

S133

Bench Scale



User Instructions

UK

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Before use:

1. Remove transit banding from cross under weighing platform.
2. Charge battery for 12 hours using supplied power adapter.

Antes de usar:

1. Remover banda sujetadora de la cruz ubicada debajo de la plataforma de pesaje.
2. Cargar la batería por 12 horas usando el adaptador de voltaje incluido.

Avant utilisation:

1. merci d'enlever le support plateau en dessous du plateau.
2. rechargez la batterie interne en utilisant le transformateur fourni avec la balance.

Vor Gebrauch:

1. Entfernen Sie die Bänder vom Kreuz unter der Wiegebrücke.
2. Laden Sie die Batterie 12 Stunden mit beiliegendem Adapter.

1 General information and warnings

1.1 About this manual

This manual is divided into chapters by the chapter number and the large text at the top of a page. Subsections are labeled as shown by the 1 and 1.1 headings shown above. The names of the chapter and the next subsection level appear at the top of alternating pages of the manual to remind you of where you are in the manual. The manual name and page numbers appear at the bottom of the pages.

1.1.1 Text conventions

Key names are shown in **bold** and reflect the case of the key being described.

Displayed messages appear in ***bold italic*** type and reflect the case of the displayed message.

1.1.2 Special messages

Examples of special messages you will see in this manual are defined below. The signal words have specific meanings to alert you to additional information or the relative level of hazard.



ELECTRICAL WARNING!
THIS IS AN ELECTRICAL WARNING SYMBOL.
ELECTRICAL WARNINGS MEAN THAT FAILURE TO FOLLOW SPECIFIC PRACTICES OR PROCEDURES MAY RESULT IN ELECTROCUTION, ARC BURNS, EXPLOSIONS OR OTHER HAZARDS THAT MAY CAUSE INJURY OR DEATH.



CAUTION!
This is a Caution symbol.
Cautions give information about procedures that, if not observed, could result in damage to equipment or corruption to and loss of data.



NOTE: ***This is a Note symbol. Notes give additional and important information, hints and tips that help you to use your product.***

1.2 Installation



DANGER: RISK OF ELECTRICAL SHOCK. NO USER SERVICEABLE PARTS. REFER TO QUALIFIED SERVICE PERSONNEL FOR SERVICE.

1.3 Electrical installation



DANGER: THE POWER ADAPTOR MUST BE CONNECTED TO A SUITABLE ELECTRICAL OUTLET. THE ELECTRICAL SUPPLY MUST HAVE A CIRCUIT BREAKER WITH AN APPROPRIATE RATING TO PROTECT FROM OVER-CURRENT CONDITIONS.

1.4 Routine maintenance



CAUTION: This equipment must be routinely checked for proper operation and calibration. Application and usage will determine the frequency of calibration required for safe operation.

Always turn off the machine and isolate from the power supply before starting any routine maintenance to avoid the possibility of electric shock.

Make sure that it is placed securely on a flat and level surface.

1.5 Cleaning the machine

Table 1.1 Cleaning DOs and DON'Ts



DO	DO NOT
Wipe down the outside of standard products with a clean cloth, moistened with water and a small amount of mild detergent	Attempt to clean the inside of the machine
	Use harsh abrasives, solvents, scouring cleaners or alkaline cleaning solutions
Spray the cloth when using a proprietary cleaning fluid	Spray any liquid directly on to the display windows

1.6 Training

Do not attempt to operate or complete any procedure on a machine unless you have received the appropriate training or read the instruction books.

To avoid the risk of RSI (Repetitive Strain Injury), place the machine on a surface which is ergonomically satisfactory to the user. Take frequent breaks during prolonged usage.

1.7 Sharp objects

Do not use sharp objects such as screwdrivers or long fingernails to operate the keys.

