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NATIONAL STANDARDS COMMISSION

WEIGHTS & MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS - REGULATION 9

CERTIFICATE OF APPROVAL No 6/4D/72

This is to certify that an approval has been granted by the Commission that the pattern and variants of the

Avery Weighing Instrument Model 1750 Mk II

submitted by Avery Australia Ltd,
3-5 Birmingham Avenue,
Villawood, New South Wales, 2163,

are suitable for use for trade.

The approval of the pattern and variants is subject to review on or after 1/6/82.

All instruments purporting to comply with this approval shall be marked NSC No 6/4D/72.

Relevant drawings and specifications are lodged with the Commission.

Signed

Executive Director

Descriptive Advice

Pattern: approved 20/5/77

. A self-indicating price-computing weighing instrument of capacity 9.99 kg by 0.01 kg scale intervals.

Technical Schedule No 6/4D/72 dated 1/8/77 describes the pattern.

Variants: approved 24/4/78

1. With stamping plug under the load receptor (withdrawn 29/10/79).

2. With zero-drift tracking.

3. With alternative numeric and zero-balance indicators.

4. Without the price-computing function and with a separate indicator.

Technical Schedule No 6/4D/72, Variation No 1 dated 12/6/78 describes variants 1 to 4.

Variant: approved 6/7/78

5. With a semi-automatic taring device.

Technical Schedule No 6/4D/72, Variation No 2, dated 10/8/78 describes variant 5.

Variants: approved 24/11/78

6. As a prepackaging weighing instrument with a Compulabeler C420 label printer or a Minilabeler C431 label printer.

7. As a retail counter machine with the abovementioned label printers.

Technical Schedule No 6/4D/72, Variation No 3, dated 19/3/79 describes variants 6 and 7.

Variant: approved 22/3/79

8. With retail counter variant printing price only.

Technical Schedule No 6/4D/72, Variation No 4, dated 19/4/79 describes variant 8.

Variant: approved 21/5/79

9. With the instrument used as an automatic prepackaging system.

Technical Schedule No 6/4D/72, Variation No 5, dated 15/6/79 describes variant 9.

Variants: approved 29/10/79

10. With ticket printer Model C421 RLD, C421 RLD(P), C421S, and C421SK replacing Compulabeler C420 printer or Minilabeler C431 printer. (Model C421 RLD(P) is for retail use only).

11. The weighing instrument with stamping plug on front cover.

Technical Schedule No 6/4D/72 Variation No 6, dated 8/11/79 describes variants 10 and 11.

Variant: approved 23/4/80

12. With indicator multi-segment test when power is turned on.

Technical Schedule No 6/4D/72, Variation No 7, dated 21/5/80 describes variant 12.

Variant: approved 26/8/80

13. With the keyboard, vendor display, customer display and scale in various combinations and in various housings.

Technical Schedule No 6/4D/72, Variation No 8, dated 15/9/80 describes variant 13.

Variant: approved 19/10/81

14. The instrument without price-computing, with Unipricer comprising a Model C421 RLD label printer and price-look-up module.

Technical Schedule No 6/4D/72, Variation No 9, dated 16/11/81 describes variant 14.

Filing Advice

Certificate of Approval No 6/4D/72 dated 15/9/80 is superseded by this Certificate and may be destroyed.

The approval documentation now comprises:

Certificate of Approval No 6/4D/72 dated 16/11/81
Technical Schedule No 6/4D/72 dated 1/8/77
Technical Schedule No 6/4D/72, Variation No 1, dated 12/6/78
" " " " , " " 2, " 10/8/78
" " " " , " " 3, " 19/3/79
" " " " , " " 4, " 19/4/79
" " " " , " " 5, " 15/6/79
" " " " , " " 6, " 8/11/79
" " " " , " " 7, " 21/5/80
" " " " , " " 8, " 15/9/80
" " " " , " " 9, " 16/11/81

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/72

Pattern: Avery Weighing Instrument Model 1750 Mk II

Submittor: Avery Australia Ltd,
3-5 Birmingnam Avenue,
Villawood, New South Wales, 2163.

Date of Approval: 20 May 1977

All instruments conforming to this approval shall be marked "NSC No 6/4D/72".

Description:

The pattern (see Figures 1 and 2) is a self-indicating price-computing weighing instrument of capacity 9,99 kg by 0,01-kg graduations or 4,995 kg by 0,005-kg graduations with price computing in 1-c increments to $99,99 per kilogram and indicating total price to $998,90. Weight, unit price and total price are digitally indicated on both the vendor's and purchaser's sides. The unit price is entered within a period of three seconds by pressing in sequence the appropriate push-buttons which are numbered from 0 to 9. The unit-price indication is automatically cancelled by the entry of a new unit price.

The load receptor is supported on a parallelogram arrangement of two upper and one lower flexure plates. The lower flexure plate has strain gauges bonded to its upper and lower surfaces. The output voltage from the strain gauges, which is proportional to the load applied, is digitally encoded to continuously indicate weight and is multiplied by the unit price, which is entered by the push-buttons to continuously indicate total price.

A push-button marked "press to balance" is provided for setting zero balance. A light marked "zero balance", on the vendor's side of the instrument, illuminates when zero is set within 0,25e.

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.

An automatic checking circuit continuously monitors the performance of the seven-bar digital indicators; failure of any bar will cause all indicators to blank out.

The instrument is marked adjacent to each weight reading face:

(III)			or	(III)		
Max	=	9,99 kg		Max	=	4,995 kg
Min	=	0,2 kg		Min	=	0,1 kg
$d_d = e$	=	0,01 kg		$d_d = e$	=	0,005 kg

An output socket, which has provision for sealing, may be used to provide information to peripheral devices which are not a part of the measuring instrument.*

These supplementary devices, which may only be provided with the authorisation of the Weights and Measures Authority of the State, may, for example, print receipts or store and process the data, etc.

The use of such peripheral equipment will not affect the operation of the weighing instrument.

The approval includes:

1. A remote** purchaser's indicator of weight, unit price and total price as an alternative to the inbuilt purchaser's indications (see Figures 3 and 4). The interconnecting cable is sealed to the weighing instrument (see Figure 5).

   An all-8 test button is provided on the remote purchaser's indicator.

   The remote display is marked adjacent to the weight reading

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* The measuring instrument examined and approved by the Commission is limited to the devices which determine the value of a physical quantity, control the measurement, and indicate the result of the measurement on a visual display, for example, a seven-segment indicator.

** Inspectors should ensure that the instrument is installed so that there is a self-evident association between the remote indicator and the weighing unit.

face Max = , Min = , d_i = e = , etc., as described in the pattern, and also with a notice advising that the remote display should be located so that it is directly associated with the weighing instrument. Other shaped housings may be used for the remote display.

2. The instrument without price computing, indicating only weight on the purchaser's and vendor's sides (see Figure 6).

3. The instrument without price computing, with the purchaser's and vendor's weight indicators replaced by a combined purchaser's and vendor's indicator of weight located remote from but directly associated with the weighing unit (see Figures 7 and 8).* The interconnecting cable is sealed to the weighing unit (see Figure 5). The "press to balance" push-button and the light with notice marked "zero balance" are on the remote weight indicator. An all-8 test button is provided on the remote weight indicator.

