

CANCELLED

6/4D/209
1/4/86



NATIONAL STANDARDS COMMISSION

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/4D/209

This is to certify that an approval for use for trade has been granted in respect of the pattern and variants of the

Electronic Scales International Model Sumit JK 803 aj Weighing Instrument

submitted by Bizerba Scales Australia Pty Ltd
189 Grange Road
Fairfield Victoria 3078.

CONDITIONS OF APPROVAL

General:

This approval is subject to review on or after 1/2/87.

Instruments purporting to comply with this approval shall be marked NSC No 6/4D/209.

This approval may be withdrawn if instruments are constructed and used other than as described in the drawings and specifications lodged with the Commission.

For Variant 6

This instrument may be used for retail counter use when:

- (a) It is connected to an electronic cash register complying with NSC Approval No S2/0, or
- (b) It is fitted with 2 mass displays.

Signed

Acting Executive Director

Descriptive Advice

Pattern: approved 5/2/82

- . A self-indicating price-computing weighing instrument of 15 kg capacity with 0.005 kg scale intervals.

Variants: approved 5/2/82

1. With remote purchaser display mounted on a column attached to the weighing instrument.
2. With an output socket for the connection of auxiliary or peripheral equipment.

Technical Schedule No 6/4D/209 describes the pattern and variants 1 and 2.

Variant: approved 14/7/82

3. With modified sealing to facilitate the fitting of a scoop.

Technical Schedule No 6/4D/209 Variation No 1 describes variant 3.

Variant: approved 24/9/82

4. With remote purchaser display mounted on a column and separate to the weighing instrument.

Technical Schedule No 6/4D/209 Variation No 2 describes variant 4.

Variants: approved 25/5/83

5. With subtractive tare of 9.995 kg capacity.
6. Displaying mass only with the display mounted on a column, and known as a model JK 704 aj.
7. The pattern or variants with a maximum capacity of 9.995 kg.

Technical Schedule No 6/4D/209 Variation No 3 describes variants 5 to 7.

Variant: approved 19/9/83

8. With a price-look-up (PLU) keyboard, separate to the weighing instrument.

Technical Schedule No 6/4D/209 Variation No 4 describes variant 8.

Variant: approved 24/1/84

9. With auxiliary printers having integral price-look-up (PLU) facility.

Technical Schedule No 6/4D/209 Variation No 5 describes variant 9.

Variants: approved 15/1/86

10. With remote power supply unit, and known as the Eagle JK 800 series.
11. With touch-pad keyboard.
12. With diecast platter support.

Technical Schedule No 6/4D/209 Variation No 6 describes variants 10 to 12.

Filing Advice

Certificate of Approval No 6/4D/209 dated 15/2/84 is superseded by this Certificate and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/4D/209 dated 1/4/86
Technical Schedule No 6/4D/209 (including Table 1) dated 22/2/82
Technical Schedule No 6/4D/209 Variation No 1 dated 3/8/82
Technical Schedule No 6/4D/209 Variation No 2 dated 16/10/82
Technical Schedule No 6/4D/209 Variation No 3 dated 25/5/83
Technical Schedule No 6/4D/209 Variation No 4 dated 7/10/83
Technical Schedule No 6/4D/209 Variation No 5 dated 15/2/84
Technical Schedule No 6/4D/209 Variation No 6 dated 1/4/86
Test Procedure No 6/4D/209 dated 22/2/82
Figures 1 to 5 dated 22/2/82
Figure 6 dated 3/8/82
Figure 7 dated 16/10/82
Figure 8 dated 25/5/83



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/209

Pattern: Electronic Scales International Model Sumit JK 803 aj

Submittor: Bizerba Scales Australia Pty Ltd,
53-55 Ramsden Street,
Clifton Hill, Victoria, 3068.

1. Description of Pattern

The pattern is a self-indicating price-computing weighing instrument (Figures 1 and 2).

Maximum capacity	15.000 kg
Scale interval	0.005 kg
Unit price	\$999.99/kg in 1c increments
Price	\$999.99 in 1c increments

1.1 Zero

The instrument is automatically corrected to zero within $\pm 0.25e$ when power is applied by momentarily depressing the POWER key; power is removed by depressing the POWER key for a longer period.

When power is applied the instrument zeroes any mass on the load receptor up to $\pm 2\%$ of the marked maximum capacity.

An indicator light marked ZERO is illuminated whenever zero is balanced within $0.25e$.

Note: There are two lamps adjacent to ZERO; both are illuminated in test modes but only the upper lamp glows when the instrument is balanced at zero.

1.1.1 Semi-automatic Zero

If the mass on the receptor is 2 scale intervals or less, the instrument may be re-zeroed by pressing the CLEAR key. The range of this control is up to $\pm 2\%$ of maximum capacity in $2e$ steps.

1.1.2 Automatic Zero Correction

This facility automatically resets zero to within $\pm 0.25e$ whenever the load receptor comes to rest within $0.5e$ of zero.

