

CS SERIES
DIGITAL CRANE SCALE

OPERATION MANUAL

READ THIS MANUAL VERY CAREFULLY BEFORE
OPERATING THIS SCALE

Specifications and functions subject to
change without prior notice

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AUGUST 1999 REV 3

1. CAUTIONS

1. Never overload this crane scale.
2. Never perform overhead weighing.
3. Never perform weighing in an environment where strong wind may cause subject matter falls out from the hook.
4. Never attempt to open this scale, no user serviceable parts inside.
5. Stay clear during weighing.
6. Remove all loads from hook when not in used.
7. Do not remove the wire rope stopper. For safety reasons, always apply it.
8. Before weighing, check and make sure that all hanging /load- receiving elements/ devices are in good condition.
9. For safety reasons, always lift subject matter vertically.

2. INSTALLATION INSTRUCTION

2.1 UNPACK this scale very carefully. Check and make sure that the following items are included.

- a. This operation manual
- b. CS series scale x 1
- c. AC adaptor x 1
- d. Wireless remote control x 1 (option)
- e. Cable remote control x 1 (option)
- f. External battery pack x 1 (option)

Contact your dealer if any items missed.

2.2 SECURING THE SCALE

2.2.1 This unit must be hanged via a strong media, e.g. a wire rope or a metal hook, to a firm support that can withstands at least 5 times of scale capacity.

2.2.2 Make sure that the crane scale is hanged vertically.

2.3 POWER THE SCALE

- a. This scale is powered by the built-in

rechargeable battery and/or by an AC adapter included. An external battery pack is available as option.

- b. Check and make sure that the voltage of the AC adaptor supplied matches with the voltage of the main output.
- c. Insert the output plug of AC adaptor firmly into the DC input jack of scale. The DC input jack is located underneath the back of the scale.
- d. Before first time use, charge the built-in rechargeable battery for at least 8 hours or until the charging indicator turns green.
- e. For safety reasons, do not share the same mains outlet with other apparatus.

