

Correspondence: Executive Officer
P.O. Box 282 NORTH RYDE
N.S.W. 2113
Telegrams: NATSTANCOM SYDNEY
Telephone: 888 3922

CERTIFICATE OF APPROVAL No 6/4D/85

CANCELLED

This is to certify that the pattern of the
Bizerba Weighing Instrument Model E3000

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submitted by Globus-Bizerba Pty Ltd,
150 Edinburgh Road,
Marrickville, New South Wales, 2204,

has been approved under the Weights and Measures (Patterns of Instruments)
Regulations as being suitable for use for trade.

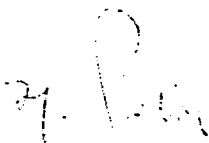
Date of Approval: 24 November 1978

The pattern is described in Technical Schedule No 6/4D/85, and in drawings
and specifications lodged with the Commission.

The approval is subject to review on or after 1 November 1983.

All instruments conforming to this approval shall be marked with the
approval number "NSC No 6/4D/85".

Signed



Executive Officer



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NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE NO 6/4D/85

Pattern: Bizerba Weighing Instrument Model E3000

Submitter: Globus-Bizerba Pty Ltd,
150 Edinburgh Road,
Marrickville, New South Wales, 2204.

Date of Approval: 24 November 1978

All instruments conforming to this approval shall be marked "NSC No 6/4D/85".

Description:

The pattern is a self-indicating price-computing weighing instrument of capacity 9,995 kg by 0,005 kg scale interval with price computing in 1c increments from 1c to \$999,99 per kg and total price to \$9994,90 (see Figures 1 and 2). Mass*, unit price and total price are digitally indicated on both the vendor's and the purchaser's sides (see Figures 3 and 4). The unit price is entered sequentially by ten push-buttons and cleared either by pressing the button marked "C" or automatically when the mass indicated is below 0,01 kg. Pressing the "K" button retains the unit price when the mass indicated is below 0,01 kg.

The load receptor is supported on two pendulum-resistant-mechanism levers and stayed by parallel links (see Figure 5).

A graticule mounted on one pendulum passes through a photo-electric pulse generator, which provides a number of pulses proportional to the deflection of the lever. These pulses are counted and converted to a mass indication and in the computer multiplied by the unit price to allow the price to be indicated.

A tool-operated zero adjustment, which varies the load on a spring resistant connected to the load receptor, is accessible from the side of the instrument. A "zero" light illuminates when the

* Mass is the term which supersedes "weight".

instrument is within 0,25e of zero.

The instrument is provided with a level indicator and adjustable feet. Adjacent to the level indicator is a notice advising that the instrument must be level when in use. A balance box is located beneath the load receptor.

An automatic monitor circuit will cause all digital indications to blank out whenever the unit price entered into the computer is not the same as that selected or displayed. The operation of this circuit is checked by means of a test button marked "P". When the test button is pressed, all displays will blank for 2 seconds and the word "faulty" will illuminate.

A second automatic monitor circuit continuously checks the performance of the digital indicators; failure of any bar of a digital indicator will cause all the digital indicators to blank out.

The instrument is marked adjacent to each mass reading face:

(III)

Max	=	9,995 kg
Min	=	0,1 kg
$d_4 = e$	=	0,005 kg

A lead-plug stamping seal on the purchaser's side of the instrument prevents the cover of the instrument being removed (see Figure 6). A lead-and-wire security seal prevents the load-receptor support bracket being removed (see Figure 7).

Special Tests:

1. Zero range — check that the range of the zero adjustment is not more than 0,4 kg and that when the instrument indicates zero the adjustment is within 0,04 kg of the centre of its range.
2. Zero balance — check by means of the Commission's digital zero test (Design Manual No 1, Document 104, Testing Procedure for the Elimination of Rounding Error for Weighing Instruments with Digital Indication) that, when the "zero light" is illuminated, zero is set within 0,25e of zero.
3. Price-computing and mass circuits — the indications of mass, unit price and price, as listed in Table 1, will indicate that the price-computing and mass circuits are functioning correctly. The exact figures should be indicated as rounding is effected within the computer.

Note: This test does not establish correct mass indications; a separate test in accordance with the Commission's recommended test procedures for the elimination of rounding errors — Document 104 — is necessary.

