Model SR630i-KG Pediatric Scale

Operating and Service Manual

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PACKING CHECKLIST - Model SR630i-KG Pediatric Scale

<table>
<thead>
<tr>
<th>✓</th>
<th>DESCRIPTION</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SCALE BASE</td>
<td>1 ea</td>
</tr>
<tr>
<td></td>
<td>AC POWER SUPPLY</td>
<td>1 ea</td>
</tr>
<tr>
<td></td>
<td>RIGHT ANGLE ADAPTER FOR AC POWER SUPPLY</td>
<td>1 ea</td>
</tr>
<tr>
<td></td>
<td>PACKAGE OF SIX (6) D-CELL BATTERIES (INSTALLED)</td>
<td>6 ea</td>
</tr>
<tr>
<td></td>
<td>CALIBRATION CERTIFICATE</td>
<td>1 ea</td>
</tr>
<tr>
<td></td>
<td>WARRANTY CARD</td>
<td>1 ea</td>
</tr>
<tr>
<td></td>
<td>MANUAL</td>
<td>1 ea</td>
</tr>
</tbody>
</table>

Figure 1: Pediatric Scale Packing List
PACKING CHECKLIST - Model SR635i-KG
Pediatric Scale with Cart

<table>
<thead>
<tr>
<th>√</th>
<th>DESCRIPTION</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SCALE BASE</td>
<td>1 ea</td>
</tr>
<tr>
<td></td>
<td>AC POWER SUPPLY</td>
<td>1 ea</td>
</tr>
<tr>
<td></td>
<td>RIGHT ANGLE ADAPTER FOR AC POWER SUPPLY</td>
<td>1 ea</td>
</tr>
<tr>
<td></td>
<td>PACKAGE OF SIX (6) D-CELL BATTERIES (INSTALLED)</td>
<td>6 ea</td>
</tr>
<tr>
<td></td>
<td>CALIBRATION CERTIFICATE</td>
<td>1 ea</td>
</tr>
<tr>
<td></td>
<td>WARRANTY CARD</td>
<td>1 ea</td>
</tr>
<tr>
<td></td>
<td>MANUAL</td>
<td>1 ea</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SM9362 CART KIT- BOX MAY SHIP SEPARATE</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>INNER TUBE ASSEMBLY WITH CASTER</td>
<td>2 ea</td>
</tr>
<tr>
<td>INNER TUBE ASSEMBLY WITH LOCKING CASTER</td>
<td>2 ea</td>
</tr>
<tr>
<td>OUTER SPACER TUBE – 3”</td>
<td>4 ea</td>
</tr>
<tr>
<td>OUTER SPACER TUBE – 13”</td>
<td>4 ea</td>
</tr>
<tr>
<td>OUTER SPACER TUBE – 10.25”</td>
<td>4 ea</td>
</tr>
<tr>
<td>SHELF ASSEMBLY</td>
<td>2 ea</td>
</tr>
<tr>
<td>TOP MOUNTING PLATE</td>
<td>2 ea</td>
</tr>
<tr>
<td>¼-20 X 1” SOCKET BUTTON HEAD SCREW</td>
<td>8 ea</td>
</tr>
</tbody>
</table>

Figure 2: Pediatric Scale with Cart
Packing List
**SR630i-KG ASSEMBLY**

**STEP 1:** Unpack scale system and check parts against **PACKING CHECKLIST**. If there are any missing or damaged parts, please call Service Hotline 1-800-654-6360. Allow scale to acclimate to room temperature before use.

**STEP 2:** (Figure 3) Install the six (6) “D” cell batteries into the Battery Compartment on underside of scale. Attach the Battery Compartment Cover using the two (2) cover screws. Screw cover down securely to Scale Base.

If batteries shipped installed, leave battery cover installed and remove insulator strip (clear polyester strip extending from battery compartment).

**STEP 3:** (Figure 3) Place the Scale onto tabletop. Connect AC Power supply between scale and Wall Outlet (attach right angle adapter to power supply if scale is placed against a wall) and press “ZERO” button to activate scale.