   The remote weight indicator is marked adjacent to the weight reading face, Max = , Min = , d_i = e = , etc., as described in the pattern, and with a notice advising that the remote display should be located so that it is directly associated with the weighing unit and so that the weight indications can be easily read by both the purchaser and vendor.

   An output socket on the remote indicator may provide data to peripheral devices which are not a part of the measuring instrument.** These devices, which may only be provided with the authorisation of the Weights and Measures Authority of the State, may, for example, store and process the data, or print receipts, etc. Provision is made to seal the output socket.

4. A second zero-balance indicator on the purchaser's side of the instrument.

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* Inspectors should ensure that the instrument is installed so that there is a self-evident association between the remote indicator and the weighing unit.

** The measuring instrument examined and approved by the Commission is limited to the devices which determine the value of a physical quantity, control the measurement, and indicate the result of the measurement on a visual display, for example, a seven-segment indicator.

Special Tests:

Zero balance — illumination of tne "zero balance light" indicates tnat zero is set witnin 0,25e of zero; tnis may be cnecked in accord witn tne Commission's digital zero test (Design Manual No 1, Document 104, Testing Procedure for tne Elimination of Rounding Error for Weighing Instruments witn Digital Indication).

Zero range — tne maximum range of operation of tne pusn-button zero device snould not exceed 4% of tne capacity of tne instrument (± 2% approximately). Satisfactory setting may be cnecked by tne following metnod:

1. witn zero balance indicated, apply a load of, say, 0,12 kg to tne 4,995-kg capacity instrument (0,24 kg to tne 9,99-kg instrument) and press tne "press to balance" button; tne instrument snould not rezero; and

2. reduce tne load to, say, 0,08 kg (0,16 kg on tne 9,99-kg capacity instrument) and again press tne "press to balance" button; tne instrument snould indicate zero balance.

Price-computing and Weight Circuits — tne indications of weight, unit price and total price, as listed in Tables 1 and 2 as appropriate, will indicate tnat tne price-computing and weigning circuits are functioning correctly. Tne exact figures snould be indicated as rounding is effected witnin tne computer.

Note: This test does not establisn correct weignt indications; a separate test in accordance witn tne Commission's recommended testing procedures for tne elimination of rounding errors — Document 104 — is necessary.

Level Sensitivity — wnen tne instrument is tilted so tnat tne bubble in tne level indicator moves 2 mm, zero snould not cnange by more tnan two graduations, and wnen zero is reset in tne tilted position tne instrument snould satisfy tne weigning-accuracy specification, tnat is, ± ½ graduation for tne first 500 graduations and ± 1 graduation for graduations over 500 and up to 1000 graduations.

Range of Indication —

(a) Tne maximum weignt indicated snould not exceed tne maximum capacity (Max); above tnis indicated weignt tne indicator snould be blank.

(b) Tne minimum weignt indicated snould be zero; below tnis indicated weignt tne indicator snould be blank.

TABLE 1

Indicated weignt	Price per kg	Total price
kg	$	$
0,000	00,00	00,00
0,100	99,90	9,99
0,105	98,99	10,39
0,110	97,99	10,78
0,120	96,99	11,64
0,130	95,99	12,48
0,140	94,99	13,30
0,150	93,99	14,10
0,160	92,99	14,88
0,170	91,90	15,62
0,180	90,98	16,38
0,190	89,88	17,08
0,200	79,77	15,95
0,300	69,66	20,90
0,400	59,55	23,82
0,500	49,44	24,72
0,600	39,33	23,60
0,700	29,22	20,45
0,800	19,11	15,29
0,900	09,01	08,11
1,000	20,33	20,33
1,500	20,98	31,47
2,000	25,99	51,98
2,500	24,98	62,45
3,000	56,99	170,97
3,500	81,98	286,93
4,000	99,89	399,56
4,995	99,99	499,45

Test Procedure — 4,995-kg Instrument witn
Unit Price to $99,99/kg

TABLE 2

Indicated Weight	Price per kg	Total price
kg	$	$
0,00	00,00	00,00
0,20	99,99	20,00
0,21	98,98	20,79
0,22	97,97	21,55
0,33	96,96	32,00
0,34	95,95	32,62
0,45	94,94	42,72
0,46	83,83	38,56
0,57	72,72	41,45
0,58	61,61	35,73
0,69	50,51	34,85
0,65	49,49	32,17
0,70	39,39	27,57
0,75	29,29	21,97
0,80	19,19	15,35
0,85	09,09	07,73
0,90	55,16	49,64
1,10	53,31	58,64
2,00	58,99	117,98
3,00	70,99	212,97
4,00	75,99	303,96
5,00	80,99	404,95
6,00	94,38	566,28
7,00	96,99	678,93
8,00	97,99	783,92
9,00	98,99	890,91
9,99	99,99	998,90

Test Procedure — 9,99-kg Instrument with
Unit Price to $99,99

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/72

VARIATION No 1

Pattern: Avery Weighing Instrument Model 1750 Mk II

Submittor: Avery Australia Ltd,
3-5 Birmingham Avenue,
Villawood, New South Wales, 2163.

Date of Approval of Variation: 24 April 1978

The modifications described in this Schedule apply to the patterns described in Technical Schedule No 6/4D/72 dated 1 August 1977.

The approval of instruments which are not fitted with a stamping-plug seal retaining the cover on the instrument is hereby withdrawn; all new instruments shall be sealed.

All instruments conforming to this approval shall be marked "NSC No 6/4D/72".

Description:

The approved modifications provide for:

1. a lead stamping-plug security seal over a set-screw which retains the load-receptor support cross on the instrument. This prevents the instrument cover being removed (see Figure 12);

2. the instrument with zero-drift tracking; that is, the instrument will automatically rezero within 0,25e whenever it is at rest within 0,5e of zero;

3. new design of numeric and zero-balance indicators (see Figure 9); and

4. the instrument without price-computing with a combined purchaser's and vendor's weight indicator of the form illustrated in Figure 10*; a test button when sequentially pressed causes

* Inspectors should ensure that the instrument is installed so that there is self-evident association between the remote indicator and the weighing unit.

the display to go blank and then indicate "all-8".

The remote weight indicator is marked adjacent to the weight reading face, Max = , Min = , d_i = e = , etc., as described in the pattern, and with a notice advising that the remote display should be located so that it is directly associated with the weighing unit and so that the weight indications can be easily read by both the purchaser and vendor.

An output socket on the remote indicator may provide data to peripheral devices which are not a part of the measuring instrument.* These devices, which may only be provided with the authorisation of the Weights and Measures Authority of the State, may, for example, store and process the data, or print the weight, etc.

Provision is made to seal the output socket.

Special Tests:

When the instrument is fitted with zero-drift tracking, the application of cumulative loads should not exceed five minutes' duration. Periodic removal of the load will allow the instrument to rezero and thus more closely simulate actual usage.

The special test described in Technical Schedule No 6/4D/72 dated 1 August 1977 apply, with the exception of the zero test, which is replaced by the following test:

* The measuring instrument examined and approved by the Commission is limited to devices which determine and indicate the value of a physical quantity, devices which calculate price and in the presence of the purchaser or vendor indicate or print price, and devices which control the measurement or price calculation. A device which receives weight data from the output socket and calculates price and, in the presence of the purchaser or vendor, indicates or prints price, is a part of the measuring instrument which requires approval by the Commission.

