



FX 50



User Instructions

ENGLISH

© Avery Berkel 2008. All rights reserved.

No part of this publication may be reproduced, stored in an electronic retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written consent of the copyright owner, or as permitted by law or under licence. Full acknowledgment of the source must be given. Avery Berkel is a division of ITW Limited. This publication was correct at the time of going to print and is supplied without liability for errors or omissions. Avery Berkel reserves the right to alter without notice the specification or design of any product or service at any time.

Trademarks and acknowledgements

Avery Berkel is a registered trademark in certain jurisdictions. All brands and product names used within this document are trademarks or registered trademarks of their respective holders

IMPORTANT

When programming or configuring the equipment you must ensure that you comply with all relevant standards and legislation. The example settings given in this book may not be legal for trade with the public.

ESPAÑOL

© Avery Berkel 2008. Todos los derechos reservados.

Ninguna parte de esta publicación podrá ser reproducida ni almacenada en medios de recuperación electrónica, o transmitida de cualquier modo o con cualquier propósito, de forma electrónica, mecánica, fotocopiada, grabada u otra sin el consentimiento previo por escrito del propietario de los derechos de autor, o según lo permita la ley o bajo licencia. Se deberá proporcionar un reconocimiento completo de la fuente. Avery Berkel es una división de ITW Limited. Esta publicación era correcta en el momento de ser enviada a imprenta y se proporciona sin responsabilidades por errores u omisiones. Avery Berkel se reserva el derecho a alterar sin previo aviso las especificaciones o el diseño de cualquier producto o servicio en cualquier momento.

Marcas comerciales y aceptaciones

Avery Berkel es una marca comercial registrada en ciertas jurisdicciones. Todas las marcas y nombres de productos utilizados en este documento son marcas comerciales o marcas comerciales registradas de sus respectivos propietarios.

IMPORTANTE

Al programar o configurar el equipo, debe asegurarse de cumplir todas la legislación y las normas relevantes. Los ejemplos de configuraciones que se ofrecen en este libro pueden no ser legales para el comercio público.

Declaration of Conformity

The non-automatic weighing instrument	
Manufacturer Type	Avery Berkel FX50
Number of EC type approval certificate	UK2831
corresponds to the requirements of the following EC directives:	
Non-Automatic Weighing Instruments Directive EMC Directive	90/384/EEC ¹ 2004/108/EC 2006/95/EC
The applicable harmonised standards are:	EN 45501 EN 60950 EN 61000-6-3
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.	
A copy of the original signed declaration for this instrument is available from:	
Avery Berkel, Foundry Lane, Smethwick, West Midlands, B66 2LP	

Verklaring van Overeenstemming

Niet-automatische weegwerktuigen	
Fabrikant Type	Avery Berkel FX50
Nummer van de Verklaring van EG-typegoedkeuring	UK2831
is in overeenstemming met de voorschriften van de volgende EG-richtlijnen:	
Niet-automatische weegwerktuigen Richtlijn EMC Richtlijn Laagspanning	90/384/EEC ¹ 2004/108/EC 2006/95/EC
Toegepaste geharmoniseerde normen:	EN 45501 EN 60950 EN 61000-6-3
Opmerking 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.	
Een kopie van de originele ondertekende verklaring is verkrijgbaar bij:	
Avery Berkel, Foundry Lane, Smethwick, West Midlands, B66 2LP	

Déclaration de Conformité

L'instrument de pesage non automatique	
Fabriquante Type	Avery Berkel FX210/FX220 Service Instructions
No. de certificat d'approbation CE de type	UK2831
correspond aux exigences des directives CE suivantes :	
Instruments de pesage à fonctionnement non automatique Directive CEM Directive sur les basses tensions	90/384/EEC ¹ 2004/108/EC 2006/95/EC
Les normes harmonisées applicables sont :	EN 45501 EN 60950 EN 61000-6-3
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.	
Une copie de la déclaration originale signée est disponible pour cet instrument auprès de :	
Avery Berkel, Foundry Lane, Smethwick, West Midlands, B66 2LP	



Contents

1.	Warnings and cautions	5
1.1	Installing the scale safely	5
1.2	Cautions for using the scale safely	5
1.3	Cleaning the scale	7
2.	Main parts, keyboard and display	9
2.1	Main parts	9
2.2	Keyboard variants	11
3.	Installing the scale	17
3.1	Assembling the tower variant	17
3.2	Levelling the scale	18
3.3	Charging the battery	19
3.4	Changing the display backlight mode	19
3.5	Setting the auto power off mode	20
3.6	Changing the battery	21
4.	Operating the scale	23
4.1	Key to symbols used	23
4.2	Switching on and setting up the scale	25
4.3	Weighing individual items	26
4.4	Weighing items of the same unit price	27
4.5	Weighing using known tares	28
4.6	Weighing using unknown tares	30
4.7	Using proportional tares	31
4.8	Multiplying a unit price	33
4.9	Programming direct PLUs	34
4.10	Weighing using direct PLUs	35

4.11	Programming indirect PLUs	36
4.12	Weighing using indirect PLUs	37

5. Error codes 39

Thank you for choosing this Avery Berkel product.

Please read these safety and user instructions before you use this product.

Please read all the sections of this document that have Danger, Warning and Caution symbols and notices.



WARNING! *This is a Warning symbol. Warnings mean that failure to follow specific practices and procedures may have major consequences such as injury to personnel or serious corruption to data or loss of data.*



DANGER! *This is a Danger symbol. Danger means that failure to follow specific practices or procedures may result in an electrical shock that could cause personal 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. Warnings and cautions

1.1 Installing the scale safely

⚠ WARNING: You must install pluggable equipment near to an easily accessible socket outlet. The electrical supply to the outlet must give over-current protection of an appropriate rating.

⚠ WARNING: If in doubt, ask a qualified electrician for advice.

1.2 Cautions for using the scale safely

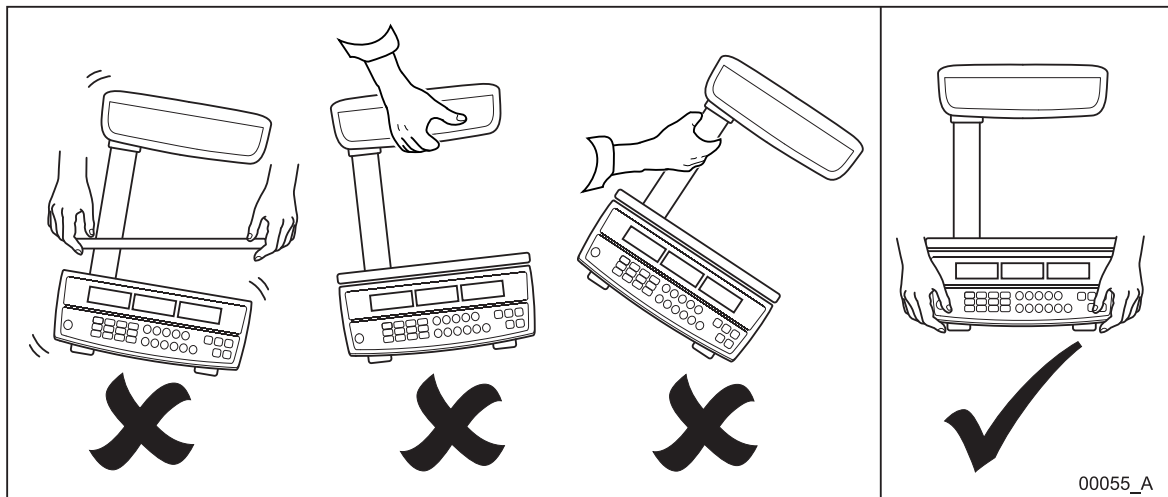


Fig 1-1. Picking up the scale correctly

1. Warnings and cautions

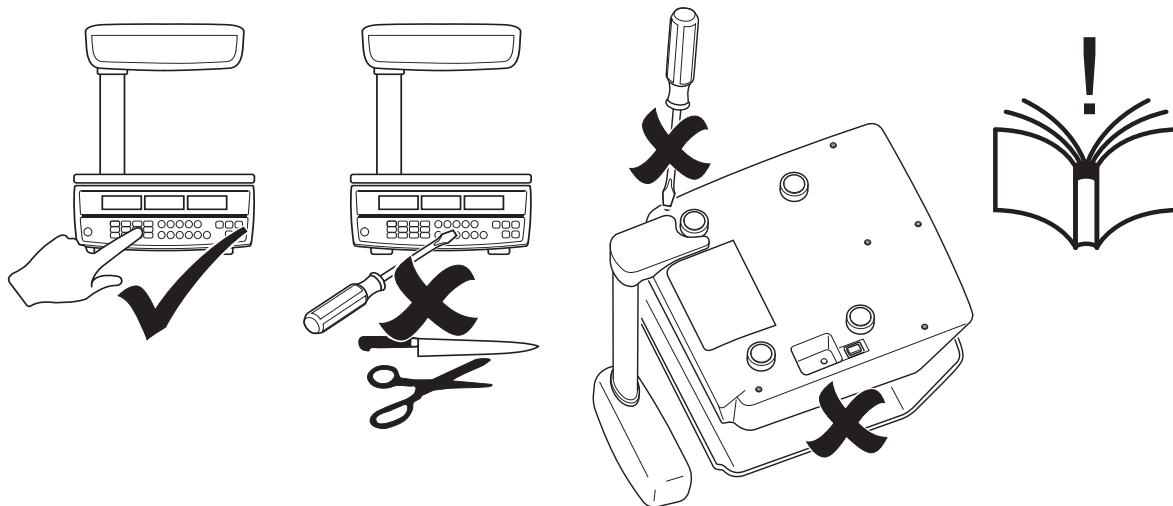
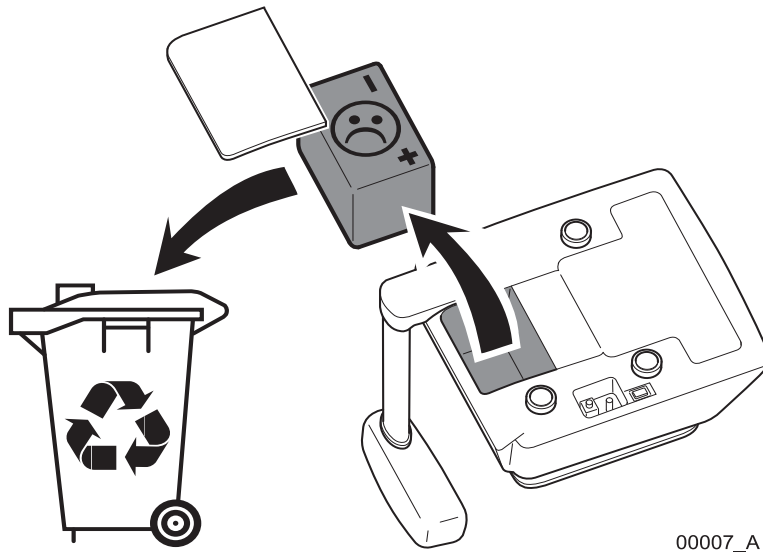
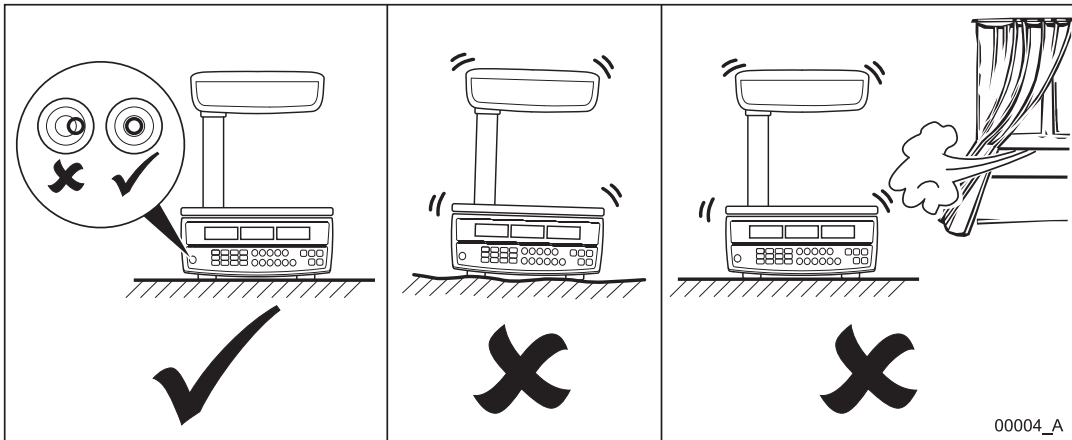


