



Ultegra Baggage Scale

SCB-R9000-B Series

31 x 31 Baggage Scale



Amendment Record

Ultegra Baggage Scale

SCB-R9000-B Series

Document 51308

Manufactured by Fairbanks Scales Inc.

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|------------|---------|---|
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| Revision 1 | 10/2012 | Released Manual |
| Revision 2 | 03/2014 | Added Gravity Use software update. |
| Revision 3 | 04/2015 | Updated USB information and updated parts list. |



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Section 1: General Information

1.1. Introduction

The Ultegra Series Baggage Scale is a USB powered unit with a capacity of 250 lbs and is constructed of steel. A USB to AC adapter accessory is also available to power the scale. The scale may be placed on a desk, or a bench.

1.2. Description

This unit can be powered from any PC that is compliant with version USB 1.1 or later. This includes external hubs, either bus-powered or self-powered. The scale is identified by a PC as a human interface device (HID) and operates with Windows 2000, Windows XP or later. It also can be powered from a 5VDC USB AC adapter, which comes standard with the scale.

Option 1 - USB to AC Adapter



Option 2 - USB to PC or USB Hub



Section 2: Installation

2.1. Unpacking

1. Remove the scale from the packing box and place on a flat surface where it will be used.
2. Using the bubble level, adjust one or two feet minimally to level the platform. Do NOT adjust all 4 feet.

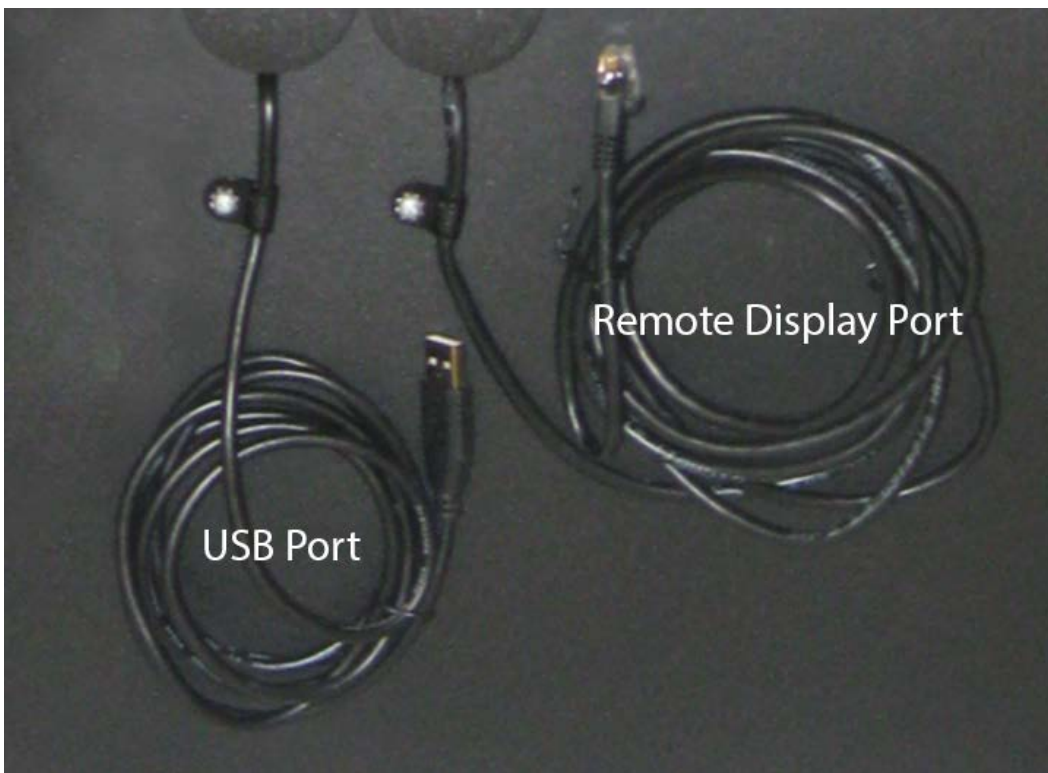
2.2. Connection Descriptions

1. **USB** - The USB port is used to power the scale. The included six foot (6') USB cable should be inserted into the scale's USB barrel plug on the back of the unit and then connected to:
 - a USB port on the computer or into a USB hub
 - the included USB to AC power adapter, which is then plugged into a proper outlet. Check the AC receptacle for proper voltages prior to plugging in the adapter
3. **REMOTE DISPLAY** - To use a remote display, plug the remote display into the connector on the scale base where indicated.