1.2 Display Check

When power is applied all segments of all indicators display 9 to 0 sequentially and the pairs of lamps adjacent to SAVE and ZERO flash alternatively. When the segment-check key marked SC is held depressed all indicators display all eights and the SAVE, ZERO and PRICE pairs of lamps glow continuously and the PRICE indicator flashes slowly.

1.3 Clear Key

The key marked CLEAR, when pressed, clears a unit price which has been entered via the keyboard.

1.4 Save Key

When a unit price is entered, the SAVE key may be pressed with the result that the unit price is retained after a weighing. The saved unit price can be cleared by using the CLEAR key or entering a new unit price. The upper SAVE lamp illuminates when the SAVE key has been pressed, and is extinguished when a new unit price is entered, or SAVE is cleared.

1.5 Print Key

This key is inoperative until such time as a printer is approved for connection to the weighing instrument. Adjacent to the key marked SC is a blank key which is also inoperative.

1.6 Marking

All instruments are marked with the following data (Figure 3):

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 6/4D/209
Accuracy class in the form:	III
Maximum capacity in the form:	Max 15,000 kg*
Minimum capacity in the form:	Min 0.100 kg*
Scale interval in the form:	d = e = 0.005 kg*

1.7 Levelling

The instrument is provided with a level indicator and four adjustable feet. Adjacent to the level indicator is a notice advising that the instrument must be level when in use (Figure 1).

1.8 Sealing

- (a) Access to calibration adjustments is prevented by three lead and wire seals as shown in Figure 4.
- (b) When fitted with a socket for the connection of a remote printer, the socket should be sealed.
- (c) A stamping plug is provided adjacent to the nameplate (Figure 3).

2. Description of Variants2.1 Variant 1

With a remote customer display mounted on a stalk on the customers side of the instrument (Figure 5). The stalk may vary in length from that shown to suit the application.

2.2 Variant 2

With an output socket for a remote printer. This socket should be sealed until such time as a printer is approved for connection with the weighing instrument.

With an output socket for connection of peripheral equipment.

* These markings are repeated in the vicinity of each reading face.

TEST PROCEDURE No 6/4D/209

All loads should be applied in accordance with the method recommended in the Commission's Test Procedure for the Elimination of Rounding Error for Weighing Instruments with Digital Indication (Document 104).

Accuracy Requirements

The maximum permissible errors are:

- ± 0,5e for loads between 0 and 500e inclusive;
- ± 1e for loads between 501 and 2000e; and
- ± 1,5e for loads above 2000e.

1. Zero Test

As the automatic device resets zero when the weighing mechanism is in equilibrium within 0.5e of zero, zero should be checked as described in Document 104, with a load equal to, say, 10e on the load receptor. The indications with 0.25e and 0.75e additional mass on the load receptor will then be 10e and 11e respectively.

2. Zero Range

2.1

The maximum range of operation of the zero adjustment should not exceed 4% of the maximum capacity of the instrument (± 2% approximately). Satisfactory setting may be checked by the following method:

- (a) With zero balance indicated apply a load of, say, 2.5% of maximum capacity to the instrument and turn the power off and on via the POWER key; the instrument should not re-zero. The instrument should indicate 9 to 0 then continue to show varying indications.
- (b) Reduce the load to, say, 1.5% of maximum capacity and again turn the power off and on via the POWER key; the instrument should indicate 9 to 0 then zero balance.

2.2

The range of the semi-automatic zero can be checked by zeroing off increments of 2e or less with the CLEAR key until the instrument will no longer zero. This limit should be no more than 2.5%.

3. Level Sensitivity

As the automatic zero device may prevent the zero from changing when the instrument is tilted at zero load, the effect of tilt should be initially checked with a small load on the instrument, say, 10e.

When the instrument is tilted so that the bubble in the level indicator moves 2 mm, the indication of 10e should not change by more than 2e, and when, in the tilted position, the 10e load is removed and zero is allowed to automatically reset, or it is manually reset, the instrument should satisfy the accuracy requirements given above.

4. Price-Computing Accuracy

The indications of mass, unit price and price listed in Table 1 will indicate that the price-computing and mass circuits are functioning correctly. The figures should be indicated exactly as in the table, as rounding is effected within the computer.

Note: This test does not establish correct mass indication; a separate load test in accordance with Document 104 is necessary. This may be carried out in conjunction with the above test.

