

Price Computing Scale

AP-US

(lb version)

OWNER'S MANUAL



9002-AEX-0011-2

99.12



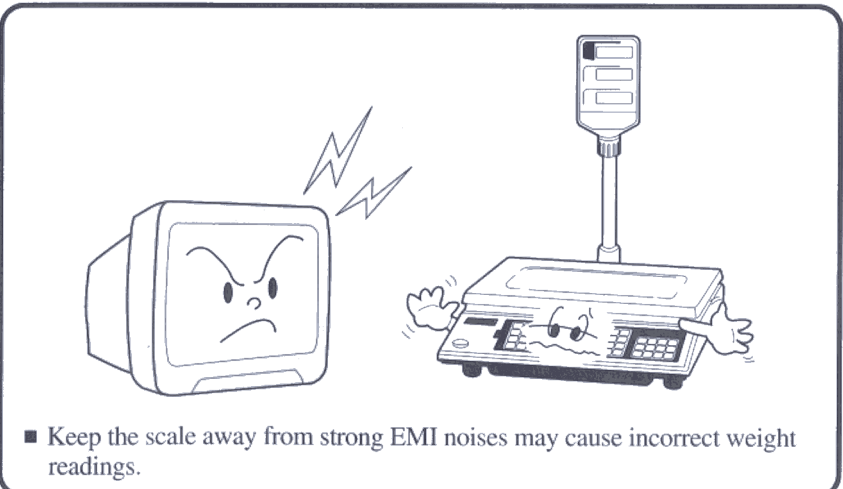
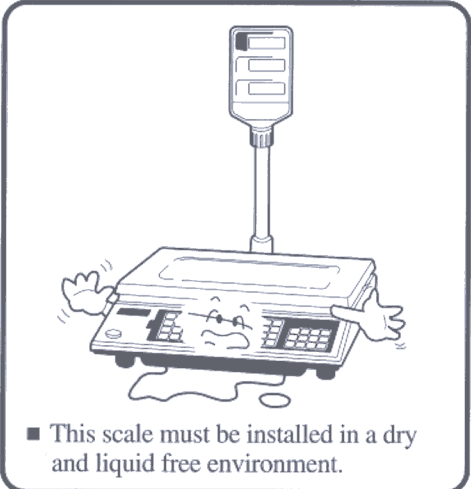
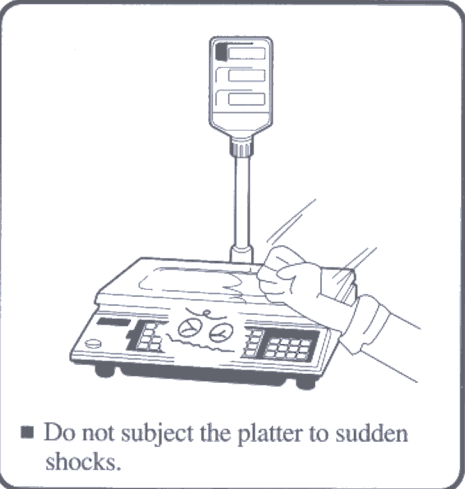
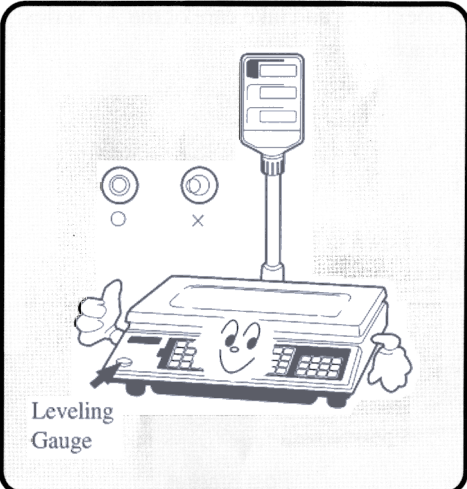
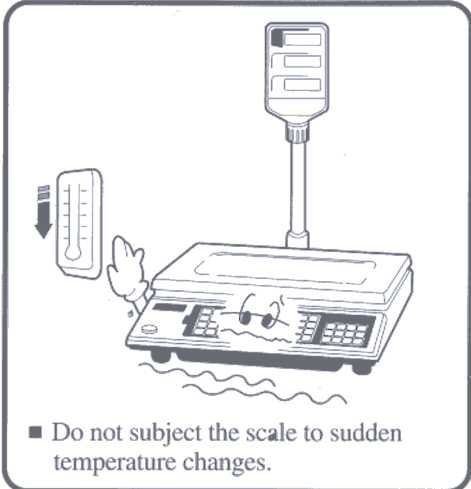
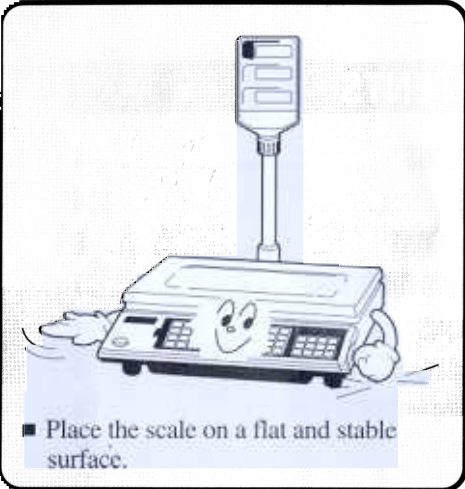
CONTENTS

PRECAUTIONS	4
PREFACE	6
INSTALLATIONS	6
NAMES AND FUNCTIONS	7
OPERATIONS	9
1. General Weighing	9
2. Weighing with Tare	10
3. 1/2 Key	12
4. 1/4 Key	13
5. Prepack	13
6. Taresave	14
7. Add key	14
8. How to Call the Added Total Price	15
9. Saving a PLU to Memory	16
10. How to Call a PLU	18
ERROR MESSAGES	19
SPECIFICATIONS	20

PRECAUTIONS

**Make sure that you plug your scale into the proper power outlet.
Plug into a power outlet 30 minutes before operations.**

The socket-outlet shall be installed near the equipment and shall be easily accessible.

