

750
Weight Indicating Instrument
With Body Mass Index Features
Owner's Manual



8555-M260-O1 Rev F 09/07 CARDINAL SCALE MFG. CO.
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Printed in USA

750 INDICATOR

Thank you for purchasing our Detecto Model 750 Weight Indicating Instrument. It has been manufactured with quality and reliability at our factory in Webb City, MO USA. This Indicator has been tested before leaving our factory to insure accuracy and dependability for years to come.

This manual is provided to guide you through installation, operation and maintenance of your indicator. Please read it thoroughly before attempting to install or operate your 758C and keep it handy for future reference.

FCC COMPLIANCE STATEMENT

WARNING! This equipment generates uses and can radiate radio frequency and if not installed and used in accordance with the instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area may cause interference in which case the user will be responsible to take whatever measures necessary to correct the interference.

You may find the booklet "How to Identify and Resolve Radio TV Interference Problems" prepared by the Federal Communications Commission helpful. It is available from the U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 001-000-00315-4.

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Parts Identification

Serial Number		
Date of Purchase		
Purchased From		
RETAIN THIS INFORMATION FOR FUTURE USE		

PRECAUTIONS

Before using this instrument, read this manual and pay special attention to all "WARNING" symbols:





SPECIFICATIONS

Power Requirements: 6 "AA" size Alkaline, Ni-Cad or NiMH batteries (not included)

OR an optional 100 to 240 VAC 50/60Hz 12 VDC 1A wall

plug-in UL/CSA listed AC power supply.

Operating Temperature: 14 to 104 °F (-10 to +40 °C)

Display: Six digit, seven segment, 0.7 inch high LCD

Sensitivity: 0 to 2.4 mV/V

Signal Input Range: 0 to 12mV max.

Transducer Excitation: 5.0 VDC

Resolution: 2,500 divisions

Capacity 400 x 0.2 lb (181.4 x 0.1 kg)

Division Value: 1, 2, or 5

Sample Rate: 1 to 16 samples per second Auto Zero Range: 0.5 or 1 through 9 divisions

Weighing Units: Pounds, kilograms, pounds/kilograms and kilograms/pounds

Keyboard: Membrane type with 5 keys and 4 directional arrows

Enclosure Size: 8" W x 6 5/8" H x 2 1/8" D (204 x 168 x 54mm)

Construction: Painted Steel

Standard Features:

Metric Conversion
 Selectable Sleep-Mode

Auto Shut-Off Feature
 Selectable Filtering

PROPER DISPOSAL

When this device reaches the end of its useful life, it must be properly disposed of. It must not be disposed of as unsorted municipal waste. Within the European Union, this device should be returned to the distributor from where it was purchased for proper disposal. This is in accordance with EU Directive 2002/96/EC. Within North America, the device should be disposed of in accordance with the local laws regarding the disposal of waste electrical and electronic equipment.

It is everyone's responsibility to help maintain the environment and to reduce the effects of hazardous substances contained in electrical and electronic equipment on human health. Please do your part by making certain that this device is properly disposed of. The symbol shown below indicates that this device must not be disposed of in unsorted municipal waste programs.



EUROPEAN DECLARATION OF CONFORMITY

Manufacturer: Cardinal Scale Manufacturing Company

PO Box 151

203 East Daugherty

Webb City, Missouri 64870 USA

Telephone No. 417 673 4631 Fax No. 417 673 5001

Product: Non-automatic Weight Indicating Instrument

Model Number 750

Serial Number EXXXYY-ZZZ where XXX = day of year

YY = last two digits of year ZZZ = sequential number

The undersigned hereby declares, on behalf of Cardinal Scale Manufacturing Company of Webb City, Missouri, that the above-referenced product, to which this declaration relates, is in conformity with the provisions of:

European Standard EN 45501: 1992 and equivalent International Recommendation OIML R76, edition 1992
Test Certificate Number DK 0199-R76-07.01
Report No. DANAK-199836

Council Directive 2006/95/EC Low Voltage Directive

Council Directive 90/384/EEC (20 June, 1990) on the Harmonization Of the Laws of Member States relating to non-automatic weighing Systems as amended by:
Council Directive 93/68/EEC (22 July, 1993)

Council Directive 89/336/EEC (3 May, 1989) on Electromagnetic Compatibility

EN 55022:1998 Class B (CISPR 22:1997, Class B)

EN 61000-3-2:2000 EN 61000-3-3:1995+A1

The Technical Construction File required by this Directive is maintained at the corporate headquarters of Cardinal Scale Manufacturing Company, 203 East Daugherty, Webb City, Missouri.

Ginger Harper

Director, Quality Assurance

INSTALLATION

Unpacking

Carefully remove indicator from shipping carton and inspect it for any damage that may have taken place during shipment. Keep carton and packing material for return shipment if it should become necessary. The purchaser is responsible for filing all claims for any damages or loss incurred during transit.