1.8 EMC declaration of compliance

European Countries

Table 1.2

<p>WARNING: This is a Class A product. In a domestic environment, this product may cause radio interference in which the user may be required to take adequate measures.</p>

1.9 CE Declaration of Conformity

Avery Weigh-Tronix

Foundry Lane, Smethwick, West Midlands B66 2LP, England

	Declaration of Conformity Verklaring van Overeenstemming Déclaration de Conformité	Konformitätserklärung Dichiarazione di conformità Declaración de Conformidad
--	---------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------

Manufacturer	Avery Weigh-Tronix Limited
Type	AWB120
No. of EC type approval certificate	UK2863
corresponds to the requirements of the following EC directives:	
EMC Directive	2004/108/EC
Low Voltage Directive	2006/95/EC
Non-Automatic Weighing Instruments Directive	90/384/EEC ¹
The applicable harmonised standards are:	
EN 45501 : 1994 EN 60950-1 : 2006	EN 61000-6-3 : 2007
<p>Note 1: This declaration is only valid if the non-automatic weighing instrument was verified by the manufacturer or with a certificate of conformity issued by a notified body.</p>	
<p>Avery Weigh-Tronix Limited Reg. Office: Foundry Lane, Smethwick, West Midlands B66 2LP, England. Registered in England No: 595129</p>	

Fabrikant	Avery Weigh-Tronix Limited
Type	AWB120
Nummer van de Verklaring van EG-typegoedkeuring	UK2863
is in overeenstemming met de voorschriften van de volgende EG richtlijnen:	
EMC Richtlijn	2004/108/EC
Laagspanningsrichtlijn	2006/95/EC
Richtlijn niet-automatische weegwerktuigen	90/384/EEG ¹
Toegepaste geharmoniseerde normen:	
EN 45501 : 1994 EN 60950-1 : 2006	EN 61000-6-3 : 2007
<p>Noot 1: Deze verklaring is alleen geldig indien het weegwerktuig door de fabrikant is geverifieerd, of met een Verklaring van overeenstemming, afgegeven door een bevoegde instantie.</p>	
<p>Avery Weigh-Tronix Limited Reg. Office: Foundry Lane, Smethwick, West Midlands B66 2LP, England. Registered in England No: 595129</p>	

Fabricant	Avery Weigh-Tronix Limited
Type	AWB120
No. de certificat d'approbation de type CE	UK2863
correspond aux exigences des directives CE suivantes :	
Directive CEM	2004/108/EC
Directive Basse Tension	2006/95/EC
Directive pour les instruments de pesage à fonctionnement non automatique	90/384/CEE ¹
Les normes harmonisées applicables sont :	
EN 45501 : 1994 EN 60950-1 : 2006	EN 61000-6-3 : 2007
<p>Nota 1 : Cette déclaration est valide seulement si l'instrument de pesage à fonctionnement non automatique a été vérifié par le fabricant ou avec une attestation de conformité délivrée par un organisme notifié.</p>	
<p>Avery Weigh-Tronix Limited Reg. Office: Foundry Lane, Smethwick, West Midlands B66 2LP, England. Registered in England No: 595129</p>	

Hersteller	Avery Weigh-Tronix Limited
Typ	AWB120
Nr. der EG-Bauartzulassung	UK2863
entspricht den Anforderungen folgender EG-Richtlinien:	
EMV-Richtlinie	2004/108/EC
Niederspannungs Richtlinie	2006/95/EC
Waagenrichtlinie für nichtselbsttätige Waagen	90/384/EWG ¹
Die angewendeten harmonisierten Normen sind:	
EN 45501 : 1994 EN 60950-1 : 2006	EN 61000-6-3 : 2007
<p>Anmerkung 1: Diese Erklärung gilt nur, wenn die nichtselbsttätige Waage vom Hersteller geeicht wurde oder in Verbindung mit einer Konformitätsbescheinigung einer benannten Stelle.</p>	
<p>Avery Weigh-Tronix Limited Reg. Office: Foundry Lane, Smethwick, West Midlands B66 2LP, England. Registered in England No: 595129</p>	