5. Range of Indication

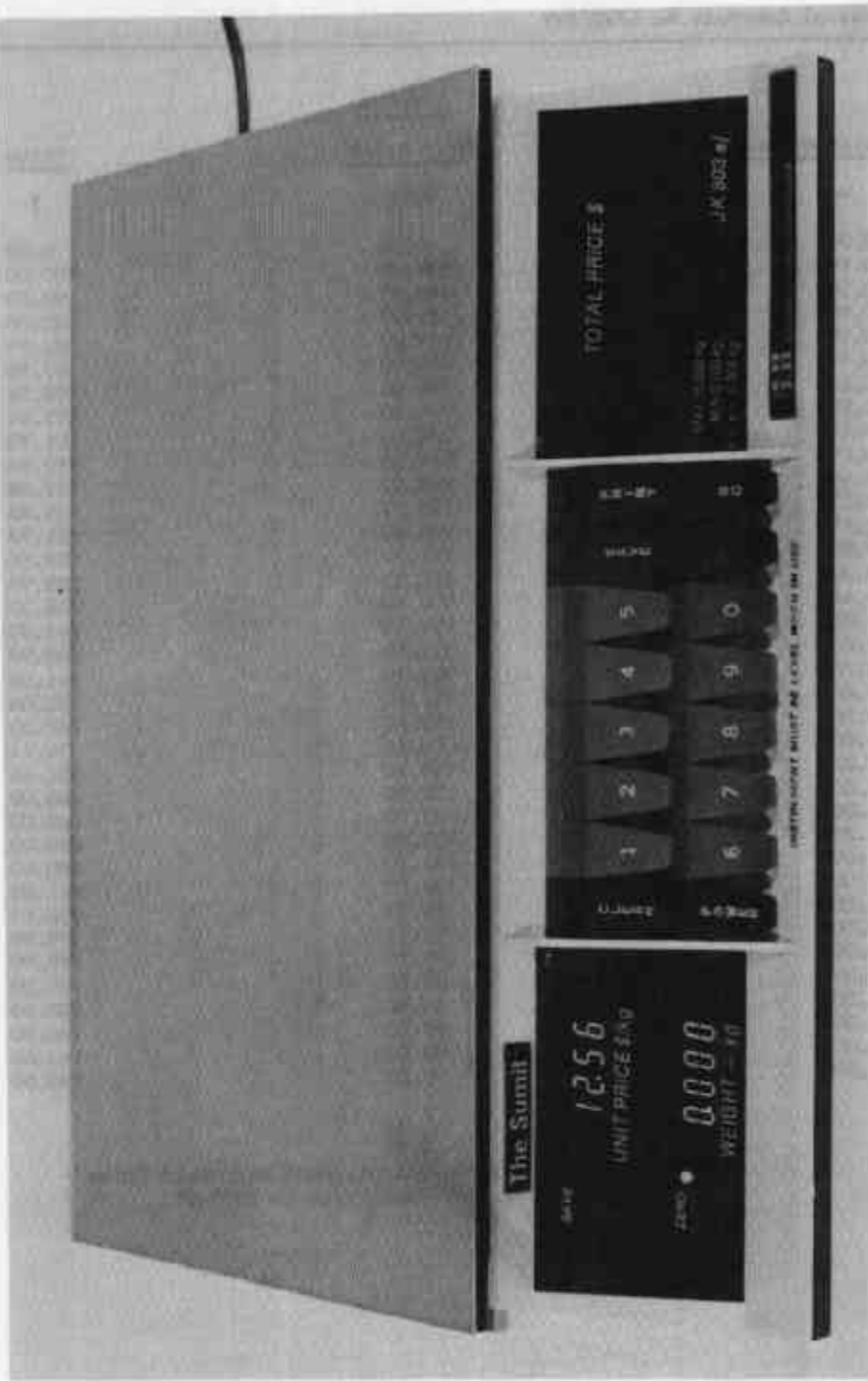
- (a) The maximum mass indicated should not exceed the marked maximum capacity (Max) by more than 10e; above this indicated mass the indication should be blank.
- (b) The minimum mass indicated should be zero; below this the indication should be blank or show a series of dashes.

TABLE 1

<u>Indicated Mass</u>	<u>Unit Price</u>	<u>Price</u>	
kg	\$/kg	\$	
0.000	0.00	0.00	or blank
0.100	999.99	100.00	
0.100	899.99	90.00	
0.100	799.99	80.00	
0.105	799.88	83.99	
0.110	799.78	87.98	
0.120	799.66	95.96	
0.130	799.55	103.94	
0.140	799.44	111.92	
0.150	799.33	119.90	
0.160	799.23	127.88	
0.170	799.11	135.85	
0.190	798.82	151.78	
0.200	797.70	159.54	
0.300	696.60	208.98	
0.400	595.50	238.20	
0.500	494.40	247.20	
0.600	393.30	235.98	
0.700	202.20	141.54	
0.800	191.10	152.88	
0.900	180.41	162.37	
1.000	74.11	74.11	
2.000	163.20	326.40	
3.000	150.00	450.00	
4.000	140.00	560.00	
5.000	130.00	650.00	
6.000	130.10	780.60	
7.005	120.09	841.23	
8.080	120.07	970.17	
9.000	111.11	999.99	
10.000	99.99	999.90	
11.000	10.00	110.00	
12.000	10.00	120.00	
13.000	10.00	130.00	
14.000	10.00	140.00	
15.000	10.00	150.00	

Test Procedure - 15.000 kg Instrument with Unit Price to \$999.99/kg and Total Price to \$999.99.

FIGURE 6/4D/209 - 1



ESI Model JK 803 aj - Vendors Side



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/209

VARIATION No 1

Pattern: Electronic Scales International Model Summit JK 803 aj Weighing Instrument.

