

758C WEIGHT INDICATOR With Body Mass Index Features Owner's Manual



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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. Request stock No. 001-000-00315-4.

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 to the right indicates that this device must not be disposed of in unsorted municipal waste programs.



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Serial Number	PRECAUTIONS	
Date of Purchase	Before using this indicator, read this manual and pay special attention to all "WARNING"	
	symbols:	
RETAIN THIS INFORMATION FOR FUTURE USE		

INTRODUCTION

Thank you for purchasing our Model 758C Weight Indicator. 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.

SPECIFICATIONS

Power Requirements	6 "C" cell Alkaline, Ni-Cad or NiMH batteries (<i>not included</i>) OR an optional 100 to 240 VAC 50/60Hz 12 VDC 1A wall plug-in UL/CSA listed AC power adapter (Cardinal part number 6800-1045).
Operating Temperature	14 to 104 °F (-10 to +40 °C)
Display	Weight: Five digit, seven segment, 1/2" (13 mm) high LCD Height: Four digit, seven segment, 3/8" (10 mm) high LCD
Sensitivity	1.2 uV/division (0 to 3.0 mV/V), Class III
Signal Input Range	0 to 15mV max.
Transducer Excitation	5.0 VDC
Number of Load Cells	up to 4 each 350Ω
Load Cell Cable Length	10 feet (3 meters) max.
Resolution	5,000 divisions
Capacities	1,000 to 5,000 divisions commercial up to 10,000 divisions noncommercial
Division Value	1, 2, 5 or 10 x 1, 0.1, 0.01, 0.001
Sample Rate	1 to 10 samples per second selectable
Auto Zero Range	0.5 or 1 through 9 divisions
Weighing Units	Pounds, kilograms, ounces, grams or Stones and pounds/kilograms
Keyboard	Membrane type with 19 keys
Enclosure Size	9.5" W x 6.625" H x 2.125" D (24 cm W x 17 cm H x 5 cm D)
Construction	Painted Steel

Standard Features:

- Metric Conversion
- Auto Shut-Off Feature
- Selectable Sleep-Mode
- Selectable Filtering

Optional Features:

- 758-IP Ethernet Option
- Detecto DHR (Digital Height Rod)

- Serial I/O (Input/Output)
- USB Device Port
- Height Rod Port (for Optional Detecto Digital Height Rod)
- Optional 12VDC AC Power Adapter
- Optional Welch Allyn[®] WAConnect

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SITE PREPARATION REQUIREMENTS

The Model 758C Weight Indicator is a precision weight indicating instrument. As with any precision instrument, it requires an acceptable environment to operate at peak performance and reliability. This section is provided to assist you in obtaining such an environment.

Environmental

The Model 758C Weight Indicator meets or exceeds all certification requirements within a temperature range of 14 to 104 °F (-10 to +40 °C).

In order to keep cooling requirements to a minimum, the indicator should be placed out of direct sunlight and to provide adequate air circulation, keep the area around the indicator clear.



Do not place the indicator directly in front of a heating or cooling vent. Such a location will subject the indicator to sudden temperature changes, which may result in unstable weight readings.





Insure that the indicator has good, clean AC power and is properly grounded. In areas subject to lightning strikes, additional protection to minimize lightning damage, such as surge suppressors, should be installed.



Electrical Power

The 758C indicator has been designed to operate from a 100 to 240 VAC 50/60Hz 12 VDC 1A wall plug-in UL/CSA listed AC power adapter. Note that a special order is <u>not</u> required for operation at 230 VAC.

- The socket-outlet supplying power to the indicator should be on a separate circuit from the distribution panel and dedicated to the exclusive use of the indicator.
- The socket-outlet shall be installed near the equipment and shall be easily accessible.
- The wiring should conform to national and local electrical codes and ordinances and should be approved by the local inspector to assure compliance.
- On installations requiring 230 VAC power, it is the responsibility of the customer to have a qualified electrician install the proper power adapter plug that conforms to national electrical codes and local codes and ordinances.

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.



Figure No. 1

Mounting

The indicator may be mounted (using an optional bracket) to a desktop, table or bench. It can be mounted on a wall using the two (2) holes in the mounting bracket and two (2) #10 screws placed 2.00 inches (51 mm) apart in the wall.

To install indicator on bracket, push latch release down flush with back of indicator and hold. Next, place large end of slotted holes in bracket over screw heads on back of indicator. Pull down to secure indicator. Release latch release to lock indicator to bracket. See Figure No. 1.

Regardless of how and where you mount indicator, it should be in a safe area where it will not be in the way of normal traffic. The location chosen should be free of temperature extremes and water, is not subject to direct sunlight and should be mounted where the display is easily viewed and within easy reach of the operator.

If wall mounted, make certain the structure and mounting bolts are of sufficient strength to support the indicator. The mounting bracket should be securely fastened to the wall so it cannot break loose.

INSTALLATION, CONT.

INTERCONNECTIONS

All input, output, options and power connections to the 758C are made at the rear panel of the indicator. Connections for the Load Cell input and the Serial I/0 are made using 9-pin "D" shaped connectors. The Height Rod option (Detecto DHR, Digital Height Rod) and Ethernet (758-IP) options use snap-in modular connectors. The USB port is a device (or upstream) port using an industry standard "B" connector. The optional 12VDC wall plug-in UL/CSA listed AC power adapter is connected using a power jack. Refer to Figure No. 1.

Optional AC Power Adapter

To power the 758C using the optional 12VDC wall plug-in AC power adapter, connect the plug from the adapter into the power jack on the back of the indicator and then plug the power adapter into the proper electrical outlet. Refer to Figure No. 1. On models requiring 220 VAC, it is the customer's responsibility to obtain the correct power adapter plug.

Height Rod - Detecto DHR (Digital Height Rod) Option

The optional Detecto DHR (Digital Height Rod) connects to the 758C by a snap-in modular connector socket. Insert the modular connector of the DHR cable into the socket on the rear of the display it locks in place (a clicking sound will be heard when it is locked in place).

Load Cell

The load cell cable connects to the 758C via a 9-pin "D" connector on the rear panel of the indicator. Figure No. 2 shows the pin identification for the load cell connector. Make certain that the pins are correctly identified before soldering a wire to them. Use the connector retaining screws to hold the load cell cable connector securely to the rear panel.

PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	+EXCITATION	6	-EXCITATION
2	-SIGNAL	7	+SIGNAL
3	No Connection	8	No Connection
4	No Connection	9	No Connection
5	SHIELD		

MATING CONNECTOR INFORMATION

DESCRIPTIONITEMCONNECTORDE9-PCONNECTOR SHELLC883010001

Cardinal Part # 6610-2379 6610-1131



USB

The USB port is a device (or upstream) port and uses readily available cables with the industry standard "B" connector.

USB, Serial and Ethernet Interface Specifications

The 758C USB, Serial and optional Ethernet interfaces can be configured during the setup and calibration procedure or during the setup review operation. Using either method, it is possible to select the operation of the interfaces.

The interfaces may be connected to a computer for transmission of weight and associated data to a PC-based EMR (electronic medical record) software program. The data can be transmitted on demand (pressing the **PRINT/ENTER** key) or on receipt of a command from the computer. Note that only the serial interface can be connected to a printer to record weight and associated data.

INSTALLATION, CONT.

Serial I/O Port

The 758C RS-232 serial I/O port is a 9-pin "D" connector on the rear panel of the indicator. Figure No. 3 shows the Serial I/O connector along with the identity of the pins used. Make certain that the pins are correctly identified before soldering a wire to them. Use the connector retaining screws to hold the serial cable connector securely to the rear panel.

PIN NO.	FUNCTION
2	DATA INPUT (RXD)
3	DATA OUTPUT (TXD)
5	SIGNAL GROUND (GND)

Note that pins 1, 4 and 6 through 9 are not used.

The 758C RS-232 serial interface can be configured during the setup and calibration procedure or during the setup review operation. Using either method, it is possible to select the operation of the serial interface as well as select the baud rate.