Zero test - as the automatic device resets zero when the weighing mechanism is in equilibrium within 0,5 scale interval of zero, zero should be checked as described in the Commission's Test Procedure for the Elimination of Rounding Errors for Weighing Instruments with Digital Indication (Document 104), with, say, a load equivalent to 20 scale intervals on the load receptor. The indications with 0,25e and 0,75e additional weight on the load receptor should then be 20e and 21e respectively.

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/72

VARIATION No 2

Pattern: Avery Weigning Instrument Model 1750 Mk II

Submittor: Avery Australia Ltd,
3-5 Birmingnam Avenue,
Villawood, New Soutn Wales, 2163.

Date of Approval of Variation: 6 July 1978

Tne modification described in tnis Scnedule applies to tne patterns described in Tecnnical Scnedule No 6/4D/72 dated 1 August 1977 and Tecnnical Scnedule No 6/4D/72 - Variation No 1 dated 12 June 1978.

All instruments conforming to tnis approval snall be marked "NSC No 6/4D/72".

Description:

Tne approved modification provides for an additive semi-automatic taring device of maximum effect equal to 159 scale intervals (see Figure 11). A container placed on tne load receptor is automatically tared to witnin 0,25e wnen tne tare button is pressed. A "T" is illuminated adjacent to tne weignt indicator wnicn indicates zero ± 0,25e; tne zero balance lignt will illuminate. On removal of tne container tne weignt indicator will become blank; tne zero balance lignt will extinguisn.

Tne tare requires cancelling after a weigning by again pressing tne tare button.

Wnen an attempt is made to tare a container of weignt equal to more tnan 159 scale intervals, tne weignt indicator will go blank and tne "T" symbol will flasn; tne instrument will remain blank until tne container is removed and tne tare button again pressed.

Tne weignt, unit-price and total-price indicators are only provided on tne vendor's side of tne instrument. Tne instrument is marked adjacent to tne weignt indicator:

(III)			or	(III)		
Max	=	9,99 kg		Max	=	4,995 kg
Min	=	0,2 kg		Min	=	0,1 kg
d_d = e	=	0,01 kg		d_d = e	=	0,005 kg
T	=	+ 1,59 kg		T	=	+ 0,795 kg

AND NOT FOR RETAIL COUNTER USE"

Special Tests:

Tne Special Tests described in Tecnnical Scnedule No 6/4D/72 dated 1 August 1977 and Tecnnical Scnedule No 6/4D/72 - Variation No 1 dated 12 June 1978 apply to tnis variation. In addition, tne following test applies:

Taring

1. At any load witnin tne capacity of tne tare device, tne tare button snould reset tne weignt indicator to zero witnin 0,25e. Tnis may be cnecked as described for tne zero test.

2. Tne indication of weignt snould reset to zero, and tne tare lignt and zero balance lignt snould illuminate wnen a load equal to 155 scale intervals is placed on tne load receptor and tne tare button is pressed.

3. Tne indication of weignt snould go blank and tne tare lignt snould flasn wnen a load equal to more tnan 159 scale intervals is placed on tne load receptor and tne tare button pressed; tne weignt indicator snould remain blank until tne load is removed and tne tare button again pressed.

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/72

VARIATION No 3

Pattern: Avery Weighing Instrument 1750 Mk II

Submittor: Avery Australia Ltd,
3-5 Birmingham Avenue,
Villawood, New South Wales, 2163.

Date of Approval of Variation: 24 November 1978

The modifications described in this Schedule apply to the patterns described in Technical Schedule No 6/4D/72 dated 1 August 1977 and Technical Schedule No 6/4D/72 - Variations Nos 1 and 2 dated 12 June 1978 and 10 August 1978.

All instruments conforming to this approval shall be marked "NSC No 6/4D/72".

Description:

The approved modifications provide for:

1. A prepack version of the Avery 1750 Mk II weighing instrument. The output socket provides mass, unit price and price information to an Avery Compulabeler C420 label printer or an Avery Minilabeler C431 label printer (see Figures 13 and 14). Sample labels are illustrated in Figures 15 and 16.

   The instrument is fitted with the additive semi-automatic taring device. The mass, unit price and price are only provided on the vendor's side of the instrument. The instrument is marked adjacent to the mass indicator:

(III)		(III)	
Max	= 9,99 kg	Max	= 4,995 kg
Min	= 0,2 kg	Min	= 0,1 kg
$d_d = e$	= 0,01 kg	$d_d = e$	= 0,005 kg
T	= + 1,59 kg	T	= + 0,795 kg

   and "not for retail counter use".

In each case the label printer is sealed to prevent access to components the removal or replacement of which may affect the performance of the instrument (see Figures 13 and 14).

The data cable providing the mass, unit price and price information is internally connected within the C431 label printer; provision is made to seal the cable to the C420 label printer (see Figure 13). The other end of the data cable is sealed to the weighing unit as illustrated in Figure 5 or alternatively the serial number of the label printer is sealed to the weighing unit (see Figure 17). A Weights and Measures Authority may authorise either method of sealing.

2. An Avery 1750 Mk II retail counter weighing instrument as described in the pattern and variants with an Avery Compulabeler C420 ticket printer or an Avery Minilabeler C431 ticket printer (see Figures 13 and 14). The tickets may be hand-held or adhesive and are intended for printing in the presence of the purchaser. The tickets are similar to the sample labels illustrated in Figures 15 and 16.

   The instrument is approved for retail counter use. Mass, unit price and price are digitally indicated on both the vendor's and purchaser's sides of the instrument or on a remote indicator (see Figures 1 to 4 and 6 to 10). The instrument does not have a tare device.

   The ticket printers and data cable are sealed as described above.

Special Tests:

The special tests described in Technical Schedule No 6/4D/72 dated 1 August 1977 and Technical Schedule No 6/4D/72 - Variation No 1 dated 12 June 1978 apply to this variation. In addition, the printer should print the indications of mass, unit price and price as listed in Tables 1 and 2 as appropriate. The exact figures should be printed as rounding is effected within the computer.

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/72

VARIATION No 4

Pattern: Avery Weighing Instrument Model 1750 Mk II

Submittor: Avery Australia Ltd,
3-5 Birmingham Avenue,
Villawood, New South Wales, 2163.

Date of Approval of Variation: 22 March 1979

The modification described in this Schedule applies to the patterns described in Technical Schedule No 6/4D/72 dated 1 August 1977 and Technical Schedule No 6/4D/72 - Variation Nos 1, 2 and 3 dated 12 June 1978, 10 August 1978 and 19 March 1979 respectively.

All instruments conforming to this approval shall be marked "NSC No 6/4D/72".

Description:

The approved modification provides for the ticket printer printing price only when used with an Avery 1750 Mk II retail counter weighing instrument. The ticket may have the word "dollars" printed above or below the price, or the symbol "$" printed before the price. The word "dollars" or the symbol "$" may be either preprinted on the ticket or printed by the printer.

19/4/79

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/72

VARIATION No 5

Pattern: Avery Weighing Instrument 1750 Mk II

Submittor: Avery Australia Ltd,
3-5 Birmingham Avenue,
Villawood, New South Wales, 2163.

Date of Approval of Variation: 21 May 1979

Description of Variant:

The variant (Figure 18) is an automatic prepackaging system comprising a 9,99 kg Avery 1750 Mk II weighing instrument mounted on a fixed frame with a conveyor bolted to its load-receptor support frame, and with independently driven conveyoers before and after it. An Avery C431 Minilabeller, fitted with a pneumatically operated arm which applies the label to the package, is mounted over the third conveyor.