Produttore	Avery Weigh-Tronix Limited
Modello	AWB120
N. di certificato di approvazione di tipo CE	UK2863
è conforme alle caratteristiche previste dalle seguenti direttive CE:	
Normativa EMC	2004/108/EC
Normativa per la bassa tensione	2006/95/EC
Normativa per strumenti di pesatura non automatici	90/384/CEE ¹
Le norme standard armonizzate e nazionali applicate sono:	
EN 45501 : 1994 EN 60950-1 : 2006	EN 61000-6-3 : 2007
<p>Nota 1: Questa dichiarazione è valida solamente se lo strumento di pesatura non automatico è stato verificato dal produttore o provvisto di un certificato di conformità rilasciato da un ente riconosciuto.</p>	
<p>Avery Weigh-Tronix Limited Reg. Office: Foundry Lane, Smethwick, West Midlands B66 2LP, England. Registered in England No: 595129</p>	

Fabricante	Avery Weigh-Tronix Limited
Tipo	AWB120
Número del certificado de aprobación de tipo CE	UK2863
conforme a las exigencias de las siguientes directivas CE:	
Directiva CME	2004/108/EC
Directiva de baja tensión	2006/95/EC
Directiva para equipos de pesaje no automáticos	90/384/CEE ¹
Las normas armonizadas en vigor son:	
EN 45501 : 1994 EN 60950-1 : 2006	EN 61000-6-3 : 2007
<p>Nota 1: Esta declaración es válida solamente si el equipo de pesaje no automático ha sido verificado por el fabricante o con certificado de conformidad emitido por un organismo notificado.</p>	
<p>Avery Weigh-Tronix Limited Reg. Office: Foundry Lane, Smethwick, West Midlands B66 2LP, England. Registered in England No: 595129</p>	

Signature/Name Handtekening/Naam Signature/Nom Unterschrift/Name Firma/Nombre	 S. Hine Head of R & D (UK)	Authorised signatory for Avery Weigh-Tronix Limited Namens van Avery Weigh-Tronix Limited Signataire autorisé d'Avery Weigh-Tronix Limited Unterschriftsberechtigter für Avery Weigh-Tronix Limited Firmatario autorizzato per Avery Weigh-Tronix Limited Firmante autorizado para Avery Weigh-Tronix Limited	Date Datum Date Datum Data Fecha
		29 April 2009	

2 Introduction

The S133 is a general purpose bench scale that combines a robust base and pole mounted indicator complete with checkweighing and accumulation functions.

2.1 Installation

2.1.1 General Guidelines

The S133 must be placed in a location that will not degrade the accuracy.

Avoid extremes of temperature. Do not place in direct sunlight or near air conditioning vents or fans.

Avoid unsuitable tables. The table or floor must be rigid and not vibrate. Do not place near vibrating machinery.

Avoid unstable power sources. Do not use near large users of electricity such as welding equipment or large motors.

Avoid high humidity that might cause condensation. Avoid direct contact with water. Do not spray or immerse the S133 in water.

Keep the indicator clean.

2.1.2 Scale Installation

1. Level the scale using the four adjustable feet on the bottom of the scale, Figure 2.1, and the bubble level near the base of the column, Figure 2.2.

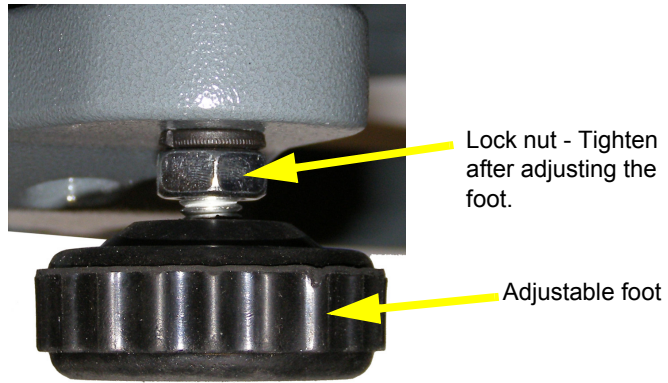


Figure 2.1 Adjust scale feet to level the scale



Figure 2.2 Adjust feet until bubble is centered in black circle

2. Attach the support column to the bracket at the back of the scale base using the three mounting screws. Use a 3mm hex (Allen) key to tighten the screws. See Figure 2.3.