Submittor: Bizerba Scales Pty Ltd,
53-55 Ramsden Street,
Clifton Hill, Victoria, 3068

1. Description of Variant

1.1 Variant 3

With the sealing modified as shown in Figure 6, to facilitate the fitting of a scoop.

3/8/82



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/209

VARIATION No 2

Pattern: Electronic Scales International Model Summit JK 803 aj Weighing Instrument.

Submittor: Bizerba Scales Pty Ltd,
53-55 Ramsden Street,
Clifton Hill, Victoria, 3068

1. Description of Variant 4

With a remote customer display mounted on a stalk and separate to the weighing instrument (Figure 7), with the interconnecting cable permanently connected within the weighing instrument.

16/10/82



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/40/209

VARIATION No 3

Pattern: Electronic Scales International Model Sumit JK 803 aj Weighing Instrument

Submitter: Bizerba Scales Pty Ltd
53-55 Ramsden Street
Clifton Hill, Victoria, 3068.

1. Description of Variants

1.1 Variant 5

With semi-automatic push-button subtractive tare of 9.995 kg capacity, in which case the instrument has the additional marking;

Maximum subtractive tare

T = -9.995 kg

1.2 Variant 6

Displaying mass only with the indicator mounted on a stalk (Figure 8) and known as a model JK 704 aj.

This instrument may be used for retail counter use if it complies with Condition of Approval 1. Otherwise, it shall carry the additional marking;

NOT FOR RETAIL COUNTER USE

1.3 Variant 7

The pattern or variants with maximum capacity of 9.995 kg.

1.3.1 Markings

The markings are as for the pattern with the exception of maximum capacity which is marked accordingly.



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/40/209

VARIATION No 4

Pattern: Electronic Scales International Model Sumit JK 803 aj Weighing Instrument

Submittor: Bizerba Scales Australia Pty Ltd
53-55 Ramsden Street
Clifton Hill, Victoria, 3068.

1. Description of Variant 8

With a price-look-up (PLU) keyboard separate to the weighing instrument and which may be programmed with unit prices and, for non-weighed items, a fixed selling price.

The keyboard may be fitted with a display for product names and programming messages, and also with output sockets for the connection of auxiliary or peripheral devices.

7/10/83

6/40/209
15/2/84



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/40/209

VARIATION No 5

Pattern: Electronic Scales International Model Sumit JK 803 aj Weighing Instrument

Submittor: Bizerba Scales Australia Pty Ltd
53-55 Ramsden Street
Clifton Hill, Victoria, 3068.

1. Description of Variant 9

With auxiliary printers having integral price-look-up (PLU) facility, in which case non-numeric characters may be displayed in the unit price indicator until a product code has been selected and entered.

For example, when connected to the ESI CODIT printer, the characters "PC" appear. Other models will produce similar displays.



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/209

VARIATION No 6

Pattern: Electronic Scales International Model Sumit JK 803 aj Weighing Instrument

Submitter: Bizerba Scales Australia Pty Ltd
189 Grange Road
Fairfield Victoria 3078

1. Description of Variants

1.1 Variant 10

With the power supply unit remote from the instrument, in which case the instruments are known as the Eagle JK 800 series.

1.2 Variant 11

With a touch-pad keyboard.

1.3 Variant 12

With a diecast platter support.



NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4D/209

CHANGE No 1

The following changes are made to the description of the Electronic Scales International Model Summit JK 803 aj Weighing Instrument:

1. In Certificate of Approval No 6/4D/209 dated 16/10/82:

Variant 2.

Delete " ... a remote printer."

Add " ... the connection of peripheral equipment."

2. In Technical Schedule No 6/4D/209 dated 22/2/82:

2.2 Variant 2

Replace existing paragraph with the following:

"With an output socket for the connection of peripheral equipment."

Signed

Executive Director



NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4D/209

CHANGE No 2

The following change is made to the description of the Electronic Scales International Model Sumit JK 803 aj Weighing Instrument:

In Technical Schedule No 6/4D/209 dated 22/2/82, paragraph 1.2 Display Check,

Delete 4th and 5th lines and replace with,

"all lamps are illuminated."

Signed

Executive Director

This change gives a more accurate description of the display check function of the instrument.

15/7/83



NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4D/209

CHANGE No 3

The following changes are made to the approval documentation for the

Electronic Scales International Model Sumit JK 803 aj Weighing Instrument

submitted by Bizerba Scales Pty Ltd
53-55 Ramsden Street
Clifton Hill Vic 3068

In Technical Schedule No 6/4D/209 Variation No 3 dated 25/5/83, make the following amendments:

1. Change the description of variant 5 to read:

1.1 Variant 5

With semi-automatic push-button subtractive tare of 9.995 kg capacity, and known as the JK 800 series, in which case the instrument has the additional marking:

Maximum subtractive tare $T = -9.995 \text{ kg}$

2. Change the description of variant 6, first sentence, to read:

1.2 Variant 6

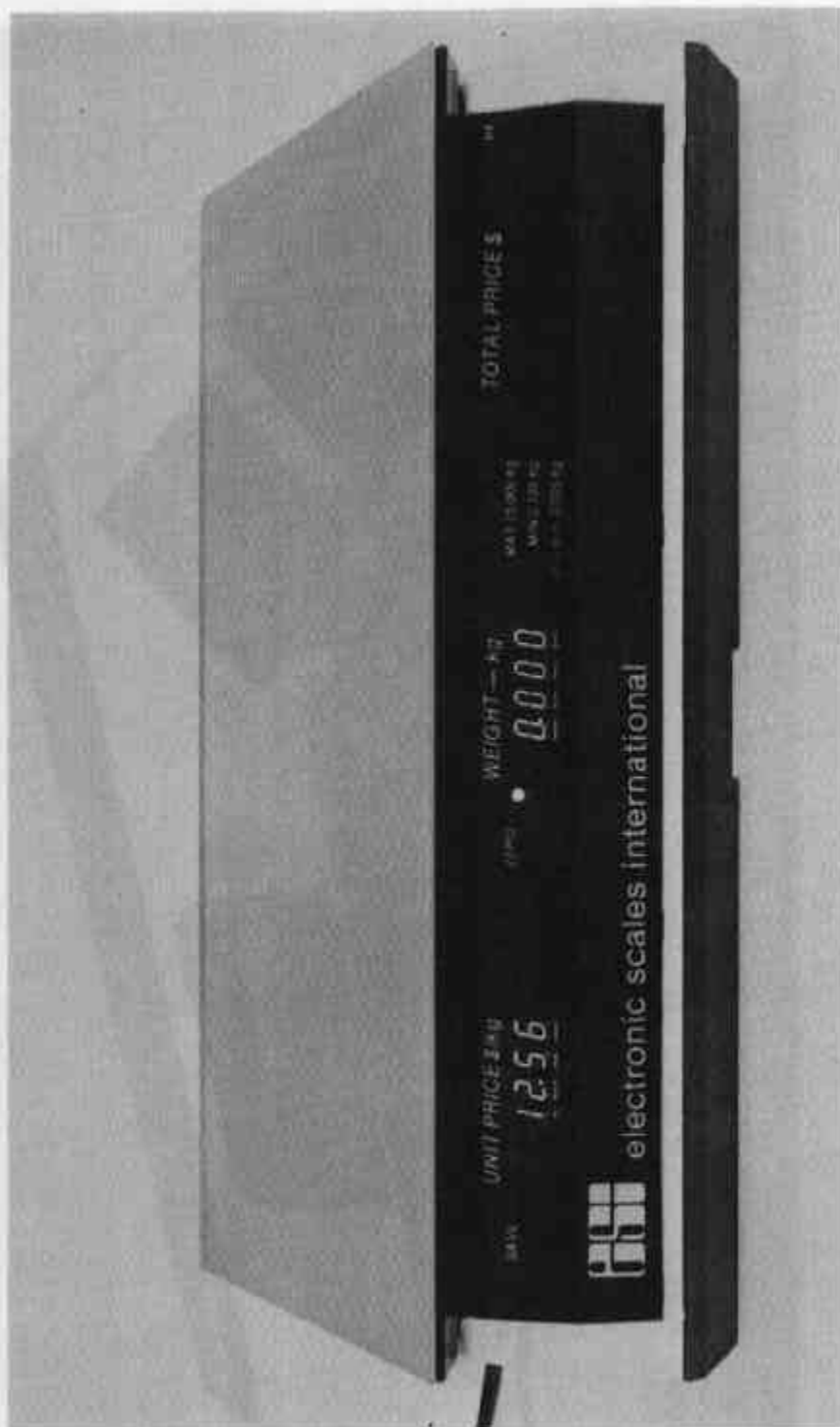
Displaying mass only with the indicator mounted on a stalk (Figure 8) and known as the JK 700 series.

Signed

A handwritten signature in cursive script, appearing to read 'K. Williams'.