Fig 1-2. Cautions for using the scale

1.3 Cleaning the scale



CAUTION: Do not use harsh abrasives, solvents, scouring cleaners and alkaline cleaning solutions, such as washing soda, to clean the outside of the scale.

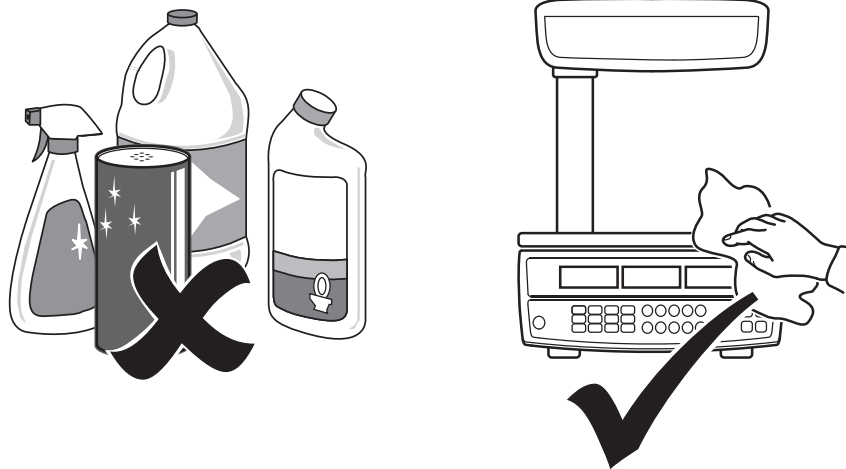
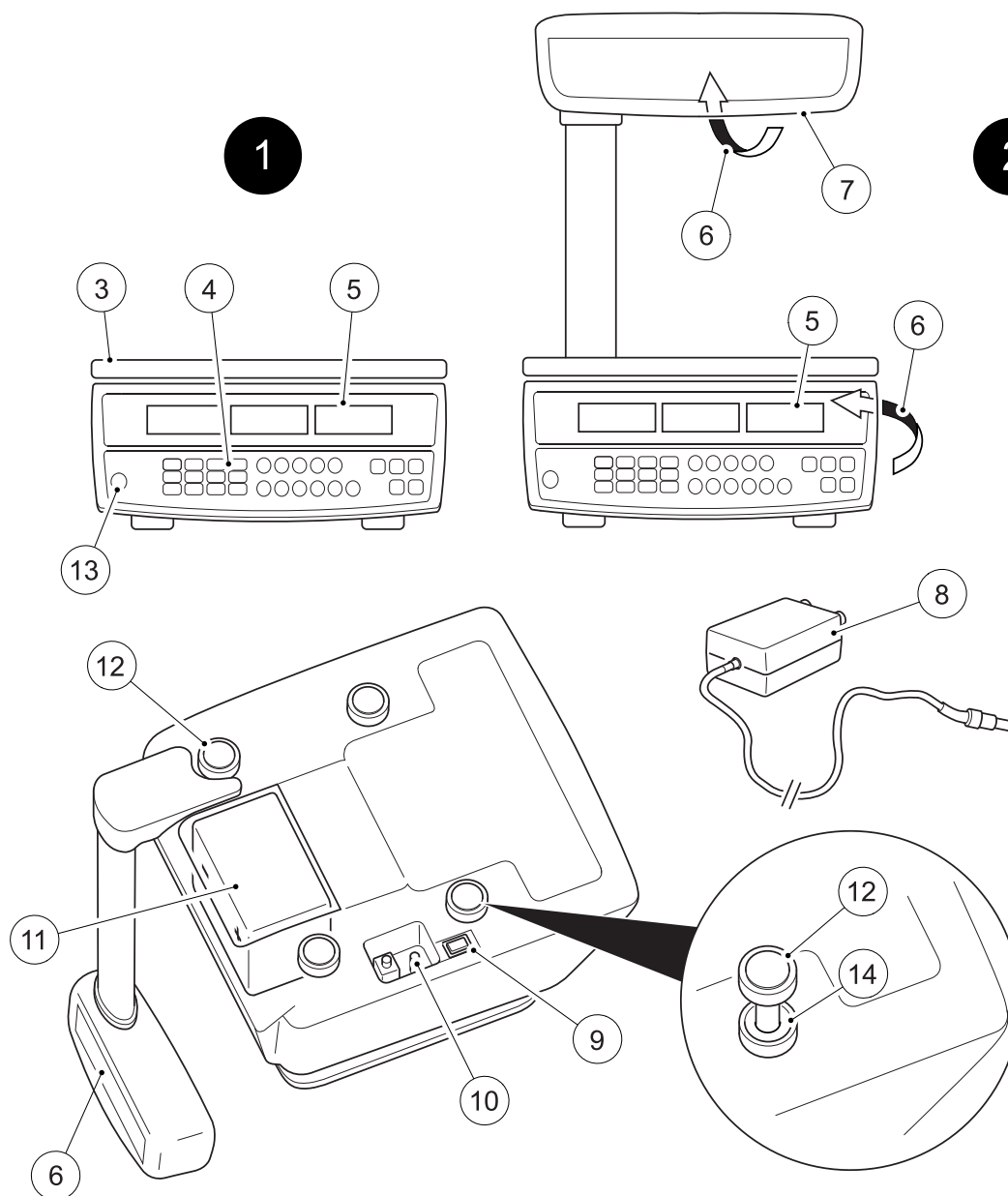


Fig 1-3. Cleaning the scale

To clean the outside of the scale, wipe it down with a clean cloth moistened with water containing a small amount of mild detergent or unscented washing-up liquid.

2. Main parts, keyboard and display

2.1 Main parts



00011_A

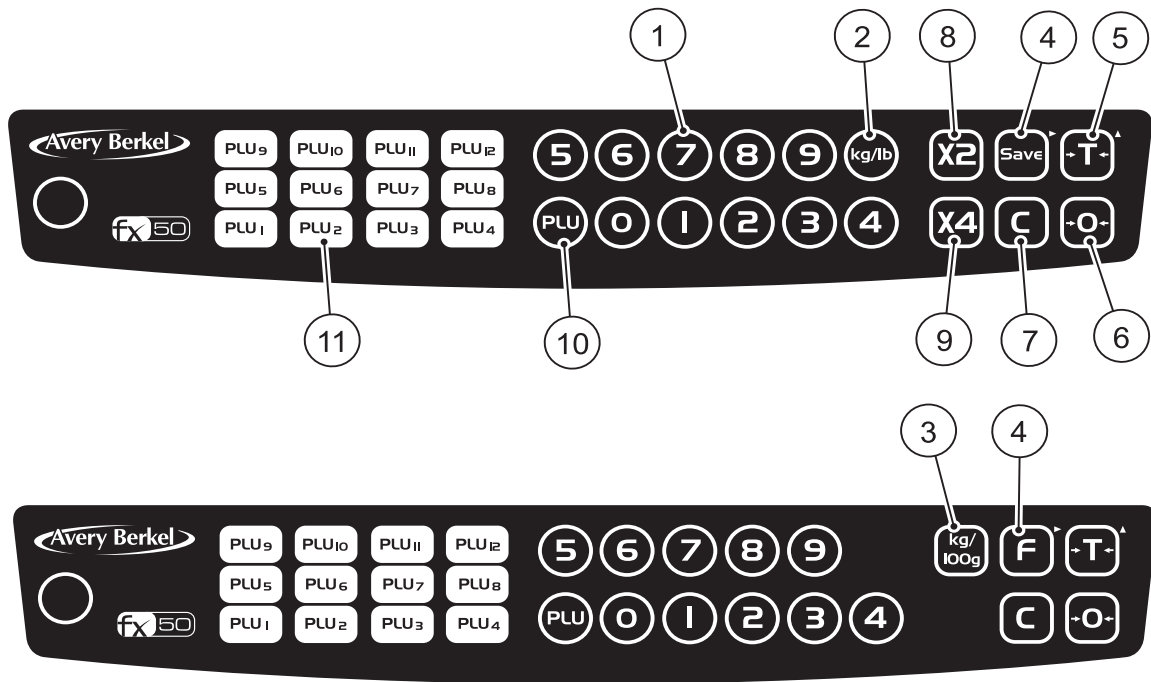
Fig 2-1. Main parts of the FX 50 monoblock & tower variants

2. Main parts, keyboard and display

Item	Part	Item	Part
1	Monoblock variant	8	AC adaptor
2	Tower variant	9	On/Off switch
3	Stainless steel weigh pan	10	AC adaptor socket
4	Keyboard	11	Rechargeable battery
5	Operator display	12	Levelling feet
6	Customer display	13	Levelling bubble
7	Tower assembly	14	Locknut for levelling feet

2.2 Keyboard variants









English






00012_A

Fig 2-2. USA keyboard (above) and Europe & Rest of the World (RoW) keyboard (below)

2. Main parts, keyboard and display

No.	Key	Key name	Press this key to ...
1		Numeric keys	Enter individual unit prices, unit prices for direct PLUs and indirect PLUs, known tares and proportional tares.
2		Units of Weight key <i>(USA option)</i>	Switch between kilogram and pound units of weight. An arrow ▼ appears in the display above the units you selected.
3		Price Base Selection key <i>(UK, Europe & RoW option)</i>	Switch between a price per kilogram and a price per 100 grams price base. An arrow ▼ appears in the display above the price base you selected.
4		Fix key <i>(UK, Europe & RoW)</i> or Save key <i>(USA)</i> . Also Menu Navigation key (▶).	Fix or save a weight or price you entered until you cancel it. You also press this key (▶) to scroll through the menu options.
5		Tare key. Also Select Menu Option key (▲).	Enter and clear tare weights such as item containers and wrappers. The scale subtracts the tare weight when items are packaged for weighing. You also press this key (▲) to select an option from the menu.
6		Zero key	Manually zero the scale and return the unit price and total weight displays to zeros.
7		Clear key	Clear incorrect entries and error conditions.
8		Multiply by 2 key <i>(USA only)</i>	Multiply the total price by two.