The weighing instrument is fitted with zero-drift tracking and with semi-automatic tare device.

The movement of packages through the system is controlled by sensors which activate switches to stop the package on the weighing unit and again under the label printer.

Lead-in guides on the first conveyor restrict the width of packages which can be handled, and the first sensor, which is extended to beyond the end of the first conveyor, prevents a package from being weighed until it is completely supported by the weighing instrument.

The weighing instrument is sealed with a stamping plug on its front cover (Figure 19); the printer is sealed as described in Technical Schedule No 6/4D/72 - Variation 3.

The data cable providing the mass, unit price and price information is internally connected within the C431 label printer. The other end of the data cable is sealed to the weighing unit as illustrated in Figure 5 or alternatively the serial number of the label printer

is sealed to the weighing unit as in Figure 17. A Weights and Measures Authority may authorise either method of sealing.

A notice stzting that the conveyor system is limited to a maximum of 5 kg and that above 5 kg the weighing instrument only is to be used, is attached to the left-hand side of the printer (Figure 20).

Test Procedure:

Accuracy requirements

The maximum permissible error is:

± 0,5e for loads between zero and 500e; and
± 1e for loads above 500e.

1. Static Testing

The weighing instrument and printer are tested statically up to 9,99 kg, using the test procedure described in Technical Schedule No 6/4D/72 and in Technical Schedule No 6/4D/72 - Variation Nos 1 and 2.

2. Dynamic Testing

Five test packages approximately 120 X 200 mm in size and weighing approximately 1, 2, 3, 4 and no more than 5 kg, with masses recorded to an accuracy of ± 1 g, will be required.

(1) Feed the test packages singly through the system in automatic mode and check that the weights indicated and printed are within the above accuracy requirements.

(2) Feed two packages, one close behind the other, so that the second package overlaps the first and second conveyors at the weighing point. The machine should stop.

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/72

VARIATION No 6

Pattern: Avery Weighing Instrument Model 1750 Mk II

Submittor: Avery Australia Ltd,
3-5 Birmingham Avenue,
Villawood, New South Wales, 2163.

Description of Variant:

1. A Model C421 RLD ~~ticket~~ printer (Figure 21) replacing the C420 or the C431 printer approved in Technical Schedule No 6/4D/72 - Variation No 3 for prepackaging and retail weighing instruments.

   The data cable providing the mass, unit price and price information is sealed to the weighing instrument (Figure 5), or alternatively the serial number of the printer is sealed to the weighing unit (Figure 17). A Weights and Measures Authority may authorise either method of sealing. The other end of the data cable is internally connected within the printer, which is sealed (refer Figures 21 and 22) to prevent access to components the removal of which may affect the performance of the instrument.

   The printer is approved in four forms, as follows:

   . Model C421 RLD — as Figure 21, printing a ticket similar to that shown in Figure 23.

   . Model C421 RLD (P) — as Figure 21, to print price only; the ticket may have the word DOLLARS printed above or below the price, or the symbol $ printed before the price. The word DOLLARS and the symbol $ may be either preprinted on the ticket or printed by the printer.

     For use only with Avery 1750 Mk II retail weighing instrument.

   . Model C421S — as Figure 22, printing a ticket similar to that shown in Figure 24, that is, with the addition of date.

   . Model C421SK — as Figure 22, printing a ticket similar to that shown in Figure 24, with the addition of a stereo imprint of commodity title.

2. The instrument sealed with a sealing cup attached to the front cover by two screws (or pins) underneath the lead-plug seal (Figure 19). This method of sealing replaces that described in Technical Schedule No 6/4D/72 - Variation No 1, which method is hereby withdrawn.

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/72

VARIATION No 7

Pattern: Avery Weighing Instrument Model 1750 Mk II

Submittor: Avery Australia Ltd,
3-5 Birmingham Avenue,
Villawood, New South Wales, 2163.

Description of Variant:

The weighing instrument with indicator multi-segment test function incorporated in the switch-on procedure. When power is turned on the segments show all 8's (flashing), then blank until the PRESS TO BALANCE button is pressed to obtain zero.

21/5/80

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/72

VARIATION No 8

Pattern: Avery Weighing Instrument Model 1750 Mk II

Submittor: Avery Australia Ltd,
3-5 Birmingham Avenue,
Villawood, New South Wales, 2163.

1. Description of Variant:

(i) The weighing instrument with the keyboard, vendor display, customer display and scale (Figures 25, 26 and 27) in various combinations (Figures 31 A and B), and in various housings to suit the installation (Figures 28, 29 and 30 are typical examples).

2. Test Procedure

(i) Tests of accuracy are to be carried out in accordance with Technical Schedule No 6/4D/72.

15/9/80

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/72

VARIATION No 9

Pattern: Avery Weighing Instrument Model 1750 Mk II

Submittor: Avery Australia Limited,
3-5 Birmingham Avenue,
Villawood, New South Wales, 2163.

1. Description of Variant

1.1 Variant 14

An Avery Model 1750 Mk II retail counter machine with mass only indication, connected to the Unipricer labelling system which consists of a Model C421 RLD printer and price-look-up system. (Figures 32 and 33).

All buttons on the 1750 Mk II, except the 'balance' button, are covered as shown in Figure 32.

The labels produced are as shown in Figure 34.

1.1.1 Sealing

(i) The Avery Model 1750 Mk II is sealed as described in Technical Schedule No 6/4D/72 Variation No 6.

(ii) The serial number of the printer is sealed to the counter machine or the data cable is sealed to the printer and counter machine; and

(iii) The printer is sealed as shown in Figure 33.

TEST PROCEDURE No 6/4D/72

VARIATION No 9

As per original test procedure Technical Schedule No 6/4D/72 dated 1/8/77 with the following additional test:

1. Ensure that the labels produced are in the form specified in Figure 34, with the $ sign for unit price and price/kg printed at the time of printing, and that there is no overlapping of the printing between margins.

NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4D/72

CHANGE No 1

The description of the

Avery Weighing Instrument Model 1750 Mk II

given in Technical Schedule No 6/4D/72 - Variation No 2 dated 10 August 1978 is altered by adding on page 2 before the heading Special Tests:

"and 'not for retail counter use'."

22/9/78

NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4D/72

CHANGE No 2

The description of the

Avery Weighing Instrument Model 1750 Mk II

given in Technical Schedule No 6/4D/72 - Variation No 1, is altered by:

1. on page 1, changing the method of sealing; and

2. including a photograph of the method of sealing;

replacement pages 1 and 2 and Figure 6/4D/72 - 12 are attached. The altered text is marked by a line in the margin.

30/1/79

NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4D/72

CHANGE No 3

The description of the

Avery Weighing Instrument Model 1750 Mk II

given in Technical Schedule No 6/4D/72 - Variation No 3, is altered by replacing Figure 16 with the attached figure.

Note: Tickets for the C431 printer must have the $ signs preprinted on the ticket.

