Adam Equipment

AZ*plus* SERIES

Service Manual

Software rev.: 1.71 & above

ADAM EQUIPMENT CO. LTD.

P.N. 4314, Rev. D2, October 2007

CONTENTS

*****

1.0 INTRODUCTION

The **AZ*plus*** series of digital price-computing scales provide an accurate, fast and versatile method of computing price by weight.

These series of scales are EC approved for the use in UK and Europe.

For all revisions from 1.27 and above, the Price per kilogram and per 100 gram **[Kg 100g]** key can be disabled at the factory for the scales to be used in South Africa and Far East. This is done by linking the jumper at K5 position on the PCB.

1.1 FEATURES:

Stainless steel weighing platform
Level indicator with adjustable levelling feet
Colour coded, sealed, keypad
Large liquid crystal displays (LCD)
Three Displays for **Weight**, **Unit Price** and **Total Price**
Computes Price per 100g and per kilogram (Not applicable for AZ*plus* for South Africa and Far East)
Displays on both front and back panels (Optional user display on pillar)
Battery operated for portability
70+ hours battery life when fully charged
43 Prices (PLU) stored for easy access

1.2 SPECIFICATIONS

	AZ*plus* 6	**AZ*plus* 15**	**AZ*plus* 30**
Capacity, Max=	6 kg	15 kg	30 kg
Resolution d=e=	2 g	5 g	10 g
Tare, T=	-6kg	-15kg	-30kg
Working Temperature	-10ºC to 40ºC		
Platform	225 x 275mm / 8.9” x 10.8”		
Overall	315 x 355 x 110mm / 12.4” x 14” x 4.3”		
Battery Life	70+ hours typical*		
Power	M power supply to an internal transformer		
Net Weight	4.3 kg / 9.5 lb		

*Battery Life is less when the backlight is used.

2.0 TROUBLESHOOTING

1.	Unit does not turn on	Check whether the scale is plugged into the power supply properly. Check the operation of the charging circuit. Check whether the battery is charged- LED should turn to green from red. Check the adapter output. .
2.	The scale weighs but is unstable	Air drafts or vibration or unstable table. Pan rubbing against case or not installed correctly. Scale not installed properly. Improper connections on ADC circuit.
3.	Scale shows wrong weight	Scale not installed correctly. Check the Calibration. To check whether a part of product weighed is trapped between the pan and the scale. Incorrect adjustment of the mechanical stops.
4.	An error “E4” displays on the screen	Load cell damage. Scale not installed properly. Incorrect adjustment of the mechanical stops. Factory calibration has been tampered with- check the ADC counts and re-calibrate.
5.	An error “E9” displays on the screen	The scale is not stable to set the initial zero.

3.0 INSTALLATION

3.1 GENERAL INSTALLATION

The scales should not be placed in a location that will reduce the accuracy.

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

Avoid unsuitable tables. The table or floor must be rigid and not vibrate.

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

Do not place near vibrating machinery.

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

Avoid air movement such as from fans or opening doors. Do not place near open windows or air-conditioning vents.

Keep the scales clean. Do not stack material on the scales when they are not in use.

3.2 PREPARATION FOR USE

The scales come with a stainless steel platform, packed separately.

Place the platform in the receptacles on the top cover.

Do not press with excessive force as that could damage the load cell inside.

If an optional scoop has been supplied, place it on top of the platform.

If an optional display on Pillar is supplied, install the pillar in the upright position into the socket at the rear of the scale by carefully pushing the cable inside the pillar rod. Secure the pillar rod to the socket by using two M4 screws. A black plastic cap is provided to seal

the socket from the bottom to avoid damaging of the cable.

Level the scale by adjusting the four feet. The scale should be adjusted such that the bubble in the spirit level is in the centre of the level and the scale is supported by all four feet.

Turn the power ON using the switch located on the right side of the base.

The unit will display the software revision number in the **Weight** window and count down to zero while performing a self-test.

When ready all three displays will show zero.

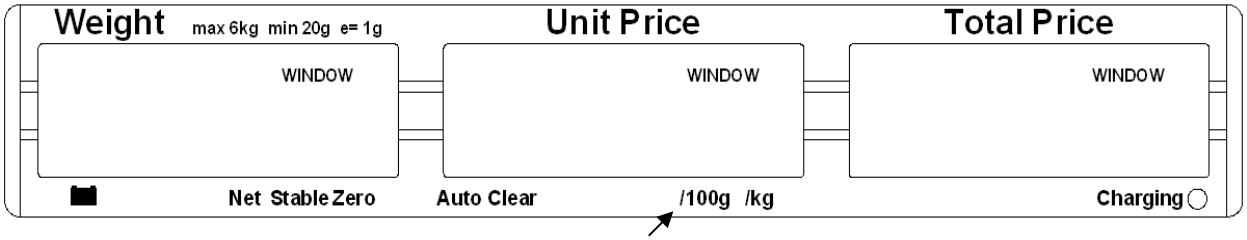
Level the scale by adjusting the four feet. The scale should be adjusted such that the bubble in the spirit level is in the centre of the level and the scale is supported by all four feet.

Turn the power ON using the switch located on the right side of the base.

The unit will count down while performing a self-test.

When ready the displays will show zero.

3.3 DISPLAY WINDOWS



Not applicable for South Africa and Far East

The window for the **Weight** has arrows to indicate when the scale is at zero or if the scale is displaying a net weight (if a tare value has been entered). It also indicates when the scale is stable.

The window for the **Unit Price** has arrows to show when the Auto Clear function is active and whether it displays the price per 100g or per kilogram.

NOTE: For AZ*plus* for South Africa and Far East, unit weight per 100g or per kg is not available.

The window for the **Total Price** displays the price of the items on the scale. Below this window is a LED to show the state of the battery charger.

The above display panel is also available with French, German, Spanish, Dutch and Italian text or with symbols for Weight, Unit Price and Total Price.

3.4 BATTERY CHARGING

The scale has an internal rechargeable lead acid battery. This battery will make the scale operate for more than 70 hours when fully charged or less if the backlight is on.

When the battery needs charging the arrow above the low battery symbol  under the **Weight** display will be on. The battery should be charged immediately. The scale will still operate for about 10 hours after which it will automatically switch off to protect the battery from getting damaged.

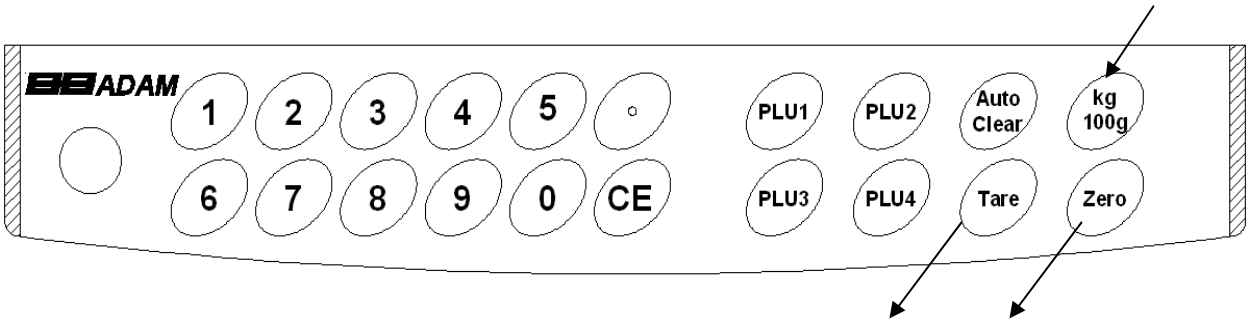
To charge the battery, simply switch the main power ON. The scale does not need to be turned on.

