



Promatic srl

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# ANTONIA 2000 people weighing machine Technical Data

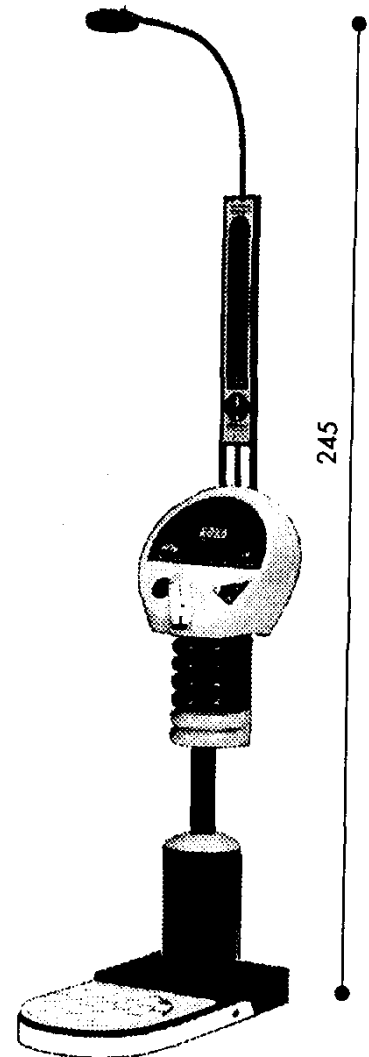
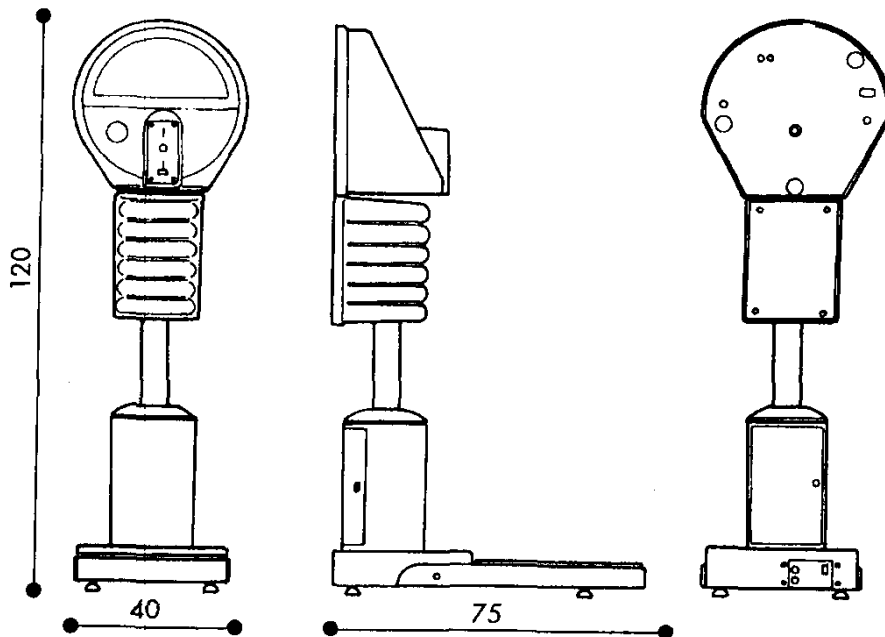
*We reserve the right of changing technical specifications anytime*

Weighing System:	Strain Gauge Load Cell, 250 Kg. Capacity
Weighing Range:	5 Kg to 160 Kg in 1 Kg steps
Display Type:	Alphanumeric Red with led Bar Analog indications
VOICE Messages:	Voice Guidance from Attraction to the end
Coin Acceptor Type:	Standard: Mechanical with lockout coil. Electronic acceptor on request.
Language:	Any on request. Currently available: Italian, English, Spanish, French, Chinese, Arabic
Special features:	Highly innovative type of scale. Speaks to people and Jokes telling them they are really fat if they are. Superb interactivity with customers makes them feel the scale is really reacting to what they do.
Real Time Clock:	Indicates Hour and Minutes, rings the bell every hour
Measure System:	Metric ( Kg and cm ) or Feet and Inches and Pounds
External Dimensions:	75 (D) x 40 (W) x120 (H) * 245 w/ height meter
Weight:	45 Kg
Operating Voltage:	110/220/240 50/60Hz 100 VA

# ANTONIA 2000 THE SCALE OF THE NEW GENERATION

## HEIGHT METER (INCLUDED) Technical Data

Measuring System:	Ultrasonic
Accuracy:	+/- 1cm
Range:	90 cm to 200 cm
Power Supply:	5V 1A
Indications:	Led Bar indicator and Display



A2000 TD96

To operate and set the scale ANTONIA 2000 there are 2 buttons : SET and SELECT . They are located on the rear of the scale's head.

