







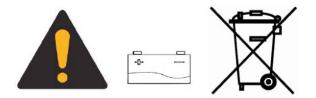
v.201811



### Safety Guide



- 1. The capacity of crane scale have been showed on the overlay, Don't make lifts beyond rated capacity of the crane scale.
- 2. Operators should not maneuver a loaded crane scale over personnel.
- 3. The scale must be routinely checked for operation. Don't operate if hook, shackle, sling, cable, etc show any sign of defects or excessive wear.
- 4. If the scale is not going to be used for long time, recharging the battery every three months to preserve the life-span of the battery and recharge it before operation.
- 5. The battery charger is included in the scale package. Please use this charger, It's normal that the charger will become warm when the battery is charging.
- 6. Please note when the digits flash on the display, it means that the battery needs to be recharged.
- 7. Check hook, shackle, safety pins, and latches periodically. Contact your dealer for parts replacement in case defect, deform or wearing is found.
- 8. Always lift loads vertically.



Please replace the battery if it runs out of life. The replaced battery must be handled correctly.

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### CHAPTER 1 FEATURES AND SPECIFICATION

### 1. Features

### ◆ Multi-weighing units:

Kg, lb, N are selectable, generally kg are default unit.

### **♦** Multi-function operation:

Tare, Zero, Auto zero tracking, Total, Hold, Overload warning and record, Calibration through remote controller, etc functions.

### ♦ User-friendly design:

Cast aluminium housing for maximum protection; Large red 5 digit LED display (digit height 30mm); Gravity compensation; Safety factor up to 4 times capacity; Battery Operated with low battery indication; Automatic turn off, power-saving function.

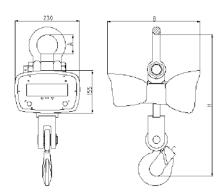
### 2. Main technical data

Standard	According to OIML class III
Display	30mm (1.2") 5digits LCD/LED
Zero Range	4% F.S.
Tare Range	100% F.S.
Stable Time	≤10 seconds
Overload Indication	100% F.S. + 9e
Max. Safety Load	125% F.S.
Ultimate Load	400% F.S.
Battery Life	≥50 hours
Battery Type	Fully sealed Lead-Acid battery, 6V/7Ah
Adapter	DC9V/1000mA
Nominal operating Temp.	- 10℃ ~ + 40℃
Operating Humidity	≤85% RH under 20°C
Remote Controller Distance	Min. 15m
Battery of Remote Controller	AAA Size battery, 1.5V x 2

# 3. Specification

MODEL	Max. capacity (kg)	Min. weigh (kg)	Division (kg)	Total display counts (n)
CSB1K	1000	10	0.5	2000
CSB2K	2000	20	1	2000
CSB3K	3000	20	1	3000
CSB5K	5000	40	2	2500
CSB10K	10000	100	5	2000
CSB15K	15000	100	5	3000
CSB20K	20000	200	10	2000

# 4. Appearance illustration



MODEL	A(mm)	B(mm)	C(mm)	H(mm)	N.W.
CSB1K	80	340	30	420	12kg
CSB2K	80	340	30	420	12kg
CSB3K	100	340	40	600	14kg
CSB5K	130	360	45	720	23kg
CSB10K	145	360	60	850	43kg
CSB15K	170	360	85	900	60kg
CSB20K	170	360	85	900	65kg

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Battery: 6V/7Ah fully sealed Lead-Acid battery

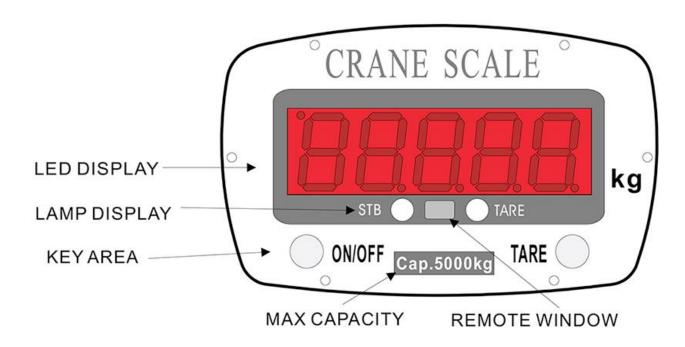
Adapter: 9VDC/1000mA adapter

Current: the crane scale average current is about DC 100mA±10%, if battery charged, it can be used for about 50hours.Low battery warning: When the digits flash, it means the battery needs to be recharged. The scale will power off automatically after 1 to 2 hours operation if the battery is not charged. Please recharge the battery before operating the scale again.