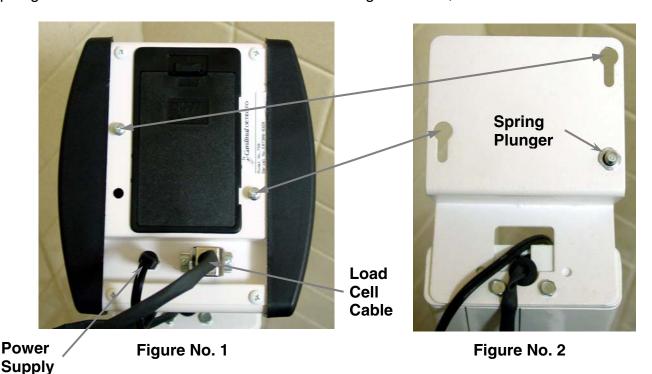
Should your indicator come already installed on a scale, the following installation information does not apply to you.

Interconnections

The load cell input and power connections are made at the bottom rear panel of the indicator. Refer to Figure No. 1 for the rear panel layout.

Mounting

To install the indicator on the bracket, place the screw heads on the back of the indicator into the large end of the slotted holes in the bracket. Pull down to secure the indicator. The spring plunger will lock the indicator to the bracket. See Figures No. 1, 2 and 3.



Spring Plunger Release

Figure No. 3

POWER CONNECTIONS

Power Supply

To power the 750 indicator without batteries, connect the 12 VDC, 1 Amp power supply's connector into the power jack on the back of the indicator and then plug the power supply into the proper electrical outlet. See Figure 1. On models requiring 220 VAC, it is the customer's responsibility to obtain the correct power adapter plug. The 750 is now ready for operation.

NOTE! The power supply is also used to recharge the batteries, when the indicator is operated from Ni-Cad or NiMH batteries.

Batteries

Battery operation is a standard feature of the 750 indicator, although the batteries are optional (not included). The indicator can be operated from 6 "AA" size Alkaline, Ni-Cad or NiMH batteries. You must first obtain and install batteries before operations can begin. Batteries are contained in a battery holder inside the indicator. Access is via a removable panel on the back of the indicator.

When using batteries, all 6 batteries must be of the same type. They must be all Alkaline, Ni-Cad or all NiMH. In addition, **DO NOT** mix Ni-Cad or NiMH batteries.



CAUTION! The 750 indicator has internal circuitry that when used in conjunction with the external power supply, recharges the Ni-Cad or NiMH batteries. Because the indicator has this charging capability, **DO NOT** connect a power supply to the indicator if using Alkaline batteries.

Battery Operation

The 750 indicator will operate for up to 250 hours on new Alkaline batteries or for up to 100 hours on fully charged Ni-Cad or NiMH batteries depending on the condition of the batteries (from new to about 500 recharges). The battery bar graph on the display indicates the battery capacity in 4 steps:



- 4 segments the full battery capacity is available,
- 3 segments the battery is at 75% of capacity,
- 2 segments the battery is at 50% of capacity,
- 1 segment: the battery is at 25% capacity.

When the battery voltage drops too low for accurate weighing, the indicator will show $L \circ b R E$ and then shut off. You will be unable to turn the indicator back on until the Alkaline batteries have been replaced or the AC power supply is connected to the display to operate it and recharge the Ni-Cad or NiMH batteries.

Battery Charging

To recharge the Ni-Cad or NiMH batteries, the AC power supply must be connected to a power outlet and plugged into the indicator. It will take approximately 8 to 10 hours to fully recharge the batteries in the display. Charging the batteries for more than 10 hours *will not* damage them. **NOTE!** The indicator may be operated while the batteries are charging.

POWER CONNECTIONS, Cont.

Battery Installation/Replacement

To install or remove the batteries, the following steps should be followed:

- 1. Remove the indicator from the scale.
- 2. Turn the indicator so that the display is facing away from you.
- 3. Locate the rectangular panel on back of indicator.
- 4. To install or replace the batteries, first remove the battery holder cover by pushing in on the tab and lifting it up. Refer to Figure No. 4.
- 5. If installing new batteries, proceed to step 6. If replacing the batteries, remove all 6 batteries from the battery holder and then proceed to step 6.
- 6. Install the 6 new "AA" size batteries in the battery holder, noting the polarity markings located in the battery holder. Refer to Figure No. 5.
- 7. After placing all 6 batteries in the holder, replace the battery cover.
- 8. Make sure power supply is unplugged, and then turn indicator over (display facing up) and press **ON / OFF** key.
- 9. If display turns on, batteries have been installed correctly. If not, remove panel and check for one or more improperly positioned batteries.
- 10. Return the indicator to the scale.
- 11. The scale is now ready for operation.