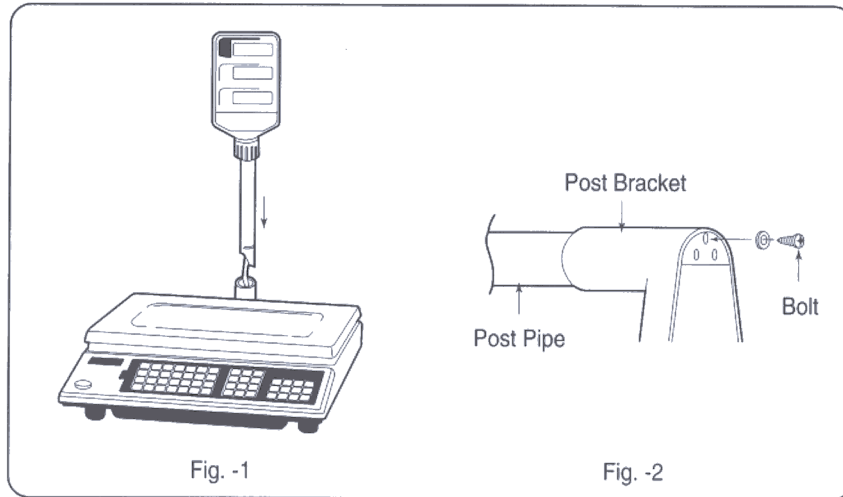


PREFACE

Thank you for the purchasing of our CAS AP Series. These series had been designed with CAS reliability, under rigid quality control and with outstanding performance. Your departments can enjoy with this high quality reliable CAS product. We believe that your needs will be satisfied and you will have proper reliability. This manual will help you with proper operations and take care of the AP series. Please keep it handy for the future references.

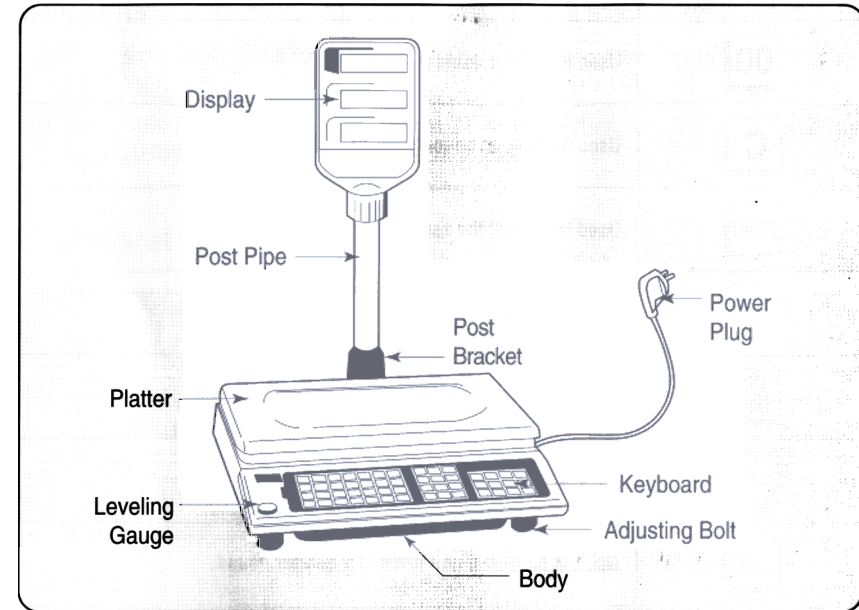
INSTALLATIONS

Insert the post pipe into a post bracket as shown in Fig. -1
Screw the post bracket and the post pipe as shown in Fig. -2

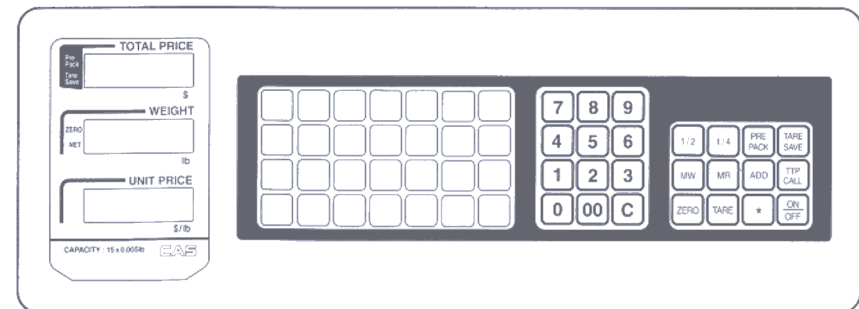


NAMES AND FUNCTIONS

OVERALL VIEW



DISPLAY & KEYBOARD



KEY FUNCTIONS

KEYS	FUNCTIONS
0 ~ 9	Used to enter all the numerical data.
00	Used to enter a double zero.
C	Used to clear erroneous entries and error conditions.
ZERO	Used to correct the zero point.
TARE	Used to enter a tare weight. Used to remove a tare weight.
ON OFF	Turns the displays on or off.
1/2	Used to convert a unit price to a half pound.
1/4	Used to convert a unit price to a quarter pound.
PRE PACK	Used to prevent the auto clearing of unit price.
TARE SAVE	Used to prevent the auto clearing of tare weight.
ADD	Used to add up prices of weighed items.
TTP CALL	Used to recall the total price of add up transactions.
MR	Used to call an indirect PLU(Price Look Up).
MW	Used to store a PLU(Price Look Up) to memory.
*	No function key.