Charging method: Turn off the crane scale, use adapter in the carton, the lamp on the back cover will become orange when charging, and it will become green when the charging finish.

Generally, charging time should not less than 8hours, the crane scale have charging protection, long time charging can't damage the battery.

### **CHAPTER 2 DISPLAY**



#### 1. LED DISPLAY

30mm (1.2") 5digits LED/LCD

### 2. INDICATOR LAMP

a. TARE: TARE indicatorb. STB: STABLE indicator

#### 3. KEY

- a. ON/OFF
  - 1. Press ON/OFF three seconds, the crane scale turn on.
  - 2. When turn on, Press ON/OFF three seconds, the crane scale turn off.

### b. TARE

- 1 Hang sling or container on the hook, when the weight reading stable, press this key, the digits display "0", and "TARE" indicator switch on.
- 2. Put the goods into container, the scale will display goods net weight.
- 3. If move goods and container, the scale will display minus value of tare weight.

### 4. REMOTE CONTROLLER





Press any key on the remote controller, the indicator on the controller will flash.

Key function:

### 1. 【ZERO】

- a. In weighing status, when crane scale switch on with no load on the hook, but there are small digits on screen, press this key to obtain zero reading.
- b. In parameter setting and calibration process, it used for set value up

#### 2. 【TARE】

- a. In weighing status, the function is equal to TARE on front panel
- b. In parameter setting and calibration process, it used for move digit (the digit choose flash)

#### 3. [SHIFT]

- a. In weighing situation, used for function shift, or used with other key to more function.
- b. In parameter setting and calibration process, it used for confirm setting.

### 4. 【CLEAR】

- a. In weighing status, it used to clear accumulation.
- b. In parameter setting and calibration process, it used for set value down.

#### 5. 【ACCU】

It used for accumulation function, details see Chapter3-5.

#### 6. **【F1】**

Function Key, used with **[F2]** together, Press **[F1]** solely, it will regulate brightness of LED.

### 7. **【F2】**

Function Key, used with **[F1]** together.

#### 8. 【HOLD】

It used for hold function, details see Chapter3-4.

### 9. 【OFF】

Turn off the crane scale

### **CHAPTER 3 OPERATION GUIDE**

### **I** a express key on remote controller.

### 1 TURN ON/OFF

### **♦**TURN ON

Press ON/OFF three seconds, the screen display as follows:

OPERATION	DISPLAY	ILLUSTRATION	
ON/OFF	〖88888〗	Display two times	
	〖 Ert 〗	Display two times	
	[XXXXX]	Display capacity	
	〖U 6.XX〗	Display current battery voltage	
	〖〗	Waiting stable	
	<b>C</b> 0 <b>D</b>	"STB" light on, you can operate now	

### **♦TURN OFF**

1	Press ON/OFF three seconds.
2	Press 【OFF】 three seconds.
3	Choose turn off method when parameter setting, the scale will display [ -] after no operation at 15minutes to save power, and it will turn off automatically after 60minutes.

### 2 ZERO

OPERATION	DISPLAY	When scale turn on, generally scale displays [	0 〗,if display
Press 【ZERO】	<b>CO</b>	small digits when no load, press this key.	

### 3 TARE

### **♦** TARE DIRECTLY

	OPERATION	DISPLAY	After turn on, hanging tare weight such as sling, cable at
1	Press TARE	<b>CO</b>	first, press this key, "TARE" light on, then the scale will
2	Press [TARE]	<b>CO</b>	display net weight of the goods.

### ◆ SET TARE WEIGHT IN ADVANCE

OPERATION	DISPLAY	ILLUSTRATION
[SHIFT][TARE]	〖0.000.0〗	Current tare weight
[TARE][ZERO][CLEAR]	[xxx]	Set known tare weight, 【TARE】 used to move
		digit, 【ZERO】【CLEAR】 used to set value.
[SHIFT]	〖-xxx〗	exit, "TARE" light on, it displays minus tare
		weight, after hanging on goods, it will display
		net weight of goods.