The battery should be charged for 12 hours for full capacity.

Just under the **Total Price** display is an LED to indicate the status of battery charging. When the scale is plugged into the main power, the internal battery will be charged. If the LED is green the battery is fully charged. If it is red the battery is nearly discharged and yellow indicates the battery should be charged longer, preferably overnight.

3.5 KEY DESCRIPTIONS

Not applicable for South Africa and Far East



Note: The AZplus scales sold in Europe have a slightly different keypad. For Tare and Zero, the text keys are replaced by the symbol keys.

[., 0-9] keys
Numeric entry keys to set the unit price. Pressing **[.]** will display the price with “00” added after the digit.

[CE] key
Used to clear an erroneous entry or return to normal operation.

[PLU1] to **[PLU4]**
Used to store or recall one of the PLU values. **[PLU1]** to **[PLU3]** are immediately used, [PLU4] will also select one of the 39 additional values.

[Tare] key
It tares the scale to display zero weight when an empty container is placed on the platform or removed again.

[Zero] key
It sets the zero of the scale when the platform is empty and no tare value is entered.

[Auto Clear]
It enables the user to automatically reset the unit price to zero, when the weight is removed.

[Kg 100g]
It selects the unit price per 100g or per kilogram.

NOTE: For AZ*plus* for South Africa and Far East, this selection of unit price per 100g or per kilogram is not applicable.

4.0 OPERATION

4.1 ZEROING THE DISPLAY

You can press the **[Zero]** key when no tare is entered to set the zero point from which all other weighing is measured. This will usually be necessary when the platform is empty.

When the zero point is obtained the **Weight** display will show an arrow next to the Zero legend marked under the **Weight** display.

The scale has an automatic re-zeroing function to account for minor drifting or accumulation of material on the platform. However you may need to press the **[Zero]** key to re-zero the scale if small amounts of weight are shown when the platform is empty.

4.2 TARING

Taring is used to eliminate the weight of a container so that only the net weight is displayed.

Zero the scale by pressing **[Zero]** if necessary. The zero indicator will be on.

Place an empty container on the platform. It's weight will be displayed.

Press **[Tare]** to zero the scale. The weight that was displayed is stored as the tare value and that value is subtracted from the display, leaving zero on the display. The **Net** indicator will be on. As product is added only the weight of the product will be shown.

When the product and container are removed the weight display will show a negative value. If a different container is to be used, remove this negative tare value by pressing the **[Tare]** once more.

4.3 DETERMINING VALUE OF PRODUCT BY WEIGHT

To determine the value of a product sold by weight it is necessary to enter the cost per kilogram using the numeric keys or one of the preset PLU values.

The **Weight** display will show the net weight, the **Unit Price** display will show the price per kilogram or per 100g as selected by the **[kg 100g]** key. The **Total Price** display will show the computed value for the total price.

Example:

	Display will show		
	Weight in kg.	**Unit Price**	**Total Price**
Place a container on the scale and Press **[Tare]**	0.000	0.00	0.00
Place the items on the platform	1.300	0.00	0.00
Key in the unit price	1.300	5.00	6.50

Press the **[kg 100g]** key to change the calculation to a price based on the cost per 100g or the cost per kilogram.

If a different unit price is required either press **[CE]** to reset the unit price to 0.00 or simply enter a new unit price.

(Note: Not applicable for AZ*plus* for South Africa and far East).

Note: For all revisions from 1.27 and above, the Price per kilogram and per 100 gram [Kg 100g] key can be disabled at the factory for the scales to be used in South Africa and Far East. This is done by linking the jumper at K5 position on the PCB.

4.4 USING A STORED PLU VALUE FOR UNIT PRICE

The user can store and recall up to 43 PLU values (Product Look Up).

The values stored are used to calculate the price for goods.

The value is stored as either cost per kilogram or cost per 100g.

The keys labelled **[PLU1]** to **[PLU3]** are used to immediately recall the most used PLU values and the **[PLU4]** key is used to access up to 40 other values. To recall one of these values the following procedure applies.

1. To recall PLU number 1, simply press **[PLU1]**.
2. The same applies to PLU number 2 and 3.
3. To recall one of the other PLU values press **[PLU4]**. The display will show "**LOAd**" "**POS 00**" " ". If a number (01 to 39) is entered immediately, then the value saved against that PLU number will be recalled. If nothing is entered after a few seconds, the value saved for PLU 4 will be recalled.

For example:

Press **[PLU4].**
Press **[1]** and then **[4]** immediately.
Display will show "**LOAd**" "**POS 14**" " " and the Unit Weight value for PLU 14 will be displayed.

OR

Press **[PLU4].**
Wait for few seconds.
Display will show "**LOAd**" "**POS 00**" " " and the Unit Weight value for PLU 4 will be displayed.

4.5 ENTERING VALUES FOR THE PLU s

To store values into the memory for the PLU s follow the procedure.

Entering values for PLU1 to PLU3 keys

Enter the unit price value using the keypad, selecting either price/kg or price/100g if needed.

Press and hold down the key **[PLU1], [PLU2]** or **[PLU3]** for more than 3 seconds. The scale displays "**PLU**" " **1**" "**SAVEd**"

Entering values for the [PLU4] key

Enter the unit price value using the keypad, selecting either price/kg or price/100g if needed.

Press and hold down the key **[PLU4]** for more than 3 seconds.

The scale will show "**SAVE**" "**POS 00**" " "

If no number is entered for 00 within a few seconds, the unit price entered will be saved for position 4 which can be recalled in future by using the **[PLU4]** key. The display will show "**PLU**" " **4**" "**SAVEd**" and the scale will return to weighing.

OR

Enter any number (up to 39) for saving the unit price in the desired position. For example, press **[1]** and **[4] f**or the position 14. It will show "**SAVE**" "**POS 14**" " " and then "**PLU**" "**SAVEd**" " " before returning to weighing.

To change the earlier saved value against a particular PLU, simply repeat the process.

4.6 AUTO CLEAR KEY

The **[Auto Clear]** key will enable the Auto Clear function.

When this function is active the scale will automatically clear (set to zero) the unit price when the last item to be weighed has been removed from the scale.

When the Auto Clear is active the Auto Clear indicator (arrow) on the LCD will be ON.

Pressing the **[Auto Clear]** key will turn off the function and the indicator will disappear. Pressing it will turn the function on again.

4.7 Kg/100g KEY, PRICE PER KILOGRAM, PRICE PER 100g

The **[kg 100g]** key will change the scale from using a price per kilogram to price per 100g.

It will also change the arrows under the **Unit Price** display to show the selection.

This information is also saved for the PLU values that are stored in the memory.

NOTE:
This is not applicable for AZ*plus* for South Africa and Far East.
The current software revision number is 1.61. For all revisions from 1.27 and above, the Price per kilogram and per 100 gram key can be disabled at the factory for the scales to be used in South Africa and Far East. This is done by linking the jumper at K5 position on the PCB.

4.8 AUTO SLEEP FUNCTION

This function may be enabled or disabled by the user. If enabled, when the scale is not used for some time (as pre-set by the user under this function) it automatically switches off. To set this parameter,

- During self-checking, press **[kg 100g]** and release at once. The display shows "**SLEEP nodE**".
- Press **[PLU4]** key to scroll through the auto sleep values.
  "**0**" Auto sleep mode disabled
  "**1**" Auto sleep after 1 minute
  "**5**" Auto sleep after 5 minutes
  "**30**" Auto sleep after 30 minutes

- Press **[Tare]** to set the value. The scale returns to zero.