No.	Key	Key name	Press this key to ...
9		Multiply by 4 key <i>(USA only)</i>	Multiply the total price by four.
10		Indirect PLU key	Recall and set up prices against up to 38 indirect Price Look-Up (PLU) keys.
11		Direct PLU keys	Recall and set up prices against up to 12 direct Price Look-Up (PLU) keys.

2. Main parts, keyboard and display

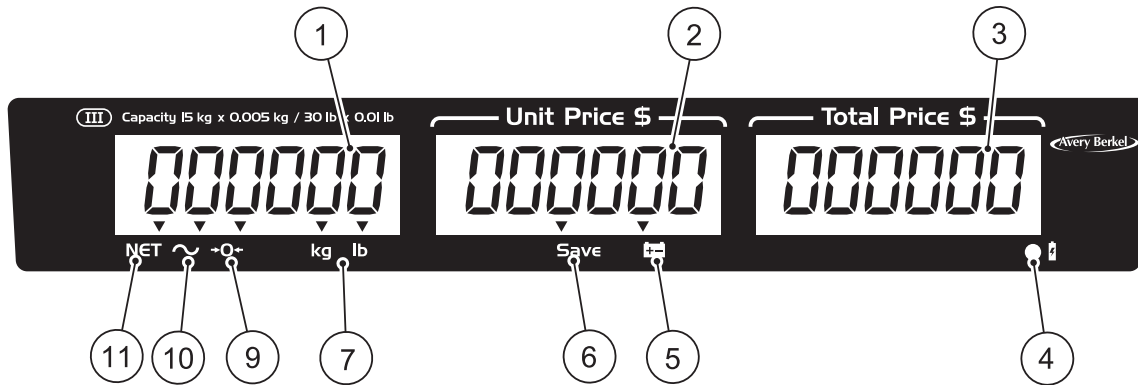


Fig 2-3. USA display

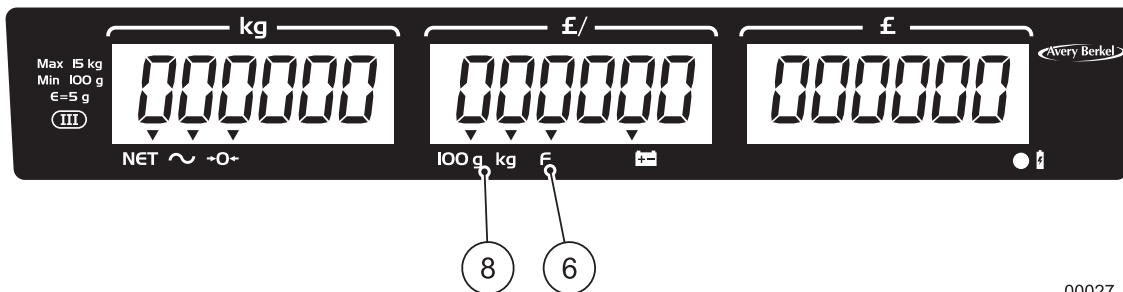


Fig 2-4. UK display

00027_A

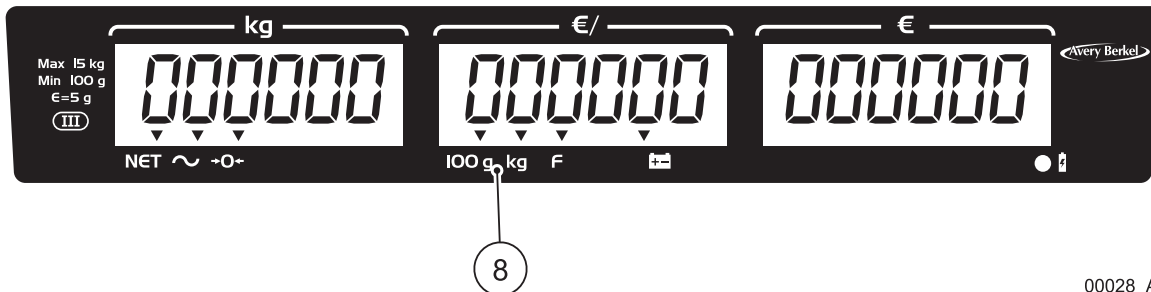







Fig 2-5. Europe & Rest of the World (RoW) display

00028_A



Fig 2-6. Canada display

Item	Name & Symbol	Purpose
1	Weight display	Shows the gross or net weight of the item.
2	Unit price display	Shows the unit price of the item.
3	Total price display	Shows the total price of the item.
4	 Battery is charging indicator	A red light shows that the battery is charging. A green light shows that the battery is fully charged.
5	 Battery charge is low indicator	A light comes on to show that the battery charge is low so you must recharge it immediately.
6	F / Save Fix or Save indicator	An arrow ▼ shows you pressed the  /  key before any operation to stop the weight display and the unit price display from clearing automatically.
7	Units of weight indicator	An arrow ▼ shows that the units of weight you selected is either kilograms or pounds (USA variant only).
8	Price-based selection indicator	An arrow ▼ shows that the price base you selected is either price per 100 grams or price per kilogram (UK/Europe/RoW variant only). NOTE: The Australian variant is fixed to kilogram only.
9	-0- Zero indicator	An arrow ▼ shows that the scale is at gross zero (there is no tare weight). Arrows above both NET and -0- show that the scale is at net zero (includes a tare weight).
10	 Stable indicator	An arrow ▼ shows that the item weight is stable.
11	NET Net weight indicator	An arrow ▼ shows that a tare weight is set and the displayed weight is a net weight (the displayed weight excludes the tare weight).

3. Installing the scale

3.1 Assembling the tower variant

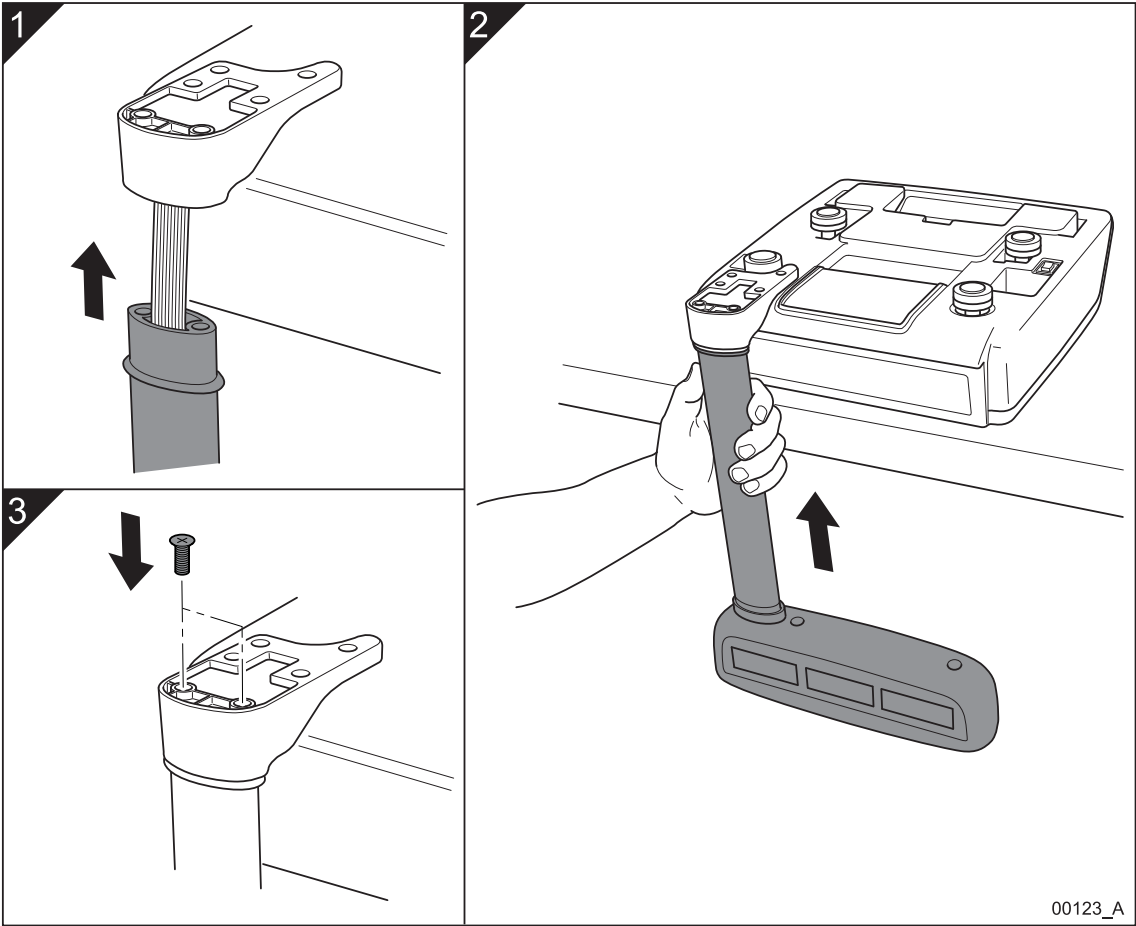
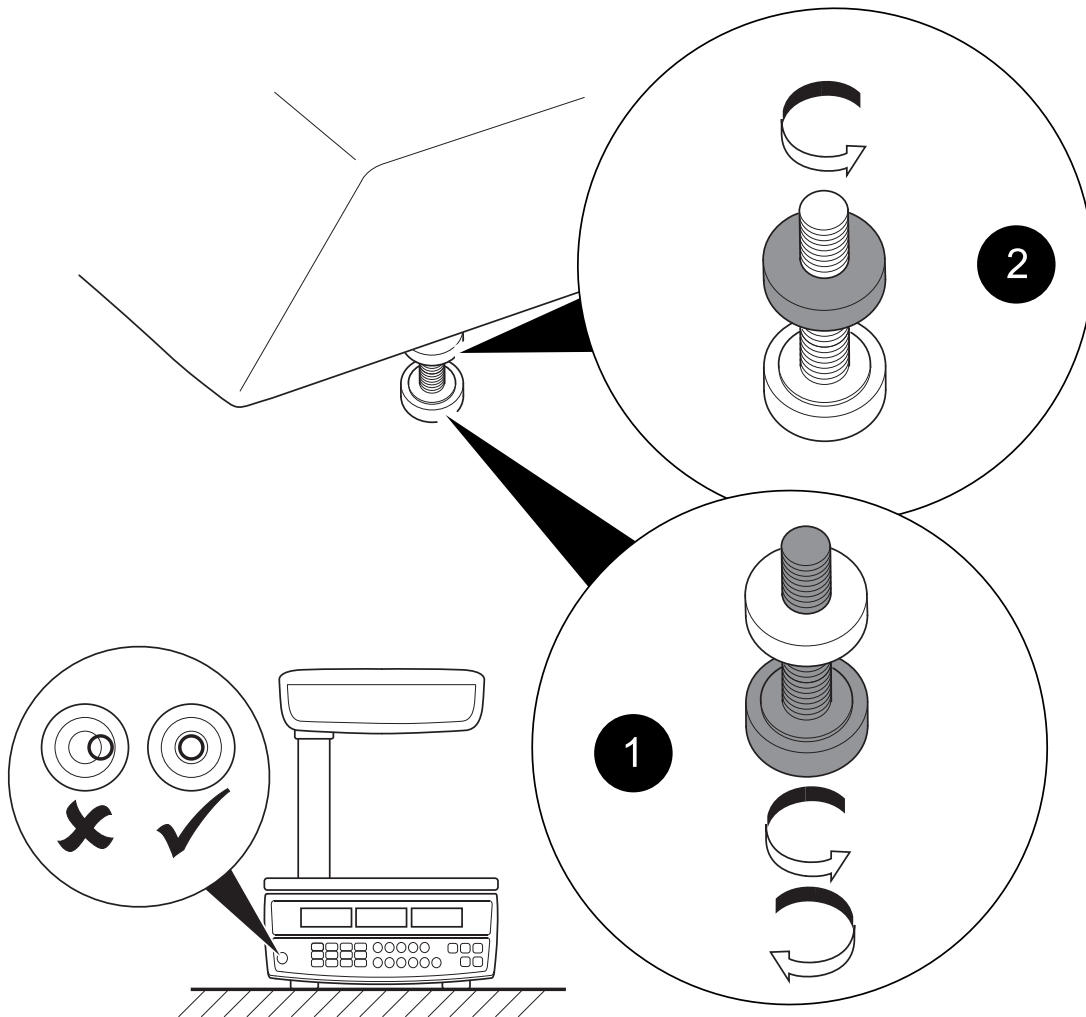