### 4 HOLD

OPERATION ILLUSTRATION	
Press [HOLD]	Hold the weight reading no matter load change
Press [HOLD] again	Return to normal weighing status

### **5 ACCUMULATION**

OPERATION	DISPLAY	ILLUSTRATION	
Press 【ACCU】	〖No***〗	Current accumulation time	
	【H****】	Front four digits of total value	
	[L****]	Rear four digits of total value	

After display above contents two times, the scale will return automatically, you also can press [SHIFT] to return.

### **6 ACCUMULATION SEARCH**

OPERATION	DISPLAY	ILLUSTRATION	
[SHIFT][ACCU]	〖No.***〗	Current accumulation time	
	[*****]	Current weight reading	
	【H****】	Front four digits of total value	
	[L****]	Rear four digits of total value	
[SHIFT]	[*****]	Return	

Press [TARE] and [ZERO] can check different times weight and accumulation.

### **7 ACCUMULATION CLEAR**

OPERATION	DISPLAY	ILLUSTRATION	
[CLEAR]	[ CLr ]	Ask if you want to clear or not	
[CLEAR]	〖noCLr〗	Cancel clear	
[SHIFT]	〖8.8.8.8.8.〗	Confirm clear	

### **8 BATTERY VOLTAGE**

OPERATION	DISPLAY	ILLUSTRATION	
【SHIFT】【F1】	〖U 6.**〗	Display current battery voltage	
[SHIFT]		Return	

The voltage should be between 5.8 and 6.9, if below than 5.8, the digits flash, you need to recharge immediately.

### 9 BRIGHTNESS

OPERATION	ILLUSTRATION	
【F1】	1∼5 total 5 options, from darkness to brightness(Default is 3)	

### **10 ZERO POINT**

OPERATION	ILLUSTRATION
[SHIFT][ZERO]	Display current zero point

### **11 UNIT**

OPERATION	ILLUSTRATION	
[SHIFT][HOLD]	Unit switch, Un=0: kg, "kg" light on, Un=1: lb, "lb" light on.	

### **CHAPTER 4 PARAMETER SETTING & CALIBRATION**

You need to use remote controller to operate parameter setting and calibration Key function:

KEY	FUNCTION	
[TARE]	Move digit(the digit choose flash)	
【ZERO】	Set value up	
[CLEAR]	Set value down	
[SHIFT]	Confirm, exit	

### 1. PARAMETER SETTING

OPERATION	DISPLAY	ILLUSTRATION
Press ON/OFF 3seconds	[ O ]	Turn on crane scale
Press [F1] and [F2]	〖P0000〗	Second digit flash, use function key to move digit,
at same time 3seconds		set value.
Press [TARE] [ZERO]	〖P8088〗	Input 8088, 8088 is parameter setting password
[CLEAR]		
Press [SHIFT]	[SETUP]	Confirm, enter parameter setting program
Press 【TARE】	〖FS=06〗	New scale, the screen display FS=06, if scale
		calibrated, the screen display capacity.
Press[ZERO]or[CLEAR]	〖FS=05〗	Choose capacity, the screen display
to choose		02/03/05/06/10/15/20/30/50/60/75 circularly, take
		cap:5000kg as example, choose FS=05
Press 【TARE】 confirm	〖Id=05〗	New scale, the screen display Id=05, if scale
		calibrated, the screen display calibrated division.
Press[ZERO]or[CLEAR]	〖Id=02〗	Choose division, the screen display
to choose		01/02/05/10/20 circularly. 5000kg scale division is
		2kg, so choose Id=02
	〖Pt=0〗	New scale, the screen display Pt=0, if scale
		calibrated, the screen display calibrated decimal
		position
Press[ZERO]or[CLEAR]	〖Pt=0〗	Choose decimal position, the screen display
to choose		0/1/2/3 circularly, 0=xxxxx, 1=xxxx.x, 2=xxx.xx,
		3=xx.xxx, Cap.5000kg scale choose Pt=0
Press 【TARE】 confirm	〖Ab=24〗	Display zero range , A: zero range by hand; B:
		zero range automatically, 0~5 total 6 options:
		0=0%F. S; 1=2%F.S; 2=4%F.S; 3=10%F.S;
		4=20%F.S; 5=50%F.S, Generally, Don't change
		this parameter.
Press 【TARE】 confirm	〖Cd=11〗	New scale, the screen display Cd=11,if scale
		calibrated, the screen display calibrated value.