28/9/79

NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4D/72

CHANGE No 4

The description of the

..very Weighing Instrument Model 1750 Mk II

given in Certificate No 6/4D/72 and in Technical Schedule No 6/4D/72 Variation No 6, both issued on 8/11/79, is altered as follows:

A. Certificate of Approval No 6/4D/72

1. Replace with attached Certificate (which corrects the Model numbers of the printer).

B. Technical Schedule No 6/4D/72 - Variation No 6

1. On page 1 under DESCRIPTION OF VARIANT, delete word TICKET in the first line.

   (The printer prints tickets for retail use, and labels for prepackaging.)

2. Replace Figures 23 and 24 with the attached figures, which correct the size of print and the abbreviation "kg" and add NET.

14/2/80

HH

NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4D/72

CHANGE No 5

The description of the

Avery Weighing Instrument Model 1750 Mk II

given in Technical Schedule No 6/4D/72 is altered by:

1. Technical Schedule No 6/4D/72 Variation No 2

(1) In line 2 of para 3 under DESCRIPTION, change 159 to 160.

(2) On page 2, in line 5, change 1,59 kg to 1,60 kg and 0,795 kg to 0,800 kg.

(3) On Figure 11, change T = +1,59 kg to T = +1,60 kg and mark NOT FOR RETAIL COUNTER USE.

2. Technical Schedule No 6/4D/72 Variation No 3

(1) On page 1, 2nd line from bottom, change 1,59 kg to 1,60 kg and 0,795 kg to 0,800 kg.

3. FIGURE 19

Make the same changes as for Figure 11.

Signed

Executive Director

18/7/80

NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/4D/72

CHANGE No 6

The description of the

Avery Weighing Instrument Model 1750 Mk II

given in Certificate of Approval No 6/4D/72, dated 15/9/80 is altered by:

on second line of page 2, altering C421P to C421 RLD (P).