NOTE: For AZ*plus* for South Africa and Far East, press the **[Zero]** key to enter Auto Sleep function.

4.9 BACKLIGHT OPERATION

The backlight may be enabled or disabled by the user. If the backlight is disabled battery life will be maximised.

With the backlight in operation the battery life will be less, depending upon the extent at which the scale has been used.

To enable the backlight

Press and hold the **[Auto Clear]** key for 4 seconds.

Press the **[PLU4]** key to change the operation:

"EL" " AU"	Automatic control of the backlight
"EL" " on"	Backlight on full time
"EL" " oFF"	Backlight turned off.

Press **[Tare]** to store the setting.

To disable the backlight

Press the **[Zero]** key.

Then quickly press **[5]** while the weight display shows dashes.

Backlight operation

When the backlight is set to automatic control, it will only turn on when the scale is being used.

It will be on when a weight is on the platform or when a key is pressed.

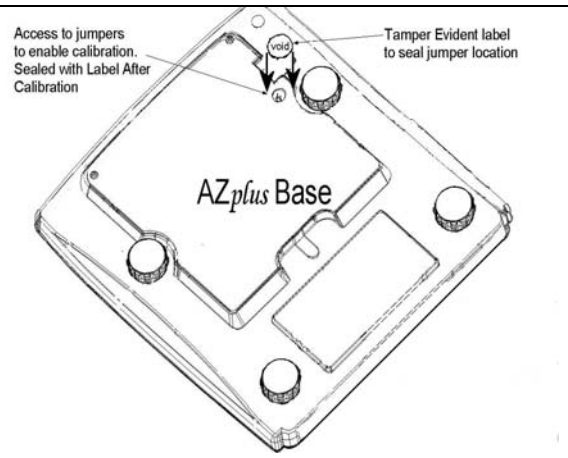
It will turn off automatically after a few seconds when the weight is zero or after a while the last key was pressed.

5.0 CALIBRATION

5.1 CALIBRATION PROCEDURE

The scales are sealed to prevent unauthorised calibration.

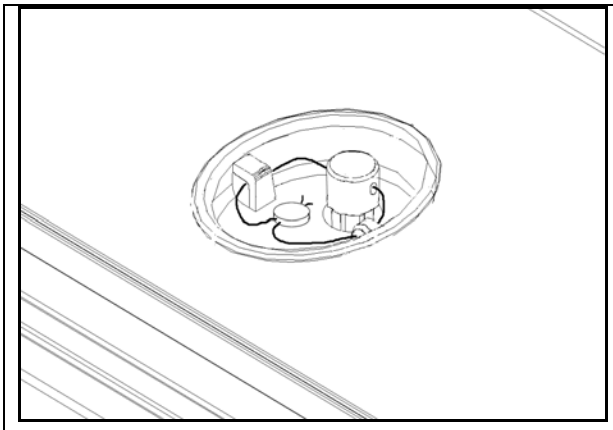
Contact Adam Equipment or your supplier for more details.



The calibration of the AZ*plus* scale is accomplished by removing the label at the base of the scale which covers a hole through which the PCB can be accessed. If your scale is not provided with this hole, you need to break the security seals and remove the top cover to gain access to the circuit boards inside. See the figure on the security seal below.

WARNING: CALIBRATION OF THE SCALES MAY MAKE IT ILLEGAL TO USE THE SCALES FOR SALES OF GOODS. CONTACT YOUR TRADING STANDARDS OFFICE FOR FURTHER ASSISTANCE.

5.2 SECURITY SEALS



To seal the scale a lead-wire seal can be used as shown below. The base has a metal pin that protrudes through the cover. The security seal may be threaded through this metal pin, making it impossible to remove the cover without damaging either the security seal or the enclosure.

Metrology labels and additional security measures may be added to the scale as required by the national legislation.

5.3 CALIBRATION PROCEDURE

The scales are sealed to prevent unauthorised calibration.

To calibrate the scales, access to the PCB inside is needed to place a jumper in K6 position. This is done by removing the tamper-proof label placed on a hole at the bottom of the scale. Through the hole, pick up the jumper (the jumper will be there placed on one of the pins on the PCB) and place it in the desired K6 position. If the hole is not provided in your scale, the security seal has to be broken to remove the top cover and gain access to the main PCB. Replace the cover and install the screws before starting the calibration.

6.0 SERVICE PARAMETERS

6.1 USING "0000" TO ENTER THE CALIBRATION PARAMETER

After the jumper has been placed in position K6, apply power to the scale.

During the self-test press the **[Tare]** key.

The display will ask for a code number, "**Pn - - - -**" on the Weight Display.

To carry out the Calibration, enter the number "**0000**" then press **[Tare].** The display will show "**F1**" will be enabled.

The display will show "**UnloAd**" asking you to remove any weight from the scale,

The display will tell you to add weight to the scale by showing "**LoAd**" " **15**" "**kilo**"

Add the weight shown, wait for stability then press the **[Tare]** key.

The display will show "**SPAn**" "**PASS**" if the calibration is OK. Or it will show "**SPAN**" "**FAIL**" if calibration could not be completed correctly.

The scale will return to the parameter menu.

6.2 USING “2003” TO ENTER THE SERVICE PARAMETERS

After the jumper has been placed in position K6, apply power to the scale.

During the self-test press the **[Tare]** key.

The display will ask for a code number, “**Pn - - - -**“ on the Weight Display.

Enter the number 2003 when “**Pn - - - -**“ is displayed and then press **[Tare].**

The displays will show the first parameters, called “**F1**”. To select another parameter press the **[PLU4]** key to advance through the parameters.

Press the **[Tare]** key to enter a parameter.

To exit a parameter press the **[Zero]** key.

The Weight Display window will show the word “**CAL**” and the Unit Price window will show the parameter number.

When a parameter is entered by pressing the **[Tare]** key, the displays will guide you through the parameter selected and the options available.

The parameters available are:

F1	CAL	To enter the Calibration
F2	RES	Resolution selection
F3	CAPA	Select capacity
F4	0.00 Point	Weight decimal point location
F5	Point 0.00 0.00	Unit Price/Price decimal point
F6	Init ZEro	Initial Zero Range
F7	rE ZEro	Re-Zero range
F8	SCSivE tArE	Successive Tare Enable
F9	A/D counts	Display the A/D counts
F10	roUnd	Rounding off the Total Price

6.2.1 F1 -CALIBRATION

To enter the calibration parameter, press the **[Tare]** key when "**F1**" is displayed.

The display will instruct you to remove any weight from the scale, "**UnloAd**"

The display will tell you to add weight to the scale: "**LoAd**" " **15**" "**kilo**"

Add the weight shown, wait for stability then press the **[Tare]** key.

The display will show "**SPAn**" "**PASS**" if the calibration is OK. Or it will show "**SPAn**" "**FAIL**" if calibration could not be completed correctly.

The scale will return to the parameter menu.

6.2.2 F2 -RESOLUTION

To enter this parameter, press the **[Tare]** key when "**F2**" is shown.

The display will show the current resolution, either 3000 or 6000 or Dual Range.

Press the **[PLU4]** key to change the value.

Press **[Tare]** to accept the displayed value.