Figure No. 4



Figure No. 5

KEYPAD FUNCTIONS

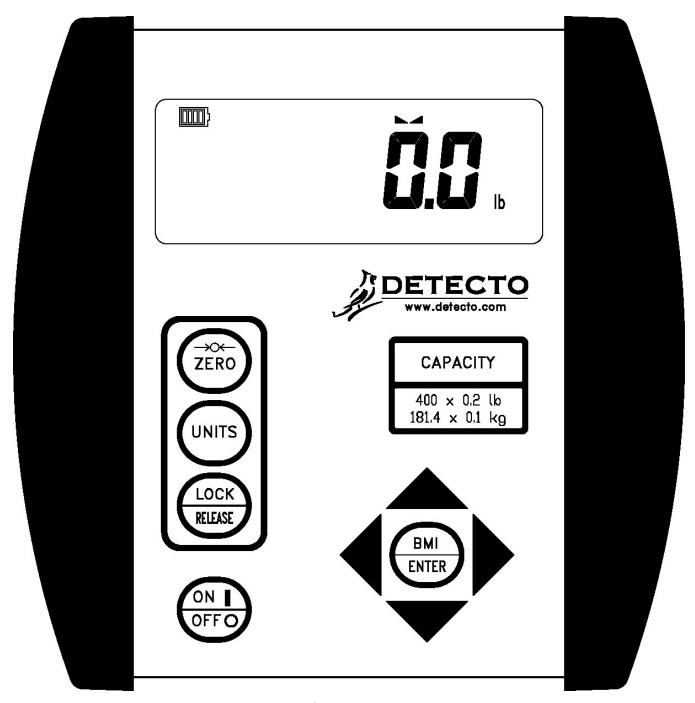


Figure No. 6



DO NOT operate the keypad with pointed objects (pencils, pens, etc). Damage to keypad resulting from this practice is NOT covered under warranty.



With the indicator off, pressing this key will apply power to the indicator and turn on the display. If the indicator is on, pressing this key will display σ^{FF} and turn the indicator off.

KEYPAD FUNCTIONS, CONT.



This key is used to reset the display to zero up to the selected limit of either 4% or 100% of scale capacity. The zero limit is set during setup and calibration of the indicator.



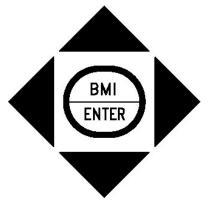
This key is used to change the weighing units to the alternate units of measurement. For example, with pounds displayed, pressing this key will change the weighting units to kilograms. **NOTE!** This feature must be enabled during setup and calibration for this key to be operational.



This key is used to lock and unlock the display. If the HOLD feature was enabled during setup and calibration, pressing this key (after obtaining a stable weight) will cause the indicator to lock onto the weight. Pressing this key again will unlock the display and return it to zero.

If AUTO LOCK feature was enabled, weight display will lock after placing a load on the scale and obtaining a stable weight. Pressing this key will unlock display and return it to zero, or if another load is applied, lock onto new weight after obtaining a stable weight. **NOTE!** The lock feature is for non-commercial (NOT "Legal for Trade") applications.

BMI / ENTER



The **BMI / ENTER** key serves several purposes. First, during setup parameters, pressing it will display the current setting of the parameter. Second, it is used to signal completion of the data entry and causes the indicator to process the data entered. Third, it is used during normal operation to enter the height (feet and inches or centimeters) for the Body Mass Index (BMI) calculation.

NOTE! The indicator will not respond to pressing the **BMI / ENTER** key unless the weight display is stable.

Arrow Keys

The arrow keys are used during setup and calibration to select setup values. During operation, they are used to increase or decrease the BMI height values.

Pressing the ♠ or ▶ keys will increment or decrement the value of the selected digit. Pressing the ♠ or ▶ will move the cursor (blinking character) to the next character position. Pressing the **BMI / ENTER** key will save the value entered and advance to the next prompt. Note, that when moving through the setup prompts, the default or previously selected value appears first on the display.

Pressing the ♠ or ▼ keys during normal operation will enter a weight recall option allowing the last 10 weights recorded to be reviewed. The weight is recorded each time the weight is locked. The **ZERO** key can be used to clear the recorded values. Use the ♠ or ▼ keys to scroll through the 10 records. Press any other key to return the indicator to normal operation.

NOTE! While reviewing the recorded weights, the display will alternate between the transaction number and the weight.

ANNUNCIATORS

The annunciators are turned on to indicate that the display is in the mode corresponding to the annunciator label or that the status indicated by the label is active.

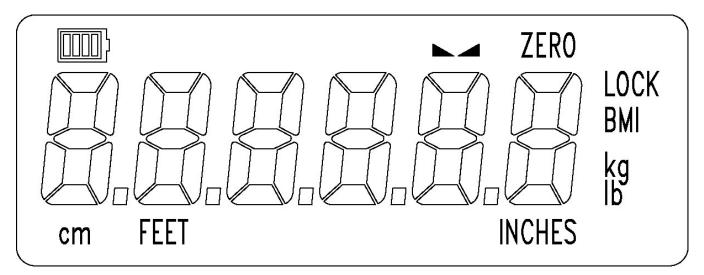


Figure No. 7



The low battery annunciator is located in the upper left corner of the display. It is used to indicate the battery status. Refer to Power Connection section of this manual for more details.

▲ (STABLE)

This annunciator is turned on when the weight display is stable. When off, it means that the change in successive weight samples is greater than the motion limits selected during setup.

ZFRO

This annunciator is turned on to indicate that the weight displayed is within +/- 1/4 division of the center of zero.

LOCK

This annunciator is turned on to show that the indicator is locked onto the displayed weight. In operation, after obtaining a stable weight, pressing the **LOCK/RELEASE** key will cause the indicator to lock onto the weight and turn on the annunciator. Pressing the key again (or dropping below the Auto Lock reset value) will unlock the display and turn off the annunciator. **NOTE!** The lock feature must be enabled during setup.