![Figure 3: Battery Compartment Location](image-url)
SR635i-KG CART ASSEMBLY

STEP 1: Unpack scale system and check parts against PACKING CHECKLIST. If there are any missing or damaged parts, please call Service Hotline 1-800-654-6360. Allow scale to acclimate to room temperature before use.

STEP 2: Remove shipping washers from inner support tubes and discard (DO NOT DISCARD button head screws - used in Step 9)

STEP 3: Remove the 10.25" and 13" tubes from each inner support tube

STEP 4: Place one shelf over an inner support tube with a locking caster

STEP 5: Place one 13" tube over the inner support tube

STEP 6: Place one shelf over the inner support tube

STEP 7: Place one 10.25" tube over the inner support tube

STEP 8: Complete the next assembly on the same end using one inner support tube assembly with a caster

STEP 9: Secure the top plate to both inner support tubes using the 1/4-20 x 1" button head screws

STEP 10: Complete other side in the same manner making sure that both locking caster are in front

STEP 11: Make sure that all four screws are tight

NOTE: The additional four 1/4-20 x 1" button head screws are for mounting the Pediatric Scale to the cart

Figure 4: Cart Assembly
CART ASSEMBLY (Cont’d)

STEP 12: Remove the four feet from the corners of the scale (Figure 5). Retain feet if scale may again be used as table-top version.

STEP 13: (Figure 5 & Figure 3) Place the Scale on top of the cart, aligning threaded holes on underside of scale with the holes on the Top Plate. Ensure the Display is located to the back of the cart, on the opposite side of the locking casters (Figure 4). Attach scale using four (4) ¼-20 X 1” mounting screws.

REPLACEMENT PARTS and ACCESSORIES

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRGSM06U09P1J</td>
<td>AC POWER SUPPLY</td>
</tr>
<tr>
<td>FRDCPLUGP1JR</td>
<td>RIGHT ANGLE ADAPTER</td>
</tr>
<tr>
<td>FBM1012000</td>
<td>REPLACEMENT FOOT</td>
</tr>
<tr>
<td>SM9362</td>
<td>TRANSPORT CART (OPTIONAL)</td>
</tr>
</tbody>
</table>
SYSTEM DESCRIPTION and INTENDED USE

SYSTEM DESCRIPTION

The SR630i-KG Pediatric Scale employs the latest in microprocessor and load cell technology to provide accurate and repeatable weight data. Four (4) identically matched transducers are strategically placed to ensure an accurate representation of the child’s weight regardless of weight distribution.

The child’s weight is displayed in kilograms on a 16-character dot matrix LCD. The displayed resolution is 0.005 kg.

INTENDED USE

The SR630i-KG Pediatric Scale is designed for use in pediatric applications and is not intended as a patient transport device. Maximum weight capacity must not exceed 20 kilograms gross weight.

The cart included with the SR635i-KG Pediatric Scale is designed for moving the scale without a patient from one location to another. This is not intended as a patient transport device. Maximum weight capacity must not exceed 20 kilograms gross weight.

WARNING

DO NOT EXCEED MAXIMUM WEIGHT LIMIT OF 20 KG

WARNING

NEVER TRANSPORT A PATIENT ON THE PEDIATRIC SCALE

MICROBAN ANTIMICROBIAL PROTECTION

Microban® antimicrobial technology has been added to help reduce the growth of bacteria as part of a medical center’s approach to creating a cleaner healthcare environment. For more information, visit https://www.microban.com/sr-scales

STORAGE and TRANSPORTATION

If storing this equipment for periods longer than three (3) months, remove the batteries. To maintain proper operation of this instrument, storage and transport conditions should not vary outside the following conditions: Relative Humidity 0% to 85%, Ambient Temperature 14°F to 122°F (-10°C to +50°C).

Prior to use, allow scale to acclimate to room temperature.

