

# Kubota

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*KA-10 Series Scale*

## Conversion to Counting Scale



**RICE LAKE WEIGHING SYSTEMS**

Industrial Solutions on a Global Scale™



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# 1.0 Introduction

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Unless modified at the factory by special request, the Kubota KA-10HB floor scale models are shipped as legal-for-trade scales that are Handbook 44 certified. If your scale was ordered as a counting scale, the model number will not include the HB designation, and the counting feature of the scale will be enabled.

Any HB model scale can be modified on location as a counting scale, but the scale then becomes non-certified as a Handbook 44 legal-for-trade scale.

Note:

Upon initial power up, a large zero error may be present. After switching power on, if the full display appears but then changes to a bar, this indicates a large zero error. This is often caused by jarring of the load cell during shipping. The scale can easily be restored to normal function by following the steps below.

## 1.1 Calibrating for Zero

1. Switch power OFF.
2. Press and hold both Zero key and Set key. Switch power back on.
3. Keep Zero key down; release Set key and press Tare key.
4. The display should return to 0, and procedure is complete.
5. If display does not return to 0, go to zero and span calibration procedure in Section 3.

## 2.0 Converting KA-10HB to Counting Scale

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1. Power down KA-10HB and open cover on indicator.
2. Remove screws (4) from metal back plate covering CPU and remove back plate.
3. Locate JP on board, (see Figure 1). Put jumper on JP-2.

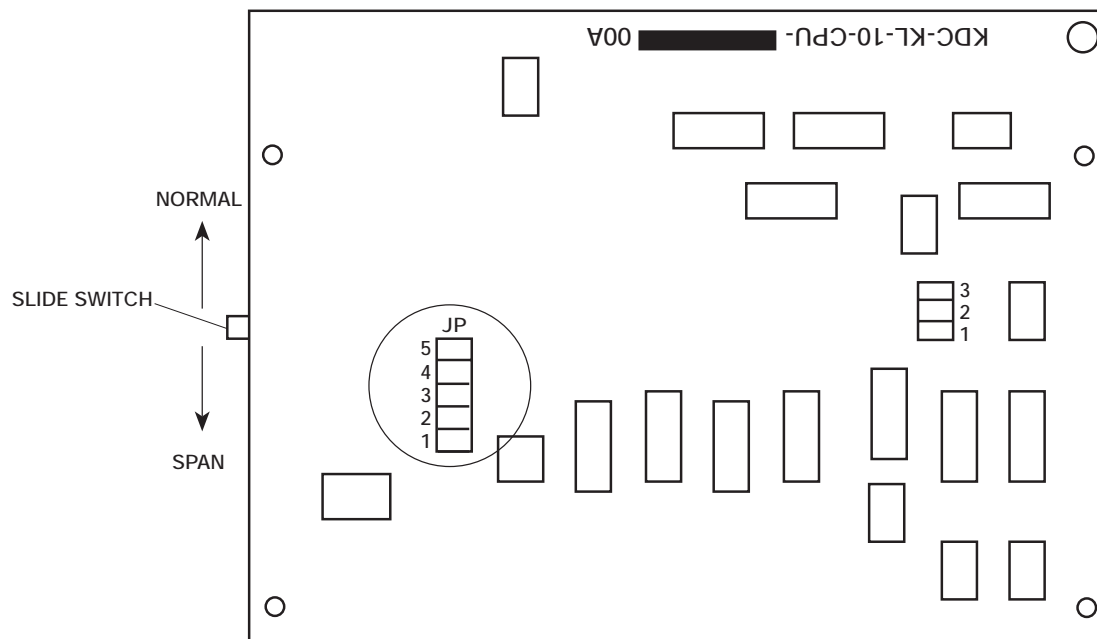


FIGURE 1

4. Make sure two (2) ground wires are not touching CPU. Turn indicator on.
5. Press Select/Unit key. Indicator goes into parameter mode.
6. Press Select/Unit key to advance parameters, until parameter A2 is shown.
7. Press \* key to change parameter:  
A2-0=HB-44  
A2-1=Counting (Not Legal-for-Trade)
8. Turn indicator off, remove jumper and place on J-1.
9. Turn indicator back on and press Select/Unit key to check operation.
10. Turn indicator off. Screw back plate on, making sure that ground wires are in correct position.
11. Close indicator cover.

### Note:

When counting is enabled, the scale is no longer legal-for-trade according to Handbook 44. Stickers provided are to be applied over "HB" portion of model number on front and back of the indicator.

### 3.0 Zero and Span Adjustment Changes

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1. Remove screws (4) that secure CPU cover.
2. With power off, press slide switch Down to Span position (see Figure 2).
3. Switch power On by pressing the On/Off key. Be certain scale is level.
4. The number now displayed is the internal dead load count.
5. Press Zero key to bring display to 0.
6. Place a calibration test weight (see table below) on platform and wait for stability indicator.

