



Owner's Manual

CASTON-I

Hoist Scale

PRECAUTIONS 4
INTRODUCTION..... 7
THE SCALE APPEARANCE..... 7
DISPLAY DESCRIPTIONS AND KEY FUNCTION..... 8
BATTERY USAGE 9
FUNCTION & DESCRIPTIONS..... 10
 1. Operation 10
 2. Zero Function..... 10
 3. Setting Tare Weight Function 10
 4. Hold Function.....11
SET MODE 12
TEST MODE 13
REMOTE CONTROL(Optional) 14
SPECIFICATIONS 15
PRODUCT SIZE 16
ERROR MESSAGE 17



PRECAUTIONS

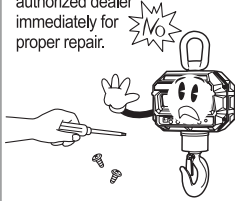
Warning

Turn power switch off on rear panel when you don't use the scale for a long time.

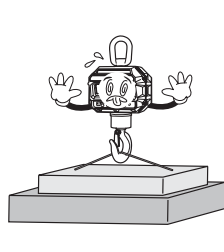


Do not disassemble the scale.

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

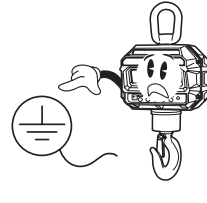


Do not overload beyond the maximum weight limit.



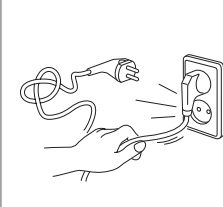
Scale must be grounded to minimize electricity static.

This will minimize defect or electric shock.

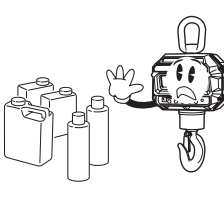


Do not pull the plug by its cord when unplugging.

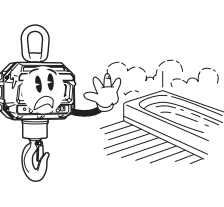
Damaged cord could cause electric shock or fire.



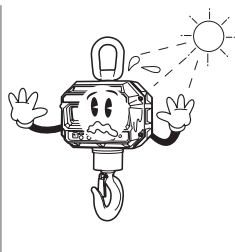
To prevent from fire occurring, Do not place or use the scale near flammable or corrosive gas.



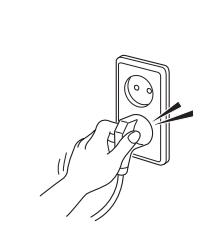
To reduce electric shock or incorrect reading, Do not spill water on the scale or place it in humid condition.



Avoid placing the scale near heater or in direct sunlight.

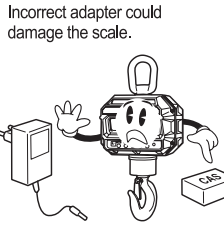


Insert plug firmly to wall outlet to prevent electric shock.



Use proper Adapter.

Incorrect adapter could damage the scale.



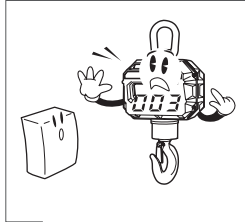
PRECAUTIONS

Attention

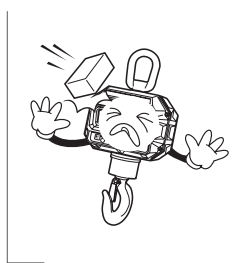
Do not stand under the scale while weighing the load, and you should be careful to provide against a safety accident. To install, safety pin in hook should be fixed to prevent dropping out from lift eye bolt.



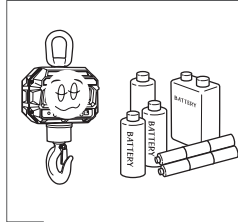
For consistent and accurate reading, maintain periodical check by your CAS authorized dealer.



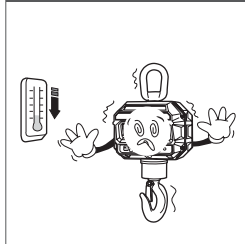
Avoid sudden shock to the scale.



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

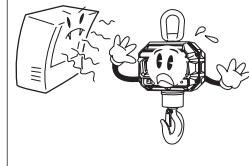


Place the scale on firm and temperature consistent environment.



Keep the scale away from other electromagnetic generating devices.

This may interfere with accurate reading.