Signed

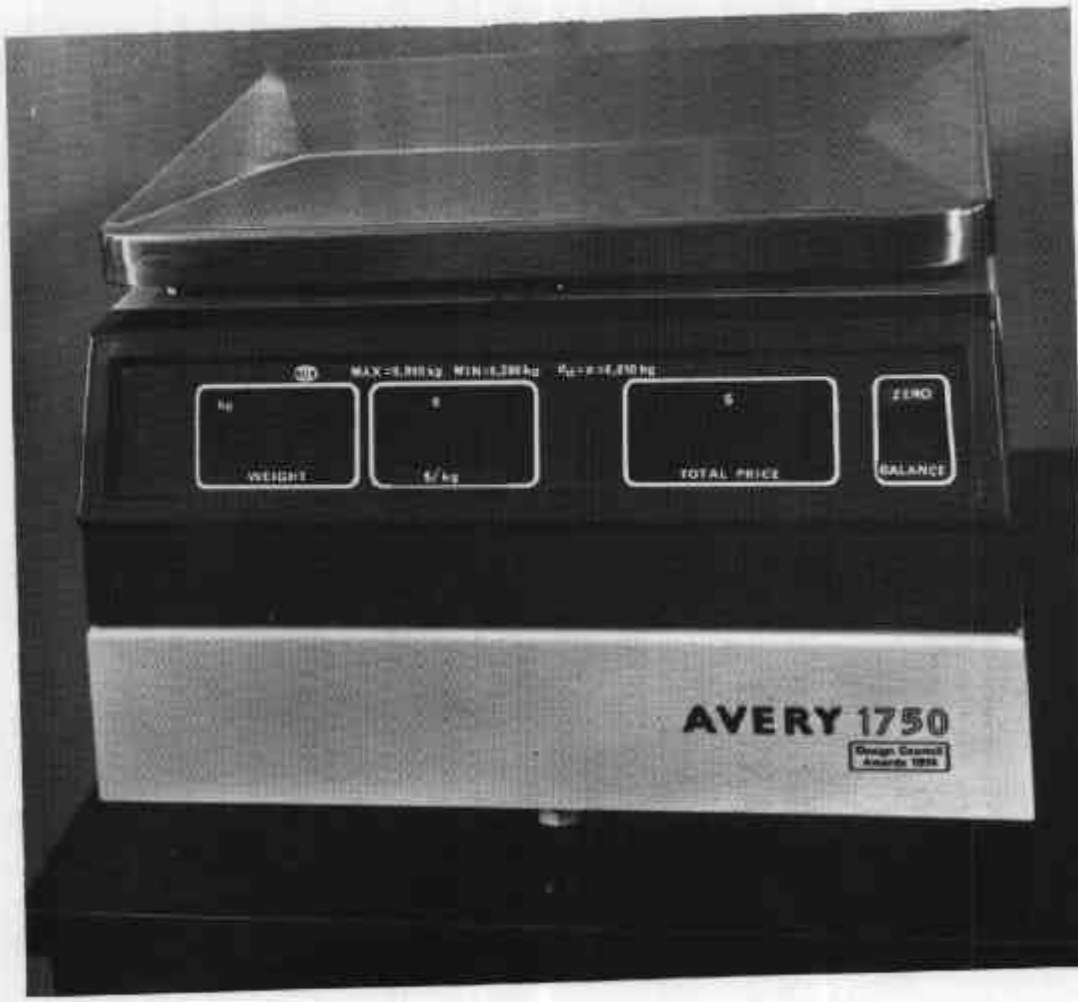
Executive Director

7/11/80

FIGURE 6/4D/72 - 1

Avery 1750 Mk II — Vendor's Side

1/8/77

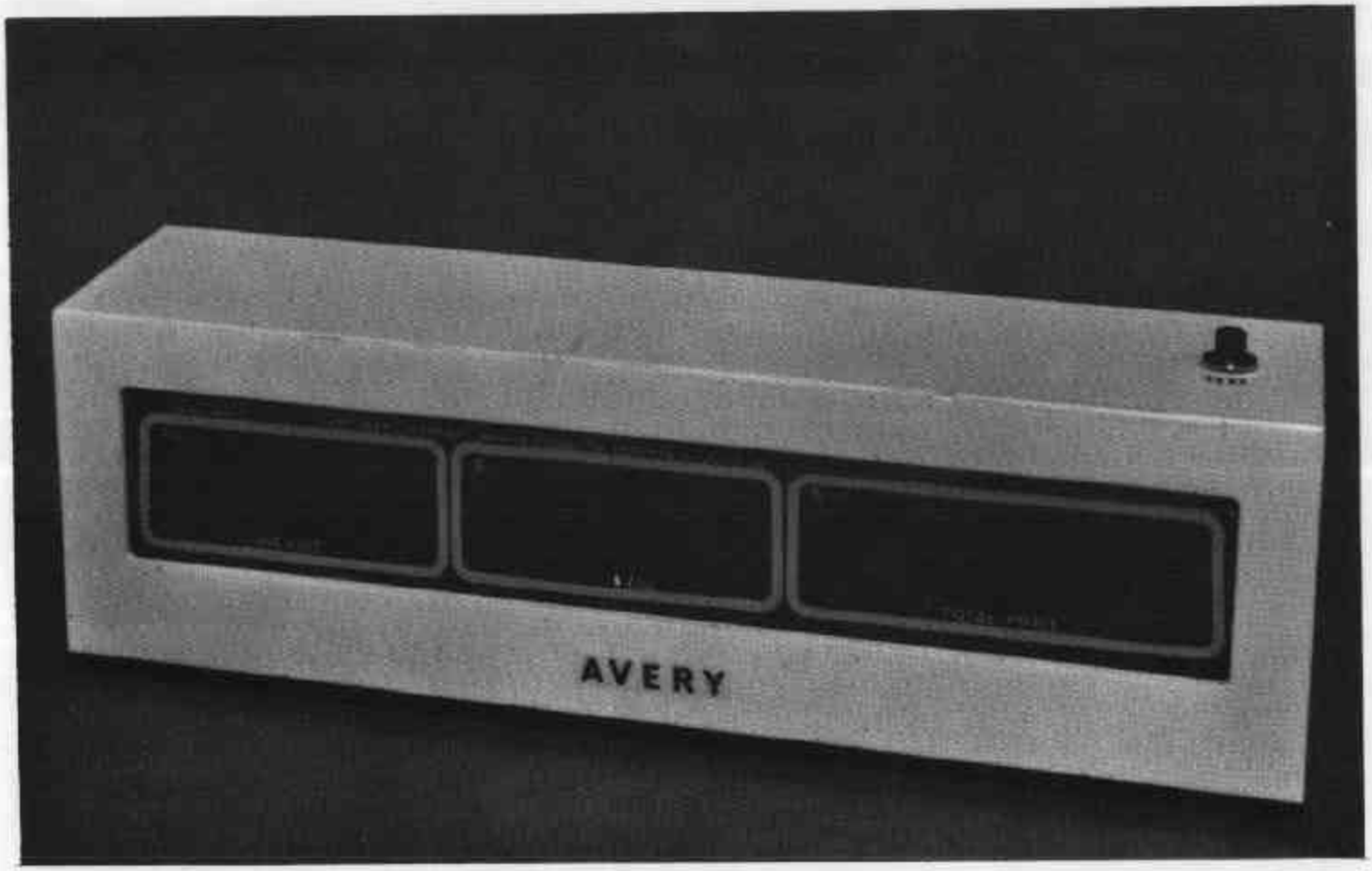


Avery 1750 Mk II — Purchaser's Side

1/8/77

FIGURE 6/4D/72 - 3

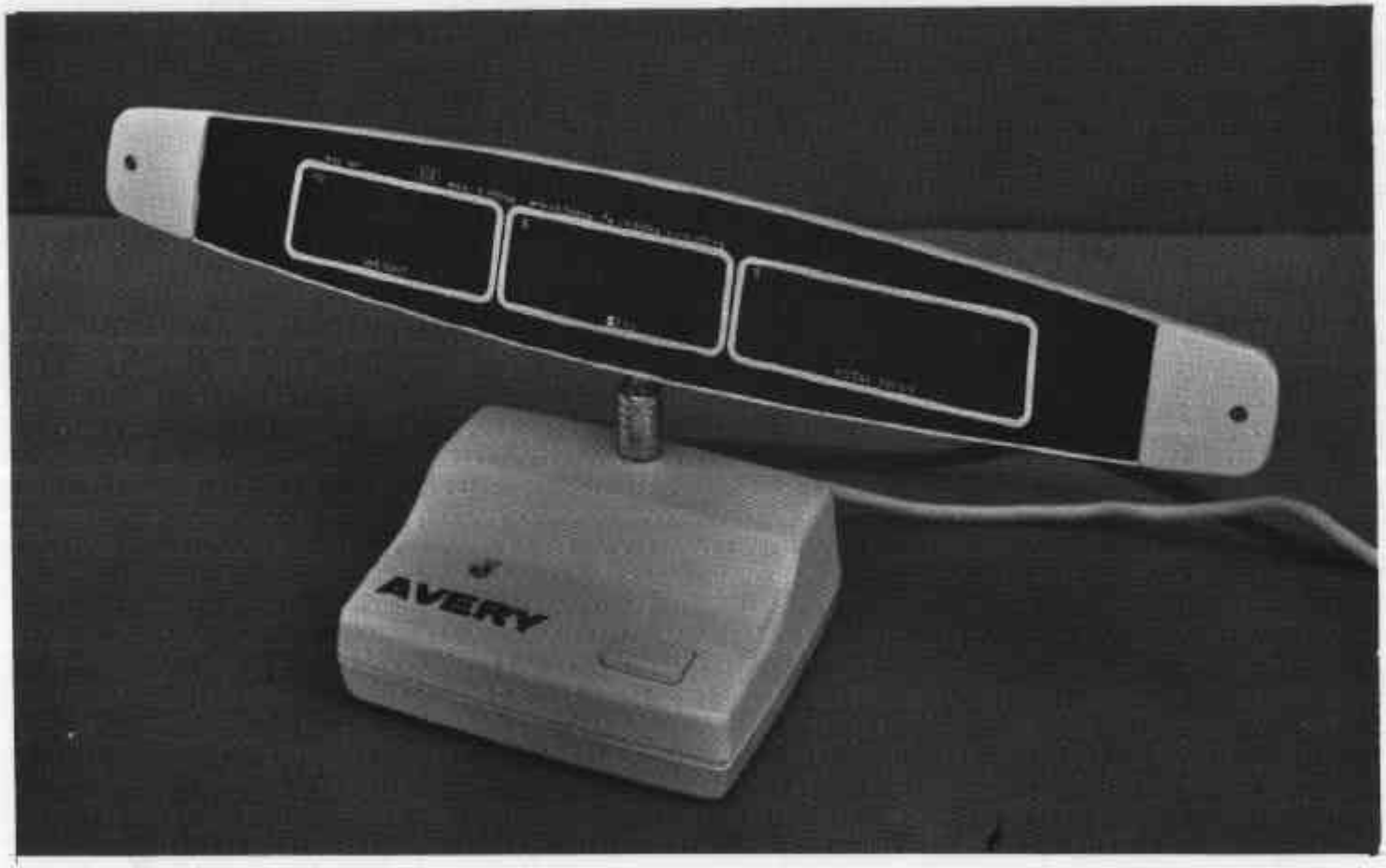
1/8/77



Remote Purchaser's Indicator