### PROGRAMMING MENU

There is an access code to enter programming menu that is 369. To insert the access code proceed as follows:

1) Switch on the scale and the word " menu" will appear on the display. Now press SELECT.

2) At this point the display will show " COD=0" with the number "0" blinking; increase the number from 0 to 3 using the SET button, press SELECT to confirm.

3) Now the display will show " COD=30" with the number "0" blinking; increase the number from 0 to 6 using the SET button, press SELECT to confirm.

4) The display now shows "COD=360" with the "0" blinking; increase the number from 0 to 9 using the SET button, press SELECT to confirm.

Now you have entered programming menu. If a wrong access code is inserted repeat the procedure from point 1.

On the display will now appear:

1=CNT    2=CRD    3=CLK    6=SET    7=KoP    9=END

## CLOCK SETTING

The access code to clock setting is **3**.

Press SET and on the display will appear " OPT=0". Increase the number from 0 to 3 using SET button, press SELECT to confirm.

The display now shows the hour setting programmed in our factory, for example :

**HH=12**

The second number will be blinking ( in this case number 2). To change the value of the second number use SET button and press SELECT to confirm.

Now HH=12 will be shown with the first number blinking ( in this case 1.) Correct the first number always using SET button and then press SELECT to confirm; now you have set the hour.

At this point the display will show in sequence:

MN =XX	Minutes setting
DD =XX	Day setting
MM=XX	Month setting
YY =XX	Year setting

Follow the same procedure as for hour setting . After year setting the main menù will appear on the display.

## ANTONIA 2000 Weight setting

Warning: before doing any weight setting remove anything from the platform!

Enter the program menu with usual code 369 and access option 6.

On the display you will see a number that represents the frequency coming from the V/F converter.

Put the jumper to Freq Adj position, you should now read on the display a number around 33333 . If it is a little different in units and decades do not worry important thing is that at least first and second digits from left are 3 that is 33XXX, where X means does not matter. If you are not in this range adjust the frequency trimmer that is the bottom one.

Now bring the jumper back to Weight Adj ,You should see a number from 1500 to 2000 that represents the voltage coming from the cell, converted in frequency.

If this number is not in this range, adjust the zero trimmer until you are in this range. If you cannot reach this range, check that the voltage output from the load cell is about 0.8 mv with no weight. You can measure this coltage on the orange load cell connector . This connector has a central wire and on the pair on one side you should have 10V that is Load cell Input, on the pair on the other side you should have the actual output from the load cell that is about 0.8mv with no weight and varies 1mv every 10 Kg.

If this is much different from this value, i.e. 3 mv with no weight , the load cell is broken or bent and you will not be able to obtain the zero value described above.

Once you have a Zero value in the range 1500-2000, press SELECT to store this value as ZERO VALUE.

After pressing SELECT you will read the conversion in Kg of the previous frequency, if the scale has got a good divisor value in its non volatile memory, you will read about 15.0 Kg, otherwise you will have any possible value and you will need to adjust it.

To do it press SET, on the display you will see KG=05, put a reference weight (60 Kg is OK ) on platform and increase the value on the display by pressing SET until you read the weight you have put.

Now press SELECT to confirm and the machine will compute a divisor typical for it.

Now REMOVE THE WEIGHT from platform and press SELECT once again. You should now read 15.0 on the display, if there is a little difference adjust the trimmer until you read it and press SELECT again.

To exit you can press SET and SELECT at the same tme or switch off the machine.

# ***DPS- PROMATIC technical Memo***

*Promatic srl via Edison 27 47100 Forlì Tel.0543-723428 Fax 0543-725274*

*From: Massimo Portolani*

*Object: ANTONIA2000*

*19 luglio 1996*

How to debug problem of Antonia 2000 not weighing or weighing incorrectly.

1- The problem usually comes as the machine saying to people 'I can't measure your weight' or 'get out of the platform you are hurting me' even if customer is acting correctly.

This is due to the weighing circuit weighing incorrectly or to the load cell broken.

How the machine works: to weigh people, a Load Cell is mounted below the platform, this is a piece of aluminum that bends with the load and provides a different voltage to an amplifying circuit that amplifies the signal 1000 times and then converts it into frequency readable by the microprocessor.

To debug the problem do as following:

A- Load cell is powered at 10 V and outputs a voltage of about 0,9 mV every 10 Kg.