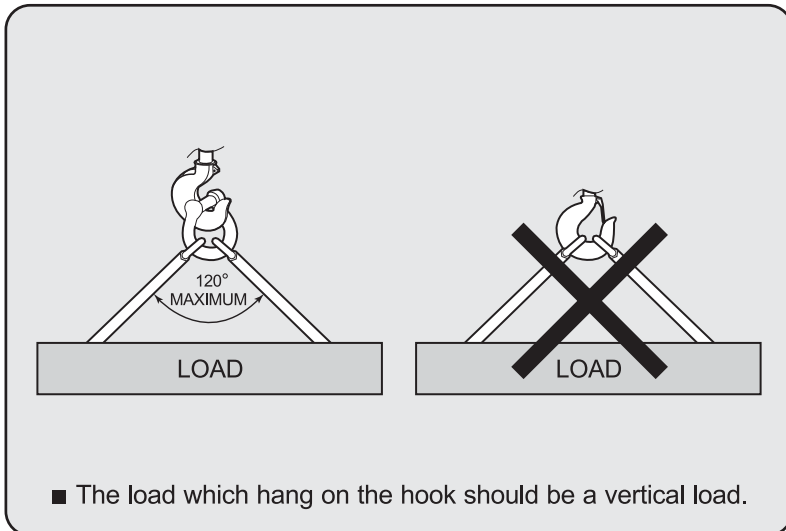


PRECAUTIONS

If you don't use the scale for a long time, you should turn off POWER S/W on the rare panel.



WARNING: The load which hang on the hook should be a vertical load. (Refer to the next features.)



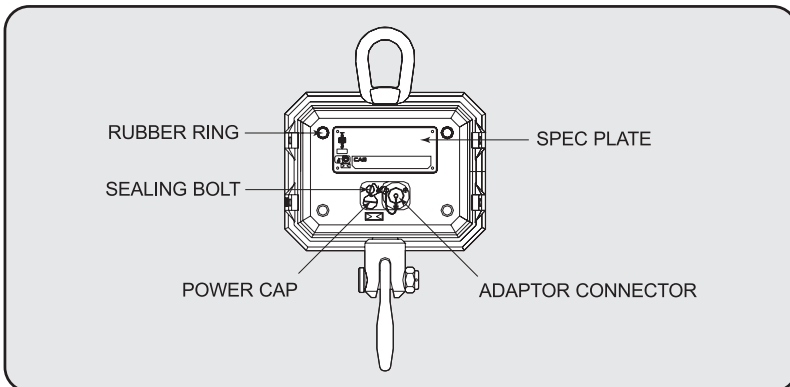
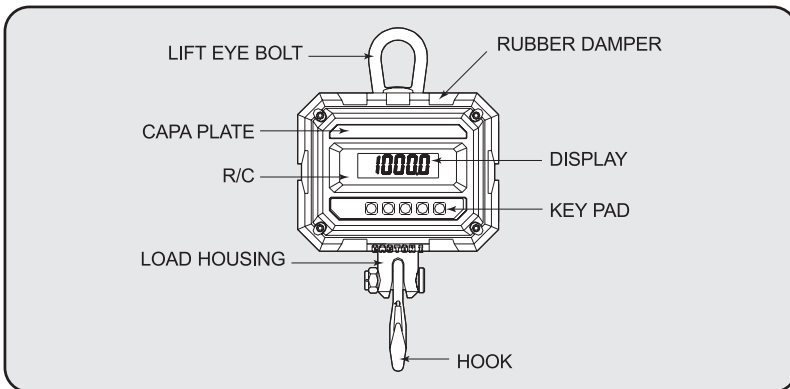
INTRODUCTION & THE SCALE APPEARANCE

INTRODUCTION

We greatly appreciate your purchase of the CASTON I. These goods perform excellently and exhibit splendid properties through strike tests. The CASTON I is delicately designed to coincide with the special requirements of several industrial fields and includes many functions and various external interfaces. Also, it is programmed for the user's convenience and contains display functions that are easily accessible. Before using the CASTON I, it is recommended that you read this manual carefully so you may use this device to its full potential.