Acting Executive Director

FIGURE 6/4D/209 - 2



ESI Model JK 803 o.j - Customers Side

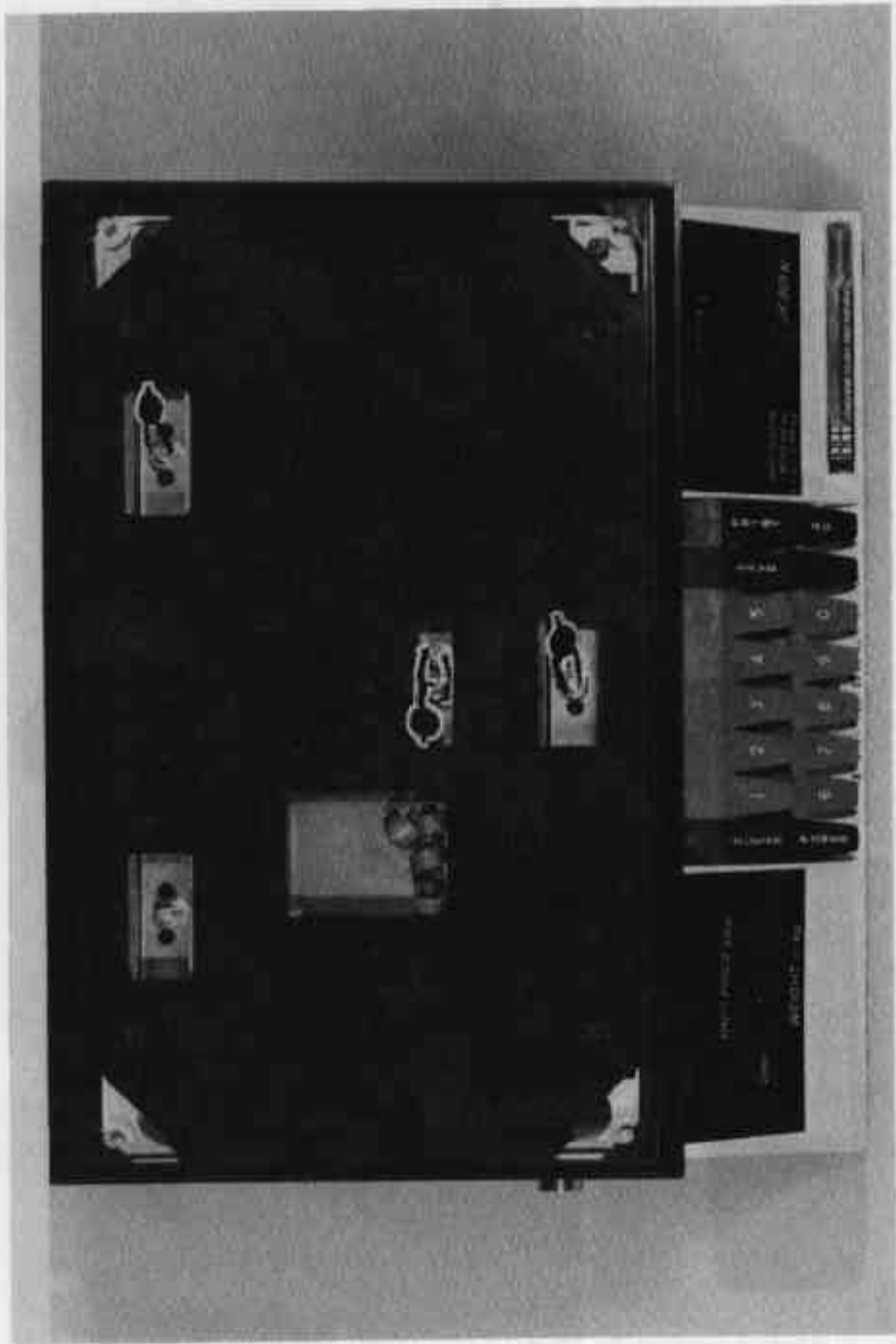
FIGURE 6/40/209 - 3



Model JK 803 0J - 3

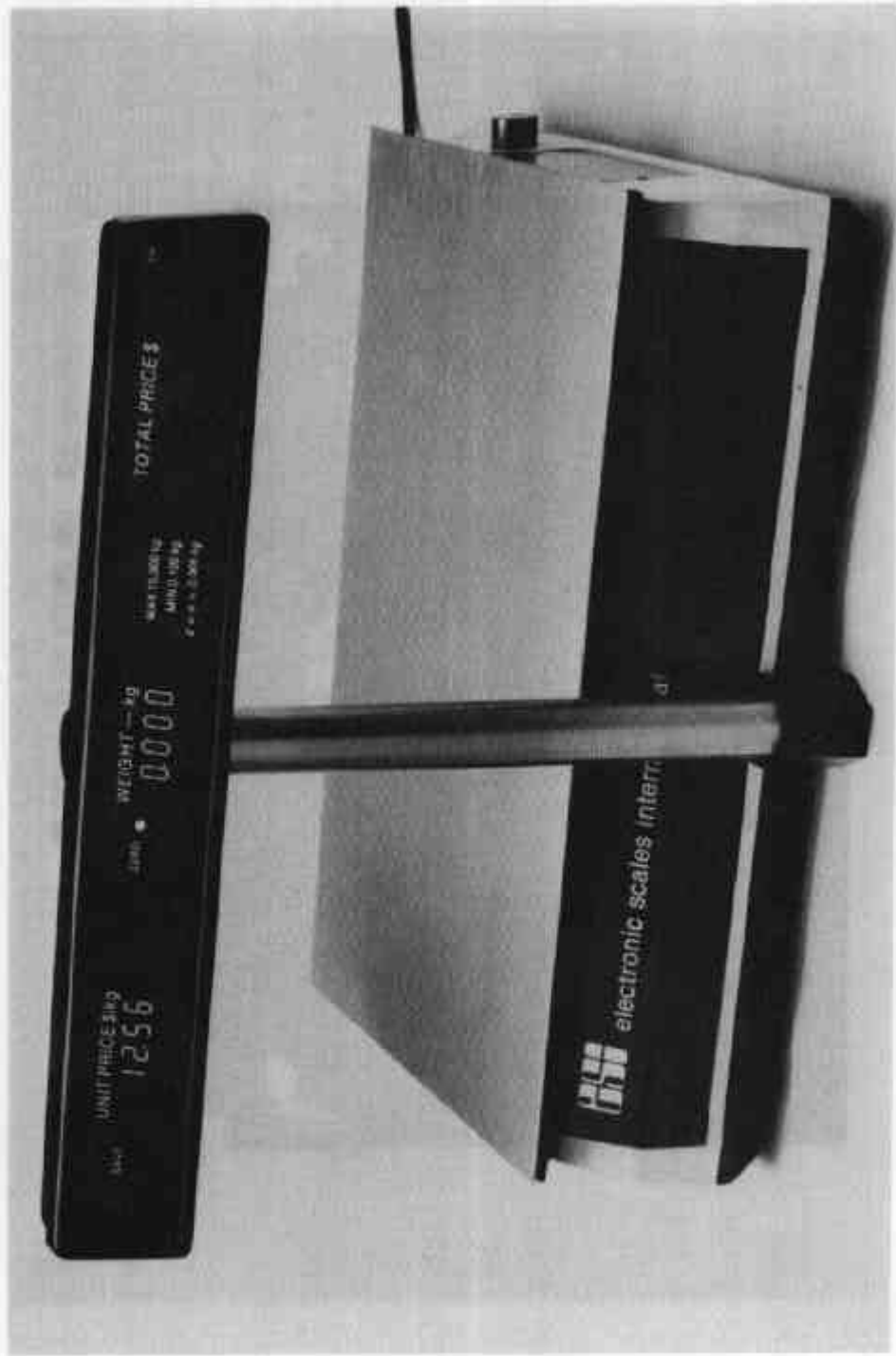