BMI (Body Mass Index)

This annunciator is turned on when displaying the calculated body fat.

kg

This annunciator is turned on to indicate that the displayed weight is in kilograms.

lb

This annunciator is turned on to indicate that the displayed weight is in pounds.

cm

This annunciator is turned on when the displayed height measurement is in centimeters.

FEET INCHES

These annunciators are turned on when the displayed height measurement is in feet and inches.

OPERATION

Basic Weighing Operation

To Weigh

- 1. Press **ON / OFF** key to turn on indicator.
- 2. Press **ZERO** key to zero weight display. The ZERO and lb or kg annunciator will turn on to show that scale is ready for use.
- 3. Place patient on scale and read weight display.
- 4. Remove patient from scale.

Zero Weight Display

- 1. If the indicator is not showing zero weight on the display, press **ZERO** key.
- 2. Weight display will return to zero. ZERO, STABLE ▲ and lb or kg annunciators will turn on to show a stable, center-of-zero weight condition.

Metric Conversion

Press **UNITS** key to toggle between pounds and kilograms. Note that lb or kg annunciator will turn on to show which weighing unit is active.

Zero Weight Display with Item on Scale

- 1. Place item (wheelchair, walker, etc...) on scale.
- 2. Display will show weight of item on scale.
- 3. Press **ZERO** key.
- 4. Weight display will return to zero. ZERO, STABLE ▲ and Ib or kg annunciators will turn on. The item's weight has been "zeroed off".
- 5. Proceed with weighing operation.

Body Mass Index (BMI) Operation

To Weigh and Calculate BMI

- 1. Press **ON / OFF** key to turn on indicator.
- 2. Press **ZERO** key to zero weight display. The ZERO and lb or kg annunciator will turn on to show that scale is ready for use.
- 3. Place patient on scale and read weight display.
- 4. Press BMI / ENTER key.
- 5. If pounds is the active weighing unit, display will change to show 5 $_{\text{FEET}}$, δ $_{\text{INCHES}}$ with the 6 blinking. (The blinking character is the position to be changed).
 - a. Press or vector keys until desired height in inches is displayed and then press
 ✓ or Vector keys to move the blinking character to FEET.
 - b. Press or keys until desired height in feet is displayed.
 - c. Proceed to Step 7.
- 6. If kilograms is the active weighing unit, display will change to show 170 cm. with the 0 of 170 blinking. (The blinking character is the position to be changed)...
 - a. Press ♠ or ▼ keys until the desired number is displayed.
 - b. Press ◀ or ▶ key to move to next character to change.
 - c. Repeat steps A and B until the desired height in centimeters is displayed.
 - d. Proceed to Step 7.
- 7. Press BMI / ENTER key.
- 8. Read BMI on display.
- 9. Remove patient from scale.
- 10. Press **BMI / ENTER** key to return to weighing operation.

NOTE! The **BMI / ENTER** key can be used to toggle between the calculated BMI value and the weight until the scale goes below 10% of capacity (40 lbs). At that point, a new height input is required.

SETUP AND CALIBRATION

Your Model 750 indicator has been thoroughly tested and calibrated before being shipped to you. If you received the indicator with a scale, calibration is not necessary. If the indicator is being connected to a scale for the first time or recalibration is necessary for other reasons, proceed as indicated.

Calibration of the indicator is accomplished entirely by the keypad. To enter setup and calibration, the calibration switch must be pushed in and held while turning on the indicator.

Begin Setup and Calibration:

- 1. With power off, remove the 2 screws from the left end cap (as viewed from indicator front) and remove the end cap.
- 2. Locate the calibration switch on the circuit board and push it in. See Figure No. 8.
- 3. With the switch held in, press the **ON / OFF** key.
- 4. When display shows 5 E L UP, release the calibration switch. The indicator is now ready for setup and calibration.

During setup and calibration it is necessary to enter values using the indicator's keypad. When a prompt is displayed on the indicator, press the **BMI / ENTER** key to view the current setting. To retain the current setting and proceed to the next prompt, press the **BMI / ENTER** key again. To change a setting, press the ♠ or ▶ keys (up or down arrow) to scroll through and select a new value. After a new value has been selected, press the **BMI / ENTER** key to save it and advance to the next prompt. Note that some setup prompts have values with 2 or more digits. The blinking character is the position to be changed and can be advanced to the next position by pressing the ◀ or ▶ (left or right arrow) key.

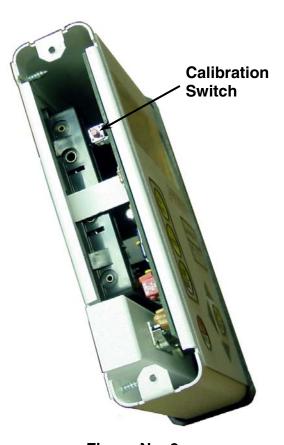


Figure No. 8



DO NOT operate the keypad with pointed objects (pencils, pens, etc). Damage to keypad resulting from this practice is NOT covered under warranty.

USR: (DOMESTIC or INTERNATIONAL)

This is the prompt to select whether the indicator is used in the USA (domestic) or outside the USA (international). Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ▼ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are: 0 or 1.