2.3. Computer Connection

1. **USB setup:** The USB port will only function with a computer utilizing Windows 2000, Windows XP, or higher operating system. When the scale-connected USB cable is interfaced to a computer's USB port or USB hub, the computer will prompt ***a device has been found.***

2.4. Connections



2.5. Gravity Use Compensation Setting

The SCB-R9000-B has a gravity use compensation setting which must be set based upon the geographical zone in which the scale is being installed.

Access this setting by pressing the Program button. The button is located looking at the front of the scale inside the right rear portion of the scale. An access cover must be removed.



1. The display will show **GrU x**. This is the **Gr**avity **U**se Zone. Select the proper zone number for your location. Use the **[UNITS]** key to toggle to the selection. The choices are:

-8, -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

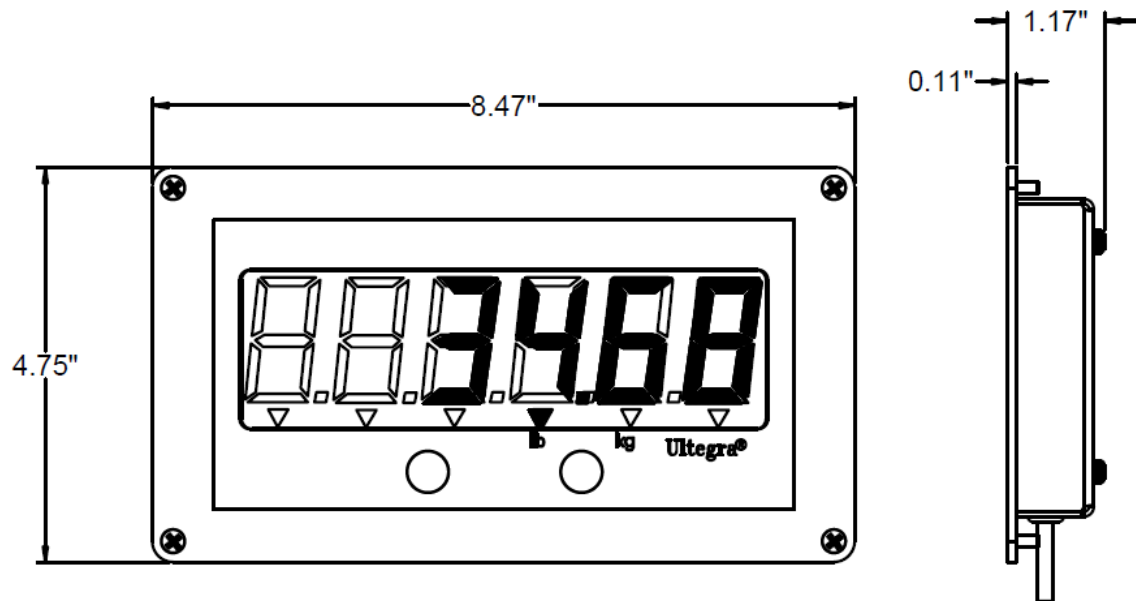
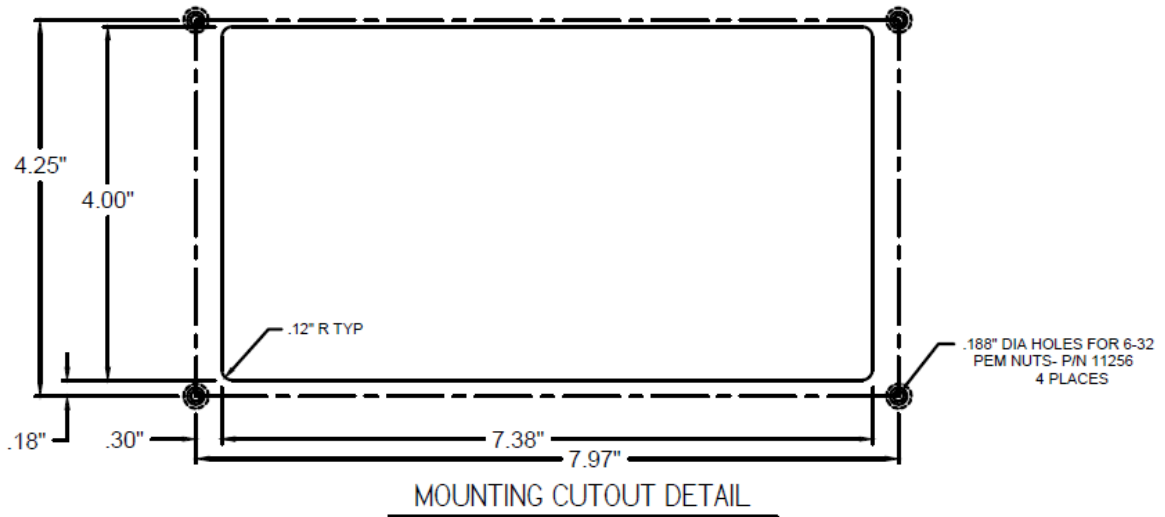
| Zone | Latitude (degrees) | Reference City |
|-------------|---------------------------|-------------------------|
| -8 | 68.659 | Point Hope, AK |
| -7 | 64.929 | Fairbanks, AK |
| -6 | 61.567 | Anchorage, AK |
| -5 | 58.444 | Fort Vermilion, Alberta |
| -4 | 55.485 | High Prairie, Alberta |
| -3 | 52.638 | Coventry, England |
| -2 | 49.865 | Winnipeg, Manitoba |
| -1 | 47.137 | Tacoma, WA |
| 0 | 44.427 | St. Johnsbury, VT |
| 1 | 41.711 | Des Moines, IA |
| 2 | 38.963 | Kansas City, MO |
| 3 | 36.156 | Tulsa, OK |
| 4 | 33.257 | Tuscaloosa, AL |
| 5 | 30.223 | Austin, TX |
| 6 | 26.992 | Navojoa, Mexico |
| 7 | 23.467 | Mazatlan, Mexico |
| 8 | 19.476 | Mexico City |
| 9 | 14.622 | Guatemala City |
| 10 | 7.326 | Bucaramanga, Colombia |