4. Level sensitivity — when the instrument is tilted so that the bubble in the level indicator moves 2 mm, zero should not change by more than two graduations, and when zero is reset in the tilted position the instrument should satisfy the mass accuracy specification, that is, $\pm 0,5$ scale interval for the first 500 scale intervals, and ± 1 scale interval for scale intervals over 500 and up to 2000 scale intervals.
5. Range of indication —
 - (a) the maximum mass indicated should not exceed 9,995 kg; above this indicated mass the indicator should be blank;
 - (b) the minimum mass indicated should be zero; below this indicated mass the indicator should be blank.
6. Power interruption — with a load on the instrument check that, when the supply voltage is turned on again after being interrupted due to the power point being turned off, or the power switch on the instrument being turned off, the indication of mass remains zero until the load is removed.
7. Automatic error-monitor circuit — check that operation of the "P" button causes all indications to blank out and the word "faulty" to illuminate for 2 seconds.

TABLE 1

Indicated mass kg	Unit price \$/kg	Price \$
0	0	0
0,100	999,99	100,00
0,105	498,99	52,39
0,110	997,99	109,78
0,120	696,99	83,64
0,130	595,99	77,48
0,140	764,50	107,03
0,150	993,99	149,10
0,160	882,31	141,17
0,170	991,99	168,64
0,180	990,96	178,37
0,190	389,88	74,08
0,200	179,77	35,95
0,300	269,66	80,90
0,400	959,55	383,82
0,500	949,44	474,72
0,600	939,33	563,60
0,700	929,22	650,45
0,800	919,11	735,29
0,900	9,14	8,23
1,000	910,57	910,57
2,000	870,03	1740,06
3,000	784,67	2354,01
4,000	950,52	3802,08
5,000	884,96	4424,80
6,000	906,99	5441,94
7,000	899,64	6297,48
8,000	949,53	7596,24
9,000	988,72	8898,48
9,995	999,99	9994,90

Test Procedure — 9,995 kg Instrument with Unit Price
to \$999,99/kg and Price to \$9994,90