USA = 1 (Domestic)

USA = 0 (International)

No Zero Limit

+/- 4% Zero Limit

int : (INTERVAL SETTING)

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ✔ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are: 1, 2 or 5.

Un it : (WEIGHING UNIT)

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ★ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are: 1, 2, 3 or 4.

1 = Pounds Only 2 = Kilograms Only

3 = Pounds/Kilograms 4 = Kilograms/Pounds

5 = Pounds & Ounces/Kilograms (if USA=1)

Łr8: (ZERO TRACKING RANGE)

Zero tracking range is a value in scale divisions that will be automatically zeroed off. Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ➤ keys and the ◀ or ▶ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are 1 through 18 (1 to 9 divisions by 0.5 divisions). Select 0 (zero) to disable zero tracking.

Un5: (MOTION (UNSTABLE) RANGE)

The Motion (Unstable) Range is the number of divisions of change permitted before the STABLE annunciator turns off.

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ★ keys and the ◀ or ▶ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are 0 through 99.

dpp: (DECIMAL POINT POSITION)

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ✔ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are: 0, 1, 2, or 3.

0 = XXXXXX 1 = XXXXXXX 2 = XXXXXXX 3 = XXXXXXX

[RP: (SCALE CAPACITY)

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ★ keys and the ♠ or ▶ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are: 1 through 99,999.

FLE: (DIGITAL FILTER LEVEL SELECTION)

Your indicator will arrive with factory filter settings of 1 = Minimal. *Please check with Tech Support before changing filter level, break range and sample rate.*

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ▼ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are:

0 = Minimal Filter **1** = Moderate Filter **2** = Heavy Filter **3** = Custom Filter

NOTE! If 3 = Custom Filter is selected, two additional prompts will be displayed.

F = (FILTER LEVEL)

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ★ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are 1 (least amount of filtering) to 99 (greatest amount of filtering).

br : (BREAK RANGE)

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the \triangle or \checkmark keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are $\underline{1}$ to $\underline{99}$ which correspond to the number of division changes to break out of filtering.

5r = (SAMPLE RATE)

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ✔ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are a minimum of 1 sample per second to a maximum of 16 samples per second in one sample per second intervals.

[RL: (CALIBRATION)

With the display showing ERLz, press the **BMI / ENTER** key. The display will change to show the current setting U(0=NO). If the scale has been previously calibrated and you wish to skip calibration and proceed to the HULdz (Hold Mode) prompt, press the **BMI / ENTER** key and the previous calibration will be retained.

To begin calibration, press the ♠ key to select 1 (yes) and then press the BMI / ENTER key. After pressing the BMI / ENTER key, the display will change to L URd = .

LoRd: (LOAD CALIBRATION WEIGHT)

With the display showing $L \circ R d = perform$ the following steps:

- 1. Make certain the scale platform is empty and free of debris.
- 2. Place the desired amount of calibrated test weights on the scale platform. A minimum of 50% of scale's capacity is required. However 70% to 100% is recommended.
- 3. Press the BMI / ENTER key.
- 4. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, determine the exact amount of test weight placed on the scale platform and then using the ♠ or ▶ keys and the ◀ or ▶ keys scroll through and select the test weight amount.
- 5. Verify that the numbers selected are the same as the amount of the test weight and then press the **BMI / ENTER** key.
- 6. Starting at the left and preceding right, a series of dashes will appear on the display. The dashes will stay on the display momentarily, then disappear, after which the display will proceed to the next prompt.

Unload CALIBRATION WEIGHT)

After a moment, the display will change to UnLoRd.

- 1. Remove the test weights from the scale platform and then press the **BMI / ENTER** key.
- 2. Starting at the left and preceding right, a series of dashes will appear on the display. The dashes will stay on the display momentarily, then disappear, after which the calibration factor will be saved and the display will proceed to the next prompt.



IMPORTANT! During the time the dashes are appearing on the display, insure that the loaded (or empty) scale is stable.

5866 (SET GRAVITY CONSTANT)

This indicator is equipped with an acceleration of gravity function which means that it can be calibrated in one location and then adjusted to match the acceleration of gravity at the location where it will used.

With the display showing 5EEGE press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ightharpoonup response of value and then press the**BMI / ENTER**key to save it and proceed to the next prompt. Allowable values are: 0 or 1.

SEtGC = 0

SEtGC = 1

Gravity Constant is NOT used

Set Gravity Constant

NOTE! If you select 1 (Set Gravity Constant) the following additional prompts will be displayed:

ERLUCE (CALIBRATED GRAVITY CONSTANT)

The display will change to show <code>ERLGE=</code>. Press the **BMI / ENTER** key to show the current setting. This is the acceleration of gravity value of the location where the scale was calibrated. If the value displayed is acceptable, press the **BMI / ENTER** key to save it. Otherwise, press the ♠ or ▶ keys and the ◀ or ▶ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Consult the factory Tech Support for the Acceleration of Gravity value for your location.

UPGE : (OPERATING GRAVITY CONSTANT)

The display will change to show $\circ PGE = 0$. Press the **BMI / ENTER** key to show the current setting. This is the acceleration of gravity value for the location where the scale will be operated. If the value displayed is acceptable, press the **BMI / ENTER** key to save it. Otherwise, press the \frown or \checkmark keys and the \blacktriangleleft or \checkmark keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Consult the factory Tech Support for the Acceleration of Gravity value for your location.