Locate the 5 pin orange load cell connector and measure between the 2 wires on the left side ( looking at it from the wire side ), you should have 10 V.

Now measure between the 2 right ones, you should have about 1.4 mV with no weight and about 2.3 mV with 10 Kg. weight.

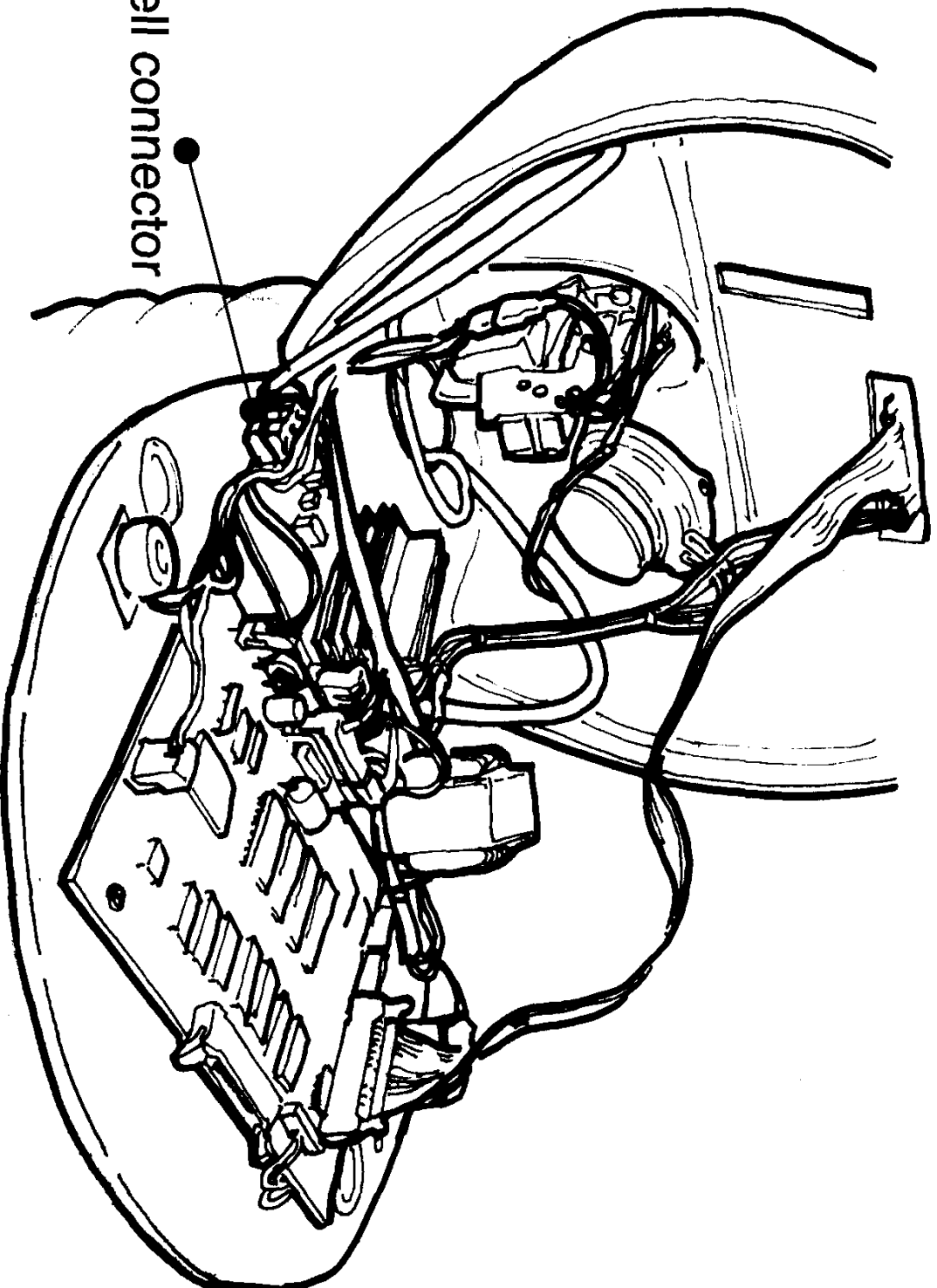
Voltage with no weight could change because of people jumping on the platform and bending the cell, anyway, up to a certain value, you can always correct it with Zero trimmer following setup procedures.

Whatever the voltage with no weight, you must have the same variation ( more or less ) when you put 10 Kg. on the platform, otherwise the cell is broken and you need to change it.