NOTE: Only 3000 is allowed for the AZ*plus* scales.

6.2.3 F3 -CAPACITY

To enter this parameter, press the **[Tare]** key when "**F3**" is shown.

The display will show the current capacity in 6, 15 or 30 kilograms.

Press the **[PLU4]** key to change the value.

Press **[Tare]** to accept the displayed value.

NOTE: The scale must be originally built for the capacity selected. The 6 kg unit uses 10kg load cells, the 15 kilogram unit uses 20 kilogram load cells and the 30 kilogram unit uses 35 kilogram load cells.

6.2.4 F4 WEIGHT DECIMAL POINT POSITION

To enter this parameter, press the **[Tare]** key when "**F4**" is shown.

The display will show the current decimal point location in the **Weight** window.

Press the **[PLU4]** key to change the value and press **[Tare]** to accept the value.

NOTE: Only certain positions are allowed for the AZ*plus* scales.

6.2.5 F5 -UNIT PRICE/TOTAL PRICE DECIMAL POINT LOCATION

To enter this parameter, press the **[Tare]** key when "**F5**" is shown.

The display will show the current decimal point location in the Unit Price and the Total Price windows.

Press the **[PLU4]** key to change the value.

Press **[Tare]** to accept the displayed value.

NOTE: The units must match the currency used in the country. Normally 0.00 is shown.

6.2.6 F6 -INITIAL ZERO RANGE

To enter this parameter, press the **[Tare]** key when "**F6**" is shown.

The display will show the current initial zero range.

Press the **[PLU4]** key to change the value and press **[Tare]** to accept the value.

NOTE: Only 10% is allowed for the AZ*plus* scales.

6.2.7 F7 -RE-ZERO RANGE

To enter this parameter, press the **[Tare]** key when "**F7**" is shown.

The display will show the current re-zero range.

Press the **[PLU4]** key to change the value and press **[Tare]** to accept the value.

NOTE: Only 2% is allowed for the AZ*plus* scales.

6.2.8 F8 -SUCCESSIVE TARE

To enter this parameter, press the **[Tare]** key when "**F8**" is shown.

The display will show if the successive tare is on or off.

Press the **[PLU4]** key to change the value.

Press **[Tare]** to accept the displayed value.

NOTE: Either option is allowed for the AZ*plus* scales.

6.2.9 F9 -A/D COUNT

To enter this parameter, press the **[Tare]** key when "**F9**" is shown.

This parameter allows you to view the A/D counts from the internal A/D converter. This can be an aid to service.

Press the **[Tare]** key to return to the PARAMETER menu.

Press the **[Zero]** key to return to weighing.

Ranges allotted at zero is 30,000-90,000 (approx.)
Ranges allotted at full capacity is 400,000 (approx.)

NOTE: To secure the scale after calibration, it is necessary to remove the jumper placed at position K6 and re-seal the scale.

6.2.10 F10 –ROUNDING OFF THE TOTAL PRICE

This parameter allows you to set the value to 1 or 5 for rounding off the least significant digit of the Total Price. For example, if the value is set to 1, the Total Price will remain as 12.47 for the original value of 12.47 and if it is set to 5, the Total Price will be rounded off to 12.45 instead of 12.47.

To enter this parameter, press the **[Tare]** key when "**F10**" is shown.

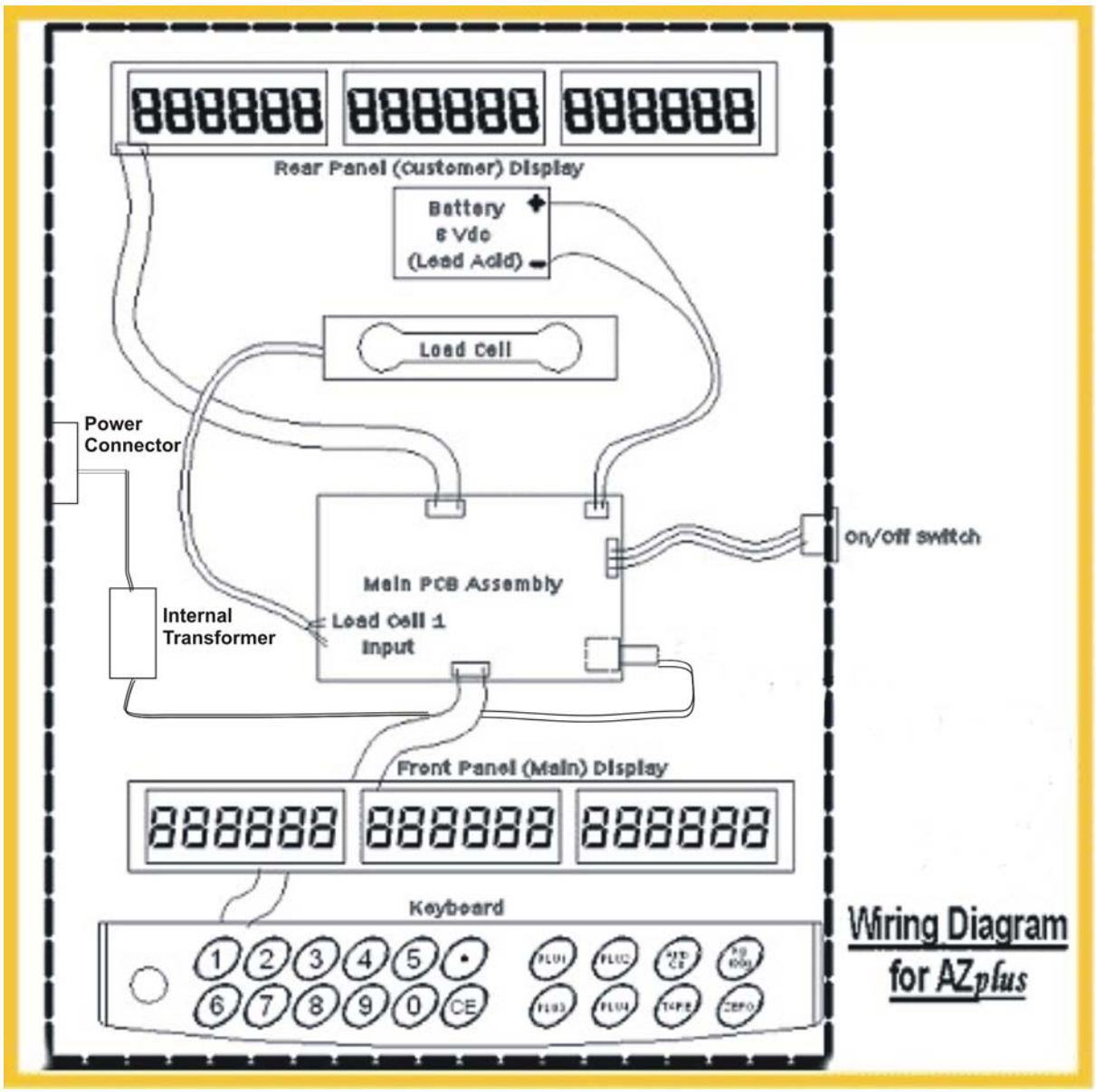
The display will show the current settings.

Press the **[PLU4]** key to change the value and press **[Tare]** to accept the value.