OPERATIONS

- When you turn on the power, the scale will count “00000” to “99999”. Then the scale will read “0.000” in the weight display. This is called the ZERO state.
If the scale is not ZERO state though there is nothing on the platter, press the ZERO key.
- The display indicates if the scale is at ZERO or if there is a TARE entered into the scale by way of a ZERO and NET lamps.

1. General Weighing



① Enter a unit price.

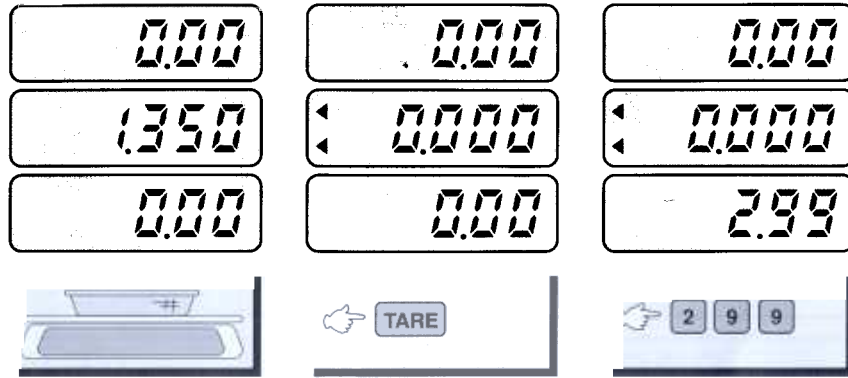
② Place the commodity on the platter.

③ Remove the commodity from the platter.

► NOTE: The unit price is cleared automatically after each transaction.

2. Weighing with Tare

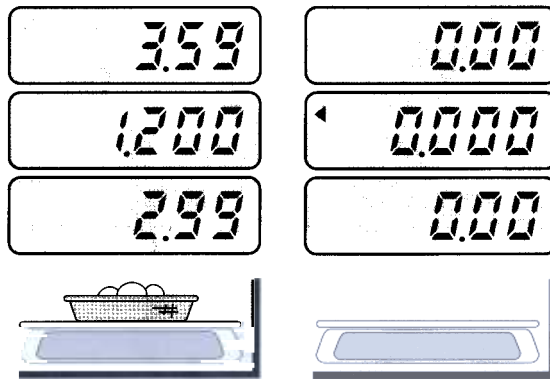
Unknown(weighed) tare



① Place the container on the platter.

② Press the TARE key.

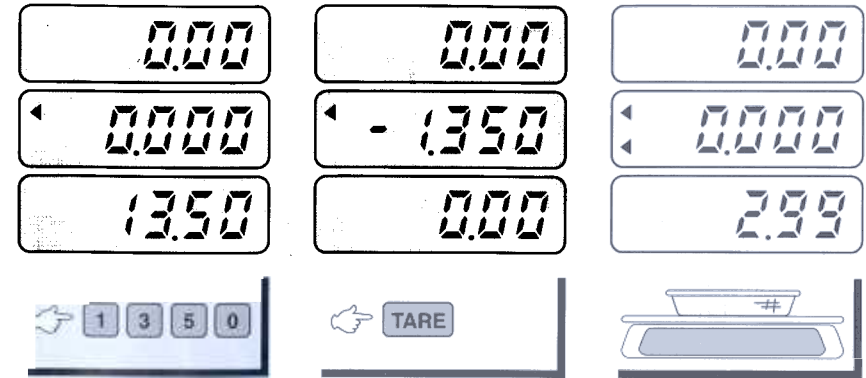
③ Enter a unit price.



④ Place commodity on the platter.

⑤ Remove commodity from the platter.

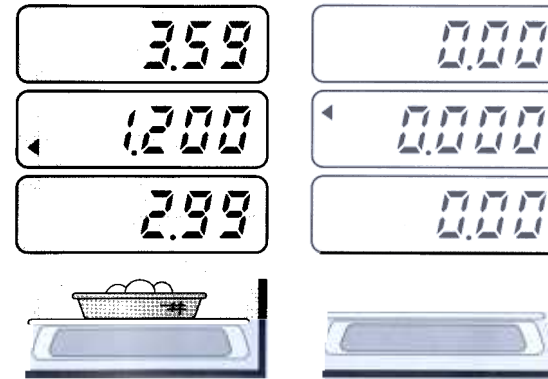
Known(manually entered) tare



① Enter tare weight by pressing the numeric key.

② Press the TARE key.

③ Place the container and enter a unit price.



④ Place commodity on the platter.

⑤ Remove commodity and container from the platter.

► NOTE 1: The tare is cleared automatically after each transaction.

NOTE 2: When you enter the tare weight, do not use the decimal point.

3. 1/2 Key



① Enter a unit price.



② Press 1/2 key. This function doubles the unit price.



③ Place the commodity on the platter.



④ Remove the commodity from the platter.

4. 1/4 Key



① Enter a unit price.



② Press 1/4 key. This function quadruples the unit price.



③ Place the commodity on the platter.



④ Remove the commodity from the platter.

5. Prepack

The PREPACK key is used to prevent the auto clearing of unit price. To use this function, just press the PREPACK key before you call a PLU. While "PRE PACK" is activated, the unit price is fixed unless you press the "C" key. To release this function, press the "PRE PACK" key again.

- The display indicates if the PREPACK is activated by way of a PREPACK lamp.

6. Taresave

The TARESAVE key is used to prevent the auto clearing of tare weight.

To use this function, just press the TARESAVE key.

While “TARE SAVE” is activated, tare values are fixed unless you press the “TARE” key.