FIGURE 6/4D/85 - 1



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FIGURE 6/4D/85 - 2



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FIGURE 6/4D/85 - 3



Bizerba E3000 — Vendor's Mass, Unit Price and Price Indicators

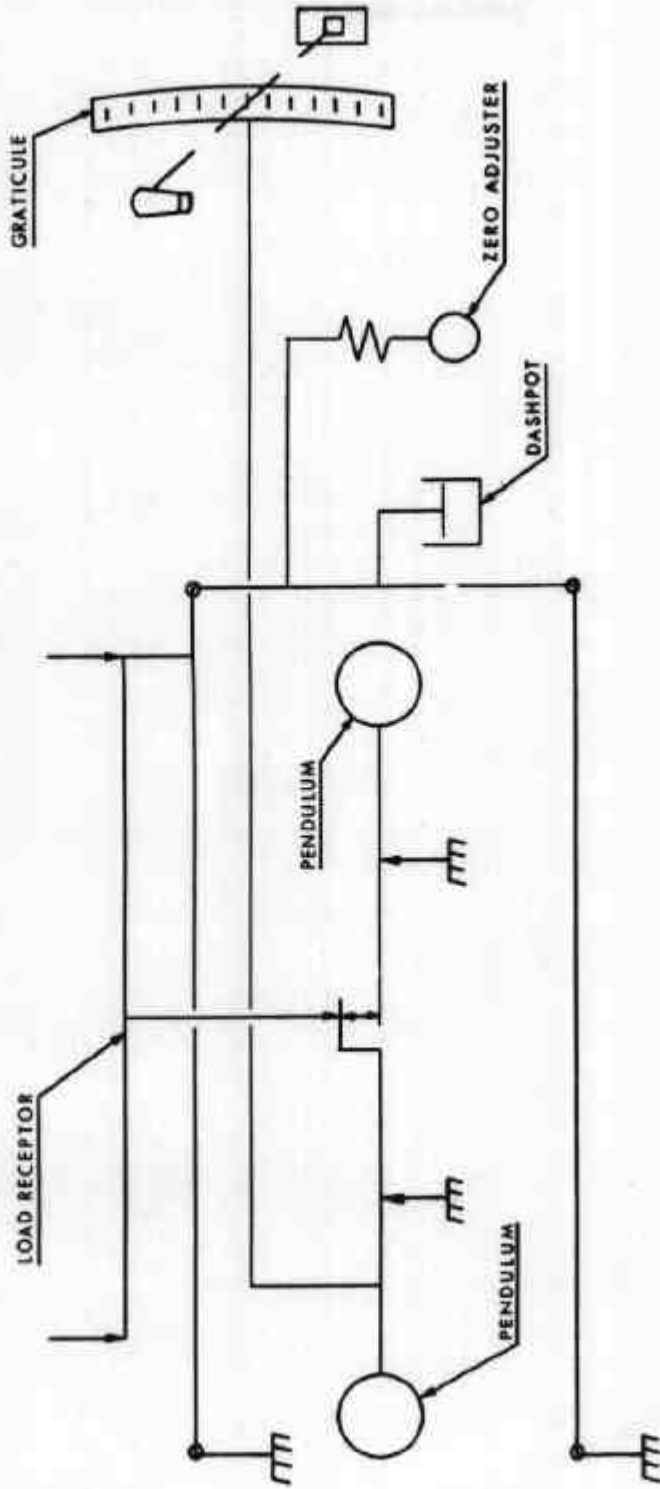
FIGURE 6/4D/85 - 4



Bizerba E3000 — Purchaser's Mass, Unit Price and Price Indicators

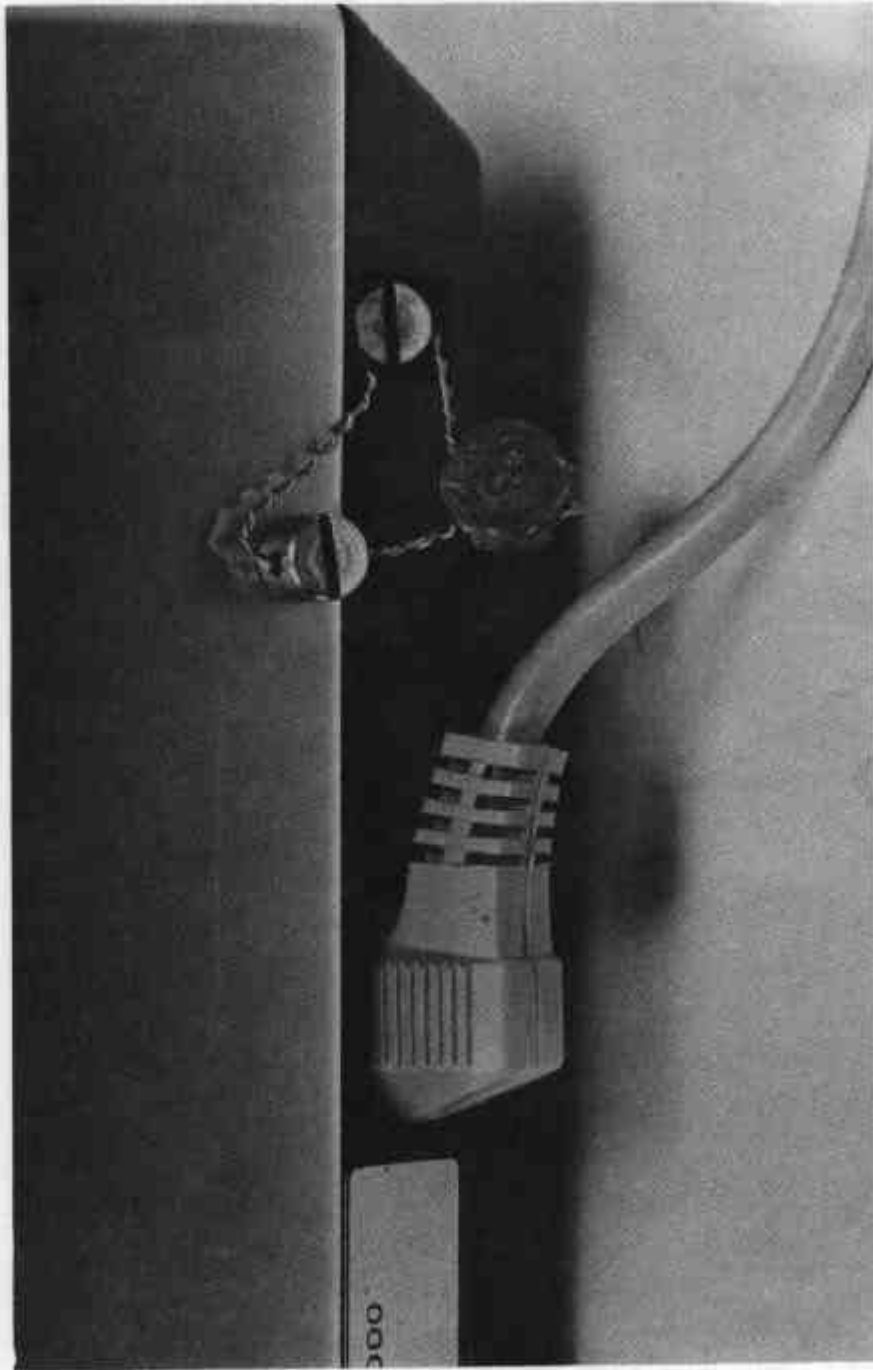
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FIGURE 6/4D/85 - 5



