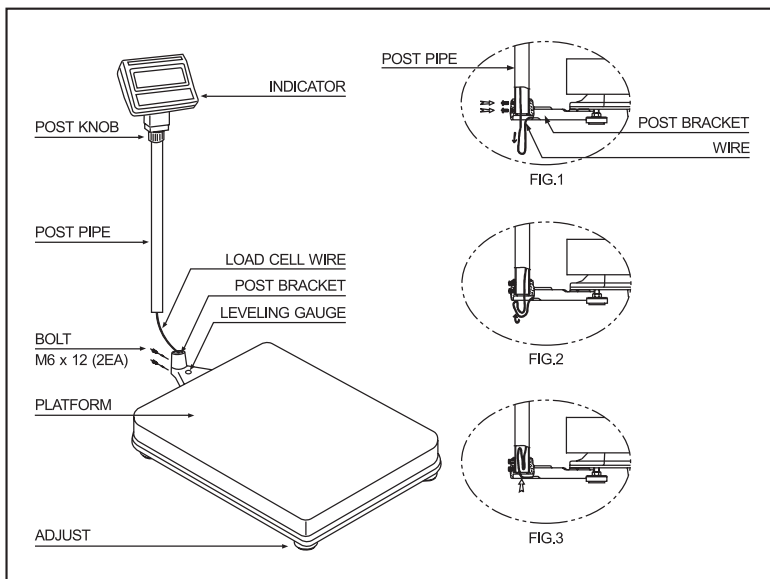


SPECIFICATIONS

MODEL	DBII -6	DBII -15	DBII -30	DBII -60	DBII -150	DBII -300
CAPACITY	3kg/0.001kg 6kg/0.002kg	6kg/0.002kg 15kg/0.005kg	15kg/0.005kg 30kg/0.01kg	30kg/0.01kg 60kg/0.02kg	60kg/0.02kg 150kg/0.05kg	150kg/0.05kg 300kg/0.1kg
	6lb/0.002lb 15lb/0.005lb	15lb/0.005lb 30lb/0.01lb	30lb/0.01lb 60lb/0.02lb	60lb/0.02lb 150lb/0.05lb	150lb/0.05lb 300lb/0.1lb	300lb/0.1lb 600lb/0.2lb
	3,000g/1g 6,000g/2g	6000g/2g 15,000g/5g	15,000g/5g 30,000g/10g	30,000g/10g 60,000g/20g	Not use	Not use
MAX TARE	-2.999kg	-5.998kg	-14.995kg	-29.99 kg	-59.98 kg	-149.95 kg
	-5.998lb	-14.995lb	-29.99lb	-59.98lb	-149.5lb	-299.9lb
	-2.999g	-5.998g	-14.995g	-29.990 g	Not use	Not use
INTERNAL RESOLUTION	1/60,000	1/60,000	1/60,000	1/60,000	1/60,000	1/60,000
EXTERNAL ESOLUTION	DUAL 1/3,000					
DISPLAY	LCD 6 digits					
DISPLAY LAMP	STABLE, ZERO, HOLD, NET, HI/OK/LO, lb, oz %, PCS, SUM, kg, Low Battery					
INTERFACE	RS-232C, DEP50, DLP50					
POWER SOURCE	DC 12V 1.25A Adaptor 6V 3.3AH Pb Battery					
TEMPERATURE RANGE	-10°C ~ +40°C					
PLATTER SIZE (W D)mm	280 x 280			420 x 510		600 x 500
PRODUCT SIZE (W D H)mm	280 x 370 x 560			420 x 635 x 765		500 x 725 x 765
PRODUCT WEIGHT	5.8kg			14kg		23.4kg
BATTERY LIFE	When Battery is charged for 12 hours					
	Approximately 140 hours(Back light off)					
MINIMUM VOLTAGE LEVEL OF THE BATTERY	About 5.6V					

Notice: Specifications are subject to change for improvement without notice.

HOW TO INSTALL DB-II Series

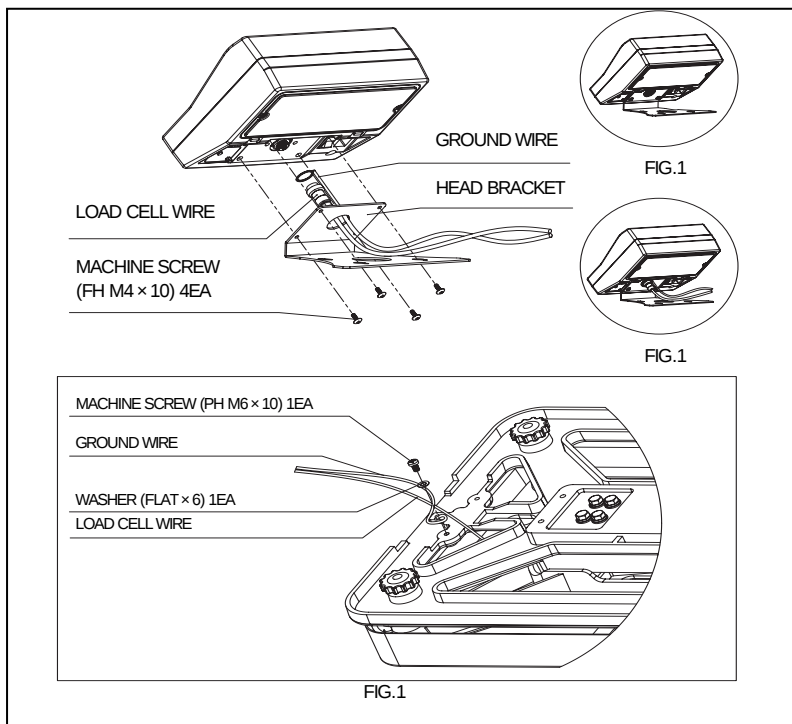


MODEL : DB-II Series

1. Open the box with care because indicator is connected to the scale with load cell wire.
2. Turn the post knob so as to fix indicator.
3. Pull down the wire out of post pipe and insert the post pipe to the post bracket. (Refer to fig. 1)
4. Fasten the post pipe with two bolts. (Refer to fig. 1)
A long bolt should be connected to the upper side.
5. Insert the wire to the post pipe. (Refer to fig. 2, 3)
6. If the scale is not properly level, please adjust 4 leg (adjusting bolt) at the bottom of the scale so as to center the bubble of the leveling gauge.

Note : Place the scale on a flat and stable surface.
Inside the indicated circle.

ASSEMBLING THE DISPLAY OF DB-II WALL TYPE



MODEL:DB - II Series

1. Attach head bracket to the display and fasten it with screws provided as shown in Figure. 1.
2. Connect both of ground wire and load cell wire to load cell connector at the backside of display as shown in Figure. 2.
3. Fasten ground wire to the bottom of platform body with bolt as shown in Figure. 3.

MEMO

MEMO

MEMO

DB-II (LCD Ver.)

Bench Scale



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