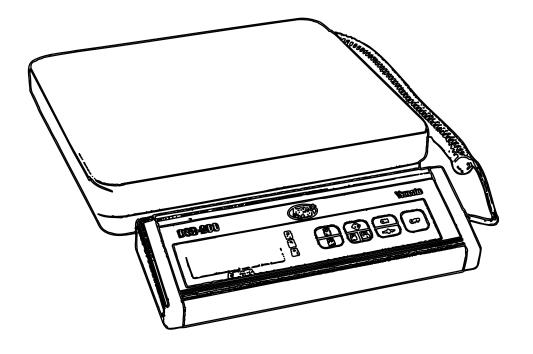
# **Operation Manual**





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## **Operation Manual**

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#### SAFETY INSTRUCTIONS

Before using the scale, carefully read, understand, and follow the "Safety Instructions" described in this manual. Observe the advice given in the "Operations" section to ensure proper operation. Keep this operation manual handy for reference.

- This scale is not an explosion-proof model. Do not use the scale in an atmosphere containing flammable gases or explosive fumes. A fire or an explosion can result.
- Do not operate the scale if there is smoke or a burnt smell coming from the scale. Remove the batteries or unplug the AC adaptor immediately. After making sure that there is no danger, consult your dealer. Never try to repair the scale by yourself.
- Never step on or sit on the scale. Not only will the scale be damaged, but you may also be injured.

  Place the item to be weighed in the center of the platform. Items placed on the edge of the platform may fall off and cause injury.
- When weighing a heavy, large or unbalanced item, make sure the item is stable on the platform, otherwise, an accident may occur.
- When carrying or moving the scale, be sure to hold it by the bottom of the base with both hands. If you hold it by the platform, the platform or the platform support may become detached causing the scale to fall. This will damage the scale. The platform is designed for easy removal and clean-up.
- Do not insert your finger into the gap or holes in the scale. You may be injured.
- The DSR-200 uses a liquid crystal display. If the LCD breaks and the liquid leaks from the LCD, do not touch it with your fingers. The liquid is toxic if ingested. Be especially careful around small children.

#### To prevent damage to the scale

- Do not push the indicator or keys with sharp objects. They may break or puncture the switch membrane panel.

  Use the specified power supply and choose a suitable environment. If you do not, the weight readings may be inaccurate and the scale may be damaged.

  The scale is a sensitive weighing instrument, avoid physical shocks. If you drop something on the scale, step on the platform, or drop it, the scale may be damaged and lose
- If the scale becomes dirty, wipe it with a soft cloth. For stubborn stains, apply a little neutral detergent and then wipe the scale with a dry cloth. Do not use thinner, benzene, hot water, or chemical agents, all of which can cause deformation, discoloration, or deterioration of the scale.
- Never remove the case. The fine adjustment section may be damaged and you may be injured by sharp edges on the internal parts.
- Do not place the scale upside down except when replacing the batteries
- When a low battery condition occurs, replace all of the batteries. When installing the batteries, install them according to the polarity markings in the case (+, -). If the scale will not be used for a long period, remove the batteries.

#### To keep the scale working efficiently

- Place the scale on a flat stable surface that will support the scale and the load.
- Do not place the scale in an area exposed to direct sunlight or to wind currents from an air conditioner, otherwise, the weights will not be accurate.
- Do not place the scale near machines that create vibrations or electromagnetic disturbance, such as microwave ovens, portable phones, or large motors. This will affect the accuracy.
- The operating temperature range is from -5°C to +35°C (23°F to 95°F). Do not subject the scale to sudden temperature changes; allow the scale to adjust to the new temperature
- This scale is not waterproof or dustproof. Do not expose the scale to splashing water. Do not install the scale in an extremely humid or dusty environment.
- If the scale is sealed, do not break the seal. If you break the seal, the scale will not be considered legal for trade. In this case, contact your dealer. Do not disassemble or modify the scale, you will void the warranty.

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### I Introduction

It only takes a few minutes to learn how to use your new Yamato scale. Please read the following instructions carefully. They will assist you in understanding the various controls and operation of the Yamato DSR-200.

