

Crane Scale

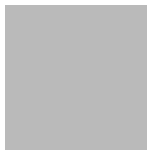
NC Series

OWNER'S MANUAL



9002-NC0-0033-1

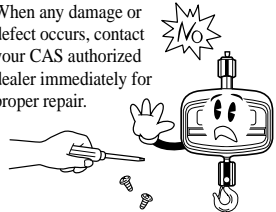
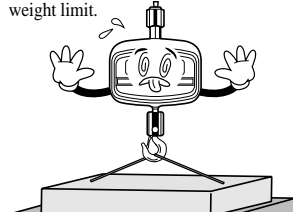
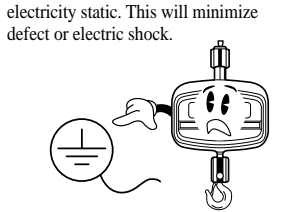
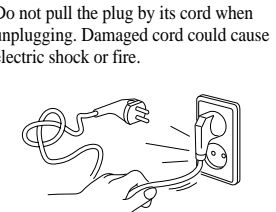
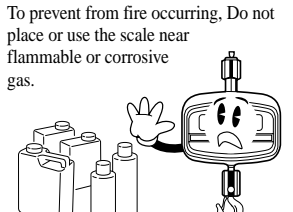
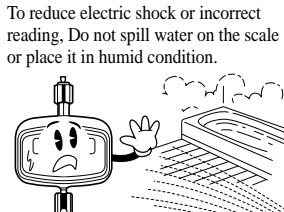
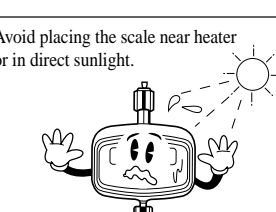
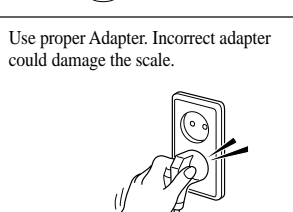
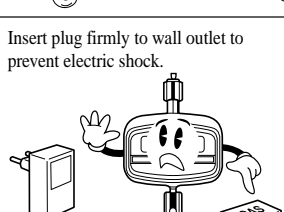
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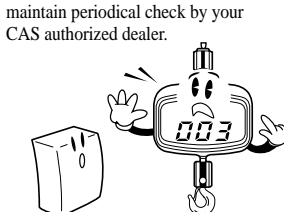
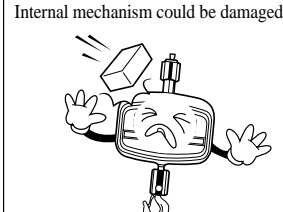
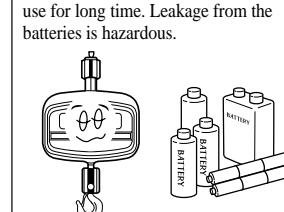
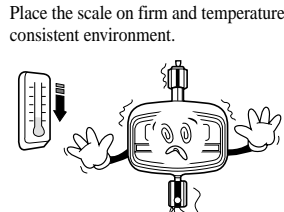
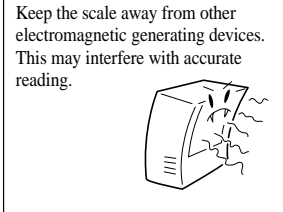
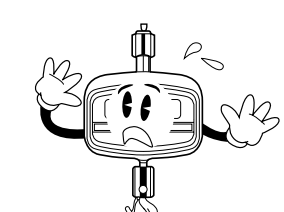


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PRECAUTIONS

⚠ Warning		
<p>Do not disassemble the scale. When any damage or defect occurs, contact your CAS authorized dealer immediately for proper repair.</p> 	<p>Do not overload beyond the maximum weight limit.</p> 	<p>Scale must be grounded to minimize electricity static. This will minimize defect or electric shock.</p> 
<p>Do not pull the plug by its cord when unplugging. Damaged cord could cause electric shock or fire.</p> 	<p>To prevent from fire occurring. Do not place or use the scale near flammable or corrosive gas.</p> 	<p>To reduce electric shock or incorrect reading. Do not spill water on the scale or place it in humid condition.</p> 
<p>Avoid placing the scale near heater or in direct sunlight.</p> 	<p>Use proper Adapter. Incorrect adapter could damage the scale.</p> 	<p>Insert plug firmly to wall outlet to prevent electric shock.</p> 