Fig 3-1. Assembling and installing the tower variant

3.2 Levelling the scale



00030_A

Fig 3-2. Levelling the scale

3.3 Charging the battery

You can power and operate the scale using:

- mains power supply from the AC adaptor (with the rechargeable battery fitted); or
- a re-chargeable battery located inside the scale.

When you connect the scale to the mains power supply using the AC adaptor the battery charging indicator comes on to show that the power is connected and the battery is charging.

- Red battery charging indicator = Battery needs charging.
- Green battery charging indicator = Battery is fully charged.

You need to fully charge the battery before the first time that you use the scale.




If you do not use the scale over a long period of time, you need to charge the battery every three to six months to maintain its performance.

3.4 Changing the display backlight mode

You can set the backlights for the operator and customer displays to operate in one of these three different modes:


- **ON** = always on.
- **OFF** = always off.
- **AUTO** = the backlight comes on when you start to use the scale.

To change the display backlight mode do the steps as follows:

1. Press the **On** switch  to turn the scale on. The scale makes the first beep.
2. Press and hold down the  key and release it when you hear a second beep and the display comes on.
3. Press the  key to scroll through the three backlight modes (ON, OFF and AUTO) that the scale displays in the total price display.



NOTE: To cancel changing the backlight mode and return to weighing press the  key.

4. Press the  key to save the backlight mode you selected and return to weighing.

3. Installing the scale







NOTE: If you have the backlight ON all the time or set to AUTO it reduces the life of the battery in between charges.

3.5 Setting the auto power off mode

You can change the auto power off mode so that the scale stays on all the time or it automatically turns off after a pre-set amount of inactivity of 1, 5 or 30 minutes.

Do the steps as follows to set the auto power off mode:

1. Press the **On** switch  to turn the scale on.
2. While the scale is checking itself (when all the numbers on the scale's three displays count down from all zeros to all nines), press the  key. The total price display shows the current power off mode.
3. Press the  key to scroll through the following auto power off modes:
 - **0** = Scale stays on (as the auto power mode is disabled).
 - **1** = Scale turns off after 1 minute of inactivity.
 - **5** = Scale turns off after 5 minutes of inactivity.
 - **30** = Scale turns off after 30 minutes of inactivity.
4. Press the  key to save the auto power off mode you selected and return to weighing.

3.6 Changing the battery

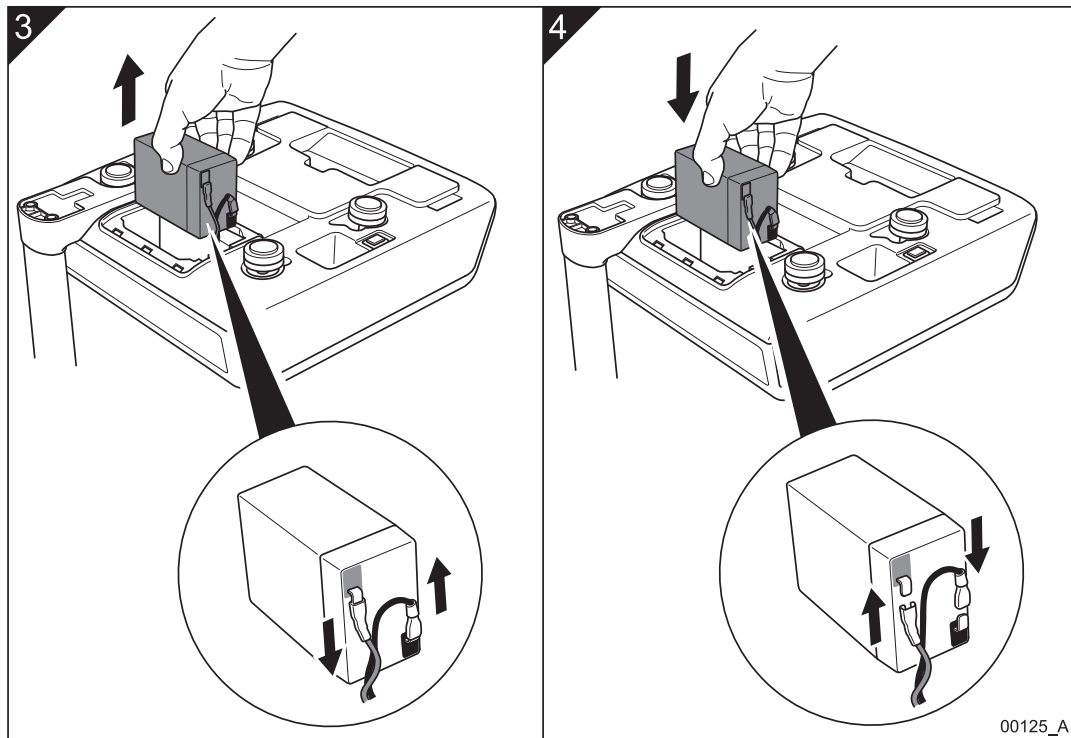
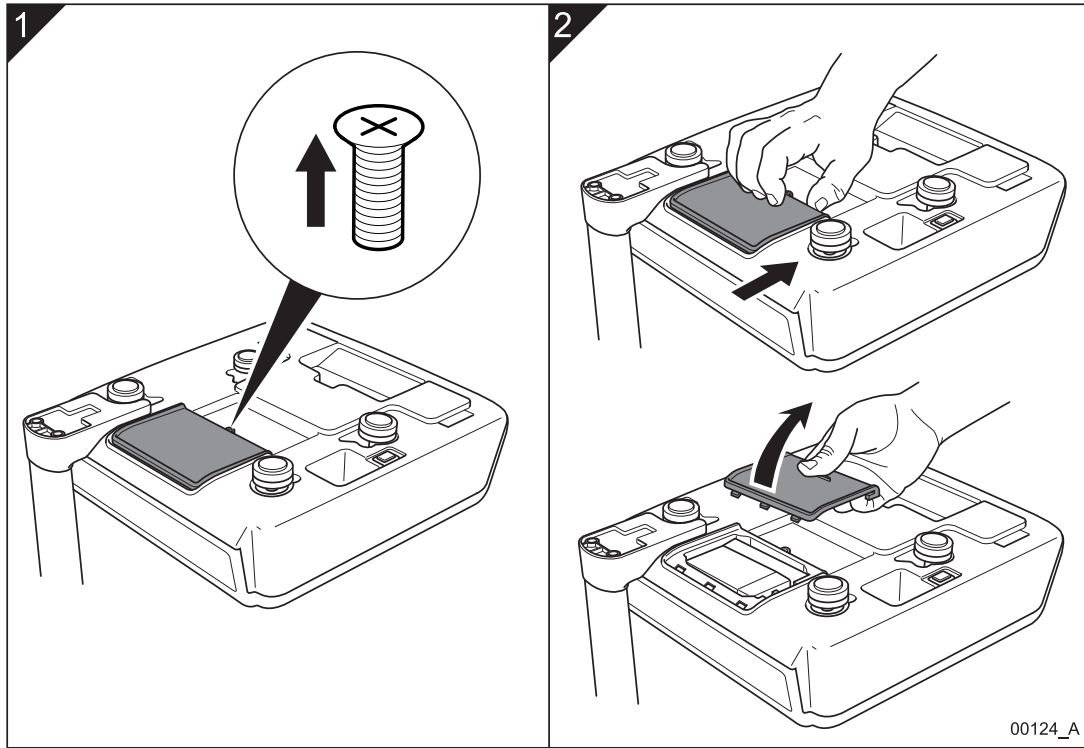