## **II Specifications**

Weighing system: Strain-gauge load cell

Capacity: 200 lb x 0.2 lb, 100 kg x 0.1 kg

Taring Range: Full scale

Platform: 12" (304 mm) W x 12.25" (310 mm) D x 2.25" (57 mm) H, stain-

less steel

Weight display: Single face display Type: 7 segment LCD

Character size, etc.: 0.4" (11 mm) (W) x 0.9" (23 mm) (H), 4 digits

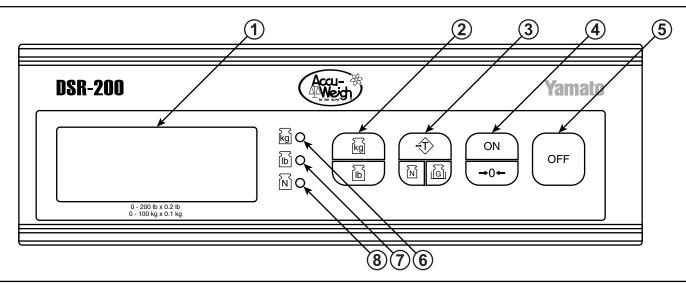
Power supply: 9V DC (the scale requires six "AA" size batteries) or AC input

(when using the AC adaptor.) \*

Operating temperature: 32°F to 104°F (0 C to 40 C)

## **III Operation**

### **III.A Control Panel**



LCD Display Displays weight reading and error messages.

2) Unit Selection Key Press to toggle between pound and kilogram indications.

3) TARE/NET/GROSS Key Tares off the weight on the scale platform and toggles between

gross and net weights.

4) ON/ZERO Key Turns the power on, and zeroes the display.

5) OFF Key Turns the power off.

Kilogram Mode Indicator Indicates the display is in kilograms.
 Pound Mode Indicator Indicates the display is in decimal pounds.

8) Net Weight Indicator Indicates a tare has been entered and the displayed weight is a

net weight.

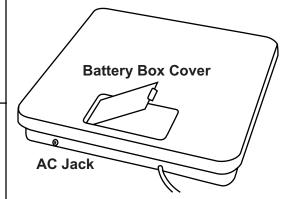
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## **III Operation**

#### III.B Power

The DSR-200 can use either six "AA" batteries or the included AC adapter. To use the AC adapter, connect the adapter plug into the jack on the same side of the DSR base as the indicator cord. Then plug the adapter into a standard 115V AC outlet.

To install batteries, remove the scale platform from the base, press in the battery box cover latching tab and lift the cover. Place six "AA" batteries into the battery box according to the polarity markings in the case (+, -). Replace the battery cover box and the scale platform.



## III.C Turning the Scale On and Off

Remove everything from the platform surface and press the key. The display will briefly display four eights. After approximately three seconds, the display will automatically set to zero.



Press the Grant key. The display will go off. The scale can be programmed to automatically shut off after being idle for two minutes, or the auto-off can be disabled. See the technical manual to change this feature.

## **III.D Low Battery Condition**

The low battery indication will appear when the batteries need to be replaced. Replace all batteries at the same time.



## III.E Zero the Display

The scale will automatically zero when turned on. If a value is displayed when the platform is empty, press the key to zero the display. The maximum zero range during power up is approximately full scale.

#### **III.F Unit Selection**

The DSR-200 has both decimal pound and kilogram display capability. The current mode of the scale is indicated by the LEDs between the LCD display and the keypad. To toggle between the two modes, press the ( key).

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III Operation					
III.G	Weighing				
	III.G.1 Gross Weighing				
1) Begi zero	n with no load on the scale and the display reading				
	e the item(s) to be weighed on the scale platform. veight displayed will be the gross weight.	127.3			
III.G.2 Net Weighing					
1) Begi zero	n with no load on the scale and the display reading				
the in weig the c	Place an empty container on the scale platform, wait for the indication to stabilize and press the weight of the container will automatically be deducted, the display will read zero and the Net Weight LED will light.	H.5E			
light.					
	e the item(s) to be weighed in the container. The ht displayed will be the net weight.	949			
4) To to	ggle between the net and gross weights, press the ey.				
	move the tare and return to gross weighing, remove ems from the platform and press the ্ৰাফ্ৰ key.				

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## **IV Troubleshooting and Error Messages**

Problem	Possible Cause	Solution
The display continues to show all 8s after the scale is turned on.	Vibration or an unstable position or platform.	Remove source of vibration or place scale on stable platform.
The scale will not power on.	AC adapter malfunction. Power board malfunction. CPU board malfunction.	Replace adapter. Replace power board. Replace CPU board.
The keyboard does not function.	Keyboard connector loose. Keyboard connector damaged. Keyboard damaged. CPU board malfunction.	Firmly insert connector. Replace connector. Replace keyboard. Replace CPU board.
The displayed weight fluctuates excessively.	Weighing assembly in contact with wires or case. Load cell connector loose or damaged. Power board malfunction. CPU board malfunction.	Reposition wires or case.  Reconnect or replace the load cell connector.  Replace power board.  Replace CPU board.