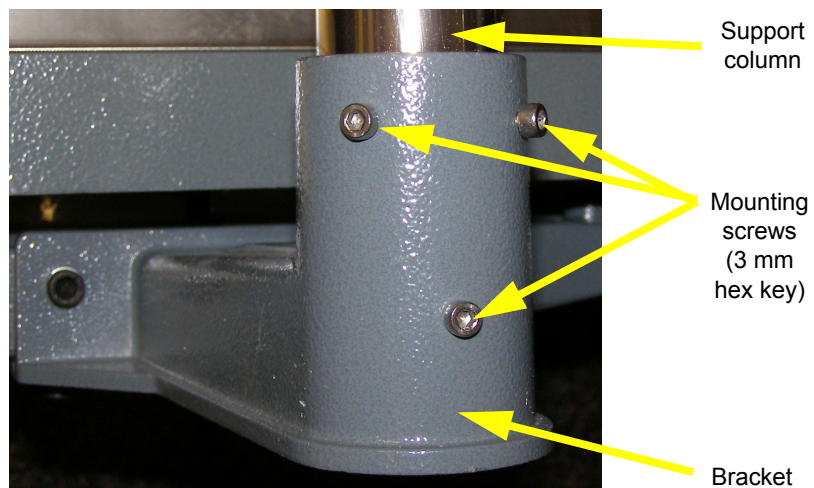


Figure 2.3 Insert column into bracket and secure with three screws

3. Place the indicator on the top bracket as shown in Figure 2.4 and slide it down until it snaps into the final position.

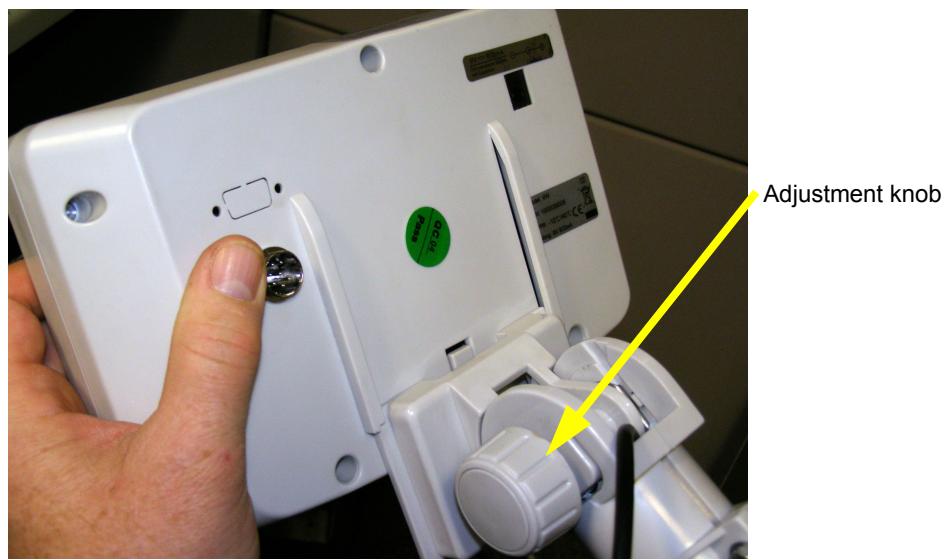


Figure 2.4 Slide indicator head onto column bracket

4. Loosen the adjustment knob shown in Figure 2.4 and adjust the indicator's angle for best viewing of the display, then tighten the knob.
5. The cable from the base to the indicator is run through the column and out through the plastic bracket at the top when you unpack the scale. Make sure the connector is free of obstructions, i.e. packing foam, and plug the cable into the connector, as shown in Figure 2.5. Tighten the threaded collar.