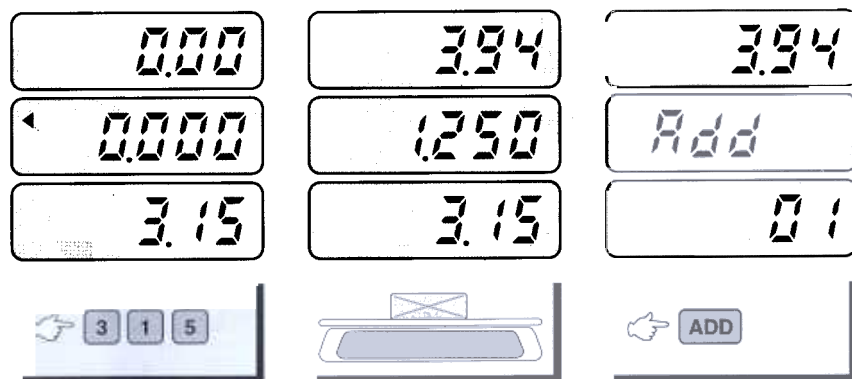
To release this function, press the “TARE SAVE” key again.

- The display indicates if the TARESAVE is activated by way of a TARE lamp.

7. Add key

You can add up 99 items up to \$9999.99, otherwise you will hear a beep.

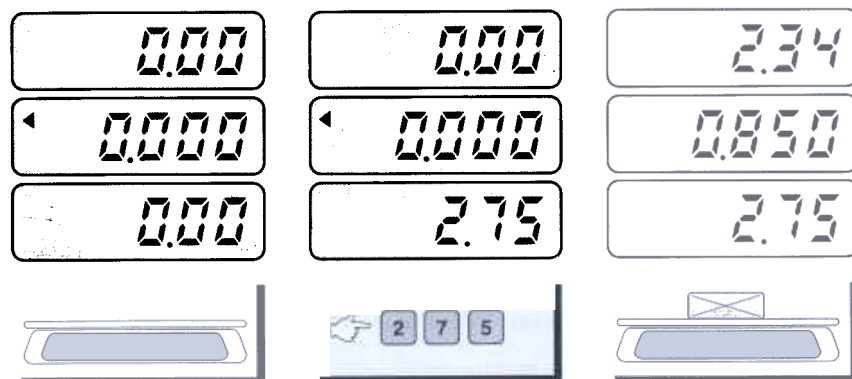
You can see the total price by pressing TTP CALL key.



① Enter a unit price.

② Place the commodity on the platter.

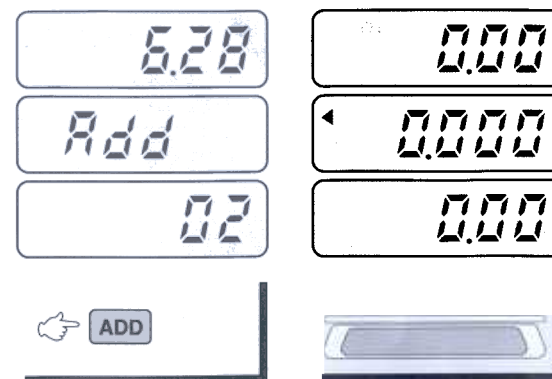
③ Press ADD key.



④ Remove the commodity from the platter.

⑤ Enter the unit price of another commodity.

⑥ Place the commodity on the platter.



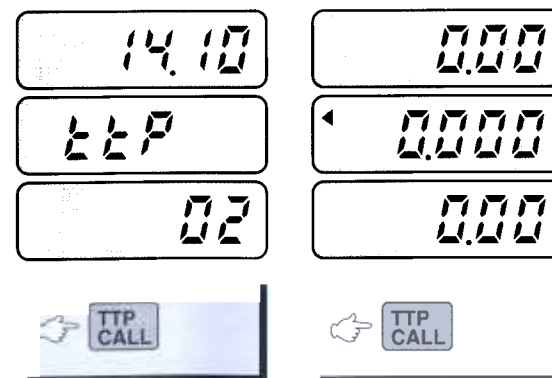
⑦ Press ADD key.

⑧ Remove the commodity from the platter.

8. How to Call the Added Total Price

This function is used in conjunction with the “ADD” key. “TTP CALL” key shows the total price of all the added items.

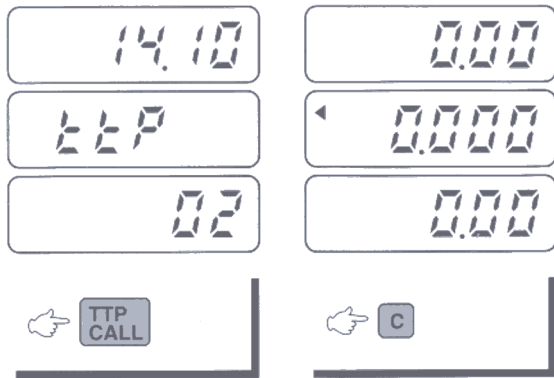
To display the total price of added commodities



① Press TTP CALL key.

② Press TTP CALL key again to return to weighing mode.

To clear the total price of added commodities



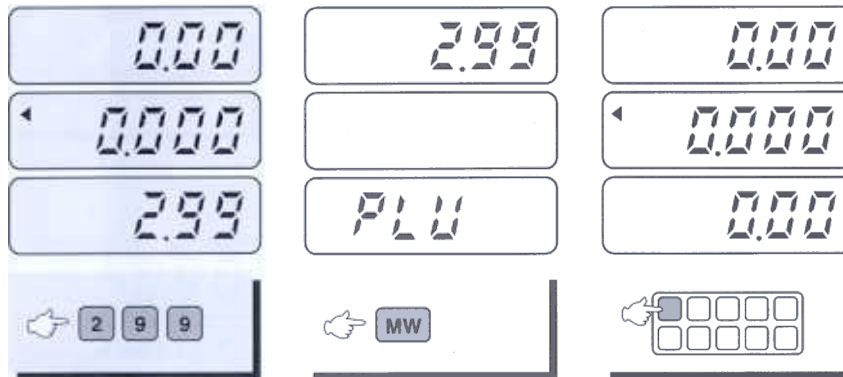
① Press TTP CALL key.