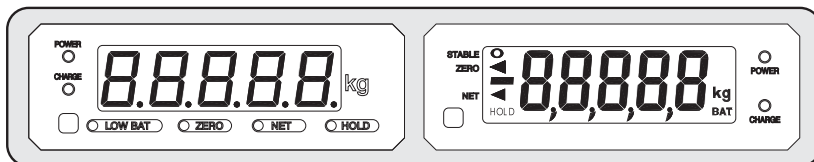


THE SCALE APPEARANCE



DISPLAY DESCRIPTIONS AND KEY FUNCTION

DISPLAY DESCRIPTIONS AND KEY FUNCTION



■ DISPLAY

WEIGHT DISPLAY: Display weight or messages.

STABLE: Turn on when the current weight is stable. (LCD)

ZERO: Turn on when the current weight is to 0kg.

NET: Turn on when the current weight is a pure weight.






HOLD: Turn on when the current weight is held while weighing moving or alive things.

LOW BATTERY: Indicates that battery is low and must be recharged soon.
(LCD TYPE: BAT)

CHARGING LAMP: Green lamp turns on when the charging is completed.
(Charging: red lamp)

POWER LAMP: Turn on when it is connected with DC 12V adaptor.

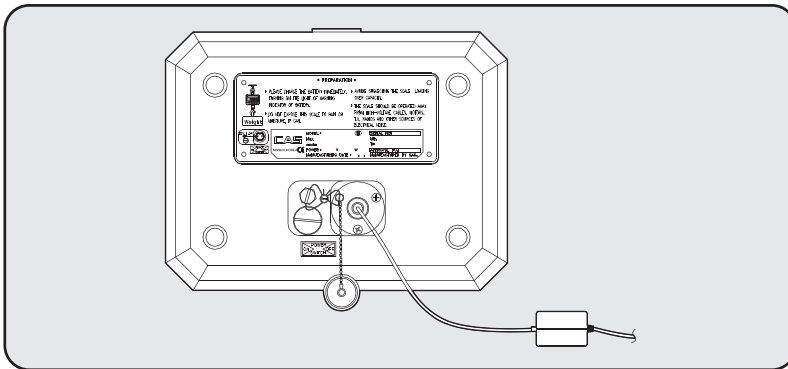
■ KEY FUNCTIONS

KEY	FUNCTIONS
	Used to turn ON/OFF.
	Return the display to 0.
	Used to weigh with tare weight.
	Used to weigh unstable things. (Liquids, Livestock, etc.)
	Used to store current condition and exit in , test, set mode. Used to clear previously added weight. (LED TYPE) BACK LIGHT ON/OFF. (LCD TYPE)

BATTERY USAGE

1. How to Charge

- Open the jack protection cap in the back panel and connect to the adaptor as the shown.
- When the adaptor is connected with CASTON-I , RED power and RED charging lamp turns on.
- When the charging is completed, GREEN charging lamp turns on.
It takes approximately 4-5 hours to fully charge.
(Charging time can be difference according to the battery condition.)



2. The Charging Battery Specification

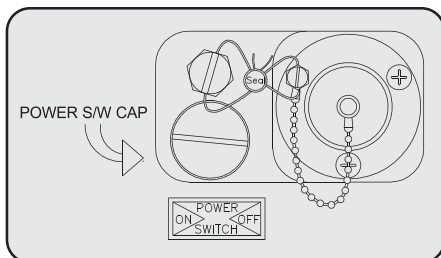
NOMINAL CAPACITY	2000mA
NOMINAL VOLTAGE	1.2V(1 Cell)
NOMINAL SIZE	C TYPE

3. Low Bat Signal

- After LOW BAT lamp turning on to prevent the overcharging and discharging of battery, LED TYPE is automatically turned off 1-5hours later and LCD TYPE is automatically turned off 3-7hours later. (It can be changed depending on the condition)
- When the discharging is completed, the alert message is shown before the power turns off.

FUNCTION & DESCRIPTIONS

FUNCTION & DESCRIPTIONS



Check that POWER S/W of the rear panel is turned on before you using the scale. POWER S/W of the scale direct from the factory has been turned off. (POWER S/W CAP can be opened and closed by the coin.)

1. Operation

- Press the ON/OFF key.
The scale will perform self-test on Weight Display and will be ready to weigh when ZERO LAMP turns on.
(While the power is turning off, the ON/OFF key on the remote control wouldn't be operated)

2. Zero Function

- Used to correct drifted zero value when the scale is loaded (User should select within $\pm 2\%$ of the maximum capacity), and motion is not detected.
Example
If the weight has drifted, you can press ZERO key to bring back to the zero. 2kg on Weight Display will set to 0kg when you press the ZERO key.