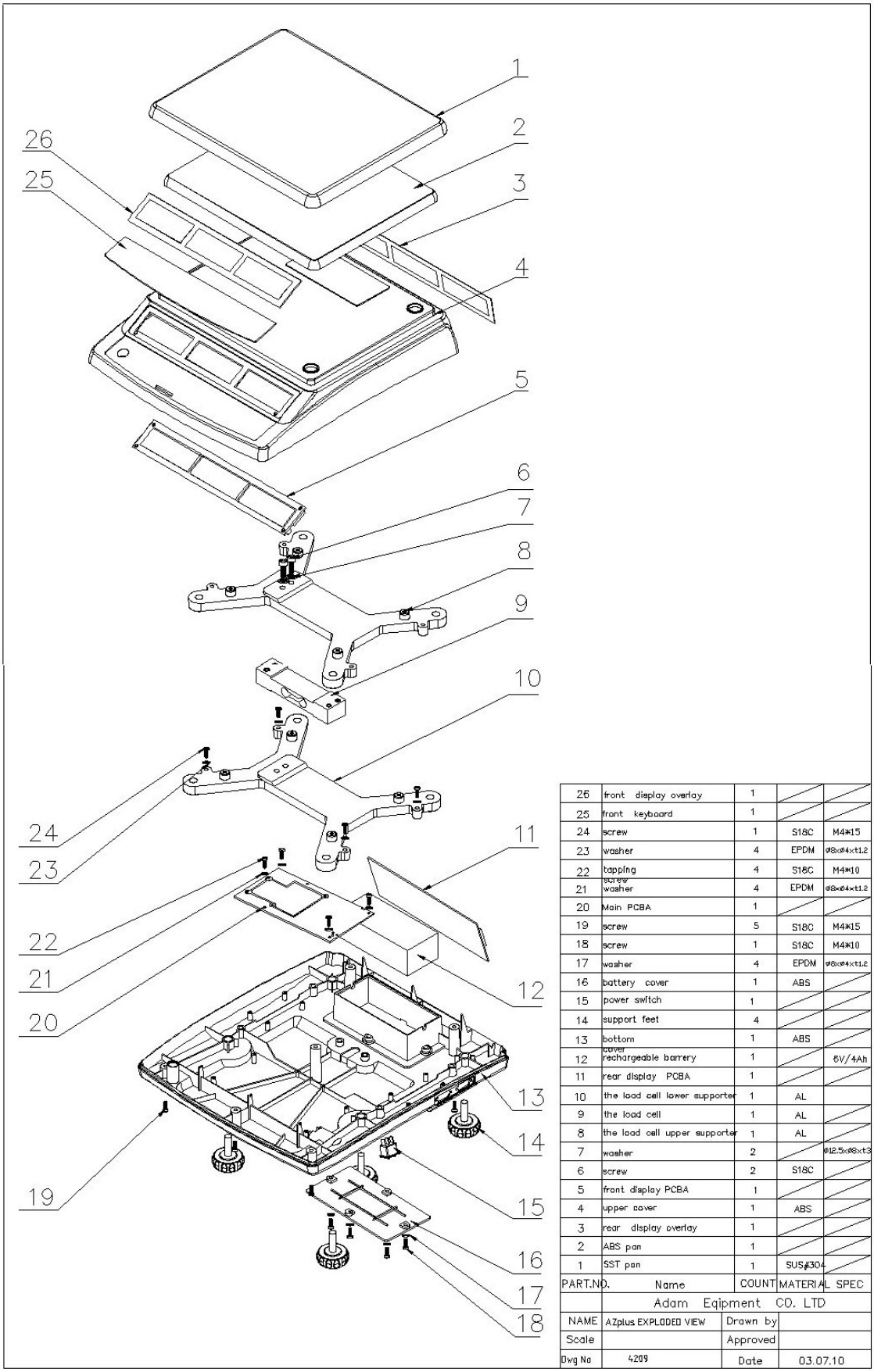
Press **[Tare]** to return to the PARAMETER menu.

Press **[Zero]** to return to weighing.