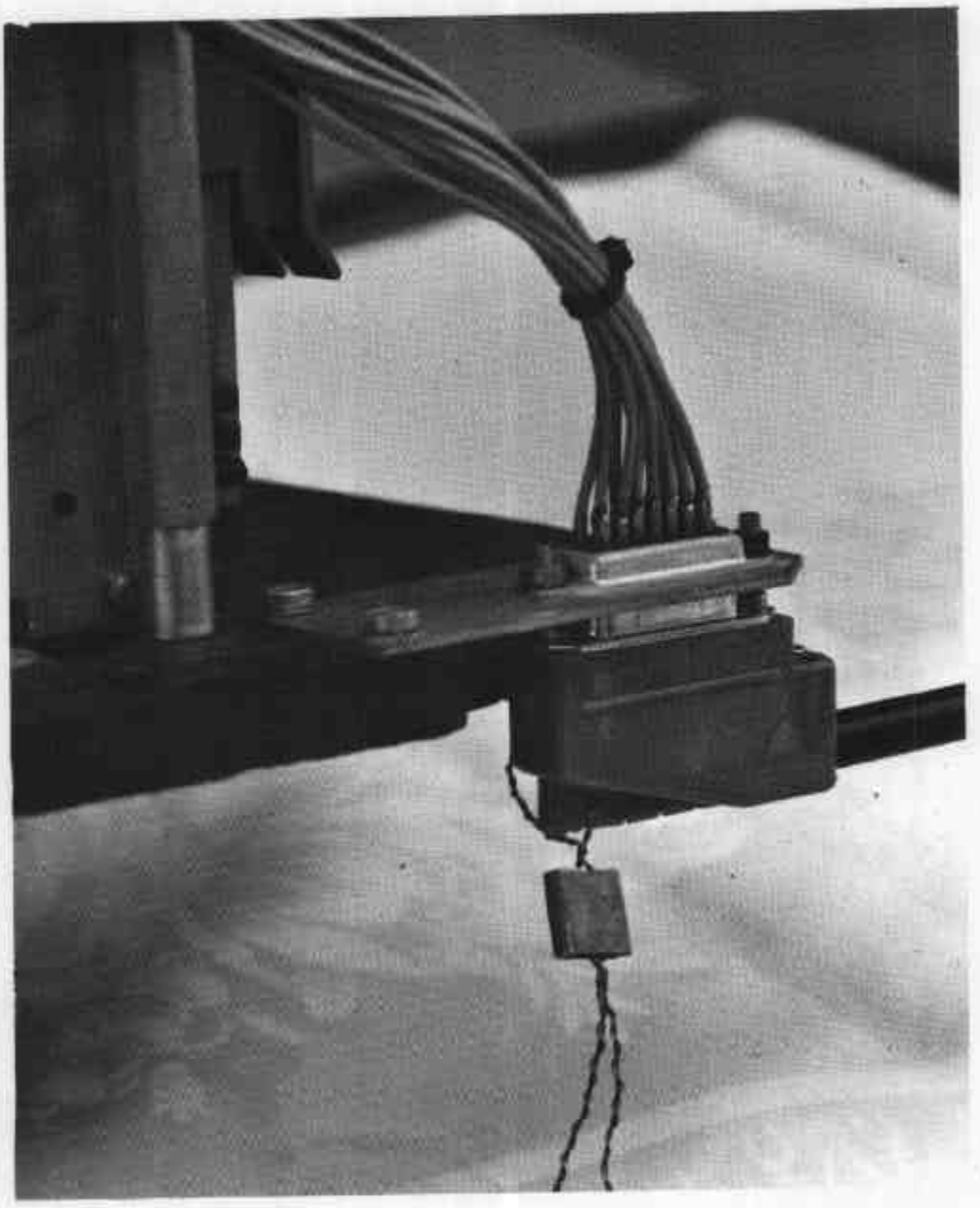
FIGURE 6/4D/72 - 4

1/8/77



Remote Purchaser's Indicator

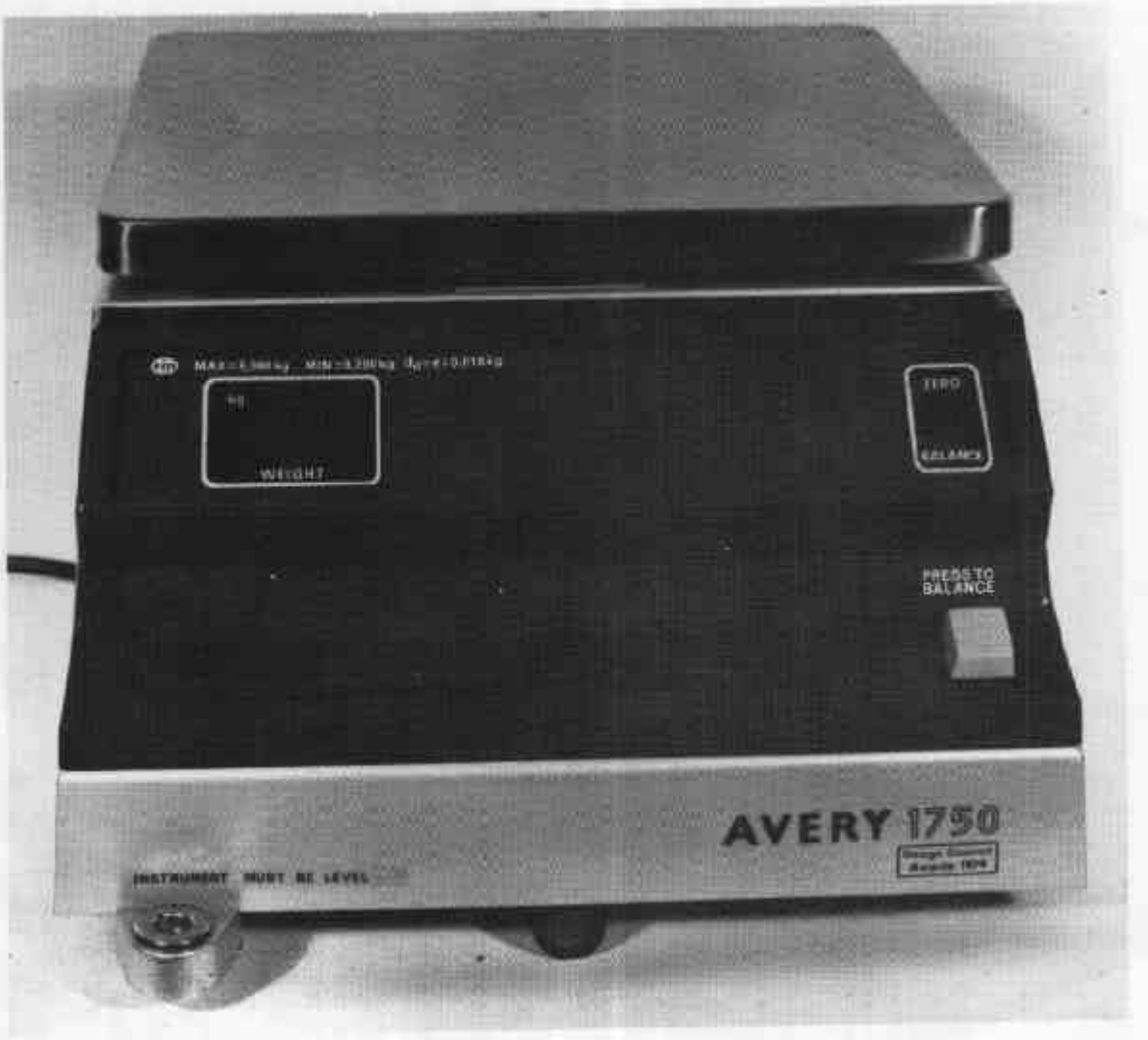
FIGURE 6/4D/72 - 5



Sealing of Interconnecting Cable

1/8/77

FIGURE 6/4D/72 - 6



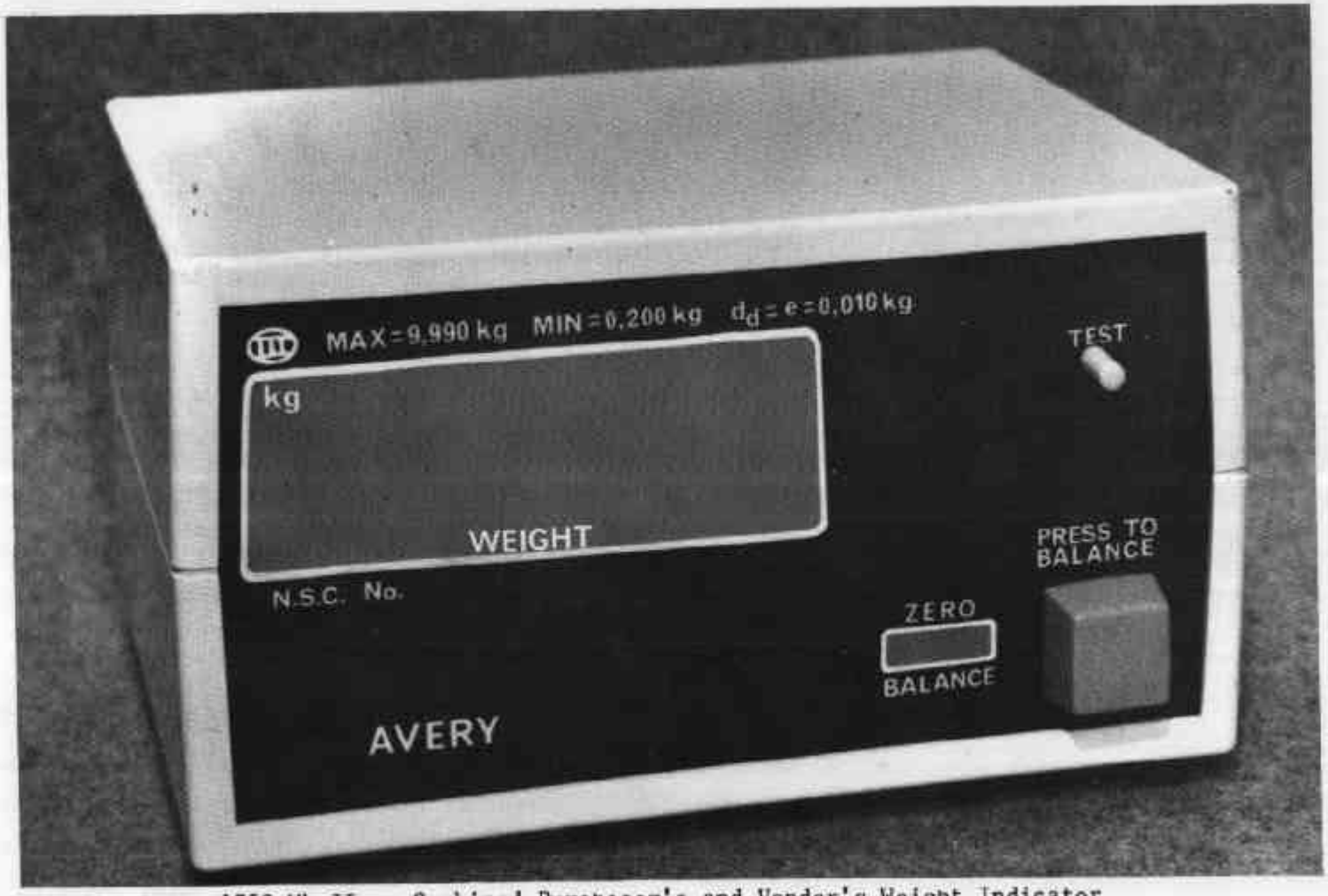
Avery 1750 Mk II — Weignt Only Indicated

1/8/77

FIGURE 6/4D/72 - 7

Avery 1750 Mk II Weighing Unit

