



Model DS4050 Infant Scale

Instruction Manual

Doran Scales, Inc.
1315 Paramount Pkwy
Batavia, IL 60510 USA
1-800-264-4107
www.doranscales.com
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Section 1. Unpacking and Installation

Introduction

Thank you for purchasing a Doran scale. This product has been designed with the highest level of technology. We are dedicated to deliver a superior product that will provide many years of trouble free service.

As an ISO9000 registered company, Doran Scales is dedicated to delivering products built with strict compliance to our high quality standards. If you have any questions regarding your scale, please contact Doran Scales, Inc.

Unpacking

Carefully remove the scale from the shipping carton. If you notice any shipping damage, notify the shipper immediately. Be sure to retain all shipping materials in case the scale must be shipped elsewhere.

Cautions and Warnings

Your new scale is a durable industrial grade product, but it is also a sensitive weighing instrument. Normal care should be taken when handling and using this product. Improper handling or abuse can damage the scale and result in costly repairs that may not be covered by the warranty. Please observe the following precautions to insure years of trouble free service from your new scale.

- Do not use sharp objects to press any of the buttons.
- Do not use the scale if the scale is damaged in any way.
- Do not leave patients unattended on the scale.
- Do not exceed the scale capacity.
- Do not drop the scale.
- Do not drop objects on the scale.
- When transporting, do not hit other objects, walls or doorframes with the scale.

Care & Cleaning

With reasonable care, this product will last for many years. Here are some tips to care for your scale. Failure to comply with these guidelines may void the warranty.

- Hand clean the scale with a moist cloth.
- Only clean with a mild detergent.
- Do not get water inside the scale.
- Do not use strong solvents or abrasive cleaners as this can damage the touch panel or other plastic parts.
- Do not immerse.
- Examine the scale periodically for damage and wear and tear before use.
- Remove batteries during long periods of non-use.

Installation

Place the scale on a stable flat surface. The scale should rest evenly on all four feet.

Battery Installation

The DS4050 comes with a set of four AA alkaline batteries. Automatic Shutoff ensures long batter life.

The batteries can be accessed on the bottom of the scale. To access the battery compartment, turn the scale upside down and open the battery compartment door. When installing the new set of batteries, be sure the batteries are oriented properly.

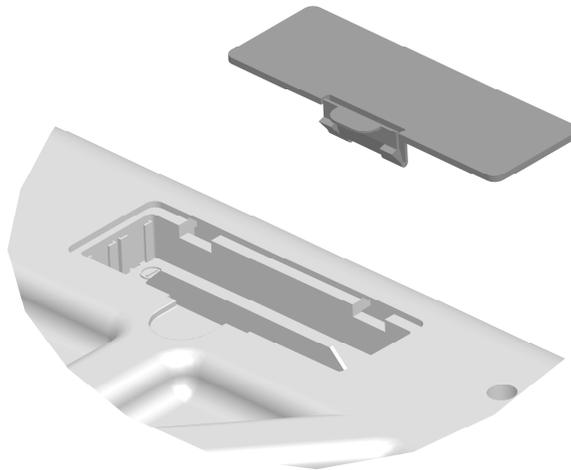


Fig. 1 Battery Door

Section 2. Scale Operation

Display Pushbuttons

The Model DS4050 controls consist of ON/TARE, LB/KG and RECALL buttons. The display is used to provide weight indications and operator messages indicating scale operation.

ON/TARE

Press the ON/TARE button to turn on the scale. The scale has an Automatic Shutoff Timer that will power down the indicator after 5 minutes.

The ON/TARE button can be held to turn off the scale.

When the ON/TARE button is pressed while the scale is on, the display will be reset to zero weight. This feature can be used to zero out any weight not desired to be part of the patient weight.

LB/KG

Press the LB/KG button to switch the displayed weight units between pound-ounce and kilograms.

RECALL

Displays the last patient weight. The last weight is available as long as the scale remains on but is replaced with next patient weight when next used. It is also cleared when the scale powers off.

Display Annunciators

The display annunciators will indicate the scale status.

zero

Indicates that the scale has an accurate zero reading.

M

Indicates a weight is now held in memory. The RECALL button can now be used to display this value after the patient has been removed from the scale. Weights below 2lb 0.3oz will not be held in memory.

H

Indicates a stable weight has been achieved.

lb oz

Indicates that the scale is displaying weight in pounds and ounces.

kg

Indicates that the scale is displaying weight in kilograms.

Weighing a Patient

1. Press ON/TARE. The scale will turn on and display a zero weight.
2. Place the patient on the scale.
3. When a stable weight is reached the **H** and **M** annunciators will be displayed. The **H** indicates that the patient's weight is stable and **M** indicates that the weight has been saved to memory.
4. Record the patient's weight and remove the patient from the scale. The RECALL button can then be used to display the last weight.
5. The scale will automatically turn off after 5 minutes or the ON/TARE button can be held to turn off the scale.