7.0 WIRING DIAGRAM



8.0 MECHANICAL ASSEMBLY

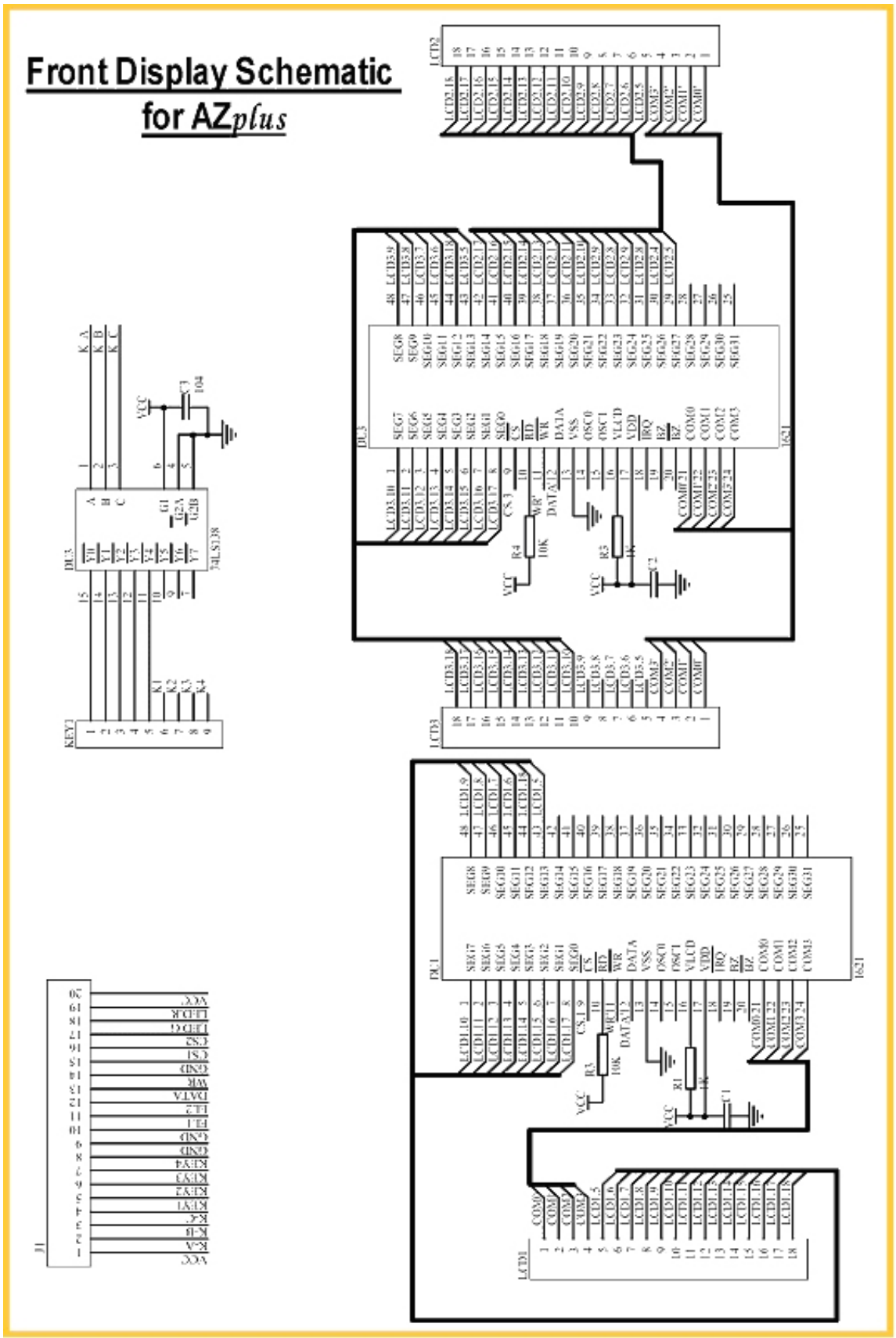


26	front display overlay	1		
25	front keyboard	1		
24	screw	1	S18C	M4*15
23	washer	4	EPDM	ø8xø4xt1.2
22	tapping	4	S18C	M4*10
21	screw washer	4	EPDM	ø8xø4xt1.2
20	Main PCBA	1		
19	screw	5	S18C	M4*15
18	screw	1	S18C	M4*10
17	washer	4	EPDM	ø8xø4xt1.2
16	battery cover	1	ABS	
15	power switch	1		
14	support feet	4		
13	bottom	1	ABS	
12	cover rechargeable barrery	1		6V/4Ah
11	rear display PCBA	1		
10	the load cell lower supporter	1	AL	
9	the load cell	1	AL	
8	the load cell upper supporter	1	AL	
7	washer	2		ø12.5xø8xt3
6	screw	2	S18C	
5	front display PCBA	1		
4	upper cover	1	ABS	
3	rear display overlay	1		
2	ABS pan	1		
1	SST pan	1	SUS#304	
PART.NO.	Name	COUNT	MATERIAL	SPEC
	Adam Eqipment CO. LTD			
NAME	AZplus EXPLODED VIEW	Drawn by		
Scale		Approved		
Dwg No	4209	Date	03.07.10	

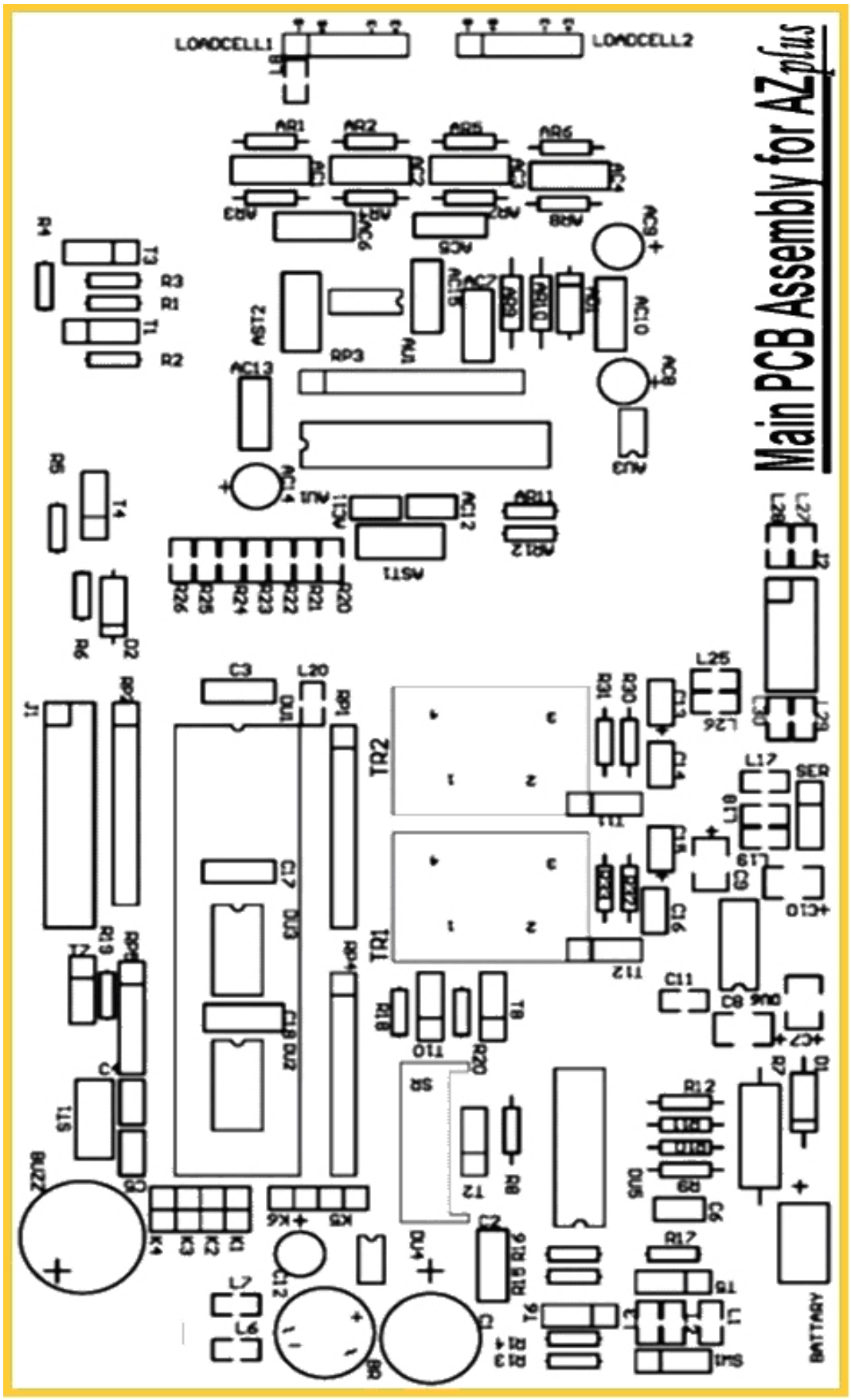
9.0 LIST OF MECHANICAL ASSEMBLY

26	front display overlay	1
25	front keyboard	1
24	screw	1
23	washer	4
22	tapping screw	4
21	washer	4
20	main PCBA	1
19	screw	5
18	screw	1
17	washer	4
16	battery cover	1
15	power switch	1
14	support feet	4
13	bottom cover	1
12	rechargeable battery	1
11	rear display PCBA	1
10	the load cell lower supporter	1
9	the load cell	1
8	the load cell upper supporter	1
7	washer	2
6	screw	2
5	front display PCBA	1
4	upper cover	1
3	rear display overlay	1
2	ABS pan	1
1	SST pan	1