The cart included with the SR635i-KG Pediatric Scale is designed for moving the scale without a patient from one location to another. This is not intended as a patient transport device. Maximum weight capacity must not exceed 20 kilograms gross weight.
MAINTENANCE and CLEANING

Exercise caution when cleaning the display window and pediatric cradle as both can be scratched by abrasive cleaners. Mild soap and water is recommended for general cleaning.

CLEANING

To clean the pediatric cradle and display / user interface:

- Use a soft cloth dampened with water and mild detergent to clean scale surfaces.
- Wipe surface with clean soft cloth dampened with water and then dry with clean soft cloth.
- Do not use abrasive materials to clean scale surface to prevent damage to the surface finish.
- Do not spray liquid directly onto scale surfaces. Use only a damp cloth.

DISINFECTION

To disinfect the pediatric cradle and display / user interface:

- Use a soft cloth dampened with disinfectant or a damp disposable disinfectant cloth. Cloth cannot be dripping wet. Follow manufacturer’s instruction on the proper use of commercially available disinfectants.
- Disinfectant solutions with 1% sodium hypochlorite or 70% isopropyl alcohol are suitable for display / user interface and other scale contact surfaces.
- After disinfecting, use a soft cloth dampened with clean water and dry with a soft clean cloth to prevent buildup of material on scale finish.
- Do not use abrasive material to disinfect / clean scale surfaces to prevent damage to the surface finish.
- Do not spray liquid directly onto scale surfaces. Use only a damp cloth.

WARNING: DO NOT SPRAY CLEANING SOLUTION OR LIQUIDS DIRECTLY ON SURFACES TO BE CLEANED

WARNING: EXPOSURE TO EXCESSIVE LIQUID WILL DAMAGE USER INTERFACE KEYPAD

WARNING: DO NOT USE PRESSURIZED WATER OR STEAM. THE SCALE SYSTEM CONTAINS ELECTRONIC COMPONENTS THAT MAY BE ADVERSELY AFFECTED BY EXPOSURE TO SUCH AN ENVIRONMENT.
# SPECIFICATIONS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MAXIMUM WEIGHT CAPACITY</strong></td>
<td>20 kg</td>
</tr>
<tr>
<td><strong>CRADLE SIZE</strong></td>
<td>29 1/2 in x 13 1/2 in (75 cm x 34 cm)</td>
</tr>
<tr>
<td><strong>DISPLAY TYPE</strong></td>
<td>16-Character Dot-Matrix LCD</td>
</tr>
<tr>
<td><strong>DISPLAY RESOLUTION</strong></td>
<td>0.005 kg</td>
</tr>
<tr>
<td><strong>ACCURACY</strong></td>
<td>0.1% +/- 1 digit of displayed resolution for calibration range</td>
</tr>
<tr>
<td><strong>AUTO ZERO</strong></td>
<td>One button operation</td>
</tr>
<tr>
<td><strong>AUTO POWER DOWN</strong></td>
<td>Approximately 30 seconds</td>
</tr>
<tr>
<td><strong>LAST WEIGHT RECALL</strong></td>
<td>Press “RECALL” button to recall last stored displayed reading</td>
</tr>
<tr>
<td><strong>AVERAGING</strong></td>
<td>Automatic digital filter</td>
</tr>
<tr>
<td><strong>POWER SUPPLY</strong></td>
<td>Six (6) “D” cell batteries</td>
</tr>
<tr>
<td></td>
<td>Medical Grade AC Wall Power Supply with adapter</td>
</tr>
<tr>
<td><strong>CALIBRATION</strong></td>
<td>Calibration is traceable to NIST standards</td>
</tr>
<tr>
<td><strong>OPERATING CONDITIONS</strong></td>
<td>Normal operating conditions for this product:</td>
</tr>
<tr>
<td></td>
<td>Ambient Temperature Range: 68°F to 85°F (20°C to 30°C)</td>
</tr>
<tr>
<td></td>
<td>Relative Humidity Range: 0% to 85%</td>
</tr>
<tr>
<td></td>
<td>Avoid exposure to high-pressure water or steam.</td>
</tr>
<tr>
<td><strong>TRANSPORTATION and STORAGE</strong></td>
<td>Storage and transportation conditions should not vary outside the following conditions: Relative Humidity 0% to 85%, Ambient Temperature 14°F to 122°F (-10°C to +50°C). Remove batteries if storing longer than three (3) months.</td>
</tr>
<tr>
<td></td>
<td>Prior to use, allow scale to acclimate to room temperature.</td>
</tr>
<tr>
<td></td>
<td>Never transport a patient on the scale. Cart is meant for scale transport only.</td>
</tr>
</tbody>
</table>
BUTTON FUNCTIONS