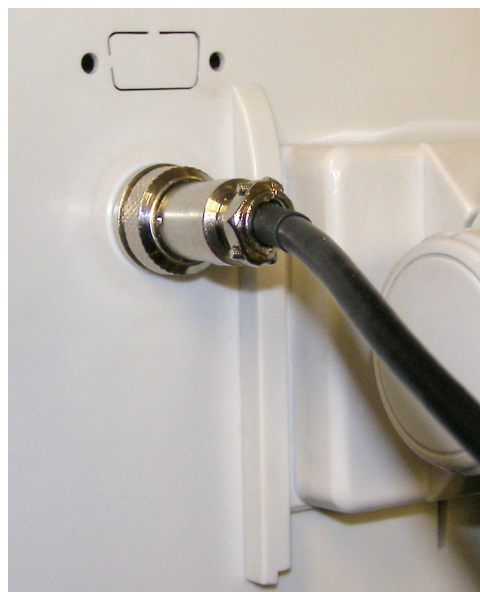


Figure 2.5 Signal cable plugged into back of the indicator

6. Attach the AC power adapter to the connector on the back of the indicator. See Figure 2.6.

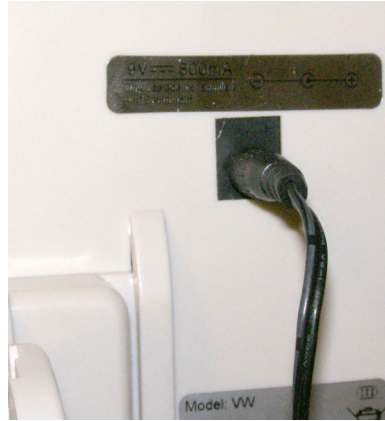


Figure 2.6 Connect power cord to indicator

2.2 Powering Up and Powering Down the Scale

With the battery charged or the AC adaptor plugged into the indicator, press the **ON/**



We strongly recommend you charge the battery fully before turning on the scale. See Battery Operation on page 15.

OFF key to power up the scale. A display test will be performed on power up and the scale will finish in normal weighing mode.

Press the **ON/OFF** key to turn the scale off. The **ON/OFF** key is shown below:



2.3 Indicator Description

The indicator has a sealed keypad and the display is a large, easy to read liquid crystal display (LCD). The display also has a backlight for better visibility. See Figure 2.7.

The scale has automatic zero tracking (AZT) and an audible alarm for out-of-range weights in the checkweighing function.



Figure 2.7 Front panel of the S133's indicator

The front panel has *Over*, *Under*, and *Accept* annunciators along the right side. See Figure 2.8.

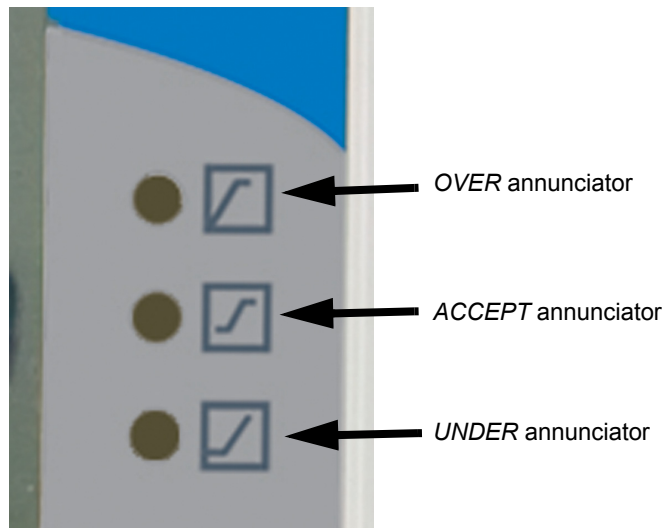













Figure 2.8 OVER, UNDER, and ACCEPT annunciators


2.3.1 Key Descriptions

Keys are shown below along with their functions. Some keys have secondary functions and these are also described below.