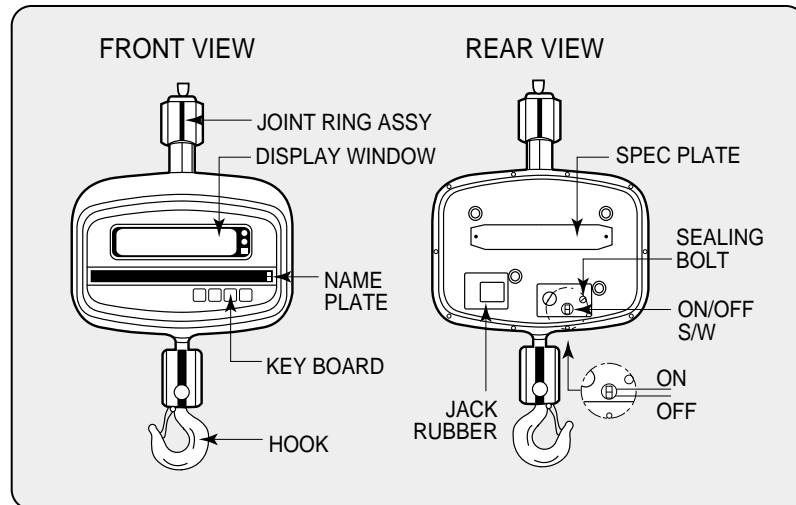
⚠ Attention		
<p>For consistent and accurate reading, maintain periodical check by your CAS authorized dealer.</p> 	<p>Avoid sudden shock to the scale. Internal mechanism could be damaged.</p> 	<p>Take the battery out when scale is not in use for long time. Leakage from the batteries is hazardous.</p> 
<p>Place the scale on firm and temperature consistent environment.</p> 	<p>Keep the scale away from other electromagnetic generating devices. This may interfere with accurate reading.</p> 	

PREFACE

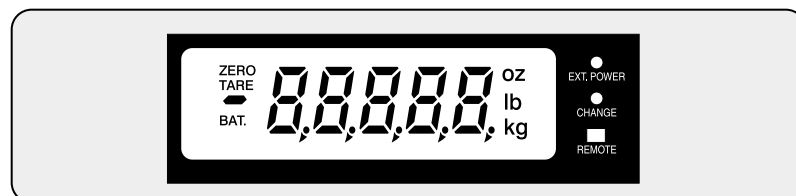
Thank you for purchasing our CAS NC SERIES. These series have been designed with CAS reliability, under rigid quality control and with outstanding performance. Your specialty departments can enjoy these high quality reliable CAS products. We believe that your needs will be satisfied and you will have proper reliability. This manual will help you with proper operation and care of the CASTON II. Please keep it handy for future reference.

NAMES AND FUNCTIONS

1. OVERALL VIEW



2. DISPLAY



- **ZERO LAMP** : It shows zero state. When the scale is loaded, the lamp will be turned off.
- **TARE LAMP** : It is lit when the tare weight entered.
- **BAT. LAMP** : It is lit when battery needs to be exchanged.
- **EXTERNAL POWER OPERATION LAMP** : It is lit when DC 12V adaptor supplies power to scale.
- **RECHARGE END LAMP** : It is lit when being recharged and turn off when recharge finishes.

3. KEY FUNCTIONS

KEYS	FUNCTIONS
	Turns power on or off.
	Zero the scale when the zero point is drifted.
	Subtracts tare weight gross weight.
	Select kg or lb. (Capture and display weight)

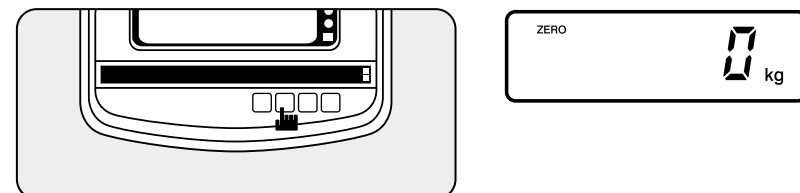
OPERATIONS

1. POWER ON

- Press "ON/OFF" key.