Press the **[ZERO]** key to accept the choice selected and the display will indicate **AZt 0.5**. Press the Program button to return to the weighing mode.

This completes setting the **Gr**avity **U**se Zone setting.

2.6. Panel Mount Installation

1. Mark the locations for the four (4) mounting screws and cutout for the panel mount display using the dimensions listed on the drawings below.



2. Cutout the outline for the panel (7.38" x 4.0") on the surface where it is to be mounted.
3. Drill the four (4) holes approximately 3/16" or (0.188") diameter which will secure the panel to the surface.
4. Mount the display.

Section 3: Operation

3.1. Power-on

Because the scale uses special low-power circuitry, no warm-up time is required. Weight readings will be accurate as soon as the unit is powered on and set to zero.

When the unit is powered, the liquid crystal display (LCD) will show the software part number and the revision followed by either "0.00", or "-----". Dashes are displayed to indicate the scale is registering a weight upon startup. Press **[ZERO]** to set the display to '0.00' and start weighing.

3.2. Keys

The keys for operating the scale are located on the remote display.



1. Pressing the **[ZERO]** key resets the display to indicate zero (0).
 - The zero range is set at 2% or 5.00 lbs. when set for Canadian use.
 - The zero range is set at 100% or 250 lbs. when set for USA use.
2. The **[ZERO]** key function will be inhibited if the instrument detects any of the following conditions:
 - Motion on the platform
 - An underload condition
 - An overload condition
 - Outside of programmed zero range
3. Pressing the **[UNITS]** key toggles the weighing units and annunciators between "lb" and "kg". Verify the units you want to use by noting the arrow indicator on the display.

3.3. Weighing

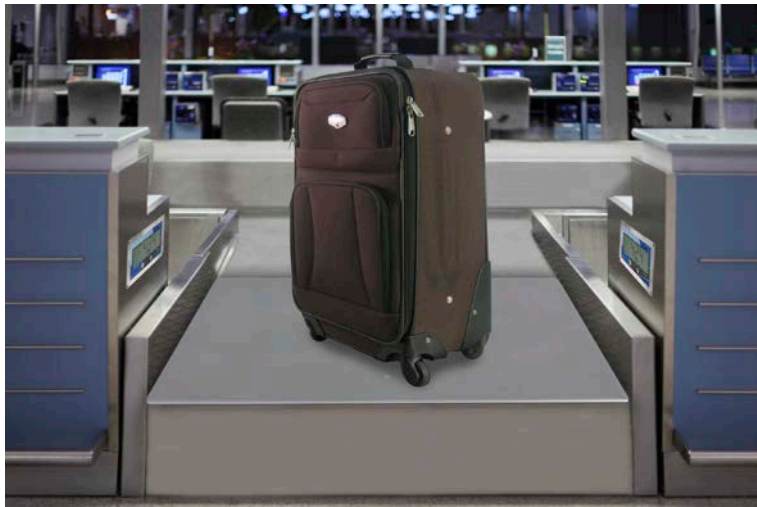
1. With the platform empty, press the **[ZERO]** key. The display will indicate zero (0).