Key	Function
	ON / OFF key. Turn power on or off.
 	Zero key. Set the zero point for all subsequent weighing. The display shows zero. Secondary Function: Acts as an Enter key when setting parameters or other functions.
 	Tare key. Tares the scale. Stores the current weight in memory as a tare value, subtracts the tare value from the weight and shows the results. Secondary Function: Increments the active digit when entering a numeric value and also scrolls through item list in the configuration menu. Press Zero and Tare key together in normal weighing mode to toggle the animal scale function on/off. The beeper will sound twice when the animal scale mode is enabled or disabled.
 	MR (Memory Recall) key, shows total accumulated weight in memory. Secondary Function: Moves active digit to the right when entering a numeric value.
 	Accumulate key. Use this key to store current weight in memory. Secondary Function: Moves active digit to the left when entering a numeric value. Press M+ and MR keys for MC (memory clear)
 C	Print key. Press this key to print to a PC or printer using the optional RS-232 interface. Secondary Function: Clears the displayed numeric values in configuration mode. Press Print during self checking countdown to access password entry screen.
 Esc	NET key. Press this key to shift between Net and Gross weighing. Secondary Function: Acts as an Esc (Escape) key to return to normal operation when the scale is in a configuration mode. Press NET and Print key together to set the checkweighing limit.

2.4 Battery Operation

The S133 can be operated from a battery located inside the indicator or plugged into an acceptable power outlet. Battery life is approximately 20 hours with the backlight off.

When the battery needs charging this symbol, , appears in the upper left corner of the weight display. The scale will still operate for about 10 hours after which it will automatically switch off to protect the battery.

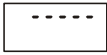
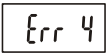
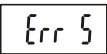
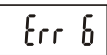
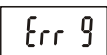
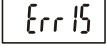
To charge the battery, plug the transformer into the mains power and the connector into the receptacle on the back of the indicator. The scale does not need to be turned on. The battery should be fully charged before use. This takes approximately 12 hours.

To the left of the display is a battery symbol with an LED above it. When the transformer is plugged in, if the LED is green the battery has a full charge. If it is red the battery is charging.

As the battery is used it may fail to hold a full charge. If the battery life becomes unacceptable then contact your distributor.

2.5 Error Codes

Listed below are possible error codes you may see during operation of this scale.

Error Codes	Description	Resolution
	Over range	Remove weight from the scale. If the problem persists contact your dealer.
	Zero Setting Error	The scale was outside the normal zero setting range either when it was turned on or when the Zero key was pressed. Remove weight from the scale and try again. Power down the scale and repower. Use the Tare key to set the display to zero value. If the problem persists contact your dealer.
	Key is shorted out.	Contact your dealer.
	A/D Out of Range	Charge the batteries. The values from the A/D converter are outside the normal range. Remove the weight from the scale if overloaded. Make sure the scale platform is properly placed. This may indicate the loadcell or electronics are faulty. If the problem persists contact your dealer.
	Tare or Zero key has been pressed when the scale is unstable.	Try key press again after Stable annunciator lights.
	Wrong value for gravity parameter.	Contact dealer to reset gravity factor.

3 Operation

This section covers the general weighing procedures you can perform with the S133:

- Zeroing the Scale
- Gross Weighing
- Net Weighing Using a Tare
- Checkweighing
- Accumulation



There is a keypad lock function that can be enabled or disabled.

If enabled, after the keypad has not been used for 10 minutes, the keypad will be locked. When locked, if you press any key, the display will show **k-lck**.

To unlock the keypad, hold the **Print**, **MR** and **Zero** keys for two seconds. The display will show **U-lck** and the keypad will function normally.

3.1 Zeroing the Scale

Empty the platform and press the **Zero** key to zero the scale. The display will show **0** weight.



Weight within $\pm 2\%$ of the power up zero value can be zeroed.

The scale has an automatic zero tracking (AZT) to account for minor drifting or accumulation of material on the platform. However you may need to press the **Zero** key to rezero the scale if small amounts of weight are shown when the platform is empty.