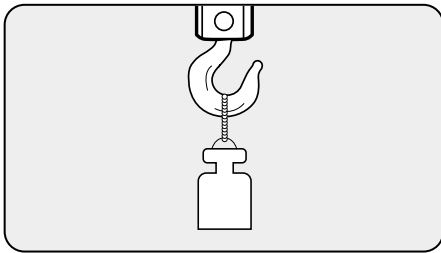
2. ZERO OPERATION

- Press "ZERO" key when the zero point is drifted.

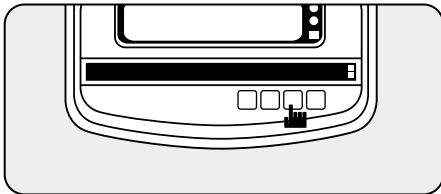


3. TARE OPERATION

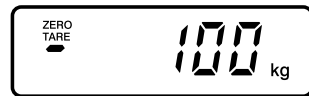
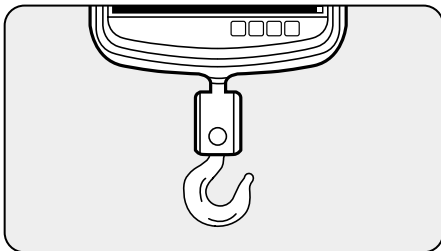
- Load tare on the hook.



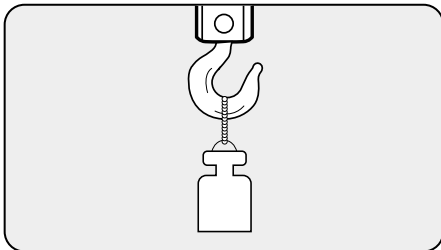
- Press "TARE" key.
"0" is displayed, and the tare is subtracted.



- Remove tare on the hook.

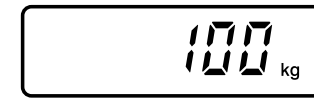
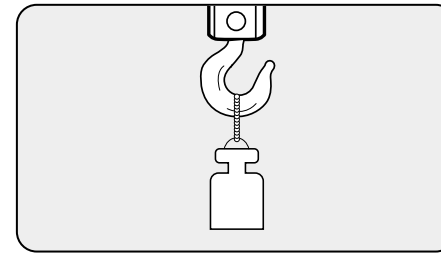


- Press "TARE" key.
The tare weight is cleared appears in the display window.

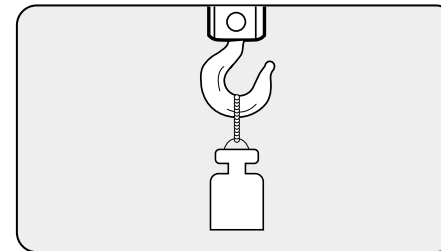


4. UNIT CONVERSIONS

- Place an item to be weight on the hook. (GRAM MODE)

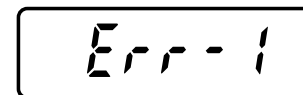


- Remove weight on the hook.
- Press "kg/lb" key. (POUND MODE)
- Place an item to be weight on the hook.



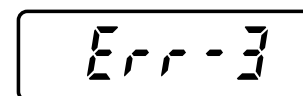
ERROR MESSAGES

1. ERROR 1



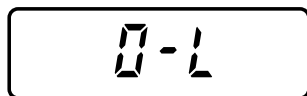
Over-range error of an initial zero.
Make the hook empty.

2. ERROR 3



The scale needs calibration.

3. OVER LOAD



When a load is over the limit weight of a scale.

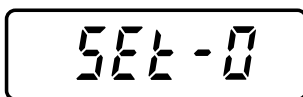
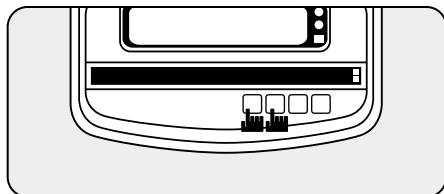
LIMIT WEIGHT=CAPACITY+6D

4. ERROR BEEP

- When pressing "ZERO" key while TARE is used.
- When pressing "ZERO" or "TARE" key while a scale is not stable.
- When pressing "ZERO" key while ZERO RANGE OVER happens.

THE PROGRAMS

- Turn power on pressing "ZERO" key.

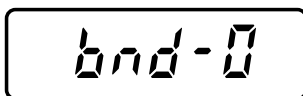


is displayed.