Fig 3-3. Changing the battery

3. Installing the scale

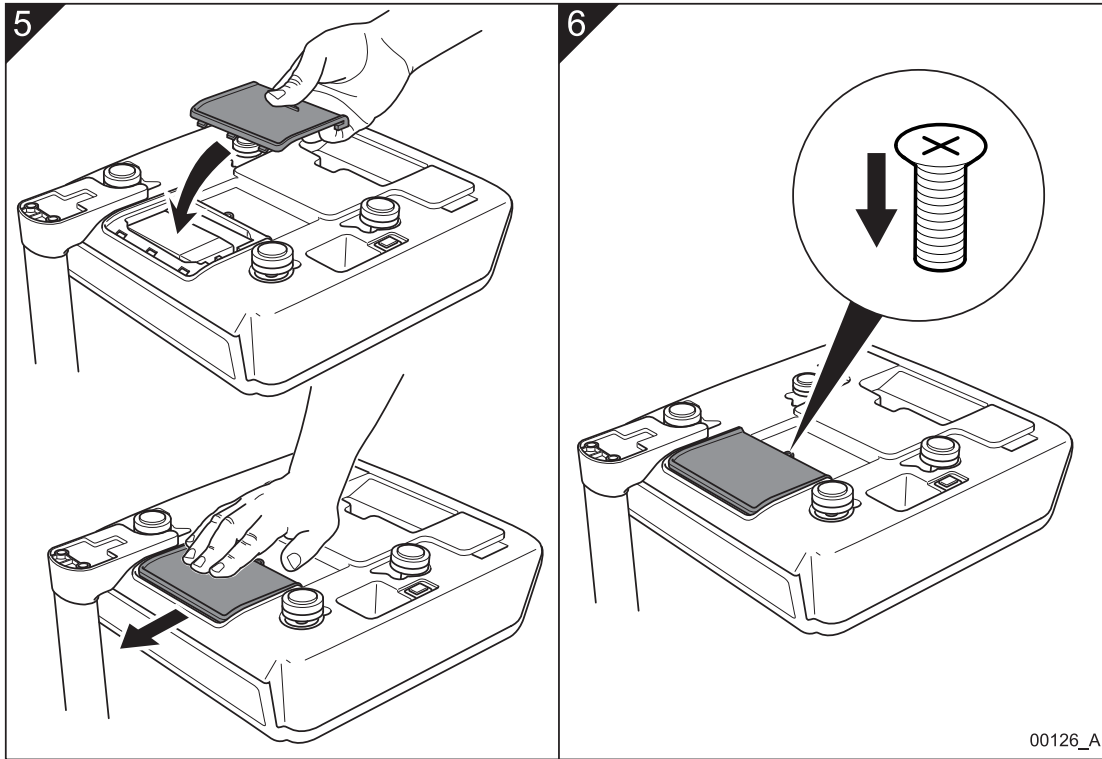



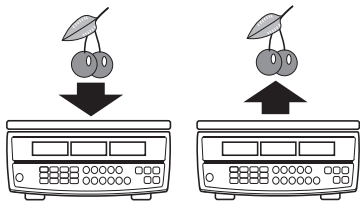
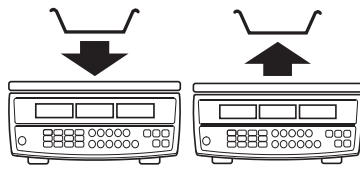
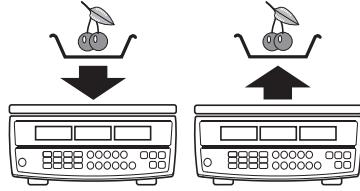
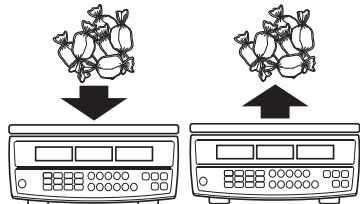


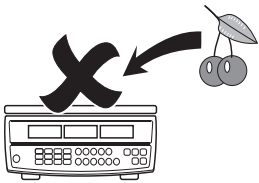







Fig 3-4. Changing the battery (continued)

4. Operating the scale

4.1 Key to symbols used

Symbol	Action
	Press the On/Off switch below the scale to turn the scale on or off.
	Press the Price Base Selection key to select the price base for the item you want to weigh. NOTE: This key is for the UK, Europe and the Rest of the World (RoW) variants only. NOTE: The Australian variant is Kg only.
	Press the Units of Weight key to select the units of weight for the item you want to weigh. NOTE: This key is for the USA variant only.
	Put an item without a container or wrapping on the weigh pan ↓. Remove the item ↑.
	Put an empty container or wrapping (or another type of tare weight) on the weigh pan ↓. Remove the container ↑.
	Put the item in a container or wrapping (or another type of tare weight) on the weigh pan ↓. Remove the item and the container ↑.
	Put items of the same unit price on the weigh pan ↓ such as 'pick and mix' sweets. Remove the items ↑.

4. Operating the scale

Symbol	Action
	<p>Do not put any items on the weigh pan.</p>
	<p>Depending on the functional mode of the scale, either press the keyboard numbers to enter the unit price of an item or press the keyboard numbers to type the unit prices for direct and indirect PLUs, known tare weights and proportional tares.</p>
	<p>If necessary, with no item on the weigh pan, press the Zero key to zero the scale.</p>
	<p>Clear the unit price you entered.</p>
	<p>Multiplies the total net price of the item the scale has weighed by either two or four. NOTE: These keys are for the USA variant only.</p>
	<p>Select a Direct PLU key.</p>
	<p>Select the Indirect PLU key.</p>
	<p>Repeat the numbered steps shown.</p>

4.2 Switching on and setting up the scale

To switch on and set up the scale so that it is ready to use do the steps as follows:

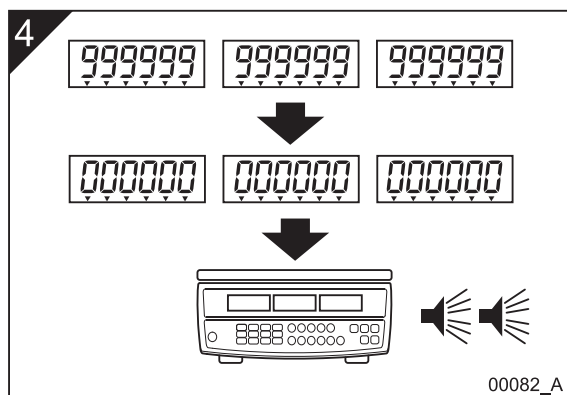
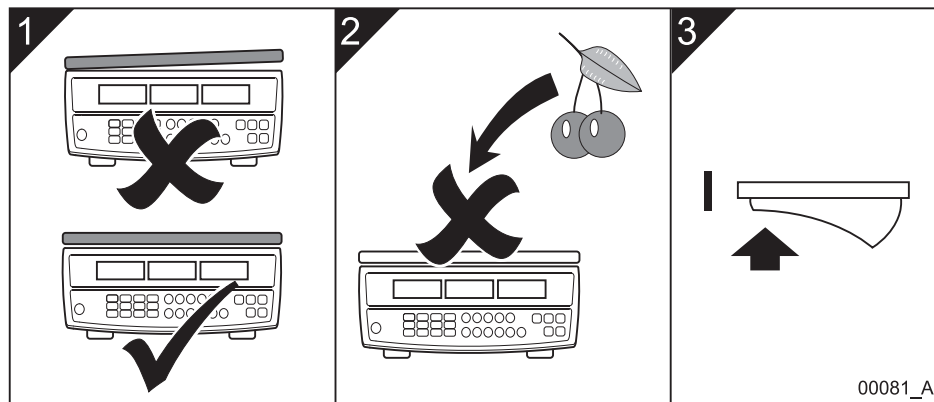


Fig 4-1. Switching on and setting up the scale

4.3 Weighing individual items

Do these steps to weigh items that have different weights and different unit prices:

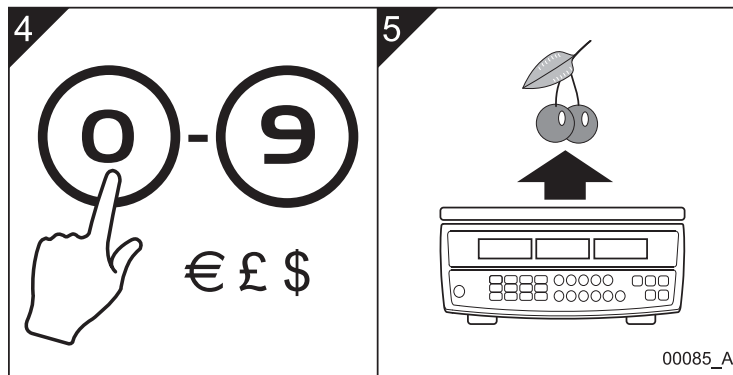
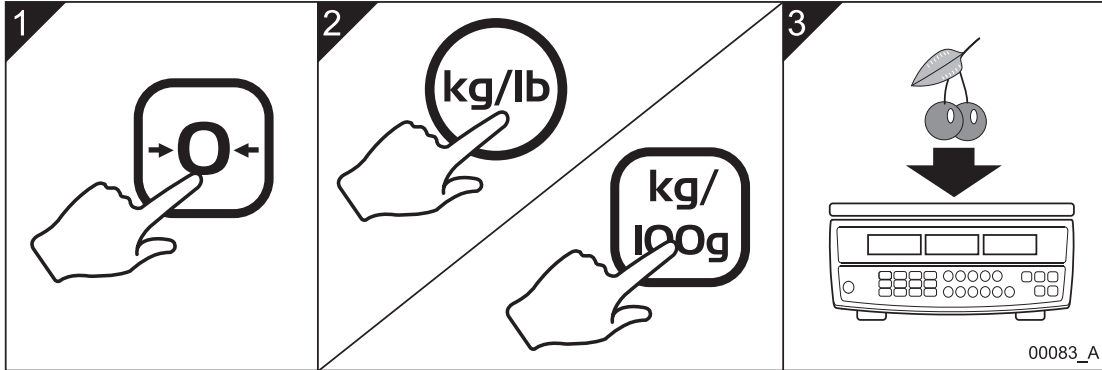


Fig 4-2. Weighing individual items

4.4 Weighing items of the same unit price

You can weigh the same type of items or different items that have the same unit price without the need to keep keying the unit price into the scale. To do this you enter and save the unit price in the scale until you decide to either change or cancel the price.

To weigh items of the same unit price do the steps as follows:

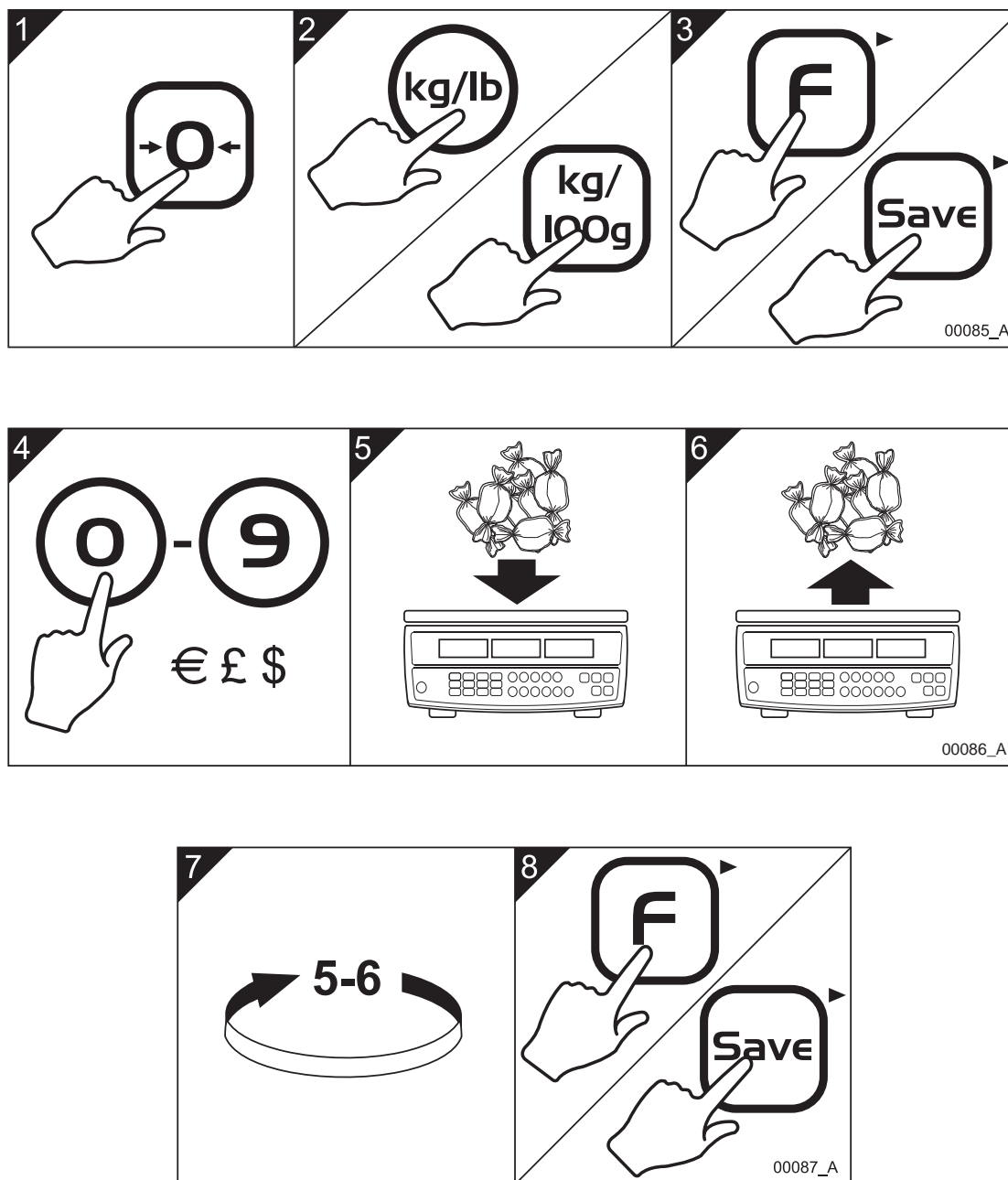


Fig 4-3. Weighing items of the same unit price

4. Operating the scale



NOTE: You can change the unit price that the scale has saved. To do this, retype the price and the scale will save the new unit price until you press the **F** / **Save** key to cancel it.

4.5 Weighing using known tares



NOTE: This function is for the USA and Canada variants only.

If you know the weight of an item such as a food container or wrapping that you use to contain or pack items on the scale and you want to use this as a tare weight, you can manually enter the tare weight into the scale. The scale deducts the weight of the tare item from the total gross weight and displays the net weight and the total price of the item only.



NOTE: When you have entered a tare weight the scale displays a minus figure in the weight display to represent the tare weight.



NOTE: At step 6 you can manually enter the unit price of the item or you can recall the item price using either a direct PLU or an indirect PLU. See Sections 4.9 - 4.12 for information about PLUs.

To enter a tare weight that you know and then weigh an item that has the same tare weight do the steps as follows:

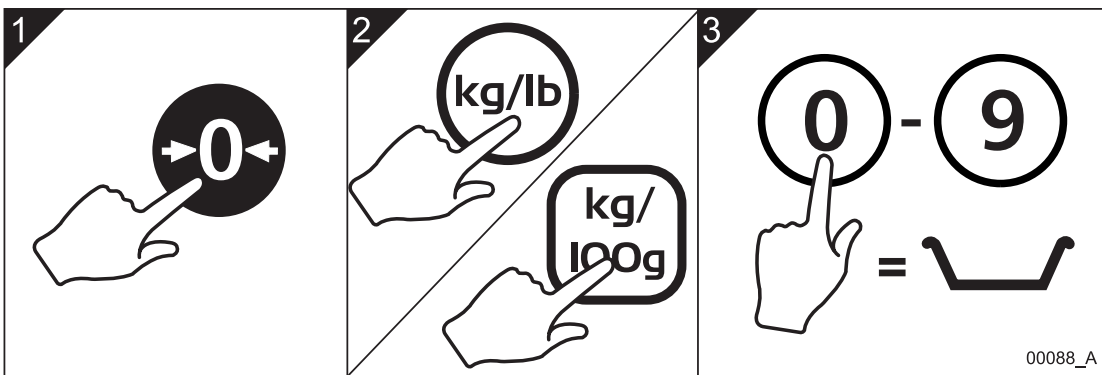


Fig 4-4. Weighing using known tares

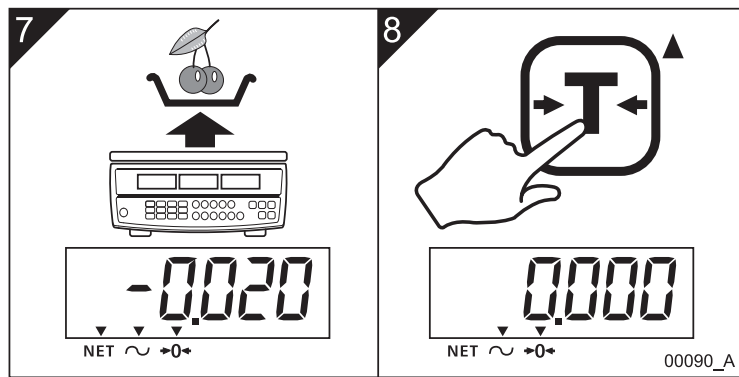
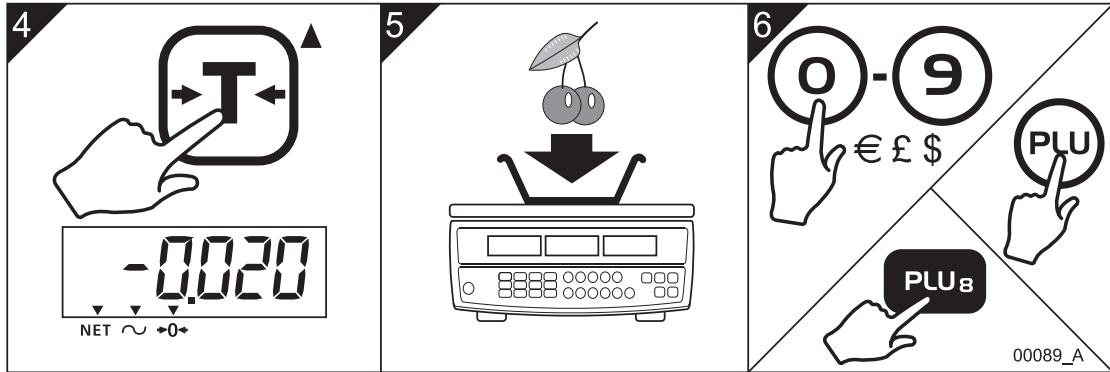



Fig 4-5. Weighing using known tares (continued)

4.6 Weighing using unknown tares

You can weigh items such as food containers and wrapping you use to contain or pack items on the scale and save their tare weights before you weigh the items. You do this so that, when you put items on the scale in a container, the scale deducts the tare weight from the total gross weight and displays the net weight and the total price of the items only.

 **NOTE:** At step 6 you can manually enter the unit price of the item or you can recall the item price using either a direct PLU or an indirect PLU. See Sections 4.9 - 4.12 for information about PLUs.

Do the steps as follows to weigh and save an unknown tare weight:

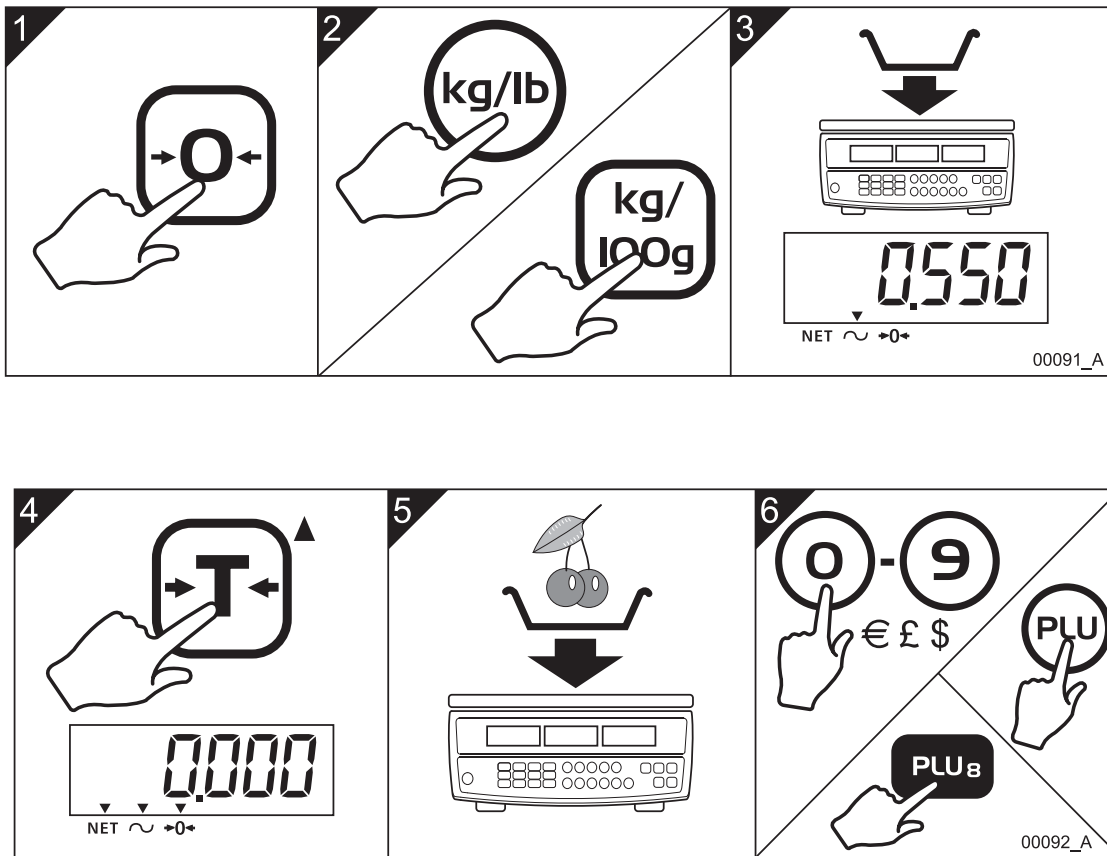


Fig 4-6. Weighing using unknown tares

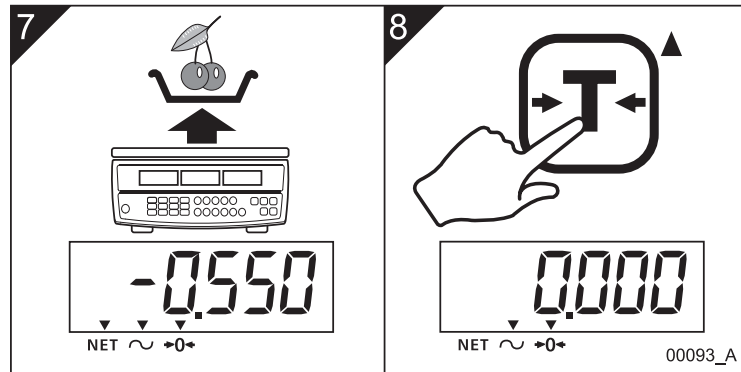




Fig 4-7. Weighing using unknown tares (continued)

4.7 Using proportional tares

 **NOTE:** This function is for the USA and Canada variants only.

You can enter the tare weight of items such as containers as a percentage proportion of the total gross weight of the item and the tare. For example, you can enter a proportional tare of 25% if the gross weight of the items you want to weigh includes a tare weight that is 25% of the gross weight to package the item.