3.2 Gross Weighing

To perform a gross weighment, follow these steps:

1. Press the **Zero** key to zero the scale...
 - 0** is displayed and the **ZERO** annunciator lights on the left side of the display.
2. Place the object to be weighed on the scale.
 - The gross weight is displayed.
3. Remove the item from the scale.
4. Repeat steps 1 through 3 for other items to be weighed.

3.3 Net Weighing Using a Tare

To perform a net weighing using a tare, follow these steps:

1. Press the **Zero** key to zero the scale...
 0 is displayed and the *ZERO* annunciator lights.
2. Place the container to be tared on the scale.
 The gross weight is displayed.
3. Press the **Tare** key...
 0 is displayed and the *NET* annunciator lights.
4. Place the item(s) to be weighed in the container.
 The net weight is displayed.
5. Remove the items from the scale.
6. Repeat steps 1 through 5.

3.3.1 Removing a Tare

To remove the tare value from the scale, empty the scale and press the **Tare** key.

3.4 Checkweighing

Checkweighing is a function that allows you to enter an upper and lower acceptable weight for a product or item that must be checked for weight conformity. After you set the limits of the acceptable target weight you can choose one of three modes of beeper operation:

Beep when OK (OK)	When the weight on the scale is between the upper and lower limits, the <i>ACCEPT</i> annunciator lights and the beeper sounds. When the weight is outside the acceptable range, the <i>OVER</i> or <i>UNDER</i> light will illuminate.
Beep when no good (NG)	When the weight on the scale is between the upper and lower limits, the <i>ACCEPT</i> annunciator lights. When the weight is outside the acceptable range, the <i>OVER</i> or <i>UNDER</i> light will illuminate and the beeper sounds.
No beep (NO)	When the weight on the scale is between the upper and lower limits, the <i>ACCEPT</i> annunciator lights. When the weight is outside the acceptable range, the <i>OVER</i> or <i>UNDER</i> light will illuminate. The beeper does not sound during checkweighing when this is chosen.

3.4.1 Setting Checkweighing Limits and Beeper Mode

To set the checkweighing upper and lower limits follow these steps:




1. Press the **Net** and the **Print** keys simultaneously and release...

SEt H is displayed. This stands for the high or upper weight limit acceptable for the item being weighed.

2. Press the **Enter (Zero)** key to access this item.

The current value of the upper limit is displayed with the right most digit flashing.

3. Use the keys, as described in the table below, to change the value.

	Press this key to move the flashing cursor to the left.
	Press this key to move the flashing cursor to the right.
	Press this key to increment the value of the flashing digit.

When finished, or if you do not want to change the current value, press the **Enter (Zero)** key to accept the displayed value.

SEt H is displayed.

4. Press the **Tare** key to move to the next item

SEt L is displayed. This is the lower acceptable weight limit.

5. Press the **Enter (Zero)** key to access this item.

The current value of the lower limit is displayed with the right most digit flashing.

6. Use the keys, as described in the table above, to change the value. See note below. When finished, or if you do not want to change the current value, press the **Enter (Zero)** key to accept the displayed value.

SEt L is displayed.



Use the **Clear (Print)** key to clear a value on the screen.




7. Press the **Tare** key to move to the next item

bEEP is displayed. Set the beeper function with this item.

8. Press the **Enter (Zero)** key to access this item.


The current setting for the beeper is displayed.

9. Scroll through the three settings using the **Tare** key. These are shown and described below:

	<p>This stands for OK (or Beep on OK)</p> <p>In this mode, when the weight on the scale is between the upper and lower limits, the ACCEPT annunciator lights and the beeper sounds. When the weight is outside the acceptable range, the OVER or UNDER light will illuminate but the beeper will not sound.</p>
	<p>This stands for NG (or Beep when No Good)</p> <p>In this mode, when the weight on the scale is between the upper and lower limits, the ACCEPT annunciator lights. When the weight is outside the acceptable range, the OVER or UNDER light will illuminate and the beeper sounds.</p>
	<p>This stands for NO (no Beeper)</p> <p>When the weight on the scale is between the upper and lower limits, the ACCEPT annunciator lights. When the weight is outside the acceptable range, the OVER or UNDER light will illuminate. The beeper will never sound.</p>

10. With your choice displayed, press the **Enter (Zero)** key to accept the displayed choice.

bEEP is displayed.