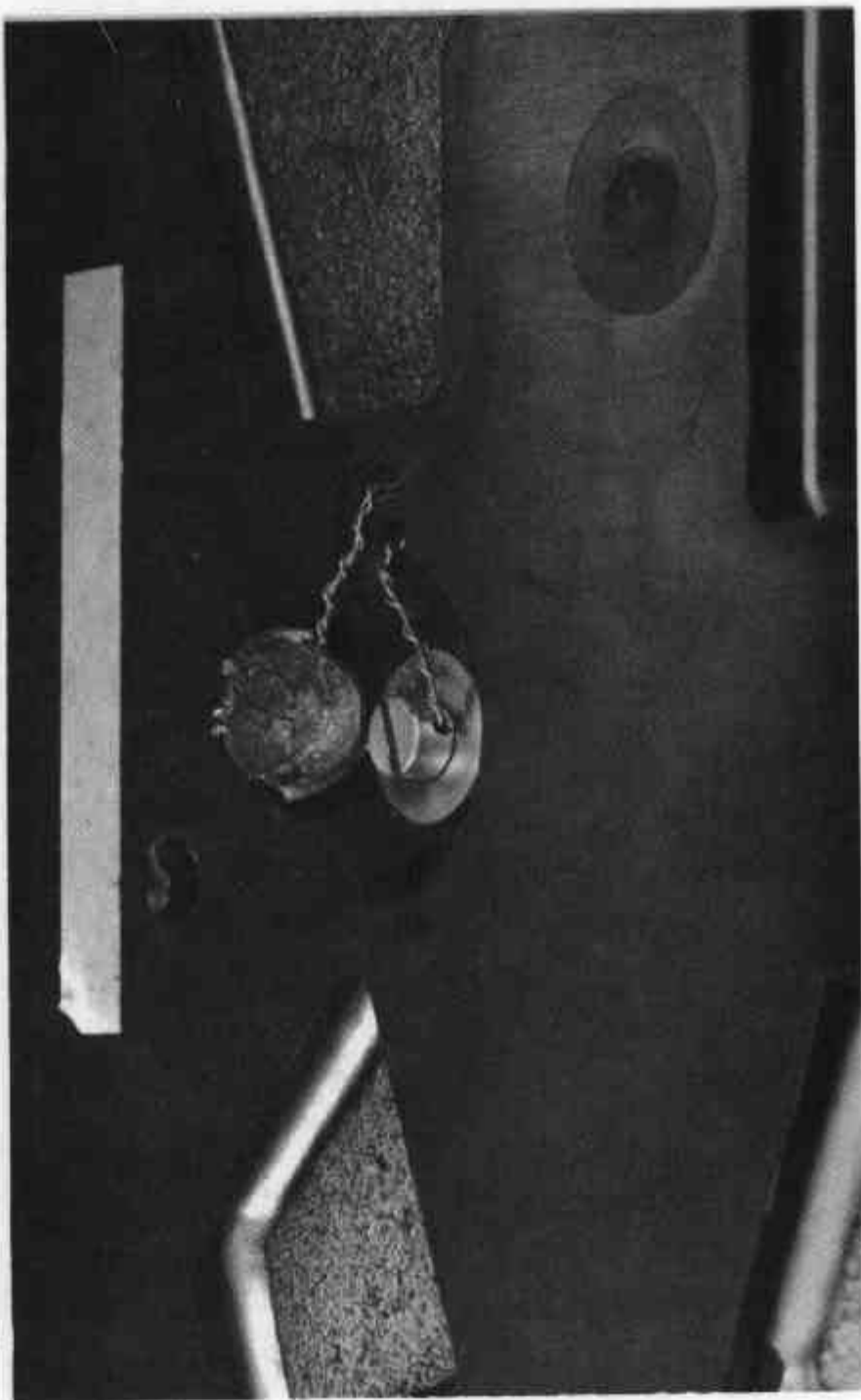
Bizerba E3000 — Schematic Diagram of Lever System

FIGURE 6/4D/85 - 6



Bizerba E3000 — Sealing of Instrument Cover

FIGURE 6/4D/85 - 7



Bizerba E3000 — Sealing of Load-receptor Support Bracket

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