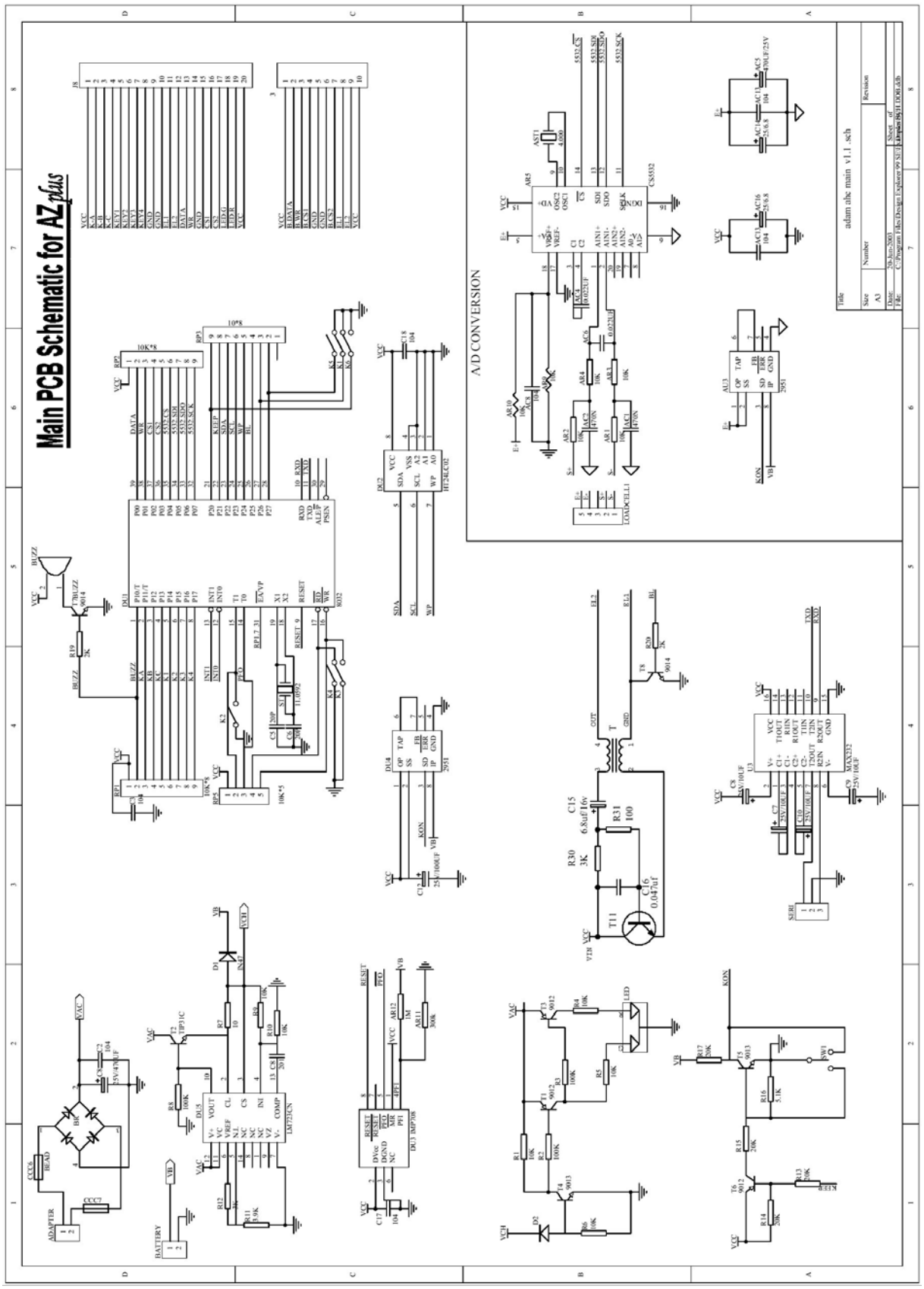
10.0 FRONT DISPLAY SCHEMATIC



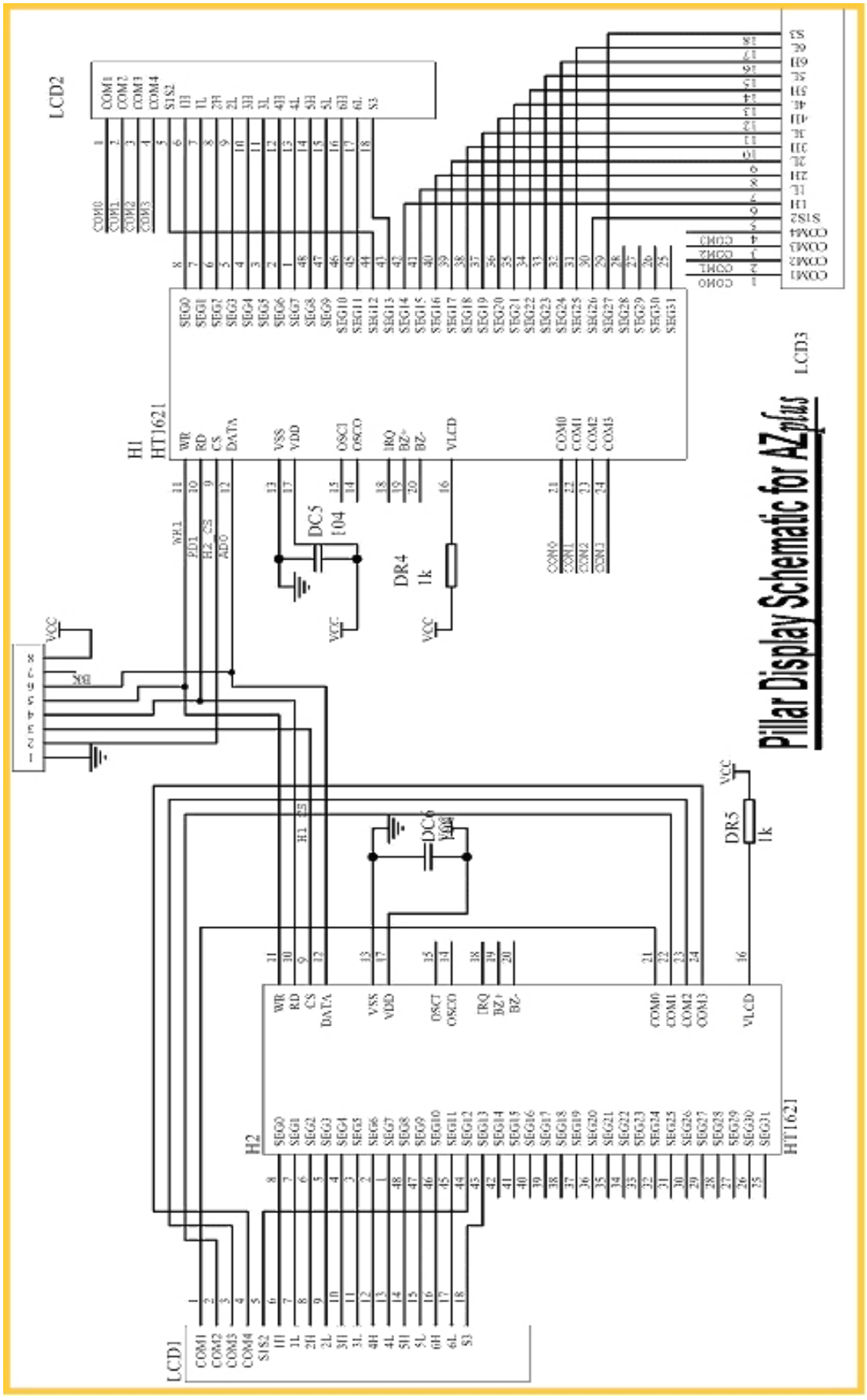
11.0 MAIN PCB ASSEMBLY



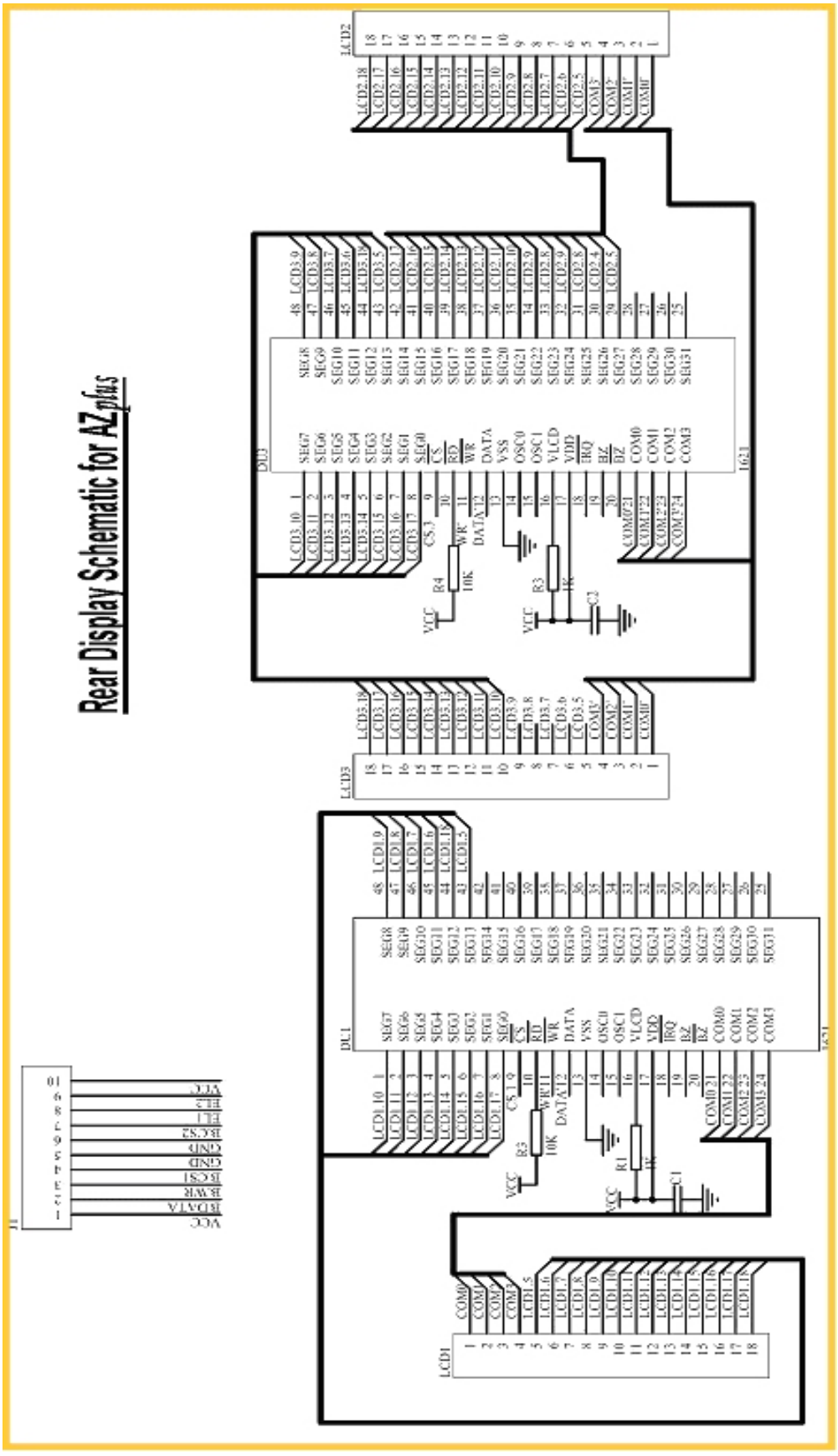
12.0 MAIN SCHEMATIC LAYOUT



13.0 PILLAR DISPLAY SCHEMATIC



14.0 REAR DISPLAY SCHEMATIC



Adam Equipment
ADAM EQUIPMENT, BOND AVENUE, DENBIGH EAST INDUSTRIAL ESTATE,
MILTON KEYNES, MK1 1SW, U.K.
Tel: (01908) 274545 Fax: (01908) 641339
Intl Tel: -44 1908 -274545 Intl Fax: -44 1908 641339
E-Mail Address: info@Adamequipment.co.uk

CE

Test Certificate / Test certificaat / Prüfzertifikat / Certificato di prova / Certificat de test / Certificado de prueba

The non-automatic weighing instrument
Die nicht- automatischen Wägeapparate
L'instrument de pesage à fonctionnement non automatique
Het niet –automatische weegwerktuig
Strumento per pesatura non automatico
Imstrumento para pesaje non automatico

III

Manufacturer :	Adam Equipment Co. Ltd.
Type:	AZplus
No of the EC type-approval certificate:	T6320
Corresponds to the production model described in the EC type-approval certificate and to the requirements of the Council Directive 90/384/EEC as amended and to the requirements of the following EC Directives:	
73/23/EEC	Electrical equipment for use within certain voltage limits (Low Voltage Directive)
89/336/EEC	Electromagnetic compatibility

Hersteller :	Adam Equipment Co. Ltd.
Typ:	AZplus
Nr. der EG-Bauartzulassung:	T6320
Entspricht dem in der Bescheinigung über die Bauartzulassung beschriebenen Baumuster, sowie den Anforderungen der EG-Richtlinie 90/384/EWG in der jeweils geltenden Fassung und den Anforderungen folgender EG-Richtlinien:	
73/23/EWG	Elektrische Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen (Niederspannungsrichtlinie)
89/336/EWG	Elektromagnetische Verträglichkeit

Fabricant :	Adam Equipment Co. Ltd.
Type:	AZplus
N° du certificate d'approbation CE de type:	T6320
Correspond au modèle décrit dans le certificat d'approbation CE de type, aux exigences de la directive 90/384/CEE modifiée et aux exigences des directives CE suivantes:	
73/23/CEE	Matériel électrique pour utilisation dans des limites de tension définies (Directive Basse Tension)
89/336/CEE	Compatibilité électromagnétique

