



**DIGITAL HANGING SCALE
BATTERY OPERATED
HSDC SERIES
Operation Manual**

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INTRODUCTION

Congratulations on selecting a Cardinal Series HSDC digital hanging scale. This precision weighing instrument is designed to provide years of trouble-free operation while maintaining a high degree of weighing accuracy. This manual contains information on the proper care and use of this instrument.

Serial Number _____
 Date Of Purchase _____
 Purchased From _____



Before using the instrument, read this manual and pay special attention to all "Warning" Symbols.

Retain This Information For Future Use

NOTICE

WARNING! This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, the user is encouraged to try to correct the interference by one or more of the following measures:

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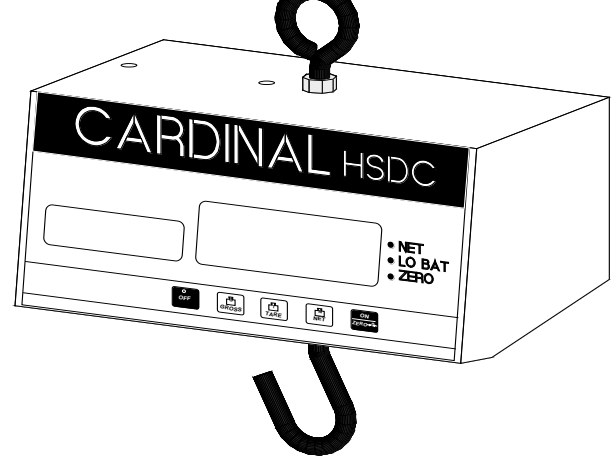
1. Reorient the receiving antenna.
2. Relocate the instrument with respect to the receiver.
3. Move the instrument away from the receiver.
4. Plug the instrument into a different outlet so that the instrument and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing.

SPECIFICATIONS

Capacity see table
 Graduation size see table
 Tare/Rezero capacity 4% or 100% of scale capacity
 Operating temperature ... -10° to +40°C, 14° to 104°F
 Storage temperature -10° to +60°C, 14° to 140°F
 Display type 4 digit, 1" high LCD
 Battery requirements 6 each "C" size alkaline
 Weight 5 lb

Model	Capacity	Graduation
HSDC-200	200 lb	200 x 0.1 lb
HSDC-100	100 lb	99.95 x 0.05 lb
HSDC-50	50 lb	50 x 0.02 lb
HSDC-20	20 lb	20 x 0.01 lb
HSDC-500	500 lb	500 x 0.2 lb
HSDC-100KG	100 kg	99.95 x 0.05 kg
HSDC-50KG	50 kg	50 x 0.02 kg
HSDC-20KG	20 kg	20 x 0.01 kg



BATTERY INSTALLATION

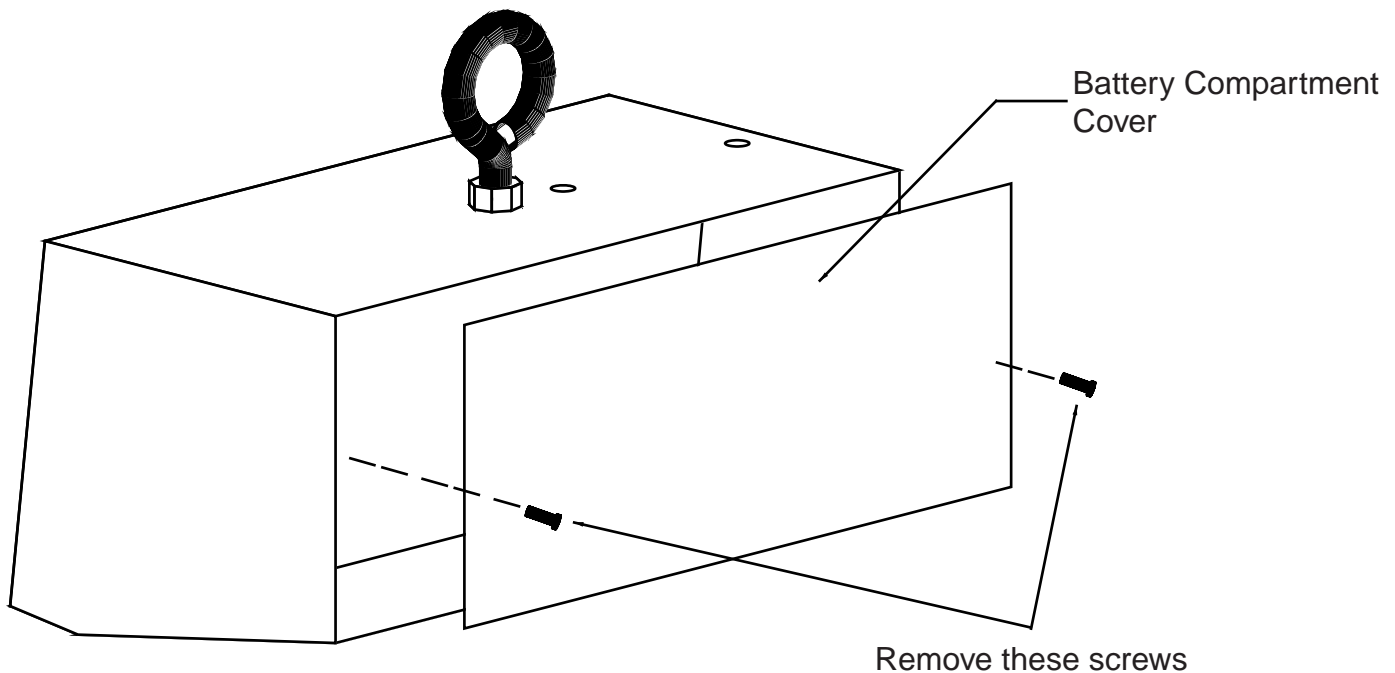
Before weighing operations can begin it will be necessary to install the batteries in the HSDC hanging scale. This same procedure should also be followed when battery replacement becomes necessary. Make certain that only "C" size alkaline batteries are used as replacements.