Zero Operation

1. Place the item to be zeroed on the scale platform.
2. Press ON/TARE. The scale will turn on and display a zero weight. If the item is removed, a negative weight will be displayed.
Note: Each time the scale is powered up, the zero point is reset.
3. Place the patient on the scale and the patient's weight, less the item's weight, will be displayed.

OR

1. With the scale on, press ON/TARE.
2. The display will zero when the scale stabilizes.

RECALL Operation

With the patient off the scale, press the RECALL button to display the last patient's weight. Only weights of 2lb 3.0oz or higher will be held in memory.

Section 3. Scale Calibration

WARNING: Your scale is factory calibrated and does not require calibration when received. If required, it should only be calibrated by a scale technician with certified and inspected weights.

1. Turn off the scale and remove all weight.
2. Press and hold the LB/KG button and then press and hold the ON/TARE button.
3. When **CAL** is displayed, release both buttons.
4. Numbers will be displayed.
5. Press the ON/TARE button.
6. The number 20 will flash on the display.
7. Add 20 lbs to the scale and press the ON/TARE button.
8. The number 40 will flash on the display.
9. Add an additional 20 lbs (total of 40 lbs now on the scale) and press the ON/TARE button.
10. After calibration is accepted, the scale will automatically turn off.
11. Remove all weight from the scale and press the ON/TARE button to turn on.
The scale is now ready for use.

Calibration Tips

- Ensure the scale is on a flat and level surface.
- Ensure that all four feet are in contact with the surface.
- Do not place on carpet.
- Ensure the scale is free from vibration and air currents.
- Remove any weight from the scale prior to calibration.
- Ensure that the batteries are not low.
- Ensure that the scale is not in contact with surrounding objects.
- Use certified (calibrated) weights.
- Place weights in the center of the scale during calibration.

Section 4. Specifications

Scale Dimensions	23.5" Long x 11" Wide
Scale Weight	5.25 lb (2.5 kg)
Power	4 AA Alkaline Batteries (included) 6Vdc Wall Transformer (included)
Displayed Units	lb:oz, kg
Capacity	45 lb x 0.5 oz 20 kg x 0.01 kg
Environmental - Operating Temperature - Storage Temperature - Humidity	50 to 104°F (10 to 40°C) -4 to 140°F (-20 to 60°C) <80% relative humidity

Section 5. Troubleshooting

General Problem Resolution

Problem	What to Do or Check
Weight reading will not repeat or scale does not return to zero when weight is removed.	Person or object other than that being weighed is touching the scale. Verify that there is nothing caught in the feet area or interfering with the feet. Do not use on carpet.
Scale overloads before scale capacity is reached.	Verify scale calibration is correct. If problem persists, recalibrate the scale.
Scale will not come to zero when the ZERO button is pressed.	Make sure that the scale is stabilizing. After pressing the ZERO button, the scale should zero as soon as it becomes stable.
Weight readings are not correct.	Verify the scale calibration with an accurate test weight. If the readings are not correct, recalibrate. Be sure the platform is on a flat surface and all four feet are touching the surface.
Scale drifts off zero.	Check for air currents and/or vibration around the scale.
Scale shuts itself off or will not turn on.	Press the ON/TARE button to turn on the indicator. Check that new batteries are installed properly in the battery tray.

Error Messages

Error Message	What to Do or Check
Lo	Low battery. Replace batteries.
o_Ld	The scale is in overload. The load on the scale platform exceeds the scale capacity. Remove excess weight from scale platform. If problem persists, recalibrate. If this problem still persists, contact Doran Technical Support for assistance.
Err	RECALL pressed without a weight held in memory. To store a weight in memory, 2lb 3.0oz or higher must be applied to the scale. Weights below this value will not be held in memory.

Limited One Year Warranty

Doran Scales, Inc. warrants Model DS4050 to be free from defects in material and workmanship for a period of one (1) year from date of shipment. Any product found to be defective within this time period may be returned to Doran's factory, freight prepaid, with prior return authorization and proof of purchase showing date of original sale, for repair or replacement at no charge.

Doran's liability under this warranty is limited to the repair or replacement of the defective product and in no event shall Doran Scales, Inc. be liable for consequential or indirect damages to equipment or personnel. Nor shall Doran Scales, Inc. be liable for damages to equipment or for personal injury caused by misuse, overload, accidental damage, alteration, improper installation, or unauthorized opening of the equipment. Under no circumstances will Doran Scales, Inc. be responsible for any indirect or consequential damages due to errors in weighing or failure of a Doran Scales, Inc. product to perform properly.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. THIS WARRANTY CONSTITUTES DORAN'S EXCLUSIVE WARRANTY. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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