Figure 7: Button Display Label

ZERO

Press to zero. The display will read “0.000 Kg”. This is used to zero the system before placing the patient on the scale system. This action also resets previously stored weight values to zero. Ensure that nothing is in contact with the molded plastic cradle during this procedure.

SEND

“SEND” button requires additional set up.

Contact SR Instruments, Inc for further details.

RECALL

Press to recall the last stable weight.

ENTER

Press to save changes to “MENU” options.

WEIGH

Press “WEIGH” to begin new weigh cycle

Continued next page
BUTTON FUNCTIONS (Cont’d)

MENU

Press Menu to edit setup.

Setting **ON TIME**: Use **UP** or **DOWN** arrow buttons to adjust the “**ON TIME**”. The “**ON TIME**” may be set from 30 to 300 seconds in 30 second increments. Press **ENTER** to save changes.

Configuring scale output: Not available.

Setting **TIME** and **DATE**: Use the **UP** arrow button to select digit. To change digit use the **DOWN** arrow button. Press **ENTER** to save changes.

**NOTE**: When selected, the year position defaults to “00”

**UP**

Press **UP** to increase the scale’s “on time” or to select a digit when setting time and date.

**DOWN**

Press **DOWN** to decrease the scale’s “on time” or to change the value of a selected digit when setting time and date.

BASIC SYSTEM OPERATION

SETTING SYSTEM ZERO

Make sure the scale is free and clear of any obstructions or contact and press the “**ZERO**” button with all linens, pads, etc. in place and release.

Wait for the display to display “**0.000 Kg**”. This action also resets previously stored weight to zero.

**WARNING**

NEVER LEAVE CHILD UNATTENDED ON THE SCALE

**WARNING**

NEVER TRANSPORT A PATIENT ON THE PEDIATRIC SCALE

Continued next page
BASIC SYSTEM OPERATION (Cont’d)

WEIGHING

While the display is active, the scale will auto-weigh when the child is placed in the cradle. The weight stable indicator “” flashes then remains solid when stable. A stable weight will automatically be stored into memory.

To initiate a new weigh cycle, with the child still on scale, manually press the “WEIGH” button. Pressing the “WEIGH” button will clear the memory and take a new reading. Once a new stable weight is indicated, the weight will be stored in memory.

NOTE: If there are any accessories (blanket, diaper, etc.), place them on the scale before zeroing the system. This will ensure that the patient’s NET weight will be displayed. It is recommended that the system be zeroed prior to each new patient.

RECALLING LAST STABLE WEIGHT

Press the recall button will display the last stable weight. A recalled weight will be indicated by “RCL”; for example: “RCL WT 12.345 Kg”.

BATTERY REPLACEMENT

STEP 1: Display will read “REPLACE BATTERIES”.

STEP 2: (Figure 8) Locate Battery Compartment Cover on underside of scale and unscrew the two (2) cover screws.

STEP 3: Remove and replace ALL six (6) “D” cell batteries. Refer to battery compartment cover label for placement.

STEP 4: Replace the Battery Compartment Cover and securely tighten screws.

STEP 5: Press the “ZERO” button to confirm display is working.

STEP 6: Zero the system.