NOTE! Exposure of batteries to high temperatures (above 140° F) will decrease their capacity resulting in shorter operation time.

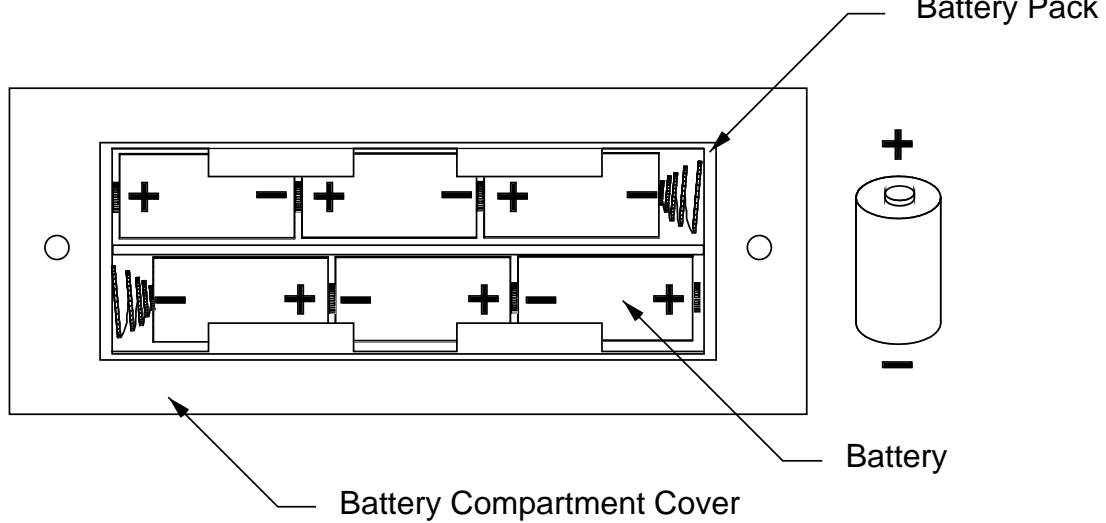
Step 1

Using a screwdriver, remove the two retaining screws from the back of the instrument. Remove the battery compartment cover.



Step 2

Remove the old batteries, if present. Insert six new "C" cells making certain that each cell is correctly positioned. Refer to the next diagram for proper battery placement.



Step 3

Replace the battery compartment cover and retaining screws.



NOTE! If the HSDC scale fails to operate after battery replacement check to make certain that each of the six cells has been installed correctly. One cell installed backward will prevent the scale from operating.