NOTE! Once the Gravity Constant has been set, both [866] and of [6] must be set to the same value to disable it.

SETUP AND CALIBRATION, CONT.

Hold: (HOLD MODE)

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ▼ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are: 0, 1, or 2.

0 = NO (disable)

1 = YES (enable)

2 = AUTO (Automatic Hold)

- If Hold: 0 or I (NO or YES) is selected, proceed to the PUD: (Power Up Zero) prompt.
- If Hold: 2 (AUTO) is selected, an additional prompt band: (Auto Lock Reset Band) will be displayed. Proceed to the band: prompt to continue setup.

With Hold feature enabled ($H \circ L \circ I$), the indicator will lock the displayed weight on the display when **LOCK/RELEASE** key is pressed. Pressing the key again will unlock display. If automatic hold ($H \circ L \circ I \circ I$) is selected, the indicator will automatically lock the weight on the display after obtaining a stable weight value that exceeds the Auto Lock Reset Band value. Refer to Auto Lock Reset Band setup below.



NOTE! The HOLD mode of operation is only used in non-commercial applications and must be DISABLED (set to 0 = NO) for "Legal for Trade" applications.

bRnd: (AUTO LOCK RESET BAND)

If Auto Lock is selected, the display will change to show the bRndz (Auto Lock Reset Band) prompt. This is the number of division changes needed to reset the auto lock. For the Auto Lock to function, the load on the scale must rise above the bRndz value (and remain stable). To release Auto Lock, the load on the scale must fall below the bRndz value. At that point, the next weighing operation can begin.

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ➤ keys and the ◀ or ▶ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are: 0 through 99.

PUD: (Power Up Zero)

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ▼ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are: 0 or 1.

PUO = 1 (YES)

PUO = 0 (NO)

Weight display will be reset to zero automatically on power up

weight display will not be reset to zero

n ₁ [8d (Battery Type Selection)

This setting determines whether Alkaline, NiCad (or NiMH) batteries are used for battery operation.

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ▼ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are: 0, 1, or 2.

- 0 Alkaline batteries battery charging is DISABLED
- 1 NiCad or NiMH batteries battery charging is ENABLED
- 2 Battery charging is ENABLED and FORCED ON. This selection forces battery charging for NiCad or NiMH batteries that are discharged.



CAUTION! Selecting 1 or 2, enables battery charging. \underline{DO} NOT select 1 or 2, when using Alkaline batteries.

5LEEP: (Sleep Mode)

The Sleep Mode feature also conserves battery power when the indicator remains unused for a period of approximately 1 to 9 minutes. When enabled, the load cell excitation will be reduced and the display will show 5LEEP. The Sleep feature requires the indicator to remain at the center of zero to activate, unlike Automatic Shutoff feature which only requires no motion. Weight placed on scale will activate indicator and return it to weight mode.

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ➤ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are 0 through 9 with 0 disabling Sleep Mode

858: (Automatic Shutoff)

The Automatic Shutoff feature will turn the indicator off after a period of approximately 1 to 9 minutes of inactivity to prolong battery life. You must press the **ON/OFF** key to turn indicator back on.

Press the **BMI / ENTER** key to view the current setting. If the value displayed is acceptable, press the **BMI / ENTER** key again. Otherwise, press the ♠ or ★ keys to scroll through and select a new value and then press the **BMI / ENTER** key to save it and proceed to the next prompt. Allowable values are 0 through 9 with 0 disabling Automatic Shutoff.

Setup and Calibration Is Completed

The setup and calibration process has been completed. The indicator will reset and then turn off. Remove power from the indicator and re-assemble for use.

SETUP REVIEW

The 750 indicator allows several operational parameters to be reviewed and changed as necessary without having to enter the setup mode.

To Enter Setup Review:

- 1. If indicator is on, press **ON / OFF** key.
- 2. Display will show off and indicator will turn off.
- 3. Press and hold **BMI / ENTER** key and then press **ON / OFF** key.
- 4. Indicator will perform a lamp test (turn on all segments of display), display model number and software revision and then display PUB prompt.
- 5. With display showing PUO, release BMI / ENTER key.
- 6. Refer to instructions listed in Setup and Calibration section for information on how to change parameters.

Parameters in Setup Review will be processed in the following sequence:

PUD Enable or Disable automatic reset of weight display to zero on power up
 n LRd Select to use Ni-Cad (NiMH) or Alkaline batteries and type of charging
 5LEEP Disable or select number of minutes of inactivity at zero for sleep mode
 R5H Disable or select number of minutes for automatic shutoff timer

ERROR AND STATUS DISPLAYS

Display	Meaning
-8	General error, invalid keypad entry was attempted.
- OF -	Attempting to display a negative number greater than -9,999 or a positive number greater than 99,999
-6-6-	Indicates an attempt to zero a weight outside scale zero range. (See Four Percent Zero Tracking Range Limit).
-Un5-	Motion is present when indicator is attempting to perform one of the following operations: Power Up Zero or Zero Weight Display
CAL 1P	Indicates calibration is necessary.
AdErr	
ErrAL	Consult your scale service representative.
ErrRH	
0C RP	Scale weight exceeds scale capacity
OFF	Displayed to indicate indicator is turning off.