 **NOTE:** At step 6 you can manually enter the unit price of the item or you can recall the item price using either a direct PLU or an indirect PLU. Refer to Sections 4.9 - 4.12 for information about PLUs.

4. Operating the scale

To enter an example proportional tare weight of 25% do the steps as follows:

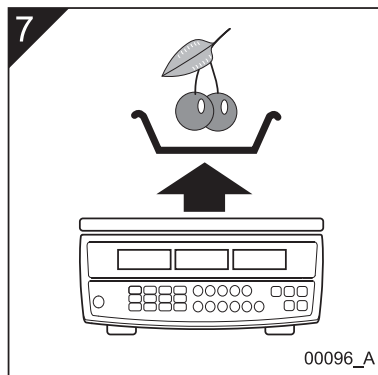
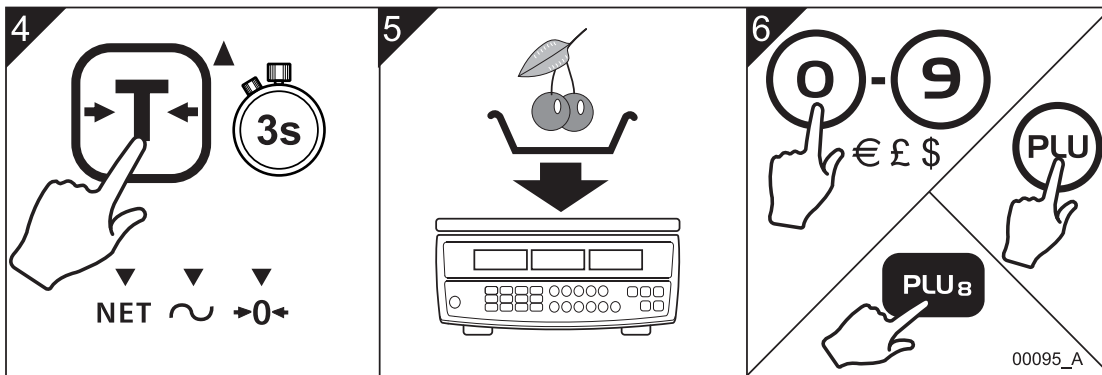
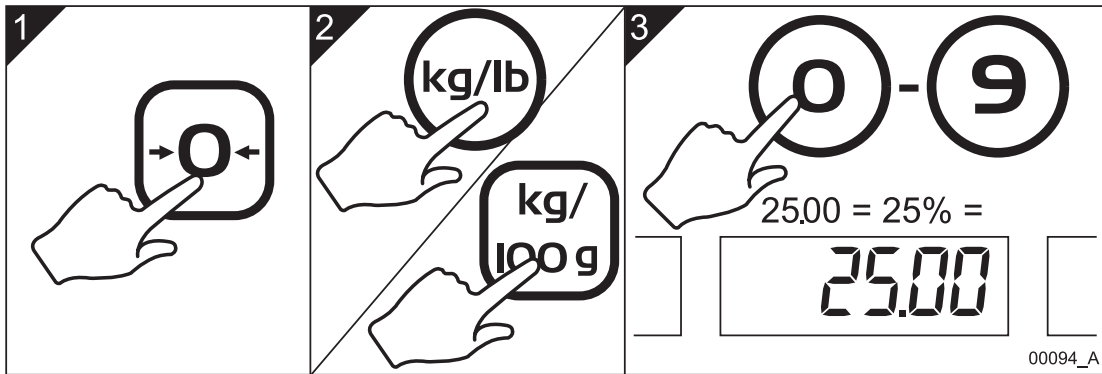




Fig 4-8. Using proportional tares

4.8 Multiplying a unit price

 **NOTE:** This function is for the USA variant only.

You can weigh items, enter a unit price and then multiply the total price you entered by either two or four. You do this to multiply the total price of items that are priced in divisions of pound units, such as a quarter pound and half a pound.

 **NOTE:** At step 6 you can manually enter the unit price of the item or you can recall the item price using either a direct PLU or an indirect PLU. Refer to Sections 4.9 - 4.12 for information about PLUs.

To multiply a unit price you entered by a multiple of either two or four do these steps:

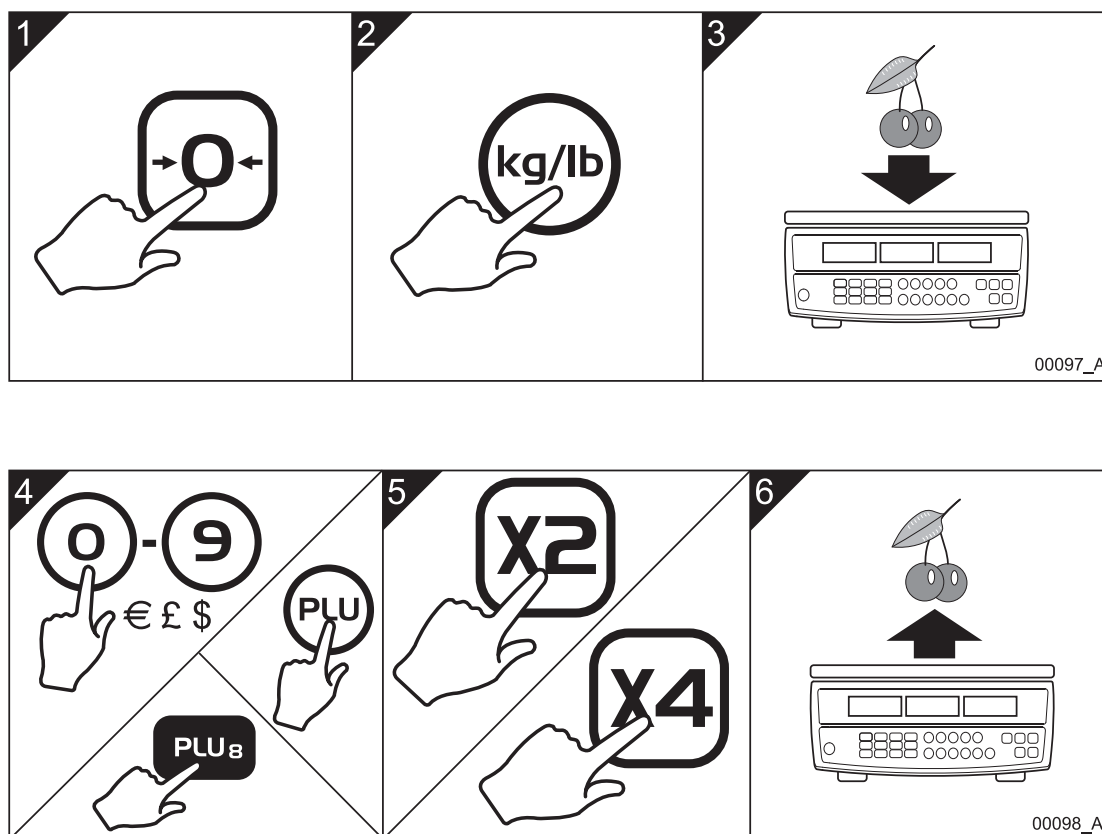


Fig 4-9. Multiplying a unit price

4.9 Programming direct PLUs



NOTE: You can press the direct PLU keys **PLU₁** - **PLU₁₂** to recall the units of weight and the item prices of particular items after you have saved this information in the scale's memory.

You can enter and store the units of weight (or the price base for UK, Europe and RoW scale variants) together with different unit prices to the twelve direct Price Look-Up (PLU) keys on the keyboard. This allows you to recall and use a unit price that you have already stored in the scale's memory against a direct PLU key. This means you can quickly weigh items that you sell a lot of without the need to type unit prices for particular items each time you weigh them.

To store the units of weight (or the price base) together with a price against an example direct PLU of number 8 do the steps as follows:

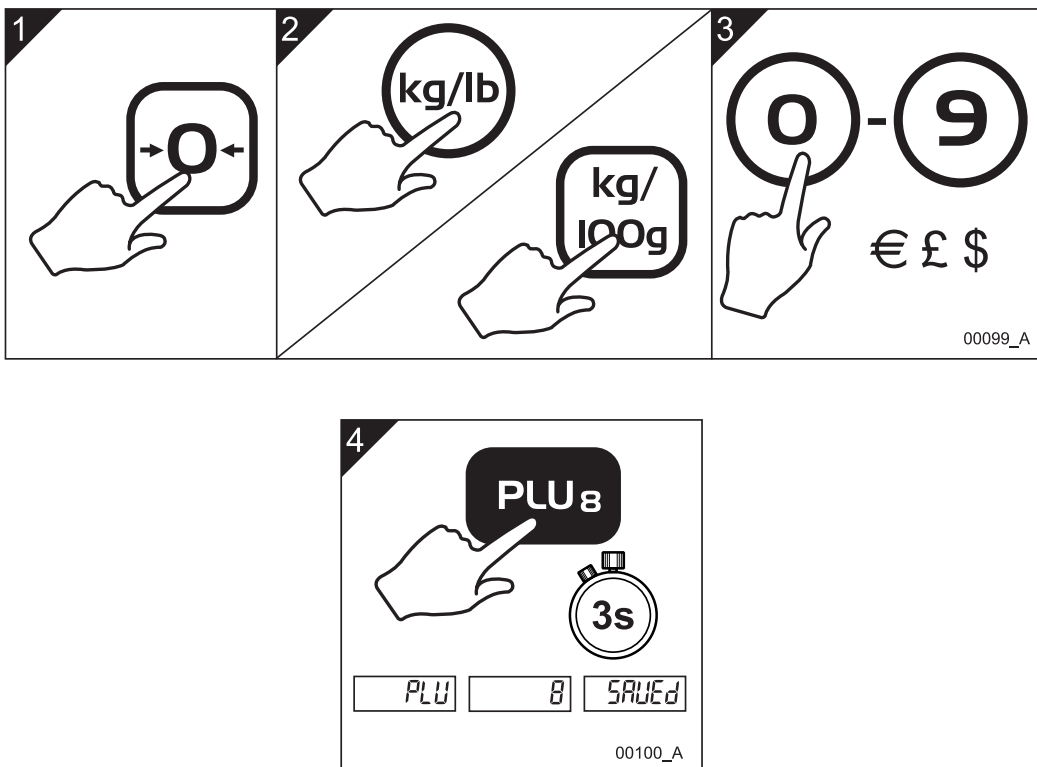


Fig 4-10. Programming direct PLUs




NOTE: An additional 38 indirect PLUs are available. See Sections 4.11 and 4.12.