- Press "kg/lb" (HOLD)key.

1. TO SELECT MOTION BAND

MOTION BAND IS THE RANGE THAT MAKES A SCALE HANDLE AN UNSTABLE WEIGHT AS A STABLE WEIGHT IN.



is displayed.

- To increase the number, press "ZERO" key.
- To set this entry and go to the next, press "kg/lb"(HOLD) key.



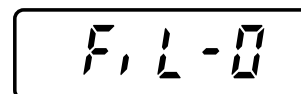
(See TABLE 1)

0	1D
1	5D
2	10D

<TABLE 1 >
(* D=INTERVAL)

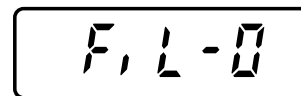
2. TO SELECT DIGITAL FILTER

DIGITAL FILTER IS THE FUNCTION THAT MAKES DISPLAY SPEED FASTER OR SLOWER ON THE USING CONDITION. THE HIGHER VALUE IS THE LOWER SPEED.



is displayed.

- To increase the number, press "ZERO" key.
- To set this entry and go to the next, press "kg/lb"(HOLD) key.



(See TABLE 2)

0	NONE
1	FASTER ▲ ▼ SLOWER
7	SLOWER

<TABLE 2 >

3. TO SELECT AUTO-POWER OFF INTERVAL

AUTO POWER OFF IS THE FUNCTION THAT MAKES POWER DOWN WHEN A SCALE IS NOT OPERATED BY USER TO SAVE BATTERY POWER.



is displayed.

- To increase the number, press "ZERO" key.
- To set this entry and go to the next, press "kg/lb"(HOLD) key.



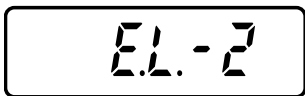
(See TABLE 3)

0	NONE
1	3 min
2	6 min
3	9 min

<TABLE 3>

4. TO SET E.L. ON OR OFF

E.L. BACK LIGHT IS THE FUNCTION THAT MAKES THE DISPLAY PANEL VISIBLE IN THE DARK BY LIGHTING ELECTRIC LUMINANCE DEVICE.



(See TABLE 3)

0	OFF always
1	ON weighing and stable
2	ON weighing
3	ON always

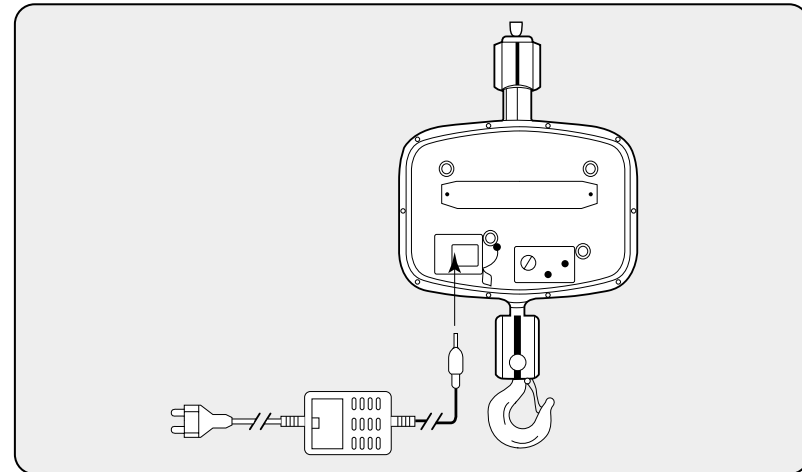
<TABLE 4>

- Press "kg/lb"(HOLD) key.
The scale returns to NORMAL MODE.

BATTERY OPERATION

1. CHARGE

- The rechargeable battery located inside the NC-series scale must be charged using the voltage which don't exceed $\pm 10\%$ of the voltage indicated on the adapter.
- If the voltage for charge exceed the above limit, the battery would be damaged.
- Check if an output voltage is DC 12V 1.5A.
- Remove ADAPTOR JACK COVER of REAR PANEL and connect adaptor with an scale like the following figure.



- When an adaptor is linked with an scale, RED LAMP and GREEN LAMP are ON.
- Charging method.
 - ① Quick charge : Charge the battery until the green lamp is ON.
(Quick charging time : approximately 2 hours)
 - ② Standard charging method : Charge the battery for about 6 hours after the green lamp is ON.