② Press C key to clear total price and return to weighing mode.

9. Saving a PLU to Memory

This scale has 28 direct PLUs and 172 indirect PLUs.

A) For Direct PLUs



① Enter a unit price.

② Press MW key.

③ Press one of the direct PLU keys.

B) For Indirect PLUs



① Enter a unit price.

② Press MW key.

③ Enter a desired address number of the PLU.



④ Press MW key.

► NOTE: The address number of the PLU is limited from 0 to 199

10. How to Call a PLU

Make sure that the platter is empty when you call a PLU.

A) For Direct PLUs

1) Press one of the direct PLU keys.

2) Place the commodity on the platter.

3) Remove the commodity from the platter.

B) For Indirect PLUs

1) Enter the address of an indirect PLU.

2) Press MR key.

3) Place a commodity on the platter.



4) Remove the commodity from the platter.

► NOTE: Do not use the decimal point while recalling PLUs.

ERROR MESSAGES

To help the customer's understanding, this scale warns the user with proper error message. Please refer to the table below.

ERROR	REASONS	SOLUTIONS
Err 1	An error of the initial zero range	1. Make sure the platter is empty. 2. Make sure there is a platter on the scale.
Err 6	An overflow has occurred from the ADD key	Press the C key
Err 8	An overflow has occurred in the transaction counter	Press C key
Err 10	Failure of analog module	Call your CAS dealer
Err 11	Failure of digital module	Call your CAS dealer
Err 12	Condition codes are broken	Call your CAS dealer for span calibration
Err 13	Key codes are broken	Call your CAS dealer for span calibration

SPECIFICATIONS

MODEL	AP-1		
CAPACITY	15 × 0.005 lb	30 × 0.01 lb	60 × 0.02 lb
DISPLAYS:			
WEIGHT	5 DIGITS	5 DIGITS	
UNIT PRICE	6 DIGITS	4 DIGITS	
TOTAL PRICE	6 DIGITS	4 DIGITS	
MAXIMUM TARE	-9.995 lb	-30.00 lb	-60.00 lb
DISPLAY DESIGNATORS	ZERO, NET, PREPACK, TARESAVE		
	-10°C ~ +40°C		
POWER SOURCE	AC 120V / 60Hz		
POWER CONSUMPTION	APPROX. 10W		
PLATTER SIZE (W×D)	340 × 215mm / 13.4 × 8.5inch		
PRODUCT SIZE (W×D×H)	435 × 325 × 495mm / 17.1 × 12.8 × 19.5inch		
PRODUCT WEIGHT	6.5kg		

► Notice: Specifications are subject to change for improvement without notice.

MEMO

Price Computing Scale

AP-US

(lb version)

OWNER'S MANUAL



9002-AEX-0011-4

03.06

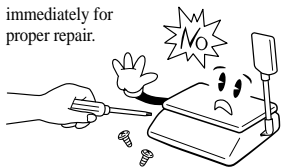
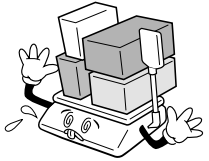
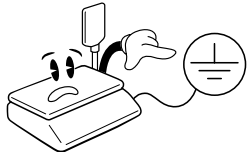

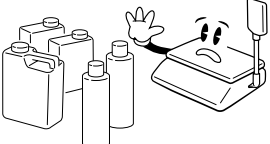
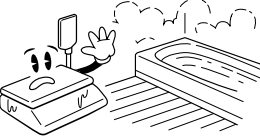
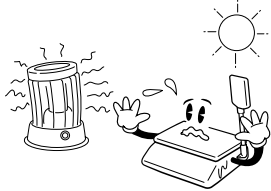
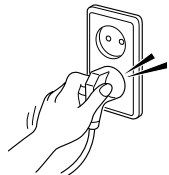


CONTENTS

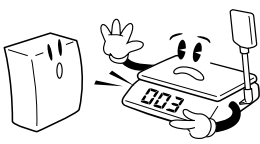
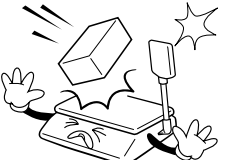

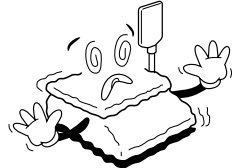


PRECAUTIONS	4
PREFACE	6
INSTALLATIONS	6
NAMES AND FUNCTIONS	7
OPERATIONS	9
1. General Weighing	9
2. Pricing 1/2 Key	9
3. Pricing 1/4 Key	10
4. Weighing with Tare	10
5. Saving a Current Tare Weight and Unit Price	12
6. Saving a Unit PLU to Memory	12
7. How to Call a PLU	14
8. How to Print	15
ERROR MESSAGE	17
SPECIFICATIONS	17

PRECAUTIONS

Precautions when installing the scale. To ensure that you get the most from your scale, please follow these instruction.

⚠ Warning		
<p>Do not disassemble the scale. When any damage or defect occurs, contact your CAS authorized dealer immediately for proper repair.</p> 	<p>Do not overload beyond the maximum weight limit.</p> 	<p>Scale must be grounded to minimize electricity static. This will minimize defect or electric shock.</p> 
<p>Do not pull the plug by its cord when unplugging. Damaged cord could cause electric shock or fire.</p> 	<p>To prevent from fire occurring, Do not place or use the scale near flammable or corrosive gas.</p> 	<p>To reduce electric shock or incorrect reading, Do not spill water on the scale or place it in humid condition.</p> 
<p>Avoid placing the scale near heater or in direct sunlight.</p> 	<p>Insert plug firmly to wall outlet to prevent electric shock.</p> 	

The socket-outlet shall be installed near the equipment and shall be easily accessible.

