

SR Scales®

by SR Instruments, Inc.

Model SRV711B



**Zoological Scale System
Hand Held Remote Display**

Operating and Service Manual

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PACKING CHECKLIST – Model SRV711B

| √ | DESCRIPTION | QUANTITY |
|---|----------------------------|----------|
| | SCALE PLATFORM | 1 ea. |
| | SCALE HAND HELD DISPLAY | 1 ea. |
| | 14 ft SIGNAL CABLE | 1 ea. |
| | 9 VOLT ALKALINE BATTERY | 1 ea. |
| | HANGER & MOUNTING HARDWARE | 1 ea. |
| | CERTIFICATE OF CALIBRATION | 1 ea. |
| | MANUAL | 1 ea. |

ASSEMBLY

STEP 1: Unpack the scale system and check parts against the **PACKING CHECKLIST**. If there are any missing or damaged parts, call the Service Hotline at: 1-800-654-6360.

STEP 2: Determine installation location for scale and hand held hanger, keeping in mind the display cable length is fourteen (14) feet. Mounting the hand held hanger on a wall can be accomplished in the manner described below:

- A. The hanger should be installed by qualified personnel. The mounting hardware provided will cover most wall applications.
- B. Determine a position on the wall comfortable to the user. Mark the location of the two (2) mounting holes on the wall (holes are spaced 3/4" apart).
- C. Drill two (2) pilot holes no larger than 1/4" diameter in the locations marked. Install the two (2) self-drilling screw anchors.
- D. Attach the hanger to the wall using the two (2) #8 x 1-1/2" flat head screws supplied.

STEP 3: Connect the signal cable to the underside of the platform.

STEP 4: Place the SRV711B Zoological Platform on a flat, hard floor surface. Ensure all four (4) feet of the scale are in contact with the floor and scale does not rock.

NOTE: Scale should not be placed on carpet or uneven floor surfaces as this may interfere with scale accuracy.


STEP 5: Install one (1) 9 volt battery according to the Battery Installation instructions.

STEP 6: Connect the other end of the signal cable to the hand held display.

BATTERY INSTALLATION

STEP 1: Remove the four (4) screws from the battery cover on the lower section of the hand held display.

STEP 2: Connect the 9 volt battery to the display connector.

STEP 3: Press the weigh “” button to confirm display is working.

STEP 4: Evenly tighten down the screws on the battery cover.

NOTE: TIGHTEN SCREWS ONLY UNTIL RUBBER SEAL STARTS TO COMPRESS.

STEP 5: Zero the system by holding down the weigh button for 3 seconds then releasing.



Figure 1: Battery Installation

REPLACEMENT PARTS AND ACCESSORIES

| Part # | Description |
|------------|------------------|
| FC3102A10S | Signal Cable |
| FK5210039 | Replacement Foot |

SYSTEM DESCRIPTION AND INTENDED USE

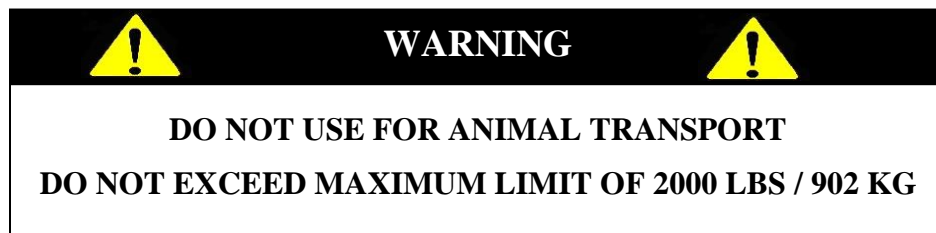
SYSTEM DESCRIPTION

The SRV711B Zoological Platform Scale is a low profile design (2-3/4 in. height) which allows the animal easy step access. The SRV711B Zoological Platform Scale can be used in a fixed location or as a portable scale. The 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 animal's weight.

The animal's weight is displayed on an LCD screen and can be viewed in either pounds or kilograms.

INTENDED USE

The SRV711B Zoological Platform Scale is a portable scale designed for use as a weighing system for animals not exceeding 2000 pounds or 907 kilograms, gross weight. Please read the following warnings to avoid injury to the animal or attendant.