ESI Model JK 803 0J - Showing Nameplate

FIGURE 6/140/209 - 4



ESTI Model JK 803 aj - Showing Sealing

FIGURE 6/40/209 - 5

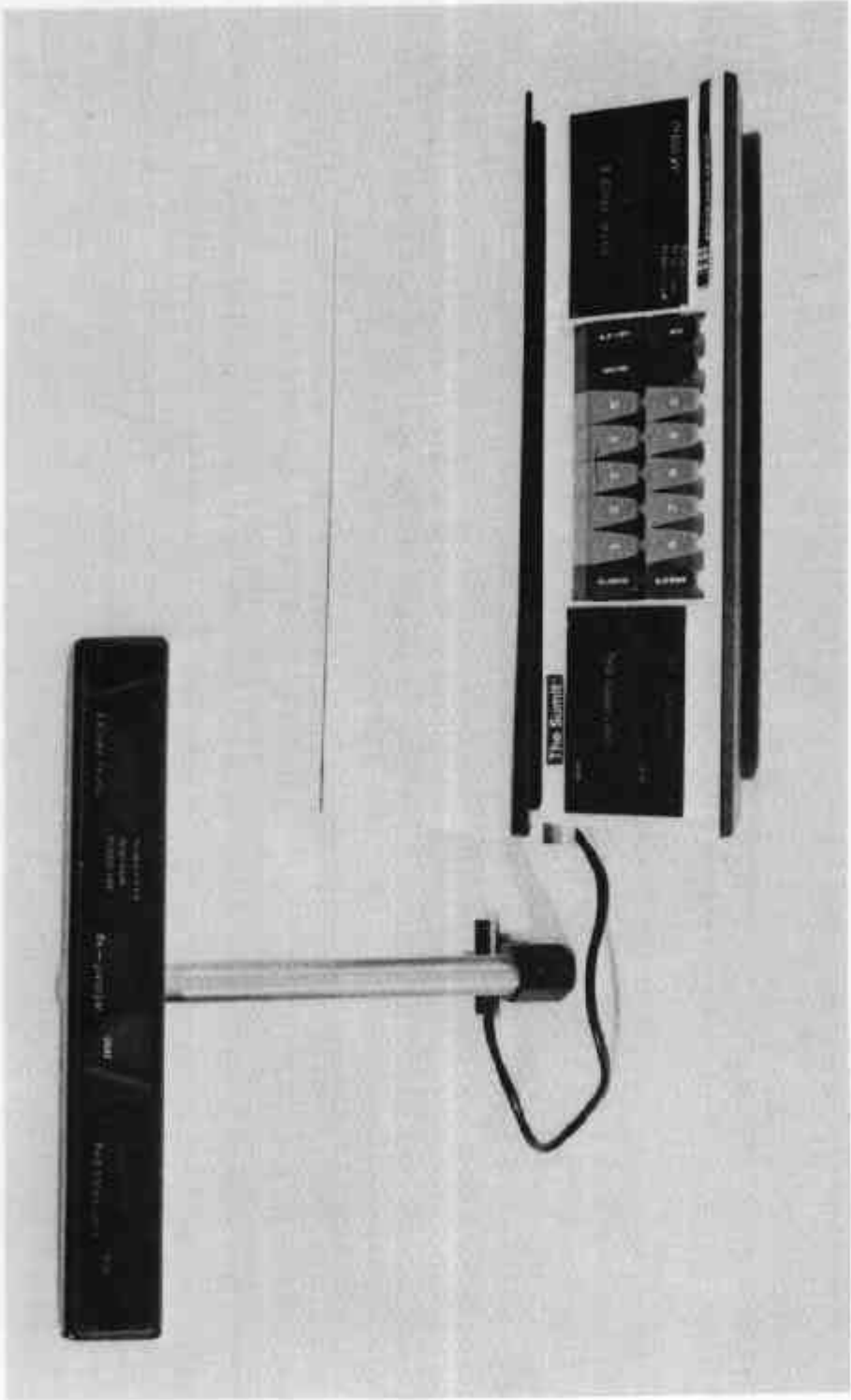


ESI Model 1 JK 803 e.j - Variant 1