Figure 8: Battery Replacement
THEORY OF OPERATION

SR Instruments patient weighing systems are digital scales. Strain-gauge force cells convert the force of an applied weight into an analog signal. This signal is amplified by an operational amplifier and converted to a digital signal by an analog to digital converter. The digital signal is transferred to a micro-controller where it is filtered, converted to appropriate units and displayed on a liquid crystal display.

Strain-gauge force cells each contain four strain gauges mounted in a full Wheatstone-bridge configuration. These bridges convert the physical movement of the force cell, due to the applied mass on the system, into minute changes in electrical resistance. These changes in resistance produce a voltage difference across the Wheatstone-bridge, which is amplified by the operational amplifier. The amplifier is configured to current sum the output of each cell.

The output of the operational amplifier is digitized by the analog to digital converter. The sigma-delta converter sums a rapid sequence of 0’s (0 volts) and 1’s (reference voltage) to achieve balance with the input from the amplifier.

The micro-controller averages and filters the digital output of the analog to digital converter, subtracts the value saved during the system zero operation and scales the filtered output, then displays the result on the liquid crystal display. The micro-controller performs a moving-median filter of data for continuous weigh and, for AutoHold, the micro-controller performs checks for signal stability before locking in on the reading. If the data variance is greater than 0.1% in the AutoHold mode, the micro-controller will reset the filter and start a new filtering period.

The micro-controller can be placed in a calibration mode, where the system can be re-calibrated. In the calibration mode, the system slope is calculated from two points (zero and full scale) in the 2-point calibration mode, or the slope and change in slope is calculated from three points (zero, half and full scale) in the 3-point calibration mode.
CALIBRATION

NOTE: Ensure that nothing is in contact with the scale system during this procedure. Remove hands from the system when noting the displayed calibration results.

CHECKING CALIBRATION

STEP 1: Select known calibrated weights (traceable to NIST) adding up to the maximum scale capacity.

NOTE: DO NOT USE barbells or uncalibrated weights.

STEP 2: Zero the scale by pressing the ZERO button.

STEP 3: Place the first calibrated weight on the scale. Wait for scale to stabilize; note scale reading.

STEP 4: Repeat STEP 3 up to maximum scale capacity by pressing WEIGH button after adding each weight. The scale readings should be within the Calibration Tolerance Table (Figure 9).

STEP 5: Remove weight.

<table>
<thead>
<tr>
<th>CALIBRATION TOLERANCE TABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOW LIMIT</td>
</tr>
<tr>
<td>4.995</td>
</tr>
<tr>
<td>9.990</td>
</tr>
<tr>
<td>14.985</td>
</tr>
<tr>
<td>19.980</td>
</tr>
</tbody>
</table>

Figure 9: Calibration Tolerance Table
CALIBRATION (Cont’d)

**IMPORTANT**

CALIBRATION CHECK - Qualified service personnel only should perform this procedure. Load cells have no user serviceable components and should not be tampered with for any reason. Re-calibration is generally not required, but should be verified periodically to ensure accuracy. Recommendation for calibration check is at least once every 12 months, or as individual maintenance policy requires.

**CAUTION**

The integrated circuits and semiconductors on the printed circuit boards may be damaged by electrostatic discharge (ESD). Be sure to use proper handling precautions at all times.

CALIBRATION PROCEDURE

**NOTE:** Ensure that nothing is in contact with the scale system during this procedure. Remove hands from the system when noting the displayed calibration results.

**STEP 1:** Remove the three (3) screws from the left side of display housing end cap and remove the end cap. Set end cap and screws aside.

**STEP 2:** Put the scale system into the Calibration Mode by switching the calibration switch on the display board (Figure 10), “CALIBRATION” will flash on the display.

![CALIBRATION SWITCH](image)

*Figure 10: Calibration Switch Location*

Continued next page
CALIBRATION (Cont’d)

STEP 3: Select at least two (2) known calibrated weights (traceable to NIST) adding up to the maximum scale capacity.