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Press[ZERO]or[CLEAR]	〖Cd=11〗	C: zero-tracking range, 0~5 total 6 options;
to choose		0=0d; 1=0.5d; 2=1d; 3=1.5d; 4=2d; 5=2.5d
		d: display speed, 0~2 total 3 options; 0=slow;
		1=average; 2=fast; before calibration, set
		Cd=00,after calibration, set Cd=11 again,
		generally choose Cd==11 when ex-stock
Press 【TARE】 confirm	[LL=2]	New scale, the screen display LL=2,if scale
		calibrated, the screen display calibrated value.
Press[ZERO]or[CLEAR]	[LL=1]	LL: filter parameter, 0~5 total 6 options, from
to choose		smallest to biggest, before calibration, set
		LL=0,after calibration, set LL=1 again, generally
		choose LL=1 when ex-stock
Press 【TARE】 confirm	〖Un=0〗	New scale, the screen display Un=0, if scale
		calibrated, the screen display calibrated unit.
Press[ZERO]or[CLEAR]	〖Un=0〗	Choose unit, Un=0: kg, Un=1: lb, Un=2: other
to choose		unit。Generally, choose Un=0 when ex-stock.
Press 【TARE】 confirm	【OFF 1】	New scale, the screen display OFF 1,if scale
		calibrated, the screen display calibrated value.
Press[ZERO]or[CLEAR]	【OFF 2】	Choose turn off method, 0~2 total 3 options; 0:
to choose		turn off by hand; 1: if no operation, the screen
		display [ -] after 15minutes to save power;2: if
		no operation, the screen display 🏾 -🖺 after
		15minutes, and turn off automatically after
		60minutes. Generally, choose OFF=2 when
		ex-stock.
Press 【TARE】 confirm	〖g 〗	Acceleration of gravity
Press 【TARE】,Press	〖9.7930〗	New crane scale , it display 9.7930, it's g value of
[ZERO] and [CLEAR]		our location, if scale calibrated, it display
to change value		calibrated value. user can change it according to
		local area g value, the value range is 9.783-9.832,
Press [SHIFT]	<pre>[ End ]</pre>	Confirm above parameter setting, Exit parameter
		setting program.

setting program.

1. If you find mis-operation before end, Press 【TARE】, the screen will display parameter circularly, correct error, and if you find mis-operation after parameter setting program finished, you have to enter parameter setting program again to correct.

2. The capacity you choose relate to division, decimal position, below is detail list:

	така така така така така така така			
CAPACITY/DIVISION	FS (CAP)	ld (DIVISION)	Pt (DECIMAL POSITION)	
1000kg/0.5kg	10	05	1	
2000kg/1kg	02	01	0	
3000kg/1kg	03	01	0	
5000kg/2kg	05	02	0	
10000kg/5kg	10	05	0	
15000kg/5kg	15	05	0	
20000kg/10kg	20	10	0	

# 2. Calibration

OPERATION	DISPLAY	ILLUSTRATION
	〖	Take Cap:5000kg scale as example, Pay attention that
		the screen display 0 after hanging tare weight, you can
		hang tare weight at first, then turn on.
Press [F1]and [F2]	〖P0000〗	Second digit flash, use function key to move digit, set
at same time		value.
3seconds		
Press 【TARE】	〖P1358〗	Input 1358, 1358 is calibration password
[ZERO][CLEAR]		
Press [SHIFT]	[SCALE]	Confirm, into calibration program
Press [SHIFT]	[CALSP]	Zero point calibration, wait until STB light on
Press [SHIFT]	〖LoAd1〗	First load calibration
Hanging on first load		First load must exceed 20% capacity, Waiting until STB
e.g.1000kg		light on.
Press [SHIFT]	〖05000〗	Display capacity
Press 【TARE】	〖01000〗	Input 1000, wait until STB light on.
[ZERO][CLEAR]		
Press [SHIFT]	〖LoAd2〗	Second load calibration
Hanging on second		Second load must exceed Load 1+20% capacity,
load e.g.3000kg		Waiting until STB light on.
Press [SHIFT]	<b>[</b> 02000]	Mention you Load2 must exceed 2000kg
Press 【TARE】	〖03000〗	Input actual weight 3000, waiting stable
[ZERO][CLEAR]		
Press [SHIFT]	〖LoAd3〗	Third load calibration
Hanging on third load		Third load must exceed Load 2+20% capacity, Waiting
e.g.5000kg		until STB light on.
Press [SHIFT]	〖04000〗	Mention you Load3 must exceed 4000kg.
Press 【TARE】	〖05000〗	Input actual weight 5000kg. wait until STB light on.
[ZERO][CLEAR]		
Press [SHIFT]	[]	Waiting stable

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	[ -oL- ]	
	<pre>[ End ]</pre>	Calibration end
	〖5000.0〗	Display calibrated capacity , sometimes it display
		4999.5, 5000.5
Press [TARE]	【05000】	Move decimal position
Put down weight	<b>C</b> 0 <b>D</b>	Check zero point, it display 0, and STB, ZERO light on.