SPECIFICATIONS

| | |
|--------------------------------|---|
| MAXIMUM WEIGHT CAPACITY | 2000 lb (902 kg) |
| PLATFORM SIZE | 36 in x 54 in x 2-3/4 in (91 cm x 137 cm x 7 cm) |
| DISPLAY TYPE | 0.6" dot matrix LCD |
| DISPLAY RESOLUTION | 0.1 lb / 0.1 kg |
| ACCURACY | 0.2% +/- 1 digits of displayed resolution for calibrated range |
| AUTO ZERO | One touch operation |
| AVERAGING | Automatic digital filter |
| POWER SUPPLY | One (1) 9 Volt Alkaline battery |
| CALIBRATION | Calibration is traceable to NIST |
| OPERATING CONDITIONS | Normal operating conditions for this product: Ambient Temperature Range: 68°F to 85°F (20°C to 30°C) Relative Humidity Range: 0%-85% Avoid exposure to high-pressure water or steam |
| TRANSPORT and STORAGE | Storage and transport conditions should not vary outside the following conditions: Ambient Temperature 14°F to 122°F (-10°C to +50°C) Relative Humidity 0% to 85% Remove batteries if storing longer than three (3) months |

BASIC SYSTEM OPERATION

Make sure the scale is free and clear of any obstructions and all four (4) feet are touching a level surface. Press any button to awaken from sleep mode and then press and hold the **“ZERO”** button for three (3) seconds until **“ZERO”** shows on the display, then release. The display will then display **“0.0”** when system is ready for weighing.

With no weight on the platform, or after the display is zeroed, the display will “power down” to a sleep mode after 30 seconds. Press either button to wake it up.



Figure 2: Hand Held Display



The **“WEIGH/ZERO”** button is used to start a new weighing cycle.

The **“WEIGH/ZERO”** button is used to zero the system before placing an animal onto the scale. Ensure that nothing is in contact with the weighing surface during this procedure. Press and hold the **“WEIGH/ZERO”** button for three (3) seconds until **“ZERO”** shows on the display, then release. The display will read **“0.0 lb”** (or **“0.0 kg”**) and the Stable Zero icon will become steady when ready to weigh.

The Stable Weight icon blinks while actively weighing and then becomes steady when weight is stable.

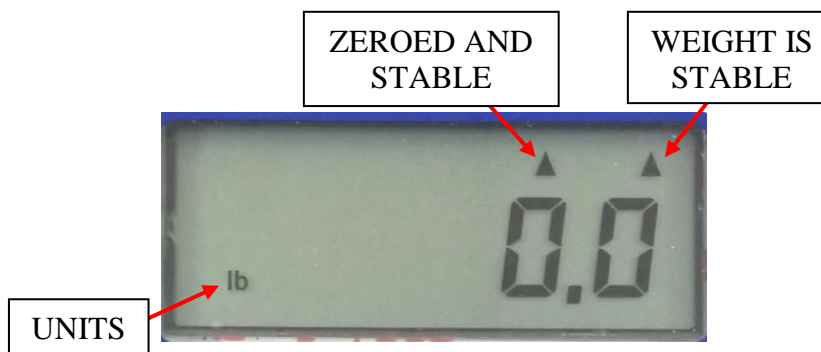


Figure 3: LCD Display



Weight Units can be changed by pressing the **“lb/kg”** button. The system will remain in the same mode as last used unless manually changed.

CLEANING and DISINFECTING

CLEANING

To clean the display / user interface:

- Wipe surface with clean soft cloth dampened with water and then dry with clean soft cloth.
- Do not spray liquid directly onto interface surfaces. Use only a damp cloth.

To clean platform / patient contact areas:

- Use a soft bristle brush with mild detergent and water when cleaning platform / patient contact areas. Pat dry with a clean cloth, or allow to air dry.
- Do not use abrasive materials to clean scale surface to prevent damage to the surface finish.
- Platform may be rinsed off with a low pressure water hose.

DISINFECTION

To disinfect the display / user interface and other scale contact areas:

- 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.
- Do not use abrasive material to disinfect / clean scale surfaces.

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.

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.

NOTE: DO NOT USE barbells or un-calibrated weights

STEP 2: Zero the scale by pressing the **WEIGH/ZERO** button and holding for three (3) seconds until “**ZERO**” shows on the display, then release. The display will then display “**0.0**” when system is ready for weighing.