- The baud rates supported are: 1200, 2400, 4800, 9600, 19.2K and 38.4K baud.
- The data format is fixed at 8 bits, No parity, and 1 stop bit.
- The indicator is shipped from the factory with the baud rate set to 9600 baud.



Figure No. 3

Ethernet (Optional)

The 758C Ethernet option requires the purchase of the optional 758-IP Ethernet Interface Option. Once installed, connections to the 758C are by CAT 5 or equivalent cable. Consult your network administrator for the proper procedure to terminate and connect the cable.

BATTERIES

The 758C indicator can use 6 "C" size Alkaline, Ni-Cad or NiMH batteries (*not included*). You must first obtain and install batteries before operations can begin. Batteries are contained in a battery holder inside indicator. Access is via a removable panel on back of indicator.



CAUTION! The 758C can be operated from Alkaline, Ni-Cad or NiMH batteries. All six (6) batteries must be of the same type. They must all be Alkaline, all Ni-Cad or all NiMH. **DO NOT** mix Alkaline and Ni-Cad or NiMH batteries.



IMPORTANT! The 758C <u>does not</u> have a battery charging circuit. Should you wish to use Ni-Cad or NiMH batteries, they must be <u>fully</u> charged before installing. When discharged, Ni-Cad or NiMH batteries must be removed and placed in an external charger to recharge.

CAUTION: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

ATTENTION: RISQUE D'EXPLOSION SI LA BATTERIES EST REMPLACE'E PAR UN TYPE INCORRECT. REJETEZ LES BATTERIES UTILISE'ES SELON LES INSTRUCTIONS.

INSTALLATION, CONT.

Battery Status

If batteries are used, the indicator will show battery status on power up. The display will show bREErY then change to $\equiv YY \equiv$, where YY indicates remaining battery voltage expressed as a percentage (%) of total battery voltage

Low Battery Indicator

When batteries are near the point they need to be replaced (Alkaline) or recharged (NiCad or NiMH), the low battery annunciator on display will turn on. (See Figure No. 5 or 6). If the battery voltage drops too low for accurate weighing, the indicator will automatically shut off and you will be unable to turn it back on.

Using Alkaline Batteries

When the low battery annunciator turns on, turn the indicator off, remove the old batteries and replace with new ones.

Using NiCad or NiMH Batteries

When the low battery annunciator turns on, turn the indicator off, remove the discharged batteries and replace with fully charged ones. Place the discharged batteries in an external charger to recharge.

Battery Installation/Replacement

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

- 1. Make sure the AC power adapter is unplugged.
- 2. Remove the indicator from the mounting bracket and turn the indicator over so that the display is facing away from you.
- 3. Locate the rectangular panel on the back of indicator and remove the thumb screw.
- 4. Remove the panel (lift straight up and slide it out) exposing the battery holder.
- 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 new 6 "C" size batteries in the holder, noting the polarity markings located in the battery holder. Refer to Figure No. 4.
- 7. After placing all 6 batteries in holder, replace panel on back of indicator (slide tab into slot on rear panel) and install thumb screw.
- 8. Turn the indicator over (display facing up) and press the **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 mounting bracket.
- 11. The indicator is now ready for operation.



Figure No. 4

KEYPAD FUNCTIONS



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



Figure No. 5



This is the **ON/OFF** key. With the indicator off, pressing this key will apply power to the indicator and turn on the display. If the indicator is already on, pressing the key again will turn the indicator off.

Basic Functions



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



This is the **UNITS** key. 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.

KEYPAD FUNCTIONS, CONT.



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

Body Mass Index (BMI) Functions



This is the **NET/GROSS** key. It is used to toggle between Net and Gross weight modes. The selected mode is indicated by turning on the appropriate annunciator on the display. Note that if no valid tare weight has been entered, pressing this key will cause a momentary display $-\mathcal{E}_{CC}$ and the indicator will remain in the Gross weight mode.



This is the **TARE** key. It is a dual function key. Pressing it and pressing the **PRINT/ENTER** key (Pushbutton Tare mode) will cause the current gross weight to be stored as the new tare weight and change the weight display to the net weight display mode (Net annunciator will turn on). Pressing this key, entering a numeric value (Keypad Tare) and then pressing the **PRINT/ENTER** key will cause the value entered to be accepted as the new tare weight.



NOTE: Tare weights equal to or greater than scale capacity cannot be entered. In addition, the keypad tare weight division value must be the same as the scale division value. For example, a unit with .05 kg as the division value will display $-\epsilon_{rc}$ - if you attempt to enter 1.03 for the tare weight.



This is the **ID/HEIGHT** key. This key is used to display and enter an identification (ID) number use in the ID Storage feature and to enter the height (feet and inches or centimeters) for the Body Mass Index (BMI) calculation.

Pressing this key will change the display to show the currently selected identification (ID) number and allow the entry of a new ID number.

The identification (ID) number can be up to 11 digits. When entering an ID number, the digits start displaying on the right side of the ID display and proceed to the left. When an ID greater than 4 digits is used, the digits will automatically scroll off the left side of the display to show the additional digits on the right as they are entered.



This is the **CLEAR** key. It is used to clear an incorrect entry from the display without processing the data. If an incorrect entry is made, press the **CLEAR** key and re-enter the correct data. When entering the ID, pressing the **CLEAR** key will act as a "backspace" key (it will back up one space and delete the character in that space). **NOTE:** The **CLEAR** key must be pressed before the **PRINT/ENTER** key to ensure the data is not processed.

KEYPAD FUNCTIONS, CONT.



This is the **PRINT/ENTER** key. It serves several purposes. First, when reviewing setup parameters, pressing the **PRINT/ENTER** key will display the current setting of the parameter. Second, the **PRINT/ENTER** key is used to signal completion of the data entry and causes the indicator to process the data entered. Third, the **PRINT/ENTER** key is used to initiate the transmission of weight and associated data using the selected I/O port.



NOTE: The indicator will not respond to pressing the **PRINT/ENTER** key unless the weight display is stable. If displaying gross weight, only the gross weight is printed. If displaying net weight, the gross, tare, and net weights are printed. If the ID and BMI features are used, their data is printed along with the weight data.



The **0** through **9** numeric keys are used to enter numeric data during the setup and calibration as well as during normal operation of the indicator.

NOTE: The **0** and **1** keys have dual functions. They are used to enter numeric data during setup and calibration as well as during normal operations and are also used to select yes or no to various prompts.



nControl Feature

The 758C includes support for *nControl*. *nControl* is a PC based program that can design a ticket then download the ticket information to the indicator. The 758C allows 1 programmable format instead of the ASCII format default ticket.

For more information on nControl, refer to the nControl Fast Start Guide.

Time, mm	/dd/yy
ID: BMI: Height: Weight:	xxxxxxxxxxx xx.x xx.x cm xxx.xuu G xxx.xuu T xxx.xuu N

SAMPLE TICKET

NOTE: If the ID/HEIGHT key is disabled, the appropriate field will be left out when printing a ticket.

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. 6

LO BAT

The LO BAT (low battery) annunciator is used with the battery operation. It will turn ON to indicate that the batteries will soon need to be replaced. No change in operation will occur until just before the battery voltage drops to a level where operation is affected. At this level, the indicator will automatically turn itself off.

GROSS

The GROSS annunciator is turned on to show that the weight displayed is the gross weight. Gross weight will be displayed when no tare weight value is stored.

TARE

The TARE annunciator is turned on to show that the indicator is in a weight mode in which a known tare (container) weight value is stored.

NET

The NET annunciator is turned on to show that the weight displayed is the net weight. Net weight is determined by subtracting the stored tare weight from the gross weight. The tare weight is usually the weight of the empty container. Note that the NET annunciator is only active when a tare weight value is stored.

► ▲ (STABLE)

The (Stable) 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 and calibration of the indicator.