11. Press the  key to return to normal operating mode.

Esc



*Checkweighing function only available when weight is more than 20 divisions. The **Under** annunciator will not light until weight on the scale exceeds the 20 division minimum.*

*To disable the checkweighing function enter zero into both limits by pressing the **PRINT** key when the current limits are shown then pressing **ZERO** to store the zero values.*

3.5 Accumulating Weights

The scale has an accumulate function which stores the displayed weight in memory. Follow these steps to use the accumulate function:

1. Power up the scale, zero the scale if necessary and place the object to be weighed on the scale platform...

Gross weight is displayed.

2. When the weight is stable press the **M+** key...

The display will show **ACC 1** and then the total in memory for two seconds before returning to gross weight display. Also, the **M+** annunciator in the lower right corner of the display will appear briefly as a reminder that there is weight in the accumulator memory. See Figure 3.1.

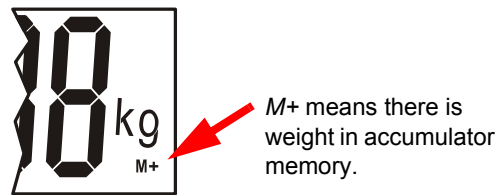


Figure 3.1 M+ annunciator

3. You must remove the weight from the scale and allow the display to return to zero before you add another weight to be accumulated. Repeat the process: Place the weight on the scale, press the **M+** key to accumulate the weight, and remove the weight until you have weighed everything you want in memory.

4. Press the **MR** (memory recall) key to see the information stored in the memory...

ACC X is displayed briefly. **X** is the total number of instances a weight has been accumulated. This is followed by a brief display of the total weight that has been accumulated. The screen will return to normal mode automatically.

5. To remove the accumulated weight from the memory, press and release the **M+** and **MR** keys simultaneously...

ACC 0 is briefly displayed showing the accumulator has been cleared and the indicator returns to normal operating mode.

3.6 Animal Weighing

The scale can be used to weigh small animals. It has a filtering mode to slow the weight display response so the movement of the animal does not constantly affect the weight reading.

To enable or disable this function press the **Zero** and **Tare** keys simultaneously. You should hear 2 or 3 beeps to let you know you've toggled the setting.

Place the animal on the platform and the reading will gradually change. When the weight reading is steady, note the weight then remove the animal and place the next one on the scale.

Press the **Zero** and **Tare** keys simultaneously again to return to normal weigh mode.

3.7 User Settings

The user has access to two settings: Backlight and Auto Power Off.

3.7.1 Set Backlight

To change the operation of the backlight, follow these steps:

1. Hold the **Zero** key for three seconds
SEtbL is displayed. This stands for the Set Backlight function.
2. Press the **Enter (Zero)** key to enter backlight setting
3. Press the **Tare** key to scroll through backlight modes:
BL ON = backlight always on
BL AU = auto backlight, backlight will go on when any key is pressed or a load is placed on the scale
BLOFF = backlight always off
4. Press the **Enter (Zero)** key to accept displayed choice.
5. Press the **Esc (Net)** key to return to normal operating mode.

3.7.2 Set Auto Power Off

To change the operation of the Auto Power Off function, follow these steps:

1. Hold the **Zero** key for three seconds
SEtbL is displayed.
2. Press the **Tare** key...
SEtoF is displayed. This stands for the Set Off function.
3. Press the **Enter (Zero)** key to enter this item...
Current setting is displayed.
4. Press the **Tare** key to scroll through the choices:
OF ON = the scale remains on constantly
OF 5 = scale powers off after 5 minutes of inactivity
OF 15 = scale powers off after 15 minutes of inactivity
5. Press the **Enter (Zero)** key to accept displayed choice.
6. Press the **Esc (Net)** key to return to normal operating mode.



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