NOTE: The first weight or group of weights should be half of the maximum scale capacity. The second weight or group of weights should add up to the maximum scale capacity.

DO NOT USE barbells or uncalibrated weights.

STEP 4: Press MENU button until “3 Pt Calibration” is displayed. Press the UP arrow button.

STEP 5: Display will read “ZERO”. Ensure that all weight has been removed from the platform and press the “UP” arrow button.

STEP 6: Display will read “ADD HALF”. Place ten kilograms of calibrated weight, HALF the maximum scale capacity on the scale. Allow weight to stabilize. Press UP arrow to save change.

STEP 7: Display will read “ADD FULL”. Place twenty kilograms of calibrated weight, FULL scale of the maximum scale capacity on the scale. Allow weight to stabilize. Press UP arrow to save change.

STEP 8: Press ENTER to save the calibration, or WEIGH to exit without saving.

STEP 9: Switch the scale system out of Calibration Mode on the display board (Figure 10) and replace end cap.

TROUBLESHOOTING

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>REASON/CORRECTIVE ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low readings</td>
<td>Check offset and verify calibration</td>
</tr>
<tr>
<td></td>
<td>Ensure the cradle is not contacting the plate under the scale</td>
</tr>
<tr>
<td>Only half of display activates</td>
<td>Press the “WEIGH” button</td>
</tr>
<tr>
<td>No power</td>
<td>Check that batteries are making contact with each other and the terminals of the battery holder. Ensure AC power supply is firmly plugged in</td>
</tr>
</tbody>
</table>

For additional information or assistance, telephone the Service Hotline: 1-800-654-6360 or e-mail: sri@sринstruments.com
WARRANTY

FOUR YEAR LIMITED WARRANTY

Each SR Scales’ system is manufactured with high quality components. SR Instruments, Inc. warrants that all new equipment will be free from defects in material or workmanship, under normal use and service, for a period of four (4) years from the date of purchase by the original purchaser. Normal wear and tear, injury by natural forces, user neglect, and purposeful destruction are not covered by this warranty. Warranty service must be performed by the factory or an authorized repair station. Service provided on equipment returned to the factory or authorized repair station includes labor to replace defective parts. Goods returned must be shipped with transportation and/or broker charges prepaid. SR Instruments, Inc.’s obligation is limited to replacement of parts that have been so returned and are disclosed to SR Instruments, Inc.’s satisfaction to be defective. The provisions of this warranty clause are in lieu of all other warranties, expressed or implied, and of all other obligations or liabilities on SR Instruments, Inc.’s part, and it neither assumes nor authorizes any other person to assume for SR Instruments, Inc. any other liabilities in connection with the sale of said articles. In no event shall SR Instruments, Inc. be liable for any subsequent or special damages. Any misuse, improper installation, or tampering, shall void this warranty.

DAMAGED SHIPMENTS

Title passes to purchaser upon delivery to Transportation Company. Purchaser should file any claims for shortage or damage with the delivery carrier and should refuse any shipment that has obvious external damage.

RETURN POLICY

All products being returned to SR Instruments, Inc. require a Return Goods Authorization number (RGA). To receive an RGA, call our Customer Service at 716-693-5977 ext 103 or toll-free in the USA and Canada at 800-654-6360 ext 103.

When inquiry is made, please supply model and serial numbers, purchase order and reason for return.

Generally, deleted, damaged, and outdated merchandise will not be accepted for credit. A minimum restocking charge of 15% will be assessed on return of current merchandise unless scale is returned because of SR error.

No returns will be accepted after 30 days.

All returns are to be shipped FREIGHT PREPAID to: SR Instruments, Inc., 600 Young Street, Tonawanda, NY 14150.

RESTOCKING FEE

- **15% fee** will be assessed on return of current merchandise
- **No fees** will be charged if the scale is returned because of an error on the part of SR Instruments, Inc.
- **No returns** accepted after 30 days.