- First load: LOAD1 must larger than 20% capacity, and LOAD1<LOAD2<LOAD3, at the same time, between LOAD1 and LOAD2, LOAD2 and LOAD3, the interval must bigger than 20% capacity
- 2. If LOAD1 is bigger than 80% capacity, such as full capacity, after first load calibration, it will finish automatically, you only need to press [TARE] to move decimal position. Generally, we strong recommend you to use this one point calibration program if you have 100% capacity standard weight
- 3. If you only have 20% standard weight, after first load calibration, when it display \[ \big[ LoAd2 \], press \[ \big[ OFF \] \] 2 times, then press \[ \big[ TARE \] to move decimal position. Calibration finish.

# **CHAPTER 5 DISPLAY ILLUSTRATION**

DISPLAY	ILLUSTRATION	REMARK
[CALSP]	Enter zero point calibration	
[SCALE]	Enter calibration	
[SEtUP]	Enter parameter setting	
[UAdJ]	Enter voltage calibration	
【LoAd1】	First calibration point	LoAd1 <load2<load3< td=""></load2<load3<>
【LoAd2】	Second calibration point	
【LoAd3】	Third calibration point	
	Exceed high limit	Tare weight can't exceed full capacity
<b>[</b> ]	Exceed low limit	Tare weight can't be negative
[ ]	Waiting	
〖Err10〗	Weight less than Min. Capacity	Can't accumulate the value
〖Err11〗	Accumulated times overflow	Can't accumulate after 30times
〖Err12〗	Accumulated weight overflow	Can't accumulate after 99999
〖Err13〗	Error in repeat accumulation	Can't accumulate one weight repeatedly
〖no***〗	Current accumulation times	
【H****】	Front four digit of accumulated	Total weight=front four digit + rare four digit
	weight	
[L****]	Rare four digit of accumulated	Total weight=front four digit + rare four digit
	weight	
【 CLr 】	Ask if you really want to delete	In case error deletion
	accumulated weight	
[noCLr]	Give up deletion	
<b>88888 8</b>	Confirm deletion	
[SHIFt]	Switch	
	Input value is too large	When you input tare or weight value
	Input value is too small	When you input tare or weight value
[noACC]	No any accumulated content	when you check accumulation
[-oL-]	Overload warning	Tare + Net weight exceed full capacity + 9e
[-Lb- ]	Low battery warning	Turn off automatically one minute later
【U*.**】	The voltage of current battery	
	End	when parameter setting or calibration ready
〖 End 〗	2116	
[ End ]	Turn off	,

# **CHAPTER 6 TROUBLESHOOTING GUIDE**

PROBLEM	POSSIBLE CAUSE	SOUTION
No display when put	Discharged battery	Recharge
on	Defective battery	Replace
	Defective button	Requires authorized service
	Power button not properly	Press ON/OFF in three seconds
	depressed	
Digits flash	Low battery	Recharge the battery
Recharge indicator	Battery charger damaged	Check the battery charger
light can't turn on	The Battery charger is not	Insert plug again
	plugged properly	
Display doesn't	Faulty load cell or PCB	Requires authorized service
respond to weight	Load cell cable damaged	Check and replace load cell
changes	Out of calibration	Check calibration
Display experiences	Scale electronics do not	After turning on, heating 3-5
excessive Zero drift	stabilize after turning on	minutes.
between weighment	Put the scale on ground for	Scale should be hung
	too long time	
Displayed weight	Scale not Zeroed before	Depress ZERO before applying
shows large error	applying weight	weight
	Requires recalibration	See calibration
	Kg/lb wrong selection	See operation
Battery can't recharge	Battery damaged	Replace battery
	Outlet damaged	Replace the outlet
Remote distance	Receiver window is dirty	Check and clean
shortened		
	Remote Control's battery is	Replace Remote Control's battery.
	low	





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