VARIANT 3

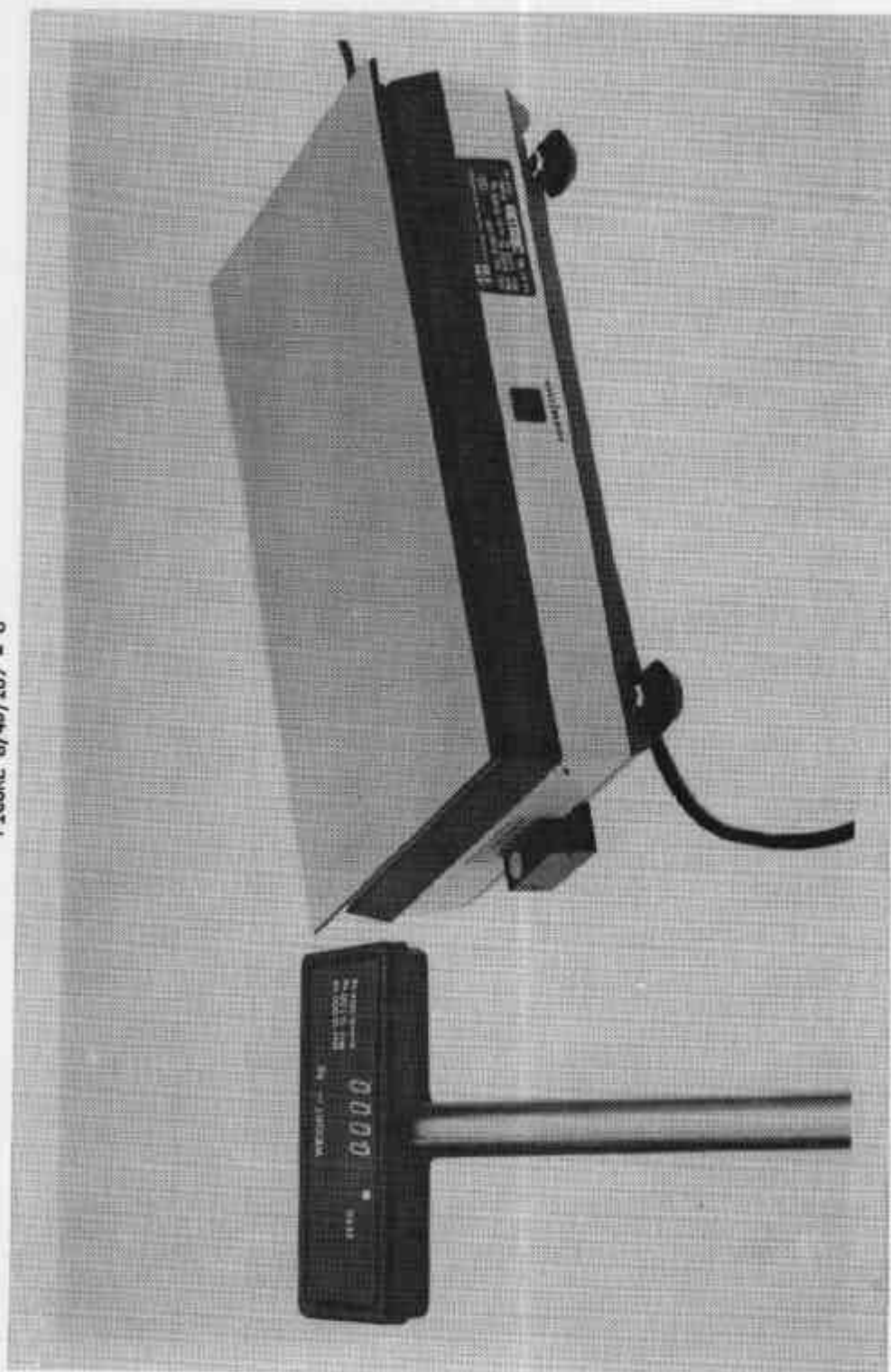
FIGURE 6/40/209 - 7



ESI Model JK803 aj With Remote Customer Display

16/10/82

FIGURE 6/40/209 - 8



With Mass Only Indicator On A Stalk

25/5/83