Fabrikant :	Adam Equipment Co. Ltd.
Type:	AZplus
Nummer van de Verklarling van EG-typegoedkeuring	T6320
Conform met het model beschreven in de verklaring van EG-typegoedkeuring en met de voorschriften van EG richtlijn 90/384/EEC zoals gewijzigd en met de volgende EG richtlijnen:	
73/23/EEC	Laagspanning richtlijn
89/336/EEC	EMC richtlijn

Produttore	Adam Equipment Co. Ltd.
Modello:	AZplus
N. di certificato di approvazione di tipo CE	T6320
Conforme al modello di produzione descritto nel certificato di approvazione de tipo CE e secondo le richieste CE direttivo 90/384/CEE come modificato e secondo le rechieste della seguente directive CE	
73/23/EWG	Strumenti elettrici per uso entro certi limiti di voltaggio (Directivo di voltaggio basso)
89/336/EWG	Compatibilita electromagnetico

Fabricante	Adam Equipment Co. Ltd.
Tipo:	AZplus
Numaro del certificado de aprobacion de tipo CE:	T6320
Conforme al modello di producion descrito nel certificado di aprobacion del tipo CE e segun los requisitos del CE diretiva 90/384/CEE como modificato e segun los requisitos della siguiente diretive CE	
73/23/CEE	Instrumentos electricos para uso dentro cierti limites del voltaje (Diretivo di voltaje bajo)
89/336/CEE	Compatibilidad electromagnetico

Signature
Unterschrift
Signature
Handtekening
Firma
Firma

J.S. Cumbach

Technical Manager

Date
Datum
Date
Datum
Date
Fache

1 October 2007

ADAM EQUIPMENT is an ISO 9001:2000 certified global company with more than 35 years experience in the production and sale of electronic weighing equipment.

Adam products are predominantly designed for the Laboratory, Educational, Medical, retail and Industrial Segments. The product range can be described as follows:

-Analytical and Precision Balances
-Compact and Portable Balances
-High Capacity Balances
-Moisture analysers / balances
-Mechanical Scales
-Counting Scales
-Digital Weighing/Check-weighing Scales
-High performance Platform Scales
-Crane scales
-Medical Scales
-Retail Scales for Price computing

For a complete listing of all Adam products visit our website at
www.adamequipment.com

The latest version of this publication can be found on our Website.

www.adamequipment.com