3. Setting Tare Weight Function

- Used to weigh with a tare.
- After hanging a weight to be tared on the HOOK, press the TARE key. Then the scale will memorize the weight of the tare, and will display "0" kg with turing on the NET LAMP.
- If you weigh something, it will be shown the weight removing the tare weight.
- To release this function, remove everything from the HOOK, and press the TARE key.
Then the NET LAMP will turn off and this function is terminated.
The weight including TARE weight can't exceed the maximum capacity.

4. Hold Function

1) Automatic Hold Function

(Hold function operated whenever it is weight)

- Press the HOLD key when the hook is empty(in zero value condition)
- The Weight Display will display “*HOLD*” sequentially.
- The scale will change from the Normal mode to Auto-hold mode, and HOLD LAMP will turn on.
- If you weigh unstable things in Auto-hold mode, “----” will display on the Weight Display. And then, the average value of the weight fluctuation will display.
- If the weight fluctuation range exceeds within 10% of weight, the scale will retry Auto-hold function.
- To escape from Auto-hold mode, press the HOLD key when the hook is empty. It will be returned to the Normal mode and “*HOLD*” will be displayed with HOLD LAMP turning off.

2) Manual Hold Function

(Execute when you press HOLD key)

- Press the HOLD key while weighing an unstable item.
“*HOLD*” will display and then, the average value of the weight fluctuation will display on the Weight Display.
- To escape from this mode, empty the hook or press HOLD key.
Then the scale changes from Hold mode to Normal mode.



WARNING: Do not press the keys with excessive force, the keys are to be pressed with a soft touch.



SET MODE

SET MODE



1. How to Enter

- Press the power while pressing the HOLD key, and SET mode starts.

2. Key Usage

- ZERO: Returns the display to 0.
- SET: Store and move into next menu.
- TARE, HOLD: Increase the set value to 1.

3. Set Menu(F2 ~ F3)

- F1: Not available
- F2: Digital Filter Setting

Set Value	Description
F2-0	In high speed(Less vibration)
F2-4	In normal speed
F2-9	Very slowly(Much vibration)

- F3: Weight backup(Power on actual weight)

Set Value	Description
F3-0	Weight backup is OFF
F3-1	Weight backup is ON

NOTE: If you press SET key after F3 setting, it will display “bye” and enter to Normal mode.

TEST MODE

1. How to Enter



- Press the power while pressing the TARE key and TEST mode starts.

2. Key Usage

- SET: Move to the next menu.
- ZERO, TARE, HOLD: Perform the test.

3. Test Menu(TEST 1 ~ TEST 3)

- TEST 1: Display test

Display	Description
 LED  LCD	TEST 1 is performed. After display test completing, it will be moved to test 2 automatically.

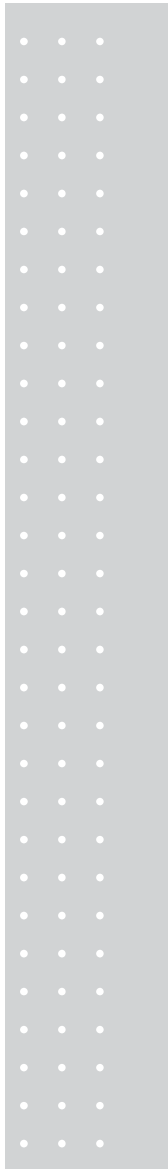
- TEST 2: Key & Remote control test

Key Code	Description
ZERO 1	· Press the key to be tested and the code of the key is displayed. · Press the key to be test and the No of key mode should be identify with code of key. · If you press SET key, it will be moved to test 3.
TARE 2	
HOLD 4	
SET 8	

- TEST 3: A/D converter test(Load cell test)

Display	Description
Digital value of current weight Ex) 5500	· Display digital value of current weight. This value means converted digital value. · If you press SET key after test 3 completing, it will display "bye" and enter to Normal mode.

NOTE: Check whether digital value changes. If the digital value is fixed or zero is displayed, Please request A/S to head office.

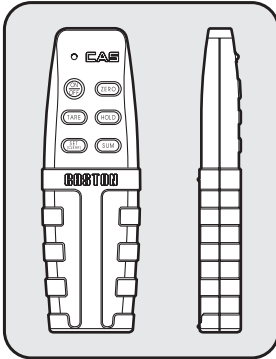


REMOTE CONTROL (Option)

REMOTE CONTROL(Option)



1. Remote Control Operation



- RED LAMP: Blinks when keys are pressed.
- ON/OFF KEY: Used to turn ON/OFF.
- ZERO KEY: Return the display to 0.
- TARE KEY: Used to weigh with tare weight.
- HOLD KEY: Used to weigh unstable things. (Liquids, Livestock, etc.)
- SET(CLEAR) KEY: Used to clear previously added weights.(LED Type)
- BACK LIGHT ON/OFF key.(LCD Type)
- SUM KEY: Used to add weights.(LED Type)

If you press SUM key, it will be showed the accumulated value, and then it will moved to WEIGHING MODE a few seconds later.