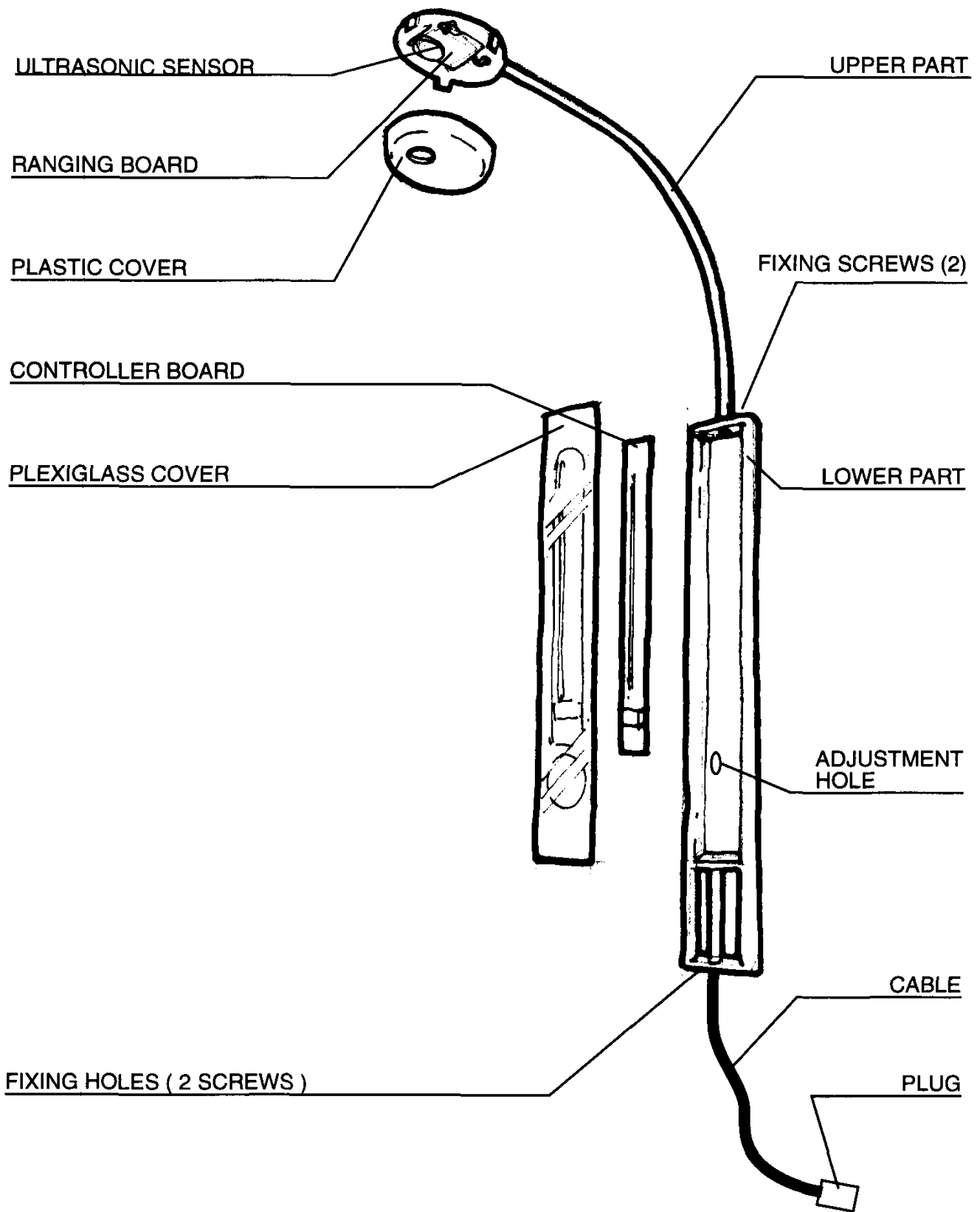
B- If the load cell is correct then proceed to adjust the load cell amplifier and digitizer as described in another instruction note.

If you cannot adjust the weight you need to change the amplifier board.

Project: ANTONIA2000  
Head interior



# HEIGHT METER - Nomenclature



## ANTONIA 2000 SPARE PARTS LIST

CPU200 - A2000 : main microprocessor CPU board

PCB71V1 : Power supply and load cell amplifier

PCB69 : Front LED board with displays

A2000 TRANSFORMER : 110-220V / 9V,15V transformer

A2000 COIN ACCEPTOR

LOCK OUT COIL for coin acceptor

A2000- SPEAKER: 20W speaker

LC5: load cell type AKA200

12V COUNTER: electromechanical counter

FRONT PANEL: plexiglass front panel

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