BEFORE YOU CALL FOR SERVICE

PROBLEM

POSSIBLE SOLUTIONS

Display does not turn on

AC Operation:

- Is AC power supply fully inserted into wall receptacle?
- Check wall receptacle for proper AC power. Try another electrical appliance in same receptacle, does it work?
- Check circuit breaker.
- Has there been power failure?

Battery operation:

- Check if batteries are installed and correctly.
- Are batteries discharged?

If Alkaline, remove old batteries and replace with new ones.

If NI-CAD or NiMH, connect the 12 VDC, 1 Amp power supply's connector into the power jack on the back of the indicator and then plug the power supply into the proper electrical outlet to operate the indicator and recharge the batteries.

Incorrect weight displayed

Insure that scale platform isn't touching an adjacent object. Have proper operation procedures been followed?

Indicator will not display weight

Refer to Error and Status Displays section.

CARE AND CLEANING

- 1. **DO NOT** submerge indicator in water, pour or spray water directly on indicator.
- 2. **DO NOT** use acetone, thinner or other volatile solvents for cleaning.
- 3. **DO NOT** expose equipment to temperature extremes.
- 4. **DO NOT** place equipment in front of heating/cooling vents.
- 5. **DO** clean the indicator with a damp soft cloth and mild non-abrasive detergent.
- 6. **DO** remove power before cleaning with a damp cloth.
- 7. **DO** provide clean AC power and adequate protection against lightning damage.
- 8. **DO** keep the surroundings clear to provide clean and adequate air circulation.

EVENT COUNTER

The 750 weight indicating instrument has been designed with an Event Counter type of security seal. When selected, the 750 will display two 3-digit numbers representing the Calibration and Configuration counters.

Calibration Counter

The calibration counter is incremented when a value in the calibration part of setup is changed (USR, Int, Unit, ErR, UnS, dPP, ERP, FLE, F, br, Sr, ERL, SEEGE, ERLGE, UPGE). The counter is only incremented 1 time even if more than one parameter is changed each time through setup.

Configuration Counter

The configuration counter is incremented when a value in the configuration part of setup is changed (HoLd, bRod, PUD, o IERd, 5LEEP, R5H). The counter is only incremented 1 time even if more than one parameter is changed each time through setup.

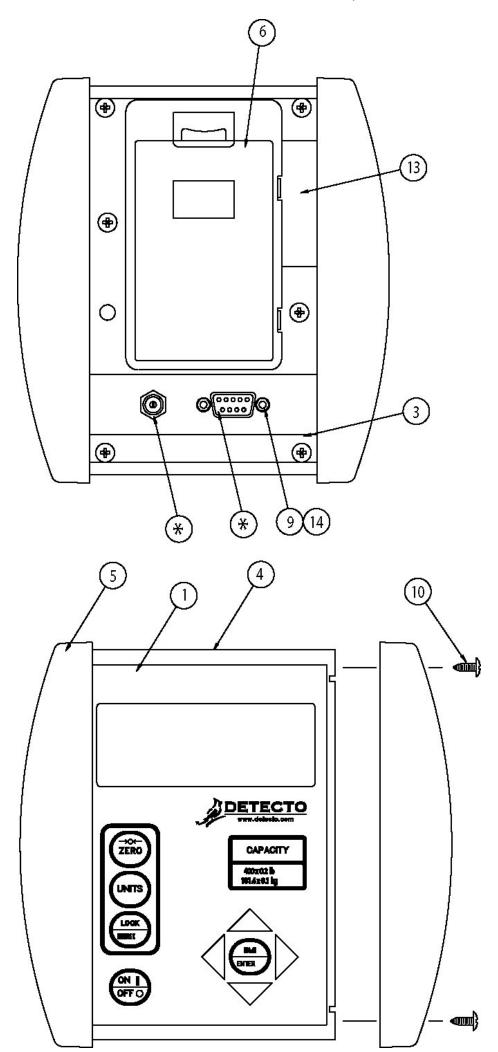
To Review the Event Counter:

- 1. If indicator is on, press **ON/OFF** key.
- 2. Display will show off and indicator will turn off.
- 3. Press and hold the UNITS key and then press ON/OFF key.
- 4. The display will then show ERL EH (Calibration Check) for two (2) seconds followed by two 3-digit numbers.
 - The left number represents the setup Configuration counter.
 - The right number represents the Calibration counter.
- 5. To return to the normal operation, press the **UNITS** key.
- 6. Otherwise press the **ON/OFF** key to turn off the indicator.