3. SPECIFICATIONS

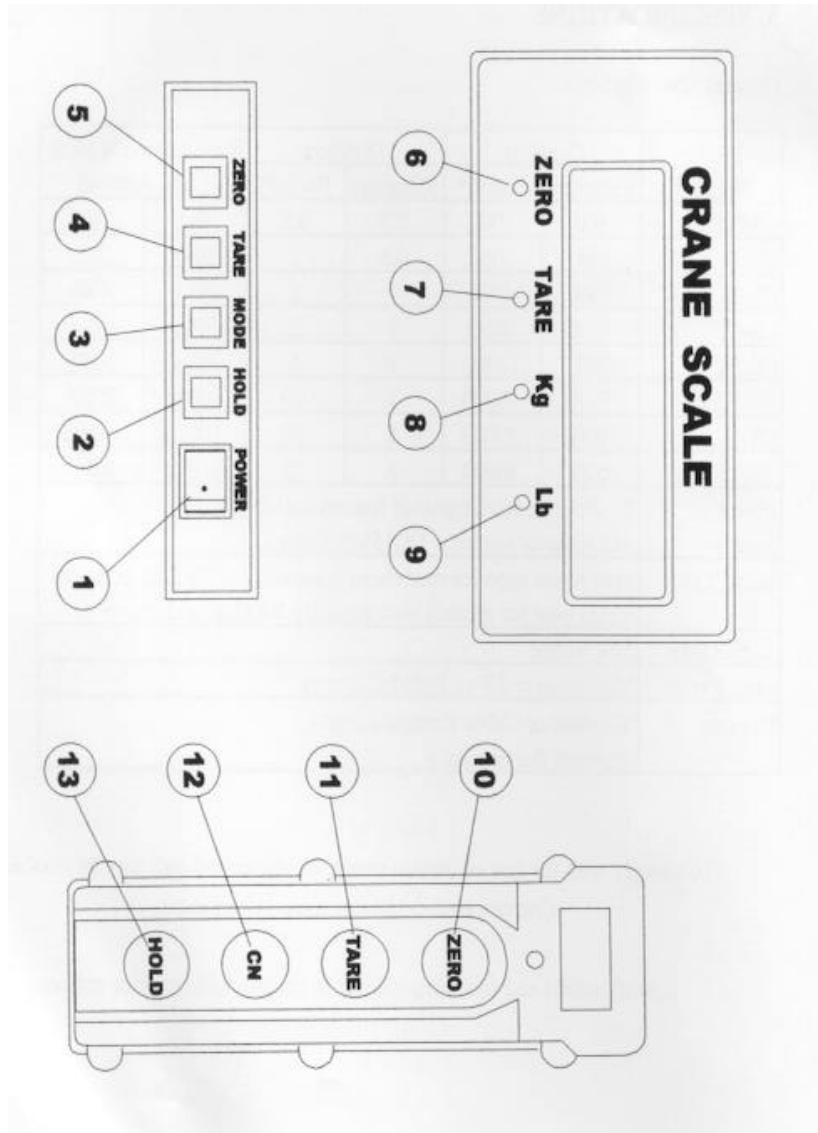
General Specifications

Model Number	Capacity		Division		Recommended Min.	
	Kg	Pound*	Kg	Pound*	Load Applied	
CS-500	500	1000	0.2	0.5	4kg	10lb
CS-1T	1000	2000	0.5	1	10kg	20lb
CS-2T	2000	4400	1	2	20kg	40lb
CS-3T	3000	6600	1	2	20kg	40lb
CS-5T	5000	11000	2	5	40kg	100lb
CS-7.5T	7500	16000	5	10	100kg	200lb
CS-10T	10000	20000	5	10	100kg	200lb
CS-15T	15000	30000	5	10	100kg	200lb
Power Source	By Built-in Rechargeable Battery and /or, AC Adaptor output = DC15V/500Ma					
Hook Type	Free rotate type for models with capacity of 3000kg or below. Fixed type for models with capacity 5000kg and above					
Tare Range	Full Range					
Zero Range	Maximum = 2% of Rated Capacity					
Options:	Wireless or Cable Remote Control, External Battery Pack					

*To comply with the law of certain countries, the pound unit may be disabled. Contact your dealer for more information.

Specifications and functions subject to change without prior notice.

4. KEYBOARD LAYOUT



5. KEY AND INDICATOR DESCRIPTION

KEYS ON PANEL

1. POWER KEY

Press this key to turn scale on/off.

2. HOLD KEY

Press this key to hold/release the current weight being displayed/held.

3. MODE KEY

Press this key to shift between weight units or move cursor to right during function setting.

4. TARE KEY

Press this key to tare off the weight of a container or decrease value during function setting.

5. ZERO KEY

Press this key to set weight to zero, or increase value during function setting.

INDICATORS ON PANEL

6. ZERO INDICATOR

When the weight detected is at true zero, an arrow will appear and point at this sign.

7. TARE INDICATOR

When the tare function is being employed, an arrow will appear and point at this sign.

8. METRIC INDICATOR

When this indicator is on, the metric weight unit is being employed.

9. POUND INDICATOR

When this indicator is on, the pound weight unit is being employed. (This indicator may not be available in some certain countries).

KEYS ON REMOTE CONTROL (OPTION)

10. ZERO KEY

Press this key to set weight to zero (max. zero range = 2% of rated capacity).

11. TARE KEY

Press this key to tare off the weight of a container.

12. MODE KEY

Press this key to shift between weight units.

13. HOLD KEY

Press this key to hold/release the current weight being displayed/held.

6. INTERNAL FUNCTIONS

6.1 INTERNAL FUNCTION TABLE

Function	Symbol	Description	NOTE
1	Fun-1	Scale configuration setting and dealer Calibration.	**
2	Fun-2	Display segment check.	
3	Fun-3	Off set value and span value reading.	**
4	Fun-4	Auto power off setting	

NOTE **:

For dealer and authorized personnel only. Inappropriate setting(s) will cause system failure. Contact your dealer for more information or service.

6.2 HOW TO ENTER THE REQUIRED FUNCTION MODE

- a. Turn scale off.
- b. Press and hold **TARE**, then turn scale on.
Scale displays Fun-1
- c. Press **TARE** until the required function number appears.
- d. Press **MODE**
- e. Press **MODE** until the required setting

appears.

- f. Press **TARE** to confirm.
- g. Repeat step c to f for other function setting, or
- h. Press **ZERO** to save settings and return to normal operation.

6.3 INTERNAL FUNCTIONS DESCRIPTION

Fun-1 Contact your dealer for more information.

Fun-2 To check all display segments work properly.

Fun-3 Contact your dealer for more information.

Fun-4 To set Auto Power Off Function.

Two modes are available: (Default = 4_OFF)

0._OFF = Auto Power Off Function is disabled.

4._OFF = Scale will automatically turned off after 4 minutes used.

7. OPERATING INSTRUCTION

7.1 PLACING THE SCALE

Hang this scale with a strong enough media where is free from RF interference, vibration, fire, direct sunlight and excessive moisture.

For safety reasons and best weighing result, always hang this scale and lift a load vertically.

7.2 POWER ON/OFF THE SCALE

Press **POWER** to turn scale on or off.

7.3 ZERO FUNCTION

If **ZERO INDICATOR** does not appear when scale is unloaded, press **ZERO** to reset weight displayed to zero. Refer to general specification table for maximum zero range.

7.4 TARE FUNCTION

7.4.1 To Tare Off the Weight of a Container

Apply a container to hook, then press **TARE** to tare off the weight of it. After the **TARE** is pressed, the **TARE INDICATOR** appears.