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

STEP 4: Scale readings should be within Calibration Tolerance Table limits (Figure 4).

| CALIBRATION TOLERANCE TABLE | | |
|-----------------------------|--------------|------------|
| LOW LIMIT | APPLIED LOAD | HIGH LIMIT |
| 99.8 | 100.0 | 100.2 |
| 249.5 | 250.0 | 250.5 |
| 499.0 | 500.0 | 501.0 |
| 748.5 | 750.0 | 751.5 |
| 998.0 | 1000.0 | 1002.0 |
| 1497.0 | 1500.0 | 1503.0 |
| 1996.0 | 2000.0 | 2004.0 |

Figure 4: Calibration Table



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. The 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 (Cont'd)

SETTING CALIBRATION

NOTE: Ensure that nothing is in contact with the scale during this procedure and that all four (4) feet are touching a level surface.

STEP 1: Select weights, traceable to NIST, up to the full scale value (maximum capacity).

STEP 2: Remove the four (4) screws holding the upper back cover on the hand held display (Battery cover does not need to be removed for calibration).

STEP 3: Press the calibration button (S2), the display will read "CAL" (Figure 5).

STEP 4: Press the change button (S4) to scroll through menu options until "FULL" is displayed. Press the select button (S1) to select (Figure 5).

STEP 5: Set the "FULL" value to the selected weight from Step 1. Use the select button (S1) to select digit positions and use change button (S4) to change the value.

STEP 6: When finished, the display will read "SAVE". Press the select button (S1) to save or press the change button (S4) and then the select button (S1) to "QUIT".

STEP 7: Press the change button (S4) to scroll to the menu option "2 PT" and press the select button (S1).

STEP 8: Ensure nothing is in contact with the platform then press the select button (S1) when the display reads "ZERO".

STEP 9: When the display reads "FULL", place the weight from Step 1 on the platform and press the select button (S1).

STEP 10: Press the select button (S1) once more to save. To exit without saving, press the change button (S4) to select "QUIT", then press the select button (S1).

STEP 11: When finished calibrating, remove all weight from the scale and press the calibration button (S2) to return to weigh mode.

STEP 12: Reattach the four (4) screws holding the upper back cover on the hand held display.

NOTE: Tighten screws only until rubber seal starts to compress.

STEP 13: Press and hold the "WEIGH/ZERO" button for three (3) seconds until "ZERO" shows on the display, then release. When the display indicates "0.0", place the calibrated weight on the scale again and check against the weight displayed. If the weight is not correct, recalibrate (If calibration cannot be accomplished call the Service Department).

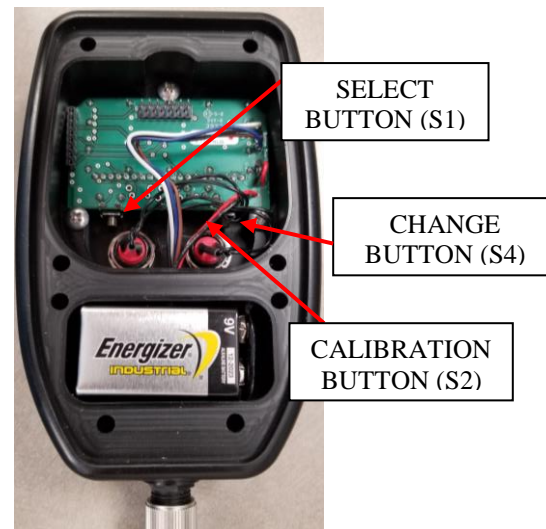


Figure 5: Calibration Buttons

TROUBLESHOOTING

| SYMPTOM | REASON/CORRECTIVE ACTION |
|--|---|
| Weight reading is much lower than expected | Ensure scale is on a level surface. Check to make sure all four (4) feet are touching ground and ensure that nothing is touching the bottom of platform |
| Display does not change when weight is applied | Ensure Signal Cable is connected. There should be a weight difference between having the Signal Cable connected compared to being disconnected |
| Display does not turn on | Power may be lost. Check/replace battery |
| For additional information or assistance, phone our Service Hotline: 1-800-654-6360 or e-mail: sri@srinstruments.com | |

WARRANTY

TWO (2) 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 two (2) 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.

NOTES



**Precision & Technology in
Perfect Balance™**