⚠ Attention		
<p>For consistent and accurate reading, maintain periodical check by your CAS authorized dealer.</p> 	<p>Avoid sudden shock to the scale. Internal mechanism could be damaged.</p> 	<p>Grab on the bottom of the scale when moving. Do not hold by the platter.</p> 
<p>Place the scale on firm and temperature consistent environment.</p> 	<p>By adjusting 4 corners of the scale, set the scale even using the built in scale leveling indicator.</p> 	<p>Keep the scale away from other electromagnetic generating devices. This may interfere with accurate reading.</p> 

PREFACE

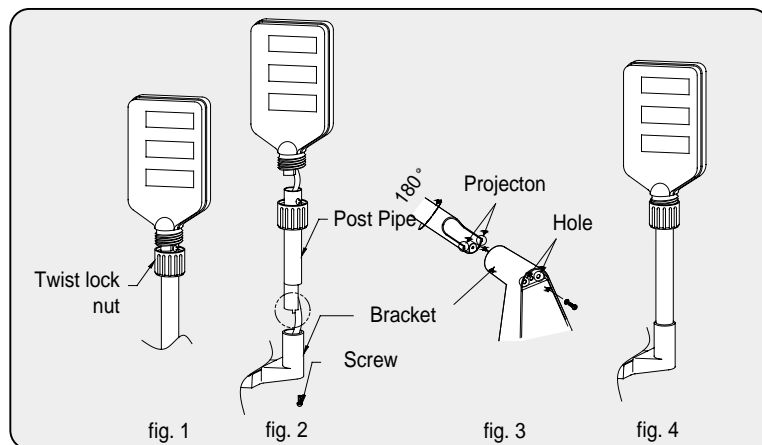
Thank you for the purchasing of our CAS AP Series.

These series have been designed with CAS reliability, under rigid quality control and with outstanding performances. Your speciality departments can enjoy with these high quality reliable CAS products.

We believe that your needs will be satisfied and you will have proper reliability in variable weight.

This manual will help you with proper operations and take care of the AP series. Please keep it handy for the future references.

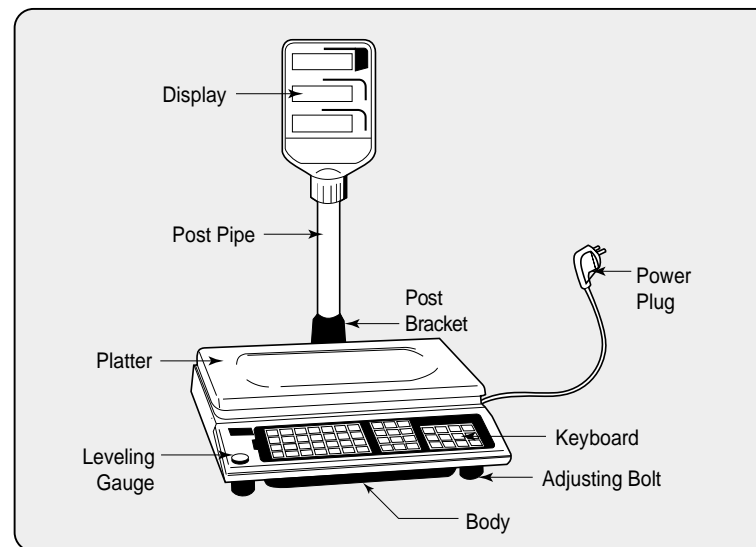
INSTALLATIONS



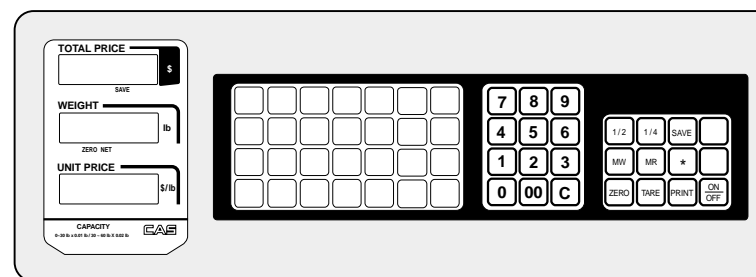
1. Loosen the twist lock nut on the display pole as fig. 1.
2. Pull the harness wire as fig. 2.
3. Turn the post pipe 180° and insert the projections of post pipe into the holes on the bracket as fig. 3
4. Insert and fasten display assembly screws as fig. 1
5. Tighten the twist lock nut on the display pole as fig.4

NAMES AND FUNCTIONS

OVERALL VIEW



DISPLAY & KEYBOARD



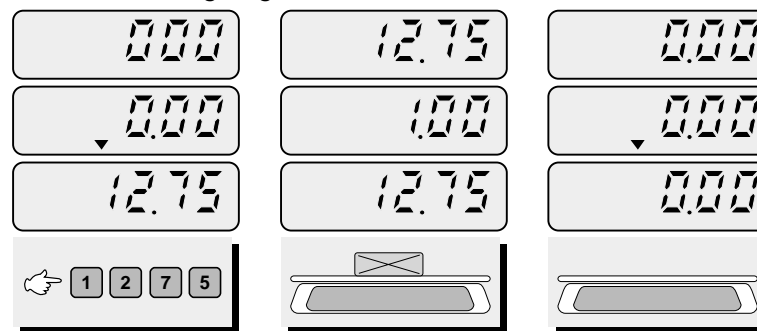
■ KEY FUNCTIONS

KEYS	FUNCTIONS
0 ~ 9	Used to enter all the numerical data.
00	Used to enter a double zeros.
C	Used to clear all the numerics on the unit price display. Used to clear sum total price.
ZERO	Used to correct the zero point.
TARE	Used to enter a tare weight. Used to delete a tare weight.
1/2	This key allows the sale of items by unit price per half pound.
1/4	This key allows the sale of items by unit price per quarter pound.
MW	Used to store PLU(price look up) to memory up to 499 items.
MR	Used to call PLU(price look up) in memory up to 499 items.
SAVE	Used to save a current tare and currently called unit price from automatically.
PRINT	Enable or Disable Auto-printing function.
	Direct PLU keys.