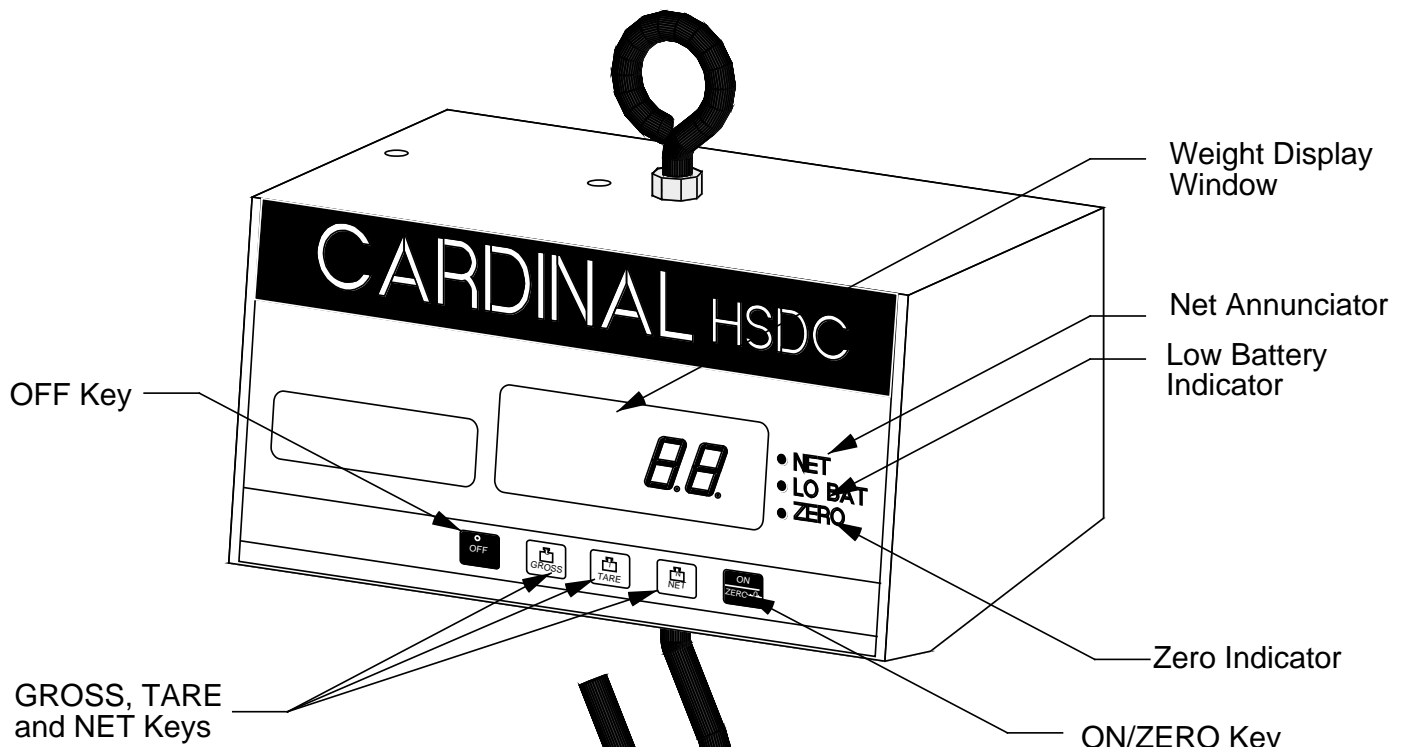
SCALE OPERATION

Before weighing operations can begin it will be necessary to install batteries in the scale. Refer to the battery installation section of this manual for additional information.

Hang the scale from a support that is strong enough to support the weight of the scale PLUS the weight of the material that is to be weighed.

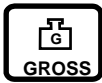
Hang the load receiving element on the hook on the bottom of the scale and press the **ON/ZERO** key. Look at the weight display. If the display does not indicate zero weight, press the **ON/ZERO** key again to reset the display to zero.

Place the material to be weighed in the receiving element and read the weight in the scale display. Refer to the figure below for the identification of scale components:





Press to turn the scale off. The auto-shutoff feature will turn the scale off automatically after a preselected time of inactivity (no motion).



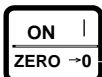
Press to place the scale in the gross weight display mode (net indicator off).



Press to enter a new tare weight value equal to the current scale weight. The scale will automatically enter the net weight display mode (net indicator on).



Press to enter the net weight display mode without entering a new tare weight value (net annunciator on).



Press to turn the scale on. If on, press to zero the weight display up to the preset zero limit (4% or 100% of the scale capacity).



The membrane keyboard is not to be operated with pointed objects (pencils, pens, fingernails, etc). Damage to keyboard resulting from this practice will NOT be covered under warranty.

Annunciators

- **NET** Illuminated to indicate the scale is in the net weight mode. If it is off, it indicates that the scale is in the gross weight mode.
- **LO BAT** Illuminated to signal that the batteries should be replaced.
- **ZERO** Illuminated to show that the scale weight is within 1/4 graduation of the center of zero.

TARE WEIGHT ENTRY

The HSDC has an automatic tare feature that allows you to enter tare weight up to the three least significant digits of the scale capacity. This tare weight feature is often used to subtract the empty container weight or other unwanted fixed weight values from the weight reading. See the **PUSH BUTTON TARE** setup mode section to activate this feature.

The following table lists the maximum tare weight allowed for each model of the HSDC scale.

<u>MODEL</u>	<u>CAPACITY</u>	<u>MAXIMUM TARE WT</u>
HSDC-500	500 lb X 0.2 lb	99.8 lb
HSDC-200	200 lb x 0.1 lb	99.9 lb
HSDC-100	99.95 lb x 0.05 lb	9.95 lb
HSDC-50	50 lb x 0.02 lb	9.98 lb
HSDC-20	20 lb x 0.01 lb	9.99 lb
HSDC-100KG	99.95 kg x 0.05 kg	9.95 kg
HSDC-50KG	50 kg x 0.02 kg	9.98 kg
HSDC-20KG	20 kg x 0.01 kg	9.99 kg