ZERO

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

LOCK

The LOCK annunciator is turned on to show that the indicator is locked onto the weight. In operation after obtaining a stable weight value, pressing the LOCK/RELEASE key (or resetting the Auto Lock) will cause the indicator to lock onto the weight and turn on the annunciator. Pressing the LOCK/RELEASE key a second time (or dropping below the Auto Lock reset value) will unlock the display and turn off the annunciator.

NOTE: The lock feature (Hold Mode) must be enabled during setup and calibration.

ANNUNCIATORS, CONT.

kg

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

ST

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

lb

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

oz

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

FT-INCHES

This annunciator is turned on when the displayed height measurement is in feet and inches.

cm

The cm annunciator is turned on to indicate that the displayed height measurement is in centimeters.

BODY MASS INDEX



The BODY MASS INDEX annunciator is turned on when displaying the calculated body fat. The bar graph is used to show a graphical representation (ranging from Low to High) of the Body Mass Index calculation.

Basic Operation

To Weigh

- 1. Press **ON/OFF** key to turn indicator on.
- 2. Press **ZERO** key to zero weight display. ZERO, GROSS and lb, oz, kg or ST annunciator will turn on to show that the scale is ready for use.
- 3. Place patient on scale and read weight display.
- 4. If a printer is connected to scale, press **PRINT/ENTER** key to print a ticket.
- 5. Remove patient from scale.

Zero Weight Display

- 1. In Gross Weight mode (GROSS annunciator on), press **ZERO** key.
- 2. Weight display will return to zero. ZERO and STABLE ▲ annunciators will turn on to show a stable, center-of-zero gross weight condition.

Metric Conversion

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

Push Button Tare (Tare weight is NOT known)

1. In Gross Weight mode (GROSS annunciator on), place item (wheelchair, walker, etc...) to be tared on scale.

IMPORTANT! Tare entry is not allowed if Auto Hold is enabled.

- 2. Press **TARE** key.
- 3. Display will show weight of item on scale and TARE annunciator will turn on.
- 4. Press **PRINT/ENTER** key.
- 5. Display will change to *Q* and NET annunciator will turn on to show that net weight is being displayed. The item's weight has been entered as "tare weight".
- 6. Proceed with weighing operation.

Tare Weight Entry (Tare weight is known)

- 1. In Gross Weight mode (GROSS annunciator on), press **TARE** key.
- 2. Display will show zero or previously entered tare and TARE annunciator will turn on.
- 3. If weight displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, use the numeric keys and enter a new tare weight. Note that when entering tare weights, a maximum of 4 digits can be entered and the numbers advance from right to left in the display. The number of leading or trailing zeros required to obtain your desired tare is dependent upon the DIVISION VALUE selected in the setup procedure.

For example:	Division Value:	0.2
	Desired Tare Value:	1.6 lb
	Key Sequence:	16

- 4. After the new tare weight has been entered, press **PRINT/ENTER** key.
- 5. Display will show a minus Net weight and NET annunciator will turn on.
- 6. Proceed with weighing operation.

Tare Weight Recall

- 1. In Net Weight mode (NET annunciator on), press **TARE** key.
- 2. Display will show previously entered tare for approximately 1 second and then return to Net Weight mode (NET annunciator on).

To Clear the Tare Weight

- 1. Press **NET/GROSS** key to return to Gross weight mode.
- 2. Remove all material from scale platform and press **ZERO** key. This will reset tare weight to zero.

OPERATION, CONT.

Basic Operation with ID

To Weigh

- 1. Press **ON/OFF** key to turn indicator on.
- 2. Press **ZERO** key to zero weight display. ZERO, GROSS and lb, oz, kg or ST annunciator will turn on to show scale is ready for use.
- 3. Press ID/HEIGHT key.
- 4. Display will change to show *d* =.
- 5. Using numeric keys, key-in up to an 11 digit identification number.
- 6. Press **PRINT/ENTER** key.
- 7. Place patient on scale
- 8. Read weight display.
- 9. If a printer is connected to scale, press **PRINT/ENTER** key to print a ticket.
- 10. Remove patient from scale.

Push Button Tare (Tare weight is NOT known)

1. In Gross Weight mode (GROSS annunciator on), place item (wheelchair, walker, etc...) to be tared on scale.

IMPORTANT! Tare entry is not allowed if Auto Hold is enabled.

- 2. Press TARE key.
- 3. Display will show weight of item on scale and TARE annunciator will turn on.
- 4. Press **PRINT/ENTER** key.
- 5. Display will change to zero and NET annunciator will turn on to show that net weight is being displayed. The item's weight has been entered as "tare weight".
- 6. Press ID/HEIGHT key.
- 7. Display will change to show *d*.
- 8. Using numeric keys, key-in up to an 11 digit identification number.
- 9. Press PRINT/ENTER key.
- 10. Proceed with weighing operation.

Tare Weight Entry (Tare weight is known)

- 1. In Gross Weight mode (GROSS annunciator on), press TARE key.
- 2. Display will show 0_0^0 or previously entered tare and TARE annunciator will turn on.
- 3. If weight displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, use the numeric keys and enter a new tare weight. Note that when entering tare weights, a maximum of 4 digits can be entered and the numbers advance from right to left in the display. The number of leading or trailing zeros required to obtain your desired tare is dependent upon the DIVISION VALUE selected in the setup procedure.

For example:	Division Value:	0.2
	Desired Tare Value:	1.6 lb
	Key Sequence:	16

- 1. After the new tare weight has been entered, press **PRINT/ENTER** key.
- 2. Display will show a minus Net weight and NET annunciator will turn on.
- 3. Press ID/HEIGHT key.
- 4. Display will change to show *d* =.
- 5. Using numeric keys, key-in up to an 11 digit identification number.
- 6. Press **PRINT/ENTER** key.
- 7. Proceed with weighing operation.

Body Mass Index (BMI) Operation

Using Mechanical Height Rod or Manually Entering Height

- 1. Press **ON/OFF** key to turn indicator on.
- 2. Press **ZERO** key to zero weight display. ZERO, GROSS and lb, oz, kg or ST annunciator will turn on to show scale is ready for use.
- 3. Perform tare operation if required. Refer to Push Button Tare or Tare Weight Entry in previous section for instructions on using tare.
- 4. Place patient on the scale and then press **ID/HEIGHT** key.
- 5. If Pounds Only or Pounds/Kilograms was selected for Un it in setup, display will change to show FEEL:
 - a. Use numeric keys to enter 1 digit for height in feet, then press **PRINT/ENTER** key.
 - b. Display will change to show InCH =.
 - c. Use numeric keys to enter up to 3 digits (11.9 max.) for height in inches and then press **PRINT/ENTER** key or press **PRINT/ENTER** key if no inches are required.
- 6. If Kilograms Only, Kilograms/Pounds or Stones and Pounds or Kilograms was selected for Un it in setup, display will change to show [n:...
 - a. Use numeric keys to enter up to 4 digits (# # # . #) for height in centimeters and then press **PRINT/ENTER** key.
- 7. Read weight and BMI displays.
- 8. If a printer is connected to scale, press **PRINT/ENTER** key to print a ticket.
- 9. Remove patient from scale.
- 10. If Tare operation was performed, press **NET/GROSS** key to return to Gross weight mode.
- 11. Press **ZERO** key. This will reset tare weight to zero.
- 12. BMI display will clear when weight returns to zero.