OPERATIONS

- When you turn on the power, the scale will count “99999” to “00000”. Then the scale will read “0.000” in the weight display. This is called the ZERO state.
If the scale is not ZERO state though there is nothing on the platter, press the ZERO key.
- The display indicates if the scale is at ZERO or if there is a TARE entered into the scale by way of a ZERO and NET lamps.

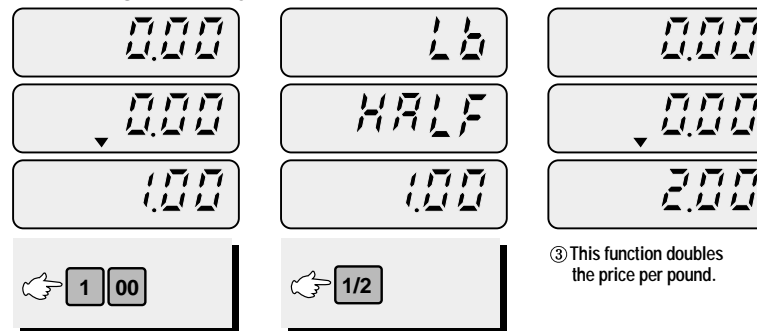
1. General Weighing



- ① Enter a unit price.
- ② Place the commodity on the platter.
- ③ Remove the commodity from the platter.

► NOTE : The unit price is cleared automatically after each weighing

2. Pricing : 1/2 Key



- ① Enter a unit price.
- ② Press the 1/2 key

③ This function doubles the price per pound.

3. Pricing : 1/4 Key

① Enter a unit price.

② Press the 1/4 key

③ This function quadruples the price per pound.

4. WEIGHING WITH THE TARE

A) Unknown (weighed) tare

① Place the container on the platter.

② Press the TARE key.

③ Enter a unit price.

④ Place the commodity on the platter.

⑤ Remove the commodity from the platter.

B) Known (manually entered) tare

① Enter tare weight by pressing the numeric key.

② Press TARE key.

③ Place the container on the platter and enter a unit price.

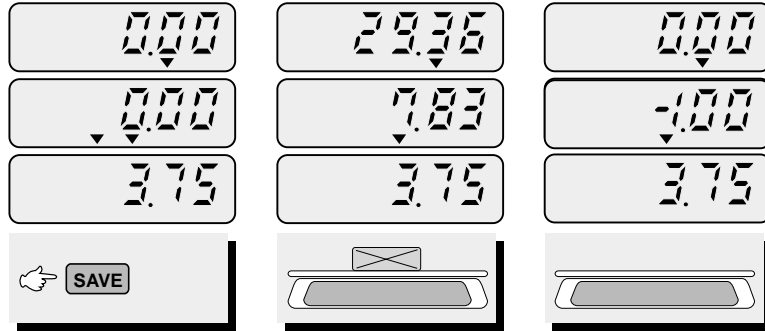
④ Place the commodity in the container.

⑤ Remove commodity with container from the platter. If you want to save tare weight and unit price, press the SAVE key.

► NOTE: The tare is cleared automatically after each transaction.

5. SAVING A CURRENT TARE WEIGHT AND UNIT PRICE

The function saves currently called unit price from automatically clearing.



① Press the SAVE key.
Set the tare weight, 1.00lb,
and enter a unit price.

② Place the commodity on
the platter.

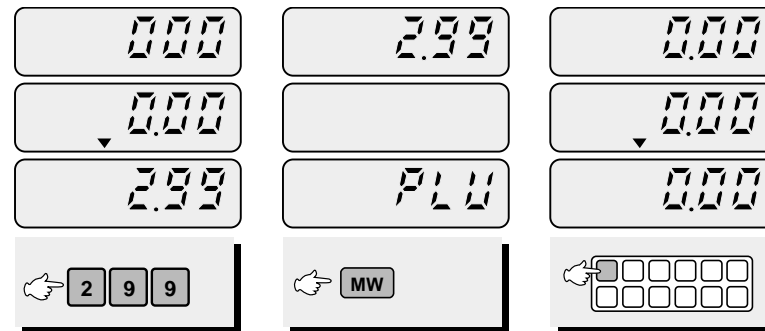
③ Remove the commodity
from the platter.
Then the display still
shows tare weight,
and unit price.

6. SAVING A PLU TO MEMORY

The function saves each PLU into a internal back up memories.
The PLU means Price Look Up which has an unit price.

- AP-EX has 28direct PLUs and 200 indirect PLUs.
- AP-MX has 5direct PLUs and 200 indirect PLUs.
- AP-SM has 7direct PLUs.

A) For Direct PLUs

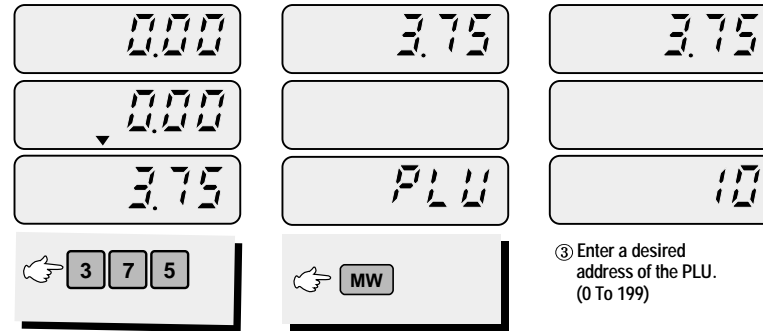


① Enter a unit price.