SCALE CAPACITY	RECOMMENDED CALIBRATION WEIGHT
70 LB	60 LB
150 LB	150 LB
300 LB	300 LB

7. When stable, press and hold Set key, then press Select key. The display should read as follows:

SCALE CAPACITY	DISPLAYED READING
70 LB	30,000 +/-1 GRAD
150 LBS	37,500 +/-1 GRAD
300 LBS	30,000 +/-1 GRAD

8. Remove test weight from platform. Display should return to a 0 reading. If not, repeat steps 4, 5, 6, and 7 above.
9. Turn power off.
10. Turn power back on and press Zero key to check adjustments.
11. When span adjustment is complete, turn power off and return slide switch upward for normal operation.
12. Replace cover over CPU.

## 4.0 Dead Load Adjustment Changes

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1. Remove screws (4) that secure CPU cover.
  - Looking at CPU board, slide switch is located on left-hand side of board. See Figure 2.
  - Switch is Up for normal weighing, Down for calibration and zero set.
2. With indicator off, slide span switch down.
3. With added dead load on platform, turn power on. Press Zero button.
4. Turn power off, slide span switch up. Replace cover over CPU.

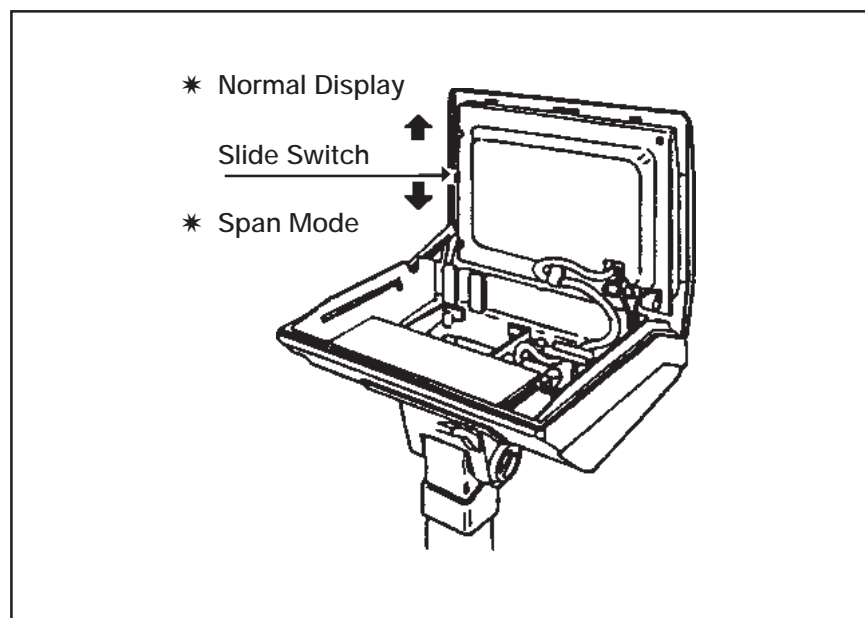


Figure 2

## 5.0 Kubota KA-10 Series Scale Limited Warranty

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Rice Lake Weighing Systems (RLWS) warrants that all RLWS equipment and systems properly installed by a Distributor or Original Equipment Manufacturer (OEM) will operate per written specifications as confirmed by the Distributor/OEM and accepted by RLWS. All systems and components are warranted against defects in materials and workmanship for one (1) year.

RLWS warrants that the equipment sold hereunder will conform to the current written specifications authorized by RLWS. RLWS warrants the equipment against faulty workmanship and defective materials. If any equipment fails to conform to these warranties, RLWS will, at its option, repair or replace such goods returned within the warranty period subject to the following conditions:

1. Upon discovery by Buyer of such non-conformity, RLWS will be given prompt written notice with a detailed explanation of the alleged deficiencies.
2. Examination of such equipment by RLWS confirms that the non-conformity actually exists, and was not caused by accident, misuse, neglect, alteration, improper installation, improper repair or improper testing; RLWS shall be the sole judge of all alleged non-conformities.
3. Such equipment has not been modified, altered, or changed by any person other than RLWS or its duly authorized repair agents.
4. RLWS will have a reasonable time to repair or replace the defective equipment. Buyer is responsible for shipping charges both ways.
5. In no event will RLWS be responsible for travel time or on-location repairs, including assembly or disassembly of equipment, nor will RLWS be liable for the cost of any repairs made by others.

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SHOULD THE SELLER BE OTHER THAN RLWS, THE BUYER AGREES TO LOOK ONLY TO THE SELLER FOR WARRANTY CLAIMS.

No terms, conditions, understanding, or agreements purporting to modify the terms of this warranty shall have any legal effect unless made in writing and signed by a corporate officer of RLWS and the Buyer.

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