7.4.2 To Clear the Weight of a Container from Memory

Remove the container from hook then press **TARE**. The tare indicator will go off indicating no container weight is resided in memory.

7.5 PLACING A LOAD

Always apply a load to hook gently. Sudden shock, excessive force or overloading the scale may cause damage to the weight sensor inside.

It is a good practice to remove all loads from hook when not in used.

This would prolong the lifetime of weight sensor.

7.6 WEIGHING FUNCTION

- a. Before weighing, make sure that the Zero Status Sign is on.
- b. Press **MODE** until the required weight unit appears.
- c. Apply subject matter to hook and the weight of it is displayed.
- d. For best weighing result, refer to general specification table for recommended

minimum weight to be applied.

7.7 HOLDING THE WEIGHT BEING DISPLAYED

- a. Press **HOLD** to hold the weight being display.
For accuracy considerations, only press **HOLD** when weight is stable.
- b. After **HOLD** is pressed, the flashing weight value appears.
- c. To release weight value being held, press **HOLD** again.

7.8 SHIFT BETWEEN DIFFERENT WEIGHT UNITS

Press **MODE** to shift different weight units.

NOTE: The pound unit may be not available in certain countries.

7.9 RECHARGING THE SCALE

7.9.1 When low battery signal appears, insert a charged external power pack or apply the AC adaptor to recharge the battery. Fail in doing may cause irrecoverable damage to the rechargeable battery.

7.9.2 Low battery signal is represented by either case of the follows depends on operating status.

7.9.2.1 low battery is detected when power on
Scale shows LOBAT after self test down count but displaying zero weight.

7.9.2.2 low battery is detected during operation

Weight display flashes once every 5 seconds.

7.10 REMOTE CONTROL

- a. Pressing the corresponding key on the remote control can attain same control results.

NOTE: All internal function settings can only be achieved through scale panel keys.

- b. Operation distance from scale to wireless remote control is 10 meters unobstructed.
- c. When remote control distance decreases, change the battery located inside the wireless remote control.
- d. Unique radio frequency is assigned to specified unit. Never change DIP switch setting of the wireless remote control.

8. TROUBLE SHOOTING

SCALE CANNOT BE TURNED ON

CHECK: Is the built-in rechargeable battery charged?

ACTION: Recharge the battery for at least 8 hours if first time use or employed the AC adaptor.

ZERO WEIGHT CANNOT BE ATTAINED WHEN TURNED ON

CHECK: Is the scale hanged vertically?

ACTION: Check and try again.

CHECK: Is any load applied to the hook?

ACTION: Remove all loads from hook. Turn scale off and turn on again.

CHECK: Is the scale affected by airflow, vibration or RF interference?

ACTION: Place scale away from all disturbances and try again.

RATED CAPACITY CANNOT BE ATTAINED

CHECK: Is the TARE function being employed?

ACTION: Remove all load from hook, press **TARE** and try again.

SCALE DISPLAYS 00000

CHECK: Is the scale overloaded?

ACTION: Remove all loads from hook immediately and check again.

SCALE DOES NOT WEIGH CORRECTLY

CHECK: Is the right weight unit employed?

ACTION: Select the correct weight unit.

CHECK: Are the minimum weight applied to scale?

ACTION: Refer to General Specifications for recommended minimum load applied and try again.

CHECK: Is the load lifted vertically?

ACTION: Remove all loads and lift it again.

CHECK: Is the scale affected by airflow, vibration or RF interference?

ACTION: Place scale away from all disturbances.

CHECK: Is the scale calibrated correctly?

ACTION: Contact your dealer.

SCALE TURNED OFF AUTOMATICALLY

CHECK: Is the AUTO POWER OFF function employed?

ACTION: Disable the AUTO POWER OFF function.

CHECK: Is the LOW BATTERY sign on?
ACTION: Insert a charged external battery pack or employed the AC adaptor.

WIRELESS REMOTE CONTROL DOES NOT FUNCTION

CHECK: Is the distance between the scale and the wireless remote control exceeds maximum transmission range.

ACTION: Try again in a short distance.

CHECK: Is the battery of wireless remote control faded?

ACTION: Change the battery with a new one.

CHECK: Is the transmission frequency matches with the receiving frequency?

ACTION: Contact your dealer.

9. DAILY CARE AND MAINTENANCE

- a. Do not open scale for any reason. Contact your dealer for servicing.
- b. Avoid exposing scale to direct sunlight or excess moisture.
- c. Do not submerge scale in water or drop scale.
- d. Remove all loads from hook before transportation.
- e. Clean the scale with a soft and damp cloth, if necessary with mild detergent.
- f. Do not use any harsh, abrasive material, violate solvent thinner or alcohol for cleaning.
- g. Verify the accuracy of scale periodically. Re-calibrate the scale when needed.

NOTE: In some countries, calibration is restricted to be done by qualified or authorized agent only. Contract your dealer for more information.

- h. Store scale in a dry and cool place.