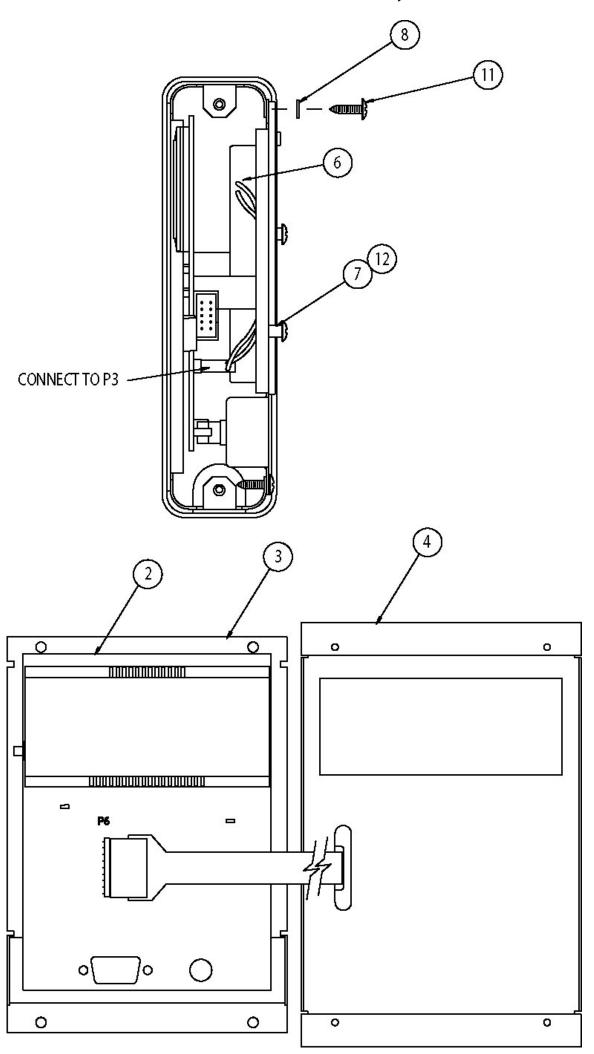
PARTS IDENTIFICATION

Item	Qty	Part Number	Description
1	1	8555-D252-08	KEYPAD
2	1	8555-D251-0A	PC BOARD
3	1	8555-C255-08	REAR PANEL
4	1	8555-C253-08	FRONT PANEL
5	2	8555-C213-08	END CAP
6	1	8555-B257-0A	BATTERY HOLDER
7	2	8555-B254-08	MOUNTING SPACER
8	4	6680-0004	WASHER, #6 LOCK INT. TOOTH
9	2	6610-2000	JACK SOCKET
10	4	6021-6008	SCREW, #6X.375 TH SHEET METAL (BLACK)
11	4	6021-2069	SCREW, #6X.50 TH SHEET METAL (WHITE)
12	2	6021-0687	SCREW, #6-32X.312 THMS W/THD-LOCK PATCH
13	1	593GR986	SERIAL TAG
14	2	6680-0052	WASHER, #4 LOCK HELICAL
*			PART OF ITEM 2, PC BOARD, 8555-D251-0A

PARTS IDENTIFICATION, Cont.



PARTS IDENTIFICATION, Cont.



STATEMENT OF LIMITED WARRANTY

Detecto Scale warrants its equipment to be free from defects in material and workmanship as follows: Detecto warrants to the original purchaser only that it will repair or replace any part of equipment which is defective in material or workmanship for a period of one (1) year from date of shipment. Detecto shall be the sole judge of what constitutes a defect.

During the **first ninety (90) days** Detecto may choose to supply all necessary replacement parts and service during normal weekday working hours at no charge to the buyer.

After the first ninety (90) days Detecto will supply parts and service at the job site provided the owner agrees to pay the Dealer for all travel time, including mileage and test equipment, as well as any expenses incurred over the direct labor of the technician at the job site. This limited warranty honors only labor performed by Detecto authorized dealers.

This warranty does not apply to peripheral equipment not manufactured by Detecto; this equipment will be covered by certain manufacturer's warranty only.

This warranty does not include replacement of expendable or consumable parts. This does not apply to any item which has deteriorated or damaged due to wear, accident, misuse, abuse, improper line voltage, overloading, theft, lightning, fire, water or acts of God, or due to extended storage or exposure while in purchaser's possession. This warranty does not apply to maintenance service. Purchased parts will have a ninety (90) day repair or replacement warranty only.

Detecto may require components be returned to the factory; they must be properly packed and shipping charges prepaid. A return authorization number must be obtained for all returns and marked on the outside of all returned packages. Detecto accepts no responsibility for loss or damage in transit.

STATEMENT OF LIMITED WARRANTY

Conditions Which Void Limited Warranty

This warranty shall not apply to equipment which:

- A.) Has been tampered with, defaced, mishandled or have had repairs and modifications not authorized by Detecto.
- B.) Has had serial number altered, defaced, or removed.
- C.) Has not been grounded according to Detecto's recommended procedure.

Freight Carrier Damage

Claims for equipment damaged in transit must be referred to the freight carrier in accordance with freight carrier regulations.

This warranty sets forth the extent of our liability for breach of any warranty or deficiency in connection with the sale or use of the product. Detecto will not be liable for consequential damages of any nature, including but not limited to, loss of profit, delays or expenses, whether based on tort or contract. Detecto reserves the right to incorporate improvements in material and design without notice and is not obligated to incorporate improvements in equipment previously manufactured.

The foregoing is in lieu of all other warranties, express or implied including any warranty that extends beyond the description of the product including any warranty of merchantability or fitness for a particular purpose. This warranty covers only those Detecto products installed in the forty-eight (48) contiguous continental United States.



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