* Note : If you use the quick charge, the battery is not charged fully.
(charged to the 70% of full charge)
To charge fully, use the standard charge.

2. BATTERY OPERATING TIME

- The discharge time is dependent on the charging method and power source.
- In generally, if you use the battery continuously, the discharge time is as follows.
 - ① with E.L. → 16~22 hours.
 - ② without E.L. → 37~50 hours.
- Caused by repeated use, the discharge time can be decreased.
- If the scale is not used for long time after charging the battery, the discharge time is decreased. To restore the discharge time, repeat the procedure of charge and discharge(if battery is discharged the "BAT" lamp on the LCD will be displayed) for 2 or 3 times.

3. LOW BATTERY("BAT.") SIGNAL

- To protect over-discharge of BATTERY, "BAT" LAMP is lit when battery has to be charged.
- A scale turns power off automatically an fixed period after "BAT" is ON.

REMOTE CONTROL

1. REMOTE CONTROLLER OPERATION

- "ON/OFF" key : Power ON/OFF.
- "ZERO" key : Make the scale stable to "0" while the zero point is drifted.
- "TARE" key : Store the tare weight.
- "kg/lb" key : Select kg or lb mode.
- "HOLD" key : Capture and display weight.
- OPERATION LAMP : Blinks once when keys are pressed.

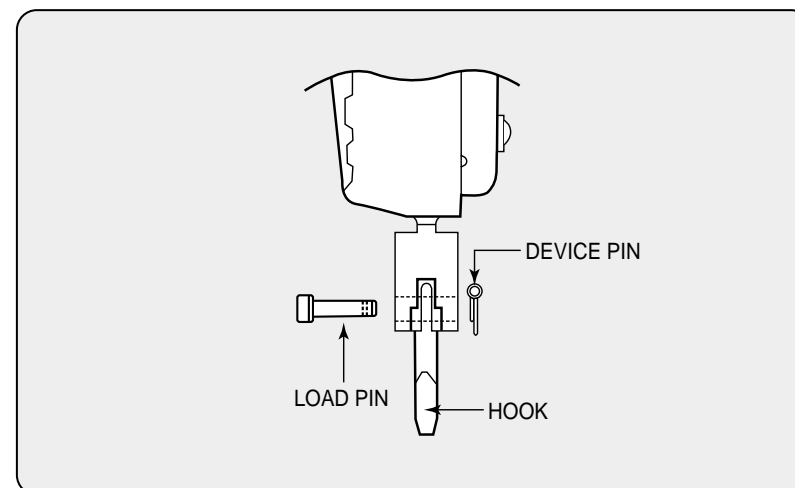
2. REPLACING BATTERY IN REMOTE CONTROLLER

- BATTERY SPEC.
 - ① VOLTAGE : 1.5V ×2
 - ② SIZE : AA SIZE (14.5 ×50.5 m/m)
 - ③ BATTERY

■ NOTE ON REPLACING BATTERIES.

- ① Place batteries in correct polarity(+)(-)direction.
- ② Do not use new batteries with the used.

ASSEMBLE AND DISASSEMBLY



SPECIFICATIONS

MODEL	NC-100	NC-200	NC-500	NC-1		
MAXIMUM CAPACITY	100 kg (200 lb)	200 kg (400 lb)	500 kg (1250 lb)	100 lb (40kg)	250 lb (125kg)	1000 lb (400kg)
INTERVAL	0.05kg (0.02lb)	0.1kg (0.2lb)	0.2kg (0.5lb)	0.05lb (0.02kg)	0.1 lb (0.05kg)	0.5lb (0.2kg)
FUNCTION	ON/OFF, TARE, ZERO, kg/lb CONVERTING(HOLD)					
DISPLAY COLUMN	5 DIGIT					
DISPLAY TYPE	L.C.D TYPE					
DISPLAY DESIGNATORS	ZERO, TARE, BAT.					
MAX TARE	FULL TARE					
WEIGHING TYPE	LOAD CELL TYPE					
OPERATING TEMPERATURE	-10°C ~ +40°C					
OPERATING POWER	DC 12V (1.5A)					
POWER SOURCE	AC 110/120/220/240 V, 50/60Hz					
POWER CONSUMPTION	0.25W					
NET WEIGHT	5.5 kg					

► Notice: The Specifications subject to change for improvement without notice.

MEMO



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