1/8/77



Avery 1750 Mk II — Combined Purchaser's and Vendor's Weight Indicator

FIGURE 6/4D/72 - 9

Avery 1750 Mk II - Numeric and Zero Balance Indicators.

12/6/78

FIGURE 6/4D/72 - 10

Combined Purchaser's and Vendor's Weight Indicator

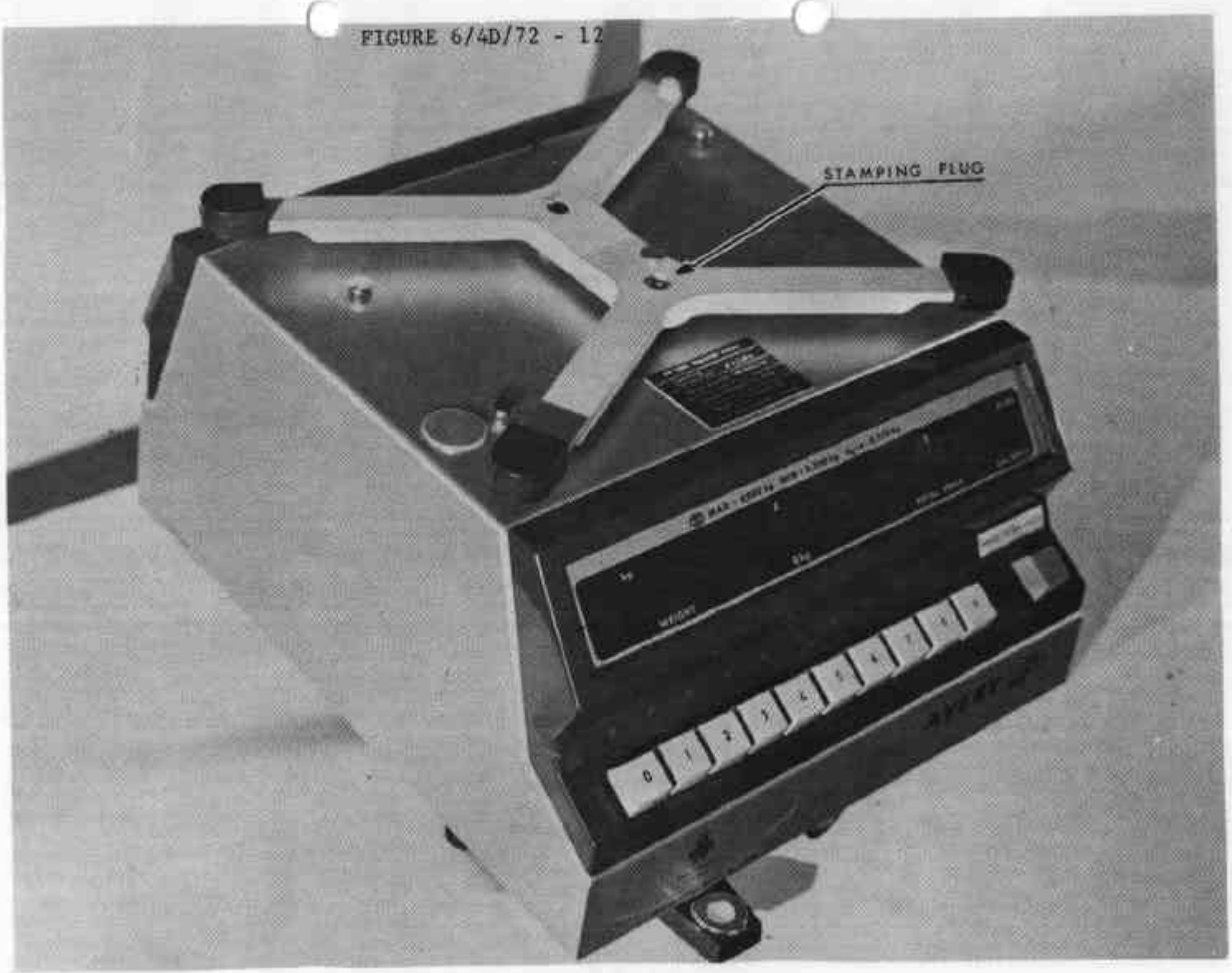
12/6/78

FIGURE 6/4D/72 - 11

Avery 1750 Mk II witn Tare