② Press the MW key.

③ Press one of the PLU keys.

B) For Indirect PLUs



① Enter a unit price.

② Press the MW key.

③ Enter a desired
address of the PLU.
(0 To 199)

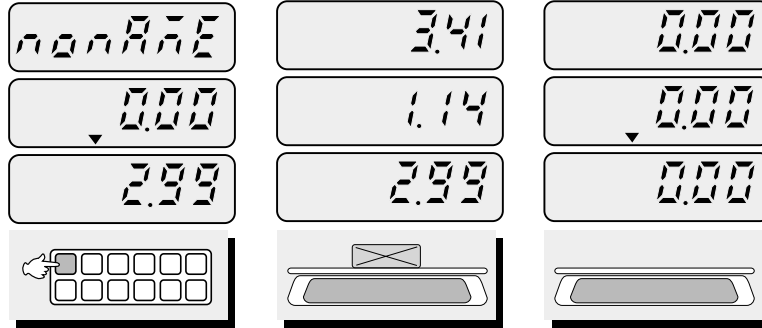


④ Press the MW key.

7. How to Call a PLU

Make sure that the platter is empty before call up a PLU.

A) For Direct PLUs

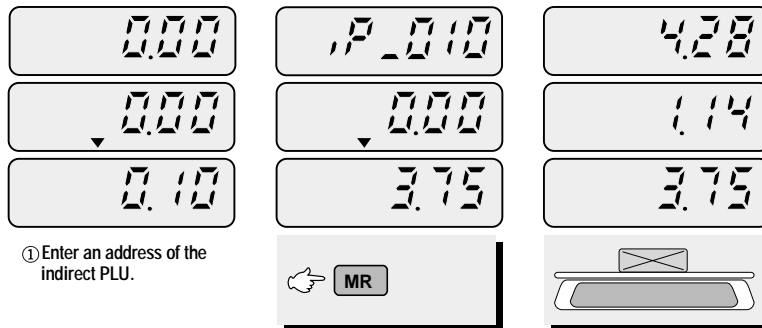


① Press one of the direct PLU keys.

② Place the commodity on the platter.

③ Remove the commodity from the platter.

B) For Indirect PLUs



① Enter an address of the indirect PLU.

② Press the MR key.

③ Place the commodity on the platter.

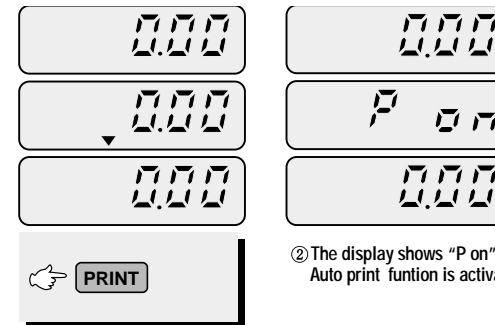


④ Remove the commodity from the platter.

► NOTE : Decimal point of the unit price display has no meaning.

8. How to Print

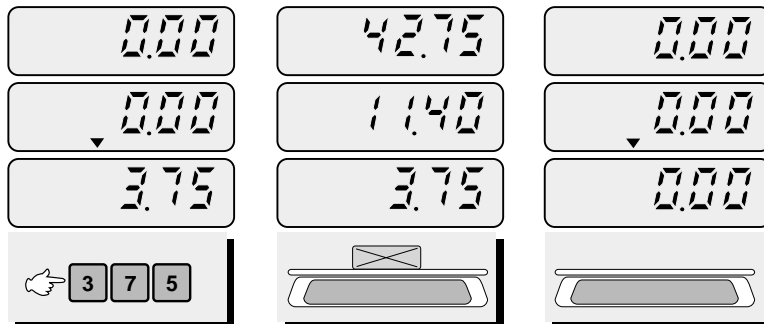
Turn print function on.



① Press the PRINT key.

② The display shows "P on".
Auto print function is activated.

Do general weighing.



① Enter a unit price.

② Place commodity on the platter, and then printing is done automatically

③ Remove the commodity from the platter.

► Example

DATE			

weight	unit price	total	
No_PLU			
11.40 lb	@ \$3.75/lb	\$42.75	
Sum(\$)		\$42.75	

ERROR MESSAGES

To help for the customer's understanding, this scale warns the error message properly. Please refer to error table.

ERROR	MEANINGS	SOLUTIONS
Display HELP 1	An error of the initial zero range	set the platter empty.
Display ERR 10	A failure of the analog module	Call your CAS dealer
Long Beep	key codes are broken	Call your CAS dealer from calibration

SPECIFICATIONS

MODEL	AP-1
CAPACITY	0-30 × 0.01 lb / 30-60 × 0.02 lb
DISPLAYS:WEIGHT UNIT PRICE TOTAL PRICE	5 DIGIT 6 DIGIT 7 DIGIT
DISPLAY DESIGNATORS	ZERO, TARE, SAVE
MAXIMUM TARE	-29.99 lb
OPERATING TEMPERATURE	-10°C ~ +40°C
POWER SOURCE	AC 120V / 60Hz
POWER CONSUMPTION	APPROX. 10W
PLATTER SIZE (W × D)	340(W) × 215(D)
PRODUCT SIZE (W × D × H)	435(W) × 325(D) × 495(H)

► Notice: Specifications are subject to change for improvement without notice.



MEMO