2. Remote Control Specification

AVAILABLE DISTANCE	6m x 10m
AVAILABLE ANGLE	60°
POWER	3V(1.5V AMM x 2)



WARNING: Do not install CASTON-I in a place with high voltage and excessive electrical noises.

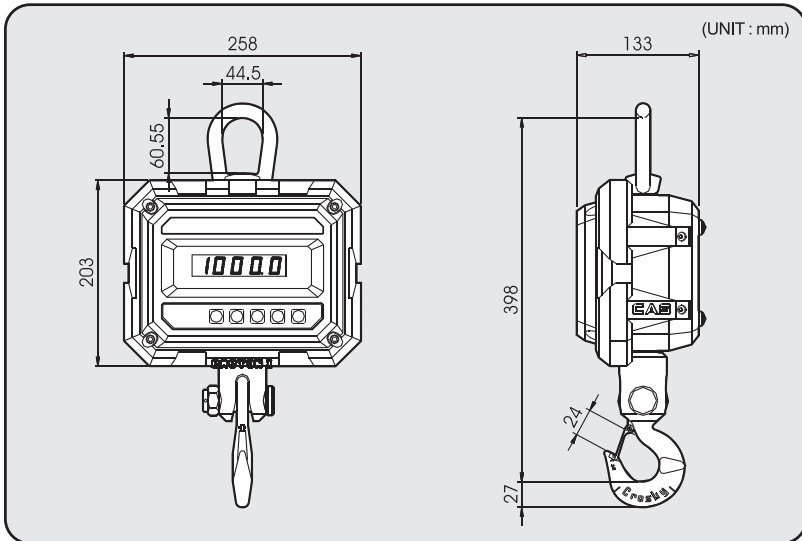
SPECIFICATIONS

MODEL		CASTON I
Display	LED Type	5 digit LED(Char. size 0.8inch)
	LCD Type	5 digit LCD(Char. size 1inch)
Display Lamp	LED Type	POWER, CHARGE, LOW BAT, ZERO, NET, HOLD
	LCD Type	POWER, CHARGE, BAT, STABLE, ZERO, NET, HOLD
Temperature Range		- 10°C ~ + 40°C
Function	Standard	ON/OFF, ZERO, TARE, HOLD
	Option	Remote control
Max. Tare Weight Range		Maximum Capacity
Zero Range		Within $\pm 2\%$ Weight of maximum capacity
Initial Zero Range		Within $\pm 10\%$ Weight of maximum capacity
Battery Life Time	LED Type	Approx. 58 ~ 75hours
	LCD Type	Approx. 150hours(With using Back-light:Approx. 55hours)
Adaptor	Operating Power	DC 12V, 1500mA
	Power Source	110 / 220V AC, 50 / 60Hz
Power Consumption	LED Type	1.2W
	LCD Type	0.5W



PRODUCT SIZE

PRODUCT SIZE



MODEL	CAPACITY	GRADUATION	PRODUCT WEIGHT
0.1THA	100kg	0.05kg	6.6 ~ 7.0kg
0.2THA	200kg	0.1kg	
0.3THA	300kg	0.1kg	
0.5THA	500kg	0.2kg	
1THA	1000kg	0.5kg	
2THA	2000kg	1kg	



WARNING: Do not stand under the scale while weighing the load, and you should be careful to provide against a safety accident.

ERROR MESSAGE

CH 01

- Reason: Internal RAM is erased.
- Trouble shooting: Please request A/S to head office.

CH 02

- Reason: Load cell connection failure or error in A/D conversion part.
- Trouble shooting: Please request A/S to head office.

CH 03

- Reason: The Zero range exceed from 10% of Max.
- Trouble shooting: Check that there is nothing on the hook.

Over

- Reason: The display weight is larger than the Maximum capacity you've set.
- Trouble shooting: Don't load the article whose weight is larger than the Max. Capacity on the platform. This may damage Load Cell.

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



MEMO







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