Note:

The “C” to the left of the “0.0” indicates true center of zero.

2. Check that the correct units are indicated; press the **[UNITS]** key to change to “lb” or “kg”.
3. Place the item to be weighed in the center of the platform.
4. Read the Gross weight from the display.



Section 4: Customer Care

4.1. Cleaning

Clean by wiping the scale assembly off with a damp cloth only. Do not use running water, harsh chemicals, or allow liquids to drip onto the scale/ display.

4.2. Operator Instrument Prompts

| Prompt | Description |
|--------|--|
| HiCAP | Applied load is greater than 250 lbs/ 113 kg - over capacity. |
| LoCAP | Scale is below normal Zero range - under capacity. |
| ----- | Indicates the scale is not within the center-of-zero range. Press [ZERO] to go to weigh mode. |
| ----- | Motion is preventing the scale from entering weigh mode |

4.3. Troubleshooting

In the event the scale does not function properly, check the following, see appendix for more information:

| Problem | Possible Source / Remedy |
|---------------------------------------|---|
| No Display | Power OFF, plug disconnected, cord damage, faulty USB port or USB to AC adapter. IF you are using a remote display, check the main display first, if it's OK then check the cable plug connection on the remote. Unplug then plug in the power cord to reset the program. |
| Incorrect Weight | Check platform for binding or rubbing, reposition scale so all sides are clear. Ensure correct UNITS are displayed (lb or kg). Remove load, press the [ZERO] key to set the scale to '0.00', then reweigh. |
| [ZERO] key will NOT reset zero | Motion on the platform; ensure that the platform is empty. Check platform for binding or rubbing, reposition scale |
| Pushbuttons Will Not Operate | First unplug, then plug in the AC adapter to reset the program. If you are using a remote display, check the main display first, if it's OK then check the cable and plug connection on the remote. |
| Display Locked or Inoperative | First unplug, then plug in the AC adapter to reset the program. If you are using a remote display, check the main display first, if it's OK then check the cable and plug connection on the remote |
| Display Indicates HiCAP | Weight on the platform exceeds 250 lbs, remove load. |
| No USB Output | Check that both cable end connectors are securely fastened. Check the cable for damage. Check the Hub or USB port for problems. |

Section 5: Specifications

5.1. Technical Specifications

1. **Capacities:** 250 lb x 0.2 / 113 kg x 0.1
2. **Rounding:** Nearest division per NIST H-44
3. **Weight Display:** 1.50 inch LCD Display
4. **Power On Lockout:** Scale will display "-----", when power is turned on and weight is present. Press ZERO to establish zero reference.
5. **Display update rate:** 0.05 seconds.
6. **Overcapacity Warning:**
 - Displays "HiCAP" for overcapacity
7. **Motion Detection:** Satisfies H-44 requirements
8. **Power Failure Protection:** Zero reference, programming, and calibrations are retained if the instrument loses power
9. **Load Cell Excitation:** 3.3VDC
10. **USB Cable Length:** Type A/B, 6 feet in length
11. **Indicators:** lb, kg
12. **Dimensions:** Platform, Including Feet 31" x 31" x 2.31"
13. **Auto Zero Tracking:** Compensates for gradual buildup of material on platform, factory set at 0.5 divisions
14. **Power Requirements:** 5VDC, USB to AC adapter
15. **Certificate of Conformance:** NTEP CC# 98-198;
MC# AM-5785

5.2. Environment

All equipment should be protected from direct sunlight.

- Relative Humidity 0% to 90% non-condensing.
- NOT suitable for water wash down.

5.3. Accessories

1. **Remote Display Panel Mount 32065 - (ACC-1520-P)** RJ45 cable and two (2) function buttons.

Not Shown:

Remote Display 32647 – (ACC-1520PN) panel mount remote display with stainless bezel, no units and zero buttons



2. **Remote Display 29595 - (ACC-1520-1)** 6.98"W x 3.48"H, 1.29"D, RJ45 cable and two (2) function buttons.

Not Shown:

Remote Display 32649 – (ACC-1520N), wall/pillar mount remote display with ABS housing, no units and zero buttons



3. **USB to AC adapter (34232) –** Input voltage range of 100 to 240 VAC, 50 to 60 Hz. Output, 5VDC, 1.2A



4. **Remote Display Stand 20301** - A 18" high stand for mounting the Remote Display, ideal for counter-top applications.

Remote Display Stand 20301



5. **RJ45 Splitter 31162** – This accessory is required when connecting more than one (1) remote display to a baggage scale. Two splitters are required for three (3) remote displays and three (3) splitters are required to communicate to four (4) remote displays.



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