4.10 Weighing using direct PLUs

When you have programmed unit prices against direct PLU keys you can weigh items more quickly by recalling the preset unit prices you programmed using the direct PLU keys such as **PLU₁** . .

To weigh an item using an example direct PLU of number 8 do the steps as follows:

 **NOTE:** You can use two methods to weigh items using direct PLUs. You can put the item on the scale and then press the direct PLU key or you can press the direct PLU key and then put the item on the scale (see steps 2 & 3 below).

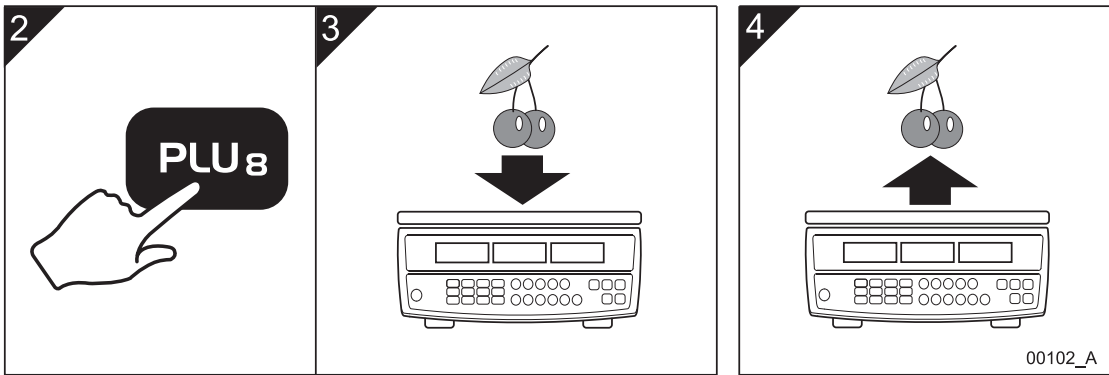
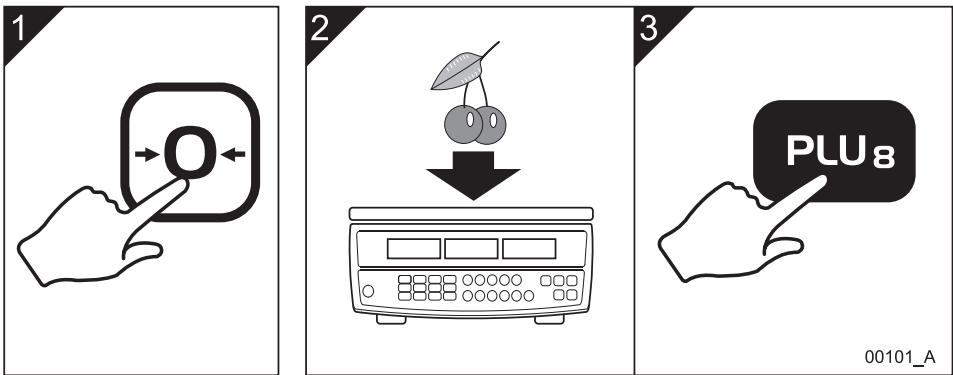




Fig 4-11. Weighing using direct PLUs

4.11 Programming indirect PLUs

 **NOTE:** Indirect PLUs work the same way as direct PLUs except that, to recall an indirect PLU, you press the  key and then manually type the indirect PLU number.

You can enter and store the units of weight (or the price base for UK, Europe and RoW scale variants) together with different unit prices against up to 38 indirect PLU keys that have PLU numbers from 13 to 50 assigned to them. This allows you to recall and use a unit price that you have already stored in the scale's memory. This means you can quickly weigh items that you sell a lot of without the need to type unit prices for particular items each time you weigh them.

To store the units of weight (or the price base) together with a price against an example indirect PLU of number 20 do the steps as follows:

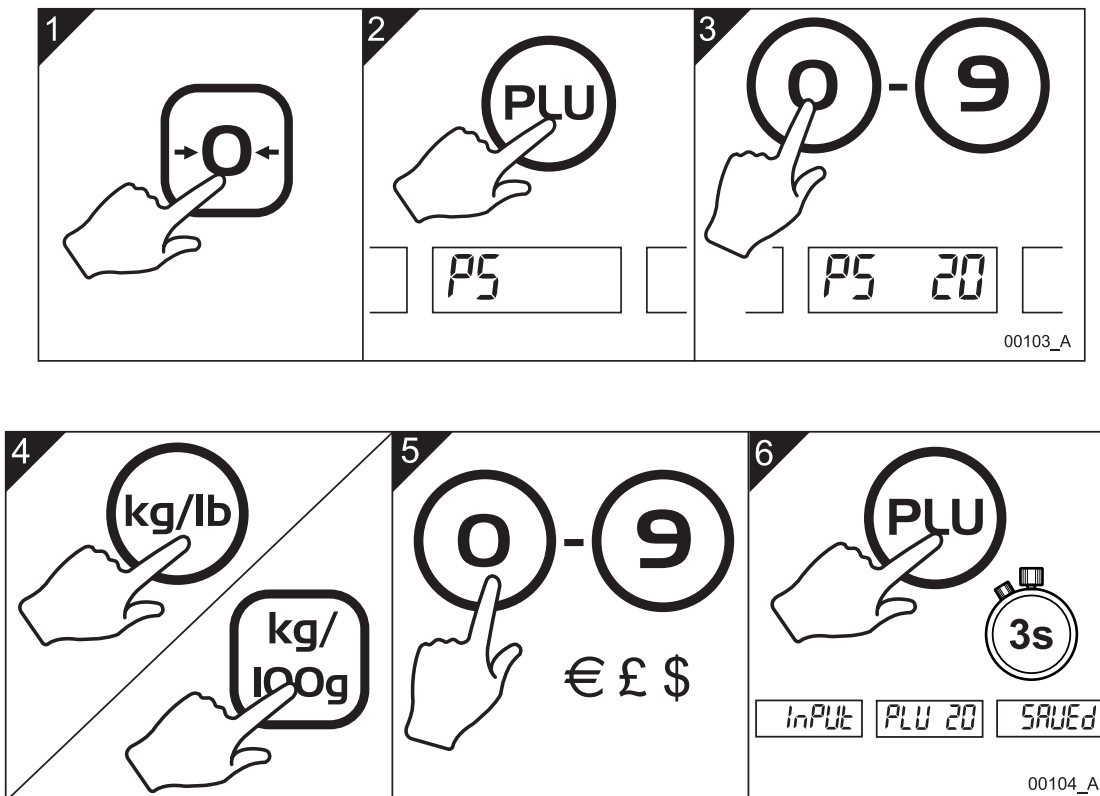


Fig 4-12. Programming indirect PLUs

4.12 Weighing using indirect PLUs

When you have programmed prices against the indirect PLU keys you can weigh items more quickly by recalling the preset price you programmed against an indirect PLU.

To weigh an item using an example indirect PLU of number 20 do the steps as follows:

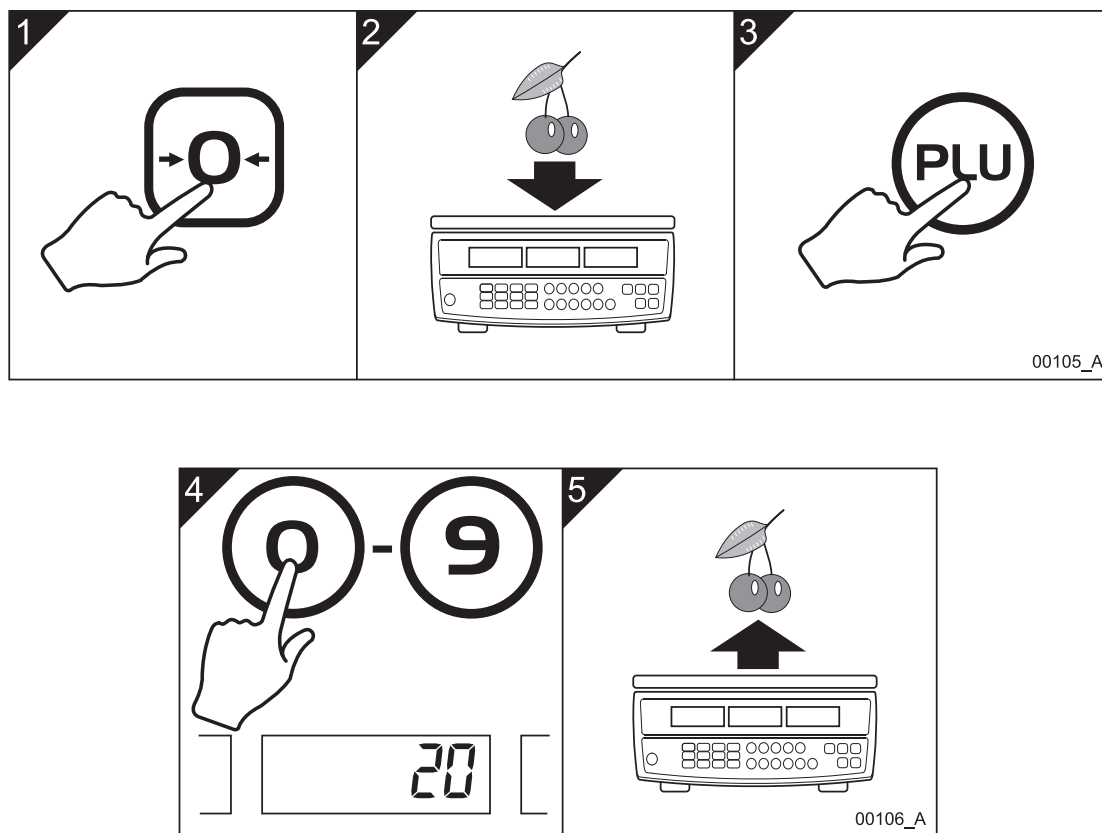


Fig 4-13. Weighing using indirect PLUs

5. Error codes

If persistent error messages appear on the scale's display:

1. Remove the battery to disconnect the scale from the power supply.
2. Reinstall the battery to reconnect the power supply.

Error Code	Problem	Action
Err 4	The initial zero or the zero key is attempting to zero the load that is more than 4% of the scale's maximum capacity.	Remove all weight from the weigh pan then turn on the scale. Press the Zero key to zero the scale. If this does not work the scale needs calibration or service.
Err 5	Keyboard error.	The keyboard has a short circuit so it must be replaced. Please contact your Avery Berkel dealer.
Err 6	A/D converter error.	The scale needs calibration or service. Please contact your Avery Berkel dealer.