Body Mass Index (BMI) Operation with ID

Using Mechanical Height Rod or Manually Entering Height

- 1. Press **ON/OFF** key to turn indicator on.
- 2. Press **ZERO** key to zero weight display. ZERO, GROSS and lb, oz, kg or ST annunciator will turn on to show scale is ready for use.
- 3. Press ID/HEIGHT key.
- 4. Display will change to show d.
- 5. Using numeric keys, key-in up to an 11 digit identification number.
- 6. Press **PRINT/ENTER** key.
- 7. Place patient on the scale and then press **ID/HEIGHT** key.
- 8. If Pounds Only or Pounds/Kilograms was selected for Un it in setup, display will change to show FEEt:
 - a. Use numeric keys to enter 1 digit for height in feet, then press **PRINT/ENTER** key.
 - b. Display will change to show In [H=.
 - c. Use numeric keys to enter up to 3 digits (11.9 max.) for height in inches and then press **PRINT/ENTER** key or press **PRINT/ENTER** key if no inches are required.
- 9. If Kilograms Only, Kilograms/Pounds or Stones and Pounds or Kilograms was selected for Unit: in setup, display will change to show [n:...
 - a. Use numeric keys to enter up to 4 digits (# # # . #) for height in centimeters and then press **PRINT/ENTER** key.
- 10. Read weight and BMI displays.
- 11. If a printer is connected to scale, press **PRINT/ENTER** key to print a ticket.
- 12. Remove patient from scale.
- 13. If Tare operation was performed, press **NET/GROSS** key to return to Gross weight mode.
- 14. Press **ZERO** key. This will reset tare weight to zero.
- 15. BMI display and ID will clear when weight returns to zero.

OPERATION, CONT.

Body Mass Index (BMI) Operation with DHR

Using Digital Height Rod



IMPORTANT! Before performing the operations on this page, the digital height rod <u>must</u> be in its "starting position" (inner sliding tube must be down completely inside outer stationary tube and headpiece folded flat against stationary tube) prior to turning on the indicator. Otherwise, the error message 999.9 will be displayed.

- 1. Make sure height rod is in starting position.
- 2. Press ON/OFF key to turn indicator on.
- 3. Press **ZERO** key to zero weight display. ZERO, GROSS and lb, oz, kg or ST annunciator will turn on to show scale is ready for use. Note that height reading will show 3 7.3 FT-INCHES or 110.0 cm (depending on Unite setting in Setup).
- 4. Perform tare operation if required. Refer to Push Button Tare or Tare Weight Entry in previous section for instructions on using tare.
- 5. Place patient on the scale.
- Grasp height rod at hinge pin (see Figure No. 7) and raise it well above patient's head and then lift headpiece to horizontal position. Carefully lower height rod until headpiece rests on top of patient's head.
- 7. BMI will automatically be displayed with height.
- 8. Read weight, height and BMI displays.
- 9. If height rod was used, while holding headpiece horizontal, raise height rod well above patient's head.
- 10. Remove patient from scale and return height rod to starting position.
- 11. If Tare operation was performed, press **NET/GROSS** key to return to Gross weight mode.
- 12. Press ZERO key. This will reset tare weight to zero.
- 13. BMI display will clear when weight returns to zero.



Figure No. 7

OPERATION, CONT.

Body Mass Index (BMI) Operation with ID and DHR

Using Digital Height Rod



IMPORTANT! Before performing the operations on this page, the digital height rod <u>must</u> be in its "starting position" (inner sliding tube must be down completely inside outer stationary tube and headpiece folded flat against stationary tube) prior to turning on the indicator. Otherwise, the error message 999.9 will be displayed.

- 1. Make sure height rod is in starting position.
- 2. Press **ON/OFF** key to turn indicator on.
- 3. Press **ZERO** key to zero weight display. ZERO, GROSS and lb, oz, kg or ST annunciator will turn on to show scale is ready for use. Note that height reading will show 3-7.3 FT-INCHES or 110.0 cm (depending on Unite setting in Setup).
- 4. Perform tare operation if required. Refer to Push Button Tare or Tare Weight Entry in previous section for instructions on using tare.
- 5. Press **ID/HEIGHT** key.
- 6. Display will change to show *d* =.
- 7. Using numeric keys, key-in up to an 11 digit identification number.
- 8. Press **PRINT/ENTER** key.
- 9. Place patient on scale.
- 10. Grasp height rod at hinge pin (see Figure No. 7) and raise it well above patient's head and then lift headpiece to horizontal position. Carefully lower height rod until headpiece rests on top of patient's head.
- 11. BMI will automatically be displayed with height.
- 11. Read weight, height and BMI displays.
- 12. If a printer is connected to scale, press **PRINT/ENTER** key to print a ticket.
- 13. If height rod was used, while holding headpiece horizontal, raise height rod well above patient's head.
- 14. Remove patient from scale and return height rod to starting position.
- 15. If Tare operation was performed, press **NET/GROSS** key to return to Gross weight mode.
- 16. Press **ZERO** key. This will reset tare weight to zero.
- 17. BMI display and ID will clear when weight returns to zero.



Figure No. 8

SETUP AND CALIBRATION

Your 758C 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 and Setup of the indicator is accomplished entirely by the keypad. To enter the setup and calibration mode:

- 1. With the power off, remove the 2 screws from the right end cap (as viewed from the indicator back) and remove the end cap.
- 2. Locate the calibration jumper J2 on the circuit board and remove the jumper. See Figure No. 9.
- 3. With the jumper removed, press and hold the LOCK/RELEASE key and then press the ON/OFF key.
- The indicator will perform a display test (turn on all digits), show the software version for a few seconds and then change to show 5E LUP.
- 5. Release the LOCK/RELEASE key.
- 6. The display will change to 5EE9C.
- 7. The indicator is now ready for setup and calibration



Figure No. 9

During the setup and calibration process it is necessary to enter operational parameters via the indicator's keypad. The following keys and the numeric keypad are used to input the values.



- 1. Pressing the **PRINT/ENTER** key <u>without</u> entering a new value will retain the current setting and advance to the next prompt.
- 2. Some prompts require only a YES or NO selection.
- **3.** Other prompts require a numeric value to be entered. Use the numeric keypad to enter the new value.
- **4.** In either case, pressing the **PRINT/ENTER** key after changing a setting will save the new value and advance to the next prompt.



CAUTION! The membrane keypad is not to be operated with pointed objects (pencils, pens, fingernails, etc). Damage to keypad resulting from this practice will NOT be covered under warranty.

SELGE (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 display showing 5EE9C, press **PRINT/ENTER** key to show current setting. If setting displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise use numeric keys **0/NO** or **1/YES** and enter a new setting. Press **PRINT/ENTER** key to save it.

0 = Gravity Constant is NOT used 1 = Set Gravity Constant

NOTE: If you select 1 (Set Gravity Constant) two additional prompts will be displayed.

CRL9C (CALIBRATED GRAVITY CONSTANT)

With display showing *LALGL*, press **PRINT/ENTER** key to show current setting. This is the acceleration of gravity value of the location where the scale was calibrated.

If the value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Consult the factory Tech Support for the Acceleration of Gravity value for your location.

OPSE : (OPERATING GRAVITY CONSTANT)

With display showing *DP9C*:, press **PRINT/ENTER** key to show current setting. This is the acceleration of gravity value for the location where the scale will be operated.

If setting displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Consult the factory Tech Support for the Acceleration of Gravity value for your location.



IMPORTANT! Once the Gravity Constant has been set, <u>both</u> [RL9] and oP9[: must be set to the same value to disable it.

int: (INTERVAL SETTING)

Press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Allowable values are 1, 2, 5 or 10.

NOTE: If you select an interval value of 10 (*int = 10*), *dPP* = prompt <u>will not</u> be shown. Setup will proceed to *LRP* =, scale capacity setting prompt.

Unit: (WEIGHING UNIT)

With display showing Unit:, press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key again to save it. Otherwise, using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Allowable values are:

0 = None	3 = Pounds/Kilograms	6 = Grams Only
1 = Pounds Only	4 = Kilograms/Pounds	7 = Stones and Pounds
2 = Kilograms Only	5 = Ounces Only	or Kilograms

IMPORTANT! If U_n , $t \in ?$ (7 = Stones and Pounds or Kilograms) is selected, the value selected for $u_n t \in$ (Scale Interval) and $dPP \in$ (Decimal Point Position) must be set to (1).



NOTE: Weight display for Stones and Pounds/Kilograms mode is XX.YY.Y, where XX is weight in Stones and YY.Y is remainder of the weight in pounds. Please note that in this mode, "ST" and "lb" annunciators <u>will</u> be turned on.

dpp: (DECIMAL POINT POSITION)

With display showing dPP_{\pm} , press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Allowable values are:

0 = XXXXXX 1= XXXXXX 2 = XXXXXX 3 = XXX.XXX

[RP: (SCALE CAPACITY)

With display showing *LRP*:, press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Allowable values are 1 through 99,999.

CALIBRATION)

With display showing $[RL_{=}, \text{ press } \text{PRINT/ENTER } \text{key}$. Display will change to show current setting [0] (0=NO). If scale has been previously calibrated and you wish to skip calibration and proceed to $E \cap R_{=}$, Zero Tracking Range, simply press **PRINT/ENTER** key and internal calibration factor will be retained.

To begin calibration, press **1/YES** key to select yes and then press **PRINT/ENTER** key. After pressing **PRINT/ENTER** key display will change to *LORd* .

LORd: (LOAD CALIBRATION WEIGHT)

Display will change to *LORd* = which is a prompt for entry of calibration weight value and placement of this amount of test weights on scale platform.

- 1. Make certain scale platform is empty and free of debris.
- **2.** Place the desired amount of calibrated test weights on scale platform. A minimum of 50% of scale's capacity is required. However 70% to 100% is recommended.
- 3. Press PRINT/ENTER key.
- **4.** If the value displayed is acceptable, press the **PRINT/ENTER** key again. Otherwise, determine the exact amount of test weights to be placed on scale platform, then using numeric keys, enter this value.
- 5. Verify that the numbers entered are the same as the amount of test weights and then press the **PRINT/ENTER** key.
- 6. Starting at the left and proceeding 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 UnL 0d prompt.

Unt Od: (UNLOAD CALIBRATION WEIGHT)

With display showing the UnLOd prompt:

- 1. Remove the weights from the scale platform and then press the **PRINT/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 lrR_{r} prompt.

Ert: (FOUR PERCENT ZERO TRACKING RANGE LIMIT)

This setting determines whether a 4% limit is placed on zero tracking and push button zero and selects the format when printing the date.

- If enabled, (*LrL:* 1) zero tracking and push button zero is limited to 4 % of scale capacity and the date format is dd/mm/yy.
- If disabled, (*LrL= D*) zero tracking and push button zero will operate up to full scale capacity and the date format is mm/dd/yy.

With display showing *LrLz*, press **PRINT/ENTER** key to show current setting. If setting displayed is acceptable, press the **PRINT/ENTER** key to save it. Otherwise use numeric keys **0/NO** or **1/YES** and enter a new setting. Press **PRINT/ENTER** key to save it.

Un5: (UNSTABLE RANGE)

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

With display showing Un5:, press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Allowable values are 1 through 9.

FLE: (DIGITAL FILTER LEVEL SELECTION)

Display will change to show *FLE* (prompt for selection of digital filtering level). Your indicator will arrive with factory filter settings (1 = minimal) entered. Please check with your scale service technician should you wish to change filter level and break range.

Press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Allowable values are 0, 1, 2 or 3. Note, that if you select 3 (Custom Filtering) two additional prompts will be displayed.

0 = Disabled – NO Filtering	2 = MODERATE FILTERING
1 = MINIMAL FILTERING	3 = CUSTOM FILTERING

NOTE: The prompts, F_{\pm} (Filter Level) and $b_{F\pm}$ (Break Range) will <u>only</u> be displayed if you select 3 (Custom Filtering) for the FLE_{\pm} Digital Filter Level.

F: (FILTER LEVEL)

With Custom Filtering selected, the display will change to show FL = (Filter Level). Filter level is a number from 1 (least) to 16 (greatest) that corresponds to the amount of filtering.

Press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Allowable values are 1 through 16.

br : (BREAK RANGE)

The Break Range is a number from 1 to 64 that corresponds to the number of division changes to break out of filtering.

With display showing *br*:, press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Allowable values are 1 through 64.

Sr: (SAMPLE RATE)

With display showing 5r =, press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. The sample rate may be set from a minimum of 1 sample per second to a maximum of 10 samples per second in one sample per second intervals. Allowable values are 1 through 10.

HOLD: (HOLD MODE)

With display showing *HOLd*, press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Allowable values are:

0 = NO (disable) 1 = YES (enable) 2 = AUTO (Automatic Hold)

- If HOLd=0 or I (NO or YES) is selected, proceed to EYPE= (Type) section.
- If HOLd: 2 (AUTO) is selected, an additional prompt bRnd: (Auto Lock Reset Band) will be displayed and the *E YPE*: (Operation Mode) prompt will not be shown. The operation mode will automatically be set to 0 (Transaction Storage Mode). Proceed to bRnd: (Auto Lock Reset Band) to continue setup.

With Hold feature enabled (HOLd = 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 (HOLd=2) 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 the next prompt Auto Lock Reset Band.



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

bRod: (AUTO LOCK RESET BAND)

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

Press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Allowable values are: 0 through 99.

EYPE: (STORAGE OPERATION MODE)

This setting determines whether the indicator operates in the Transaction Storage Mode (no ID storage) or in the ID Storage Mode. Note that the ID Storage Mode allows up to 99 ID's.

With the display showing *LYPE*, press the **PRINT/ENTER** key to show current setting. If the setting displayed is acceptable, press the **PRINT/ENTER** key to save it. Otherwise, using the numeric keys, **0/NO** or **1/YES**, enter the new setting, then press the **PRINT/ENTER** key to save it.

0 = Transaction Storage 1 = ID Storage Enabled

High Resolution Mode)

The High Resolution Mode feature will display the weight at 10 times the standard resolution. For example, a 758C configured for 400 lb x 0.2 lb will display weight in high resolution mode at 400 lb x 0.02 lb.

With the display showing H in ES_{z} , press the **PRINT/ENTER** key to show current setting. If the setting displayed is acceptable, press the **PRINT/ENTER** key to save it. Otherwise, using the numeric keys, 0/NO or 1/YES, enter the new setting, then press the PRINT/ENTER key to save it.

mode is not desired)

0 = NO (If High Resolution Weight 1 = YES (If High Resolution Weight mode is desired)



NOTE: If H in E5 = I (YES) is selected, the indicator will exit Setup and Calibration. reset and then display weight in the High Resolution Weight mode.

To return to Setup and Calibration:

- 1. Press the ON/OFF kev.
- 2. Press and hold the LOCK/RELEASE key and then press the ON/OFF key.
- 3. The indicator will perform a display test (turn on all digits), show the software version for a few seconds and then change to show 5EEUP.
- 4. Release the LOCK/RELEASE key.
- 5. The display will change to 5EE9C.
- 6. The indicator is now ready to continue setup and calibration from the beginning.

ErB: (ZERO TRACKING RANGE)

Zero tracking range is a value in scale divisions that will be automatically zeroed off. With the display showing $\xi r R_z$, press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Allowable values are 1 through 18 (1 to 9 divisions by 0.5 divisions). Enter a 0 (zero) to disable zero tracking.

RLLYn: (WELCH ALLYN)

This setting determines whether the USB port of the indicator is interfaced to a Welch Allyn device (with an activated license). NOTE: Must purchase WACONNECT (which includes a license key and USB cable) from Detecto to initiate connectivity with the Welch Allyn device.

With display showing RLL Ynz, press **PRINT/ENTER** key to show current setting. If setting displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise use numeric keys 0/NO or 1/YES and enter a new setting. Press PRINT/ENTER key to save it.

0 = NO, Indicator is NOT interfaced to	1 = YES, Indicator IS interfaced to
Welch Allyn device	Welch Allyn device

MINUTES)

With display showing n inc, press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Allowable values are: 0 through 59.

HH: (HOURS)

With display showing hh_z , press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Allowable values are: 0 through 23.

NOTE: Time is entered in a 24-hour format. When entering times after noon (12:00 PM), you must add 12 to time. For example, 3:00 PM would be entered as 15.

dd: (DAY)

With display showing *ddz*, press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Allowable values are: 1 through 31.

nn: (MONTH)

With display showing not press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Allowable values are: 1 through 12.

55: (YEAR)

With display showing 332, press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Allowable values are: 00 through 99.

id = (ID NUMBER FEATURE)

This setting determines whether the indicator allows an ID number to be entered prior to beginning the weighing operation. This applies to both Basic Operation and with the BMI feature enabled.

With display showing *d*, press **PRINT/ENTER** key to show current setting. If setting displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise use numeric keys **0/NO** or **1/YES** and enter a new setting. Press **PRINT/ENTER** key to save it.

0 = ID Disabled 1 = ID Enabled

dbRr = (ID SCANNER)

This setting determines whether the indicator allows a scanner to be used to input an ID number to be entered prior to beginning the weighing operation. This applies to both Basic Operation and with the BMI feature enabled.

With display showing *dbArz*, press **PRINT/ENTER** key to show current setting. If setting displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise use numeric keys **0/NO** or **1/YES** and enter a new setting. Press **PRINT/ENTER** key to save it.

0 = No Scanner 1 = Yes Scanner

IMPORTANT! If the Transaction Storage Mode is set to ID Storage Enabled (*ESPE* 1) the *dbRr* prompt will not be displayed.

HEr: (DIGITAL HEIGHT ROD)

This setting determines whether the height rod port is enabled for the Detecto DHR (Digital Height Rod). With the port enable and the height rod connected, the BMI will automatically be calculated and displayed when the height rod is raised and placed on the patient's head.

With display showing *HErz*, press **PRINT/ENTER** key to show current setting. If setting displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise use numeric keys **0/NO** or **1/YES** and enter a new setting. Press **PRINT/ENTER** key to save it.

0 = Height Rod Port is Disabled 1 = Height Rod Port is Enabled

bour (BMI CALCULATION FEATURE)

This setting determines whether the indicator operates as a basic (weigh calculation only) indicator or performs the Body Mass Index (BMI) calculation.

With display showing **brais**, press **PRINT/ENTER** key to show current setting. If setting displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise use numeric keys **0/NO** or **1/YES** and enter a new setting. Press **PRINT/ENTER** key to save it.

0 = BMI Disabled 1 = BMI Enabled

P220 : (P220 PRINTER)

This setting determines whether weight data sent to the serial port is formatted for a P220 printer or a P185 printer (see *LrLF* prompt to select P185 printing mode).

With display showing *P220*:, press **PRINT/ENTER** key to show current setting. If setting displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise, using numeric keys 0/**NO** or **1/YES**, enter a new setting, then press **PRINT/ENTER** key to save it.

0 = NO (Weight Data is Formatted for P185 printer) 1 = YES (Weight Data is Formatted for P220 printer)

IMPORTANT! If you select *P220 = I* (Weight Data is Formatted for P220 printer), the display will skip to the *bRUd =* prompt.

CrLF: (P185 PRINTER MODE)

This setting determines whether weight data sent to the serial port is formatted for a P185 printer in Journal mode or a P185 printer in Ticket mode. **NOTE:** If you select LrLF = 1, (Ticket Mode), an additional prompt (EDP =) will be displayed.

With display showing *LrLF*, press the **PRINT/ENTER** key to show current setting. If setting displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise use numeric keys **0/NO** or **1/YES** and enter a new setting. Press **PRINT/ENTER** key to save it.

0 = Set Serial Format for P185 Printer 1 = Set Serial Format for P185 Printer in Journal Mode 1 = Set Serial Format for P185 Printer

IMPORTANT! The *EOP* = END OF PRINT LINEFEEDS prompt will only be displayed if you select *P220* = 0 and *CrLF* = 1.

EDP: (END OF PRINT LINEFEEDS)

At the end of data sent to a printer, the indicator can send a number of line feed commands to space the paper in the printer to a desired position for withdrawal or for the next print.

With display showing *EOP*:, press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Allowable values are: 00 through 99.

bRUd: (SERIAL OUTPUT BAUD RATE)

With display showing *bRUd*:, press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Allowable values are: 0, 1, 2, 3, 4 or 5.

0 = 1200 Baud	1 = 2400 Baud	2 = 4800 Baud
3 = 9600 Baud	4 = 19.2k Baud	5 = 38.4k Baud

PPOrt (PRINTER OR DATA PORT)

With display showing *PPOrE*, press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Allowable values are:

1 = Serial Port 2 = Ethernet (requires 758-IP option) 3 = USB Device Port

Cont I (CONTINUOUS OUTPUT SERIAL PORT)

With display showing *Cont I*, press **PRINT/ENTER** key to show current setting. If setting displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise use numeric keys **0/NO** or **1/YES** and enter a new setting. Press **PRINT/ENTER** key to save it.

0 = Serial Port Continuous	1 = Serial Port Continuous
Output is Disabled	Output is Enabled

COntraction (CONTINOUS OUTPUT ETHERNET PORT)

With display showing *Clint2*, press **PRINT/ENTER** key to show current setting. If setting displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise use numeric keys **0/NO** or **1/YES** and enter a new setting. Press **PRINT/ENTER** key to save it.

0 = Ethernet Port Continuous	1 = Ethernet Port Continuous
Output is Disabled	Output is Enabled

[Ont] (CONTINOUS OUTPUT USB DEVICE PORT)

With display showing *Cont 3*, press **PRINT/ENTER** key to show current setting. If setting displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise use numeric keys **0/NO** or **1/YES** and enter a new setting. Press **PRINT/ENTER** key to save it.

0 = USB Device Port Continuous Output is Disabled 1 = USB Device Port Continuous Output is Enable

bene (BUTTON OPERATION)

This setting determines which keys (NET/GROSS, TARE, and/or ID/HEIGHT) are locked out during normal operation.

Press **PRINT/ENTER** key to show current setting. If value displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise using numeric keys, enter a new value and then press **PRINT/ENTER** key to save it. Allowable values are 0, 1, 2 or 3.

- 0 = No Keys Disabled
- 1 = NET/GROSS and TARE Keys 3 = NET/GROSS, TARE, and Disabled

2 = ID/HEIGHT Keys Disabled

ID/HEIGHT Keys Disabled

o i [Rd (BATTERY TYPE SELECTION)

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

With display showing or i [Adz, press **PRINT/ENTER** key to show current setting. If setting displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise use numeric keys 0/NO or 1/YES and enter a new setting. Press PRINT/ENTER key to save it.

0 = Alkaline1 = NiCad or NiMH

PUD: (POWER UP ZERO)

With display showing *PUD*:, press **PRINT/ENTER** key to show current setting. If setting displayed is acceptable, press PRINT/ENTER key to save it. Otherwise use numeric keys 0/NO or 1/YES and enter a new setting. Press PRINT/ENTER key to save it and proceed to the next prompt. Allowable values are 0 or 1.

0 = NO (Weight display will not be	1 = YES (Weight display will be reset
reset to zero)	to zero automatically on power up)

R5H: (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 ON/OFF key to turn indicator back on.

With display showing *RSH*_z, press **PRINT/ENTER** key to show current setting. If setting displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise use numeric keys to enter a new setting and then press **PRINT/ENTER** key to save it. Allowable values are 0 through 9 with 0 disabling Automatic Shutoff.

SLP: (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.

With display showing 5LPz, press **PRINT/ENTER** key to show current setting. If setting displayed is acceptable, press **PRINT/ENTER** key to save it. Otherwise using numeric keys. enter a new setting and then press **PRINT/ENTER** key to save it. Allowable values are 0 through 9 with 0 disabling Sleep Mode

Setup and Calibration Is Complete

The setup and calibration process has been completed. The indicator will reset and then display weight. Remove power from the indicator, re-install the calibration jumper J2 removed earlier and re-assemble for use. The indicator is now ready for normal operation.

SETUP REVIEW

The 758C indicator allows several operational parameters to be reviewed and changed as necessary without having to remove the calibration jumper J2 and enter the setup mode.

To Enter Setup Review

- 1. If indicator is on, press the ON/OFF key.
- 2. Press and hold the ZERO key and then press the ON/OFF key.
- 3. The indicator will perform a display test (turn on all digits), show the software version for a few seconds and then change to show $ru_{i} \mathcal{E}II$.
- 4. Release the **ZERO** key.
- 5. The display will change to $H = \xi 5 =$ (prompt to enable High Resolution Mode feature).
- 6. Refer to instructions listed in Setup and Calibration section of manual for information on how to change these parameters.

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

- H ICES Enable High Resolution* Mode feature
- *ErR* Select the number of scale divisions automatically zeroed on power up
- RLL Yn = Select whether the indicator is interfaced to a Welch Allyn device
- o in: Set the minutes portion of the time
- HH = Set the hours portion of the time
- dd = Set the day of the month
- on: Set the month of the year
- **YY** Set the year
- ,d = Enable or Disable ID number input feature
- .dbRr : Enable or Disable ID Scanner
- HEr: Enable or Disable Digital Height Rod Port
- bn .: Enable or Disable BMI calculation feature
- P220: Select weight data format for P220 printer or P185 printer
- CrLF: Set P185 Printer Mode (P185 Journal Mode or P185 Ticket Mode)
- EOP = Set Number of End Of Print linefeeds printed
- **BRUd** = Select baud rate for serial output
- **PPOrt** Select Serial or Ethernet or USB Device port for Data Port
- Cont ! Enable or Disable Serial Port Continuous Output
- [Ont2 Enable or Disable Ethernet Port Continuous Output
- [Int] Enable or Disable USB Device Port Continuous Output
- bto: Enable or Disable NET/GROSS, TARE and/or ID/HEIGHT keys
- n .[Rd Select to use Ni-Cad (NiMH) or Alkaline batteries
- PUD: Enable or Disable automatic reset of weight display to zero on power up
- R5H: Disable or select number of minutes for automatic shutoff timer
- 5LP = Disable or select number of minutes of inactivity at zero for sleep mode

^{*} **NOTE:** If *H ir E* 5 *z* 1 (YES) is selected, the indicator will exit Setup Review and display weight in High Resolution Weight mode. To return to Setup Review, repeat steps 1 to 4 above.

PRINTER TICKET FORMATS

P220 Ticket

If the P220 Ticket printer was selected, P220 = I (1 = Weight Data Formatted for P220 printer) during setup and calibration of the indicator, the data will be transmitted in the following format:

If Pounds Only or Pounds/Kilograms was selected for ני חול ב		If Kilograms Only, Kilograms/Pounds or Stones and Pounds/Kilograms was selected for Un الج عنه م	
Time, mm/dd/yy Time, dd/mm		nm/yy	
ID: BMI: Height: Weight:	xxxxxxxxxxx xx.x x' xx.x" xxx.xuu G xxx.xuu T xxx.xuu N	ID: BMI: Height: Weight:	xxxxxxxxxxx xx.x xx.x cm xxx.xuu G xxx.xuu PT xxx.xuu N

NOTE: When the P220 printer is enabled, every time the indicator is powered on, it will print a test ticket making sure the P220 printer is in the correct mode of operation.

If the printer is in the correct mode the ticket will look like:

OEPL1

Cardinal Scale Mfg Test Label

If the printer is not in the correct mode, the ticket will look like:

Cardinal Scale Mfg Test Label

NOTE: After printing the test ticket, the printer will switch to the correct mode.

P185 Journal Mode

If the P220 Ticket printer was not selected, P220=0 (0 = Weight Data Formatted for P185 printer) AND CrLF=0 (0 = Set Serial Format for P185 in Journal Mode) during setup and calibration of the indicator, the data will be transmitted in the following format:

Weight, BMI, Height, Time, Date

P185 Ticket Mode

If the P220 Ticket printer was not selected, P220=0 (0 = 0 = Weight Data Formatted for P185 printer) AND CrLF=I (1 = Set Serial Format for P185 Printer in Ticket Mode) during setup and calibration of the indicator, the data will be transmitted in the following format:

If Pounds Only or Pounds/Kilograms was selected for <i>Un ול ב</i>		If Kilograms Only, Kilograms/Pounds or Stones and Pounds/Kilograms was selected for Un : :	
Time, mm	/dd/yy	Time, dd/r	nm/yy
ID: BMI: Height: Weight:	xxxxxxxxxxx xx.x x' xx.x" xxx.xuu G xxx.xuu T xxx.xuu N	ID: BMI: Height: Weight:	xxxxxxxxxxx xx.x xx.x cm xxx.xuu G xxx.xuu PT xxx.xuu N

NOTE: The P185 printer (both modes) doesn't print a test ticket on power-up.

IMPORTANT! If ID or BMI are disabled, the field will be left out on any three formats.

WEIGHT ON DEMAND FORMATS

Weight On Demand

If the continuous output was not selected for the serial port, *Lont 1:0*, the USB Device port, *Lont 2:0* or the optional Ethernet port, *Lont 3:0* and the indicator is connected to a computer for transmission of weight data to a PC-based EMR (electronic medical record) software program, it will transmit a single set of weight data each time the computer sends an weight request "ENQ" (hex 05) or a SMA weight request "W". This is known as Weight-On-Demand. Examples and explanation of the data format transmitted are shown below.

The host device (computer) sends:

ENQ (hex 05)

The 758C will respond:

<s><xxxxxx><d><uu><m><cc><cr>

Where:

s =	Sign	"-" = negative, " " (<i>blank</i>) = positive
xxxxxxx =	Weight	Six digits
d =	Decimal point	Added to string if enabled in setup
uu =	Units	kg
m =	Mode	G = Gross, N = Net
cc =	Weight Status	OC = overcap
		CZ = center of zero
		MO = motion
		ee = weight not currently being displayed
cr =	Carriage Return	(hex 0D)

SMA Standard Format

The host device (computer) sends:

<lf>W <cr>

The 758C will respond:

Where:

lf =	Line Feed	
W01	W01	The text "W01"
,	Comma	(hex 2C)
s =	Flags	Z= center of Zero, O = Overcap, E = zero Error, e = weight not currently being displayed
r =	Range	1, 2, 3,
n =	Mode	G = Gross, T = Tare, N = Net
M =	Motion	M = Motion, " "(<i>blank</i>) = no motion
f =	Custom	Custom flag
xxxxxxx =	Weight	Six digits with decimal point
uuu =	Units	None, lb, kg, oz, g, st
cr =	Carriage Return	(hex 0D)

SERIAL AND USB DEVICE PORT COMMANDS

The following commands and formats apply to both the Serial port and the USB Device port. Both the Serial port and USB Device port on the 758C are bi-directional ports and can receive and transmit data. However, the USB Device port can only communicate with a computer. The Serial port can output to a printer as well as communicate to a computer.

Serial Port

Using the serial port, it is possible to control the printing operation of the 758C by transmitting commands to the indicator. Note that the *PPOrt* parameter in the indicator must be set to 1 = Serial Port to allow this.

USB Device Port

In order for the computer to communicate to the indicator using the USB Device port, the computer requires the USB driver (758C_USB_Driver.inf, available on the Detecto Dealer Web Site) and the *PPOrt* parameter on the indicator must be set to 3 = USB Device Port.

Remote Print Command

The host device (computer) sends:

<LF> P <CR>

This command is equivalent to pressing the **PRINT/ENTER** key on the 758C keypad. The 758C will respond by printing a ticket using the serial port (or transmit data using the USB Device port). The ticket will be printed (or data transmitted) in the following format:

If Pounds Only or Pounds/Kilograms was selected for Unit:

Time, mm/dd/yy

ID: xxxxxxxxxx BMI: xx.x Height: x' xx.x" Weight: xxx.xuu G xxx.xuu T xxx.xuu N If Kilograms Only, Kilograms/Pounds or Stones and Pounds/Kilograms was selected for United

Time, dd/mm/yy

ID:	XXXXXXXXXXX
BMI:	XX.X
Height:	xx.x cm
Weight:	xxx.xuu G
-	xxx.xuu PT
	xxx.xuu N

Journal Mode Print Command

The host device (computer) sends:

<LF> J <CR>

This command is equivalent to pressing the **PRINT/ENTER** key on the 758C keypad. The 758C will respond by printing a ticket using the serial port (or transmit data using the USB Device port). The ticket will be printed (or data transmitted) in the following format:

Weight, BMI, Height, Time, Date

NOTE: This command is equivalent to pressing the **PRINT/ENTER** key on the 758C keypad with the P220 Serial Format Disabled and CRLF Enabled (P220=0), and the CRLF set for Serial Format for P185 Journal Mode (LrLF=0) parameters selected. Note that this command will print a ticket (or transmit data) in the above format regardless of how the P220= and LrLF= parameters are set.

IMPORTANT! If ID or BMI are disabled, the field will be left out on any three formats.

SERIAL AND USB DEVICE PORT COMMANDS, CONT.

Data Queue Commands

The 758C has been equipped with storage for weight records. When taking a weight record, once the **PRINT/ENTER** key is pressed, the weight, ID (if enabled and entered), date and time are stored in the indicator. The indicator can store up to 250 weight records. Once the limit is reached, the oldest record will be over written to make room for the new weight record.

Delete Data Queue Command

The host device (computer) sends:

<LF> XD <CR>

The 758C will Delete the Data Queue.

Recall Data Queue Command

The host device (computer) sends:

<LF> XS <CR>

The 758C will Recall the Data Queue. The ticket will be printed (or data transmitted) in the following format:

ID, Date, Time, Weight, Units, Mode<cr><lf>

Where:

ID =	XXXXXXXXXXX	Up to 11 digit ID number
Date =	mm/dd/yy	Month, Day, Year
Time =	hh:mm	Hours and Minutes
Weight =	XXXXXX.X	Six digits with decimal point
Units =	uu	None, lb, kg, oz, g, st
m =	Mode	G = Gross
cr =	Carriage Return	(hex 0D)
lf =	Line Feed	(hex 0A)

NOTE: Recalling the data queue does not delete the current data. The separate delete command must be sent to clear the queue.

ERROR AND STATUS DISPLAYS

Display	Meaning		
-Err-	General error, invalid keypad entry was attempted.		
- 0F -	Attempting to display a negative number greater than –9,999 or a positive number greater than 99,999		
- 2 - 2 -	Indicates an attempt to zero a weight outside scale zero range. Refer to the Setup and Calibration <code>とrL = (Four Percent Zero Tracking Range Limit) parameter.</code>		
-Un5-	Motion is present when indicator is attempting to perform one of the following operations: Power Up, Zero, or Zero Weight Display		
САГ 18	Indicates calibration is necessary.		
[Err	Attempting to enter Setup and Calibration with the calibration jumper (J2) installed.		
RdErr			
ErrR			
ErrAL	Consult your scale service representative.		
ErrRH			
EE Err			
OCRP	Scale weight exceeds scale capacity		

BEFORE YOU CALL FOR SERVICE

Problem	Possible Solutions
Display does not	AC Operation:
turn on	 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, remove discharged batteries and replace with fully charged ones. Place discharged batteries in an external charger to recharge.
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 Display section and make certain that the <i>CRP</i> message is not displayed. If so, and scale is not loaded, perform the calibration sequence.
Indicator displays 999.9 for height	The digital height rod was not in its "starting position" prior to turning on the indicator. Push inner sliding tube completely down inside outer stationary tube and fold headpiece against stationary tube.

EVENT COUNTER

The 758C weight indicator has been designed with an Event Counter type of security seal. When selected, the 758C 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 (*SELGE*, *CRLGE*, *OPGE*, *int*, *Un*, *Un*, *Un*, *dPP*, *CRP*, *FLE*, *F*, *br*, *Sr*, *CRL*,). 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*, *bRnd*, *trR*, *PUD*, *n*, *CRd*, *SLEEP*, *RSH*). 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 the **ON/OFF** key.
- 2. Press and hold the UNITS key and then press the ON/OFF key.
- 3. The indicator will perform a display test (turn on all digits), show the software version for a few seconds and then change to show [RL I and [H[.
- 4. Release the **UNITS** key.
- 5. The display will then show two 3-digit numbers.
 - The left number represents the setup Calibration counter.
 - The right number represents the Configuration counter.
- 6. To return to the normal operation, press the **UNITS** key.
- 7. Otherwise press the **ON/OFF** key to turn off the indicator.

CARE AND CLEANING

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

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PARTS IDENTIFICATION

Rear View Detail



ITEM	QTY.	PART NUMBER	DESCRIPTION
1	1	593GR986	SERIAL TAG ASSEMBLY
3	2	6021-0687	SCW TRUSS HEAD #6-32 X .375 THMS
4	1	6021-1032	THUMB SCRW, 6-32 X 0.25
5	4	6021-2069	SCW TRUSS HEAD SHEET METAL #6 X .50 (WHITE)
6	4	6021-6008	SCW TRUSS HEAD SHEET-METAL #6 X.375" (BLACK)
8	4	6610-2000	JACK SOCKET
11	1	6650-0087	LABEL: MADE IN THE USA
12	8	6680-0004	WASHER LOCK INT. TOOTH #6 Z/P
13	4	6680-0052	WASHER LOCK HELICAL #4 Z/P
17	2	8555-B159-08	SPACER, 758C MOUNT
18	1	8555-B166-08	BATTERY COVER
19	1	8555-B452-08	BOX, THREE CONNECTOR
20	1	8555-B453-08	BOX, TWO CONNECTOR
22	2	8555-C213-08	END CAP
23	1	8555-C448-0A	REAR PANEL ASSEMBLY

Optional AC Adapters (not shown)

6800-1045	AC ADAPTER 100-240VAC/12VDC @ 1 AMP US PLUG
6800-1047	AC ADAPTER 100-240VAC/12VDC @ 1 AMP EURO PLUG
AC230AU	AC ADAPTER 100-240VAC/12VDC @ 1 AMP, AU PLUG
AC230UK	AC ADAPTER 100-240VAC/12VDC @ 1 AMP, UK PLUG



ITEM	QTY.	PART NUMBER	DESCRIPTION
2	4	6013-0039	NUT HEX #6-32
7	2	6024-0126	WASHER FLAT FOR 5/32" POP RIVET
9	1	6610-5119	BATTERY HOLDER 6-C CELLS
12	8	6680-0004	WASHER LOCK INT. TOOTH #6 Z/P
14	4	6680-0138	SPACER #6 X .187 NYLON
15	2	6680-0214	POP RIVET BH AL 5/32 DIA
16	1	8200-B369-08	GROUND SPRING
21	1	8555-B461-0A	CABLE: BATTERY
24	1	8555-C450-0A	FRONT PANEL WELDMENT
26	1	8555-D444-0A	BOARD ASSEMBLY – 758C





ITEM	QTY.	PART NUMBER	DESCRIPTION
1	1	593GR986	SERIAL TAG ASSEMBLY
2	4	6013-0039	NUT HEX #6-32
3	2	6021-0687	SCW TRUSS HEAD #6-32 X .375 THMS
4	1	6021-1032	THUMB SCRW, 6-32 X 0.25
5	4	6021-2069	SCW TRUSS HEAD SHEET METAL #6 X .50 (WHITE)
9	1	6610-5119	BATTERY HOLDER 6-C CELLS
10	1	6650-0018	GASKET MATERIAL 1" X 1/2" X 5 1/4"
12	8	6680-0004	WASHER LOCK INT. TOOTH #6 Z/P
14	4	6680-0138	SPACER #6 X .187 NYLON
16	1	8200-B369-08	GROUND SPRING
17	2	8555-B159-08	SPACER, 758C MOUNT
18	1	8555-B166-08	BATTERY COVER
19	1	8555-B445-08	BOX, THREE CONNECTOR
21	1	8555-B461-0A	CABLE: BATTERY
25	1	8555-D222-08	KEYPAD: 758CSV (INTERNATIONAL VERSION)
26	1	8555-D444-0A	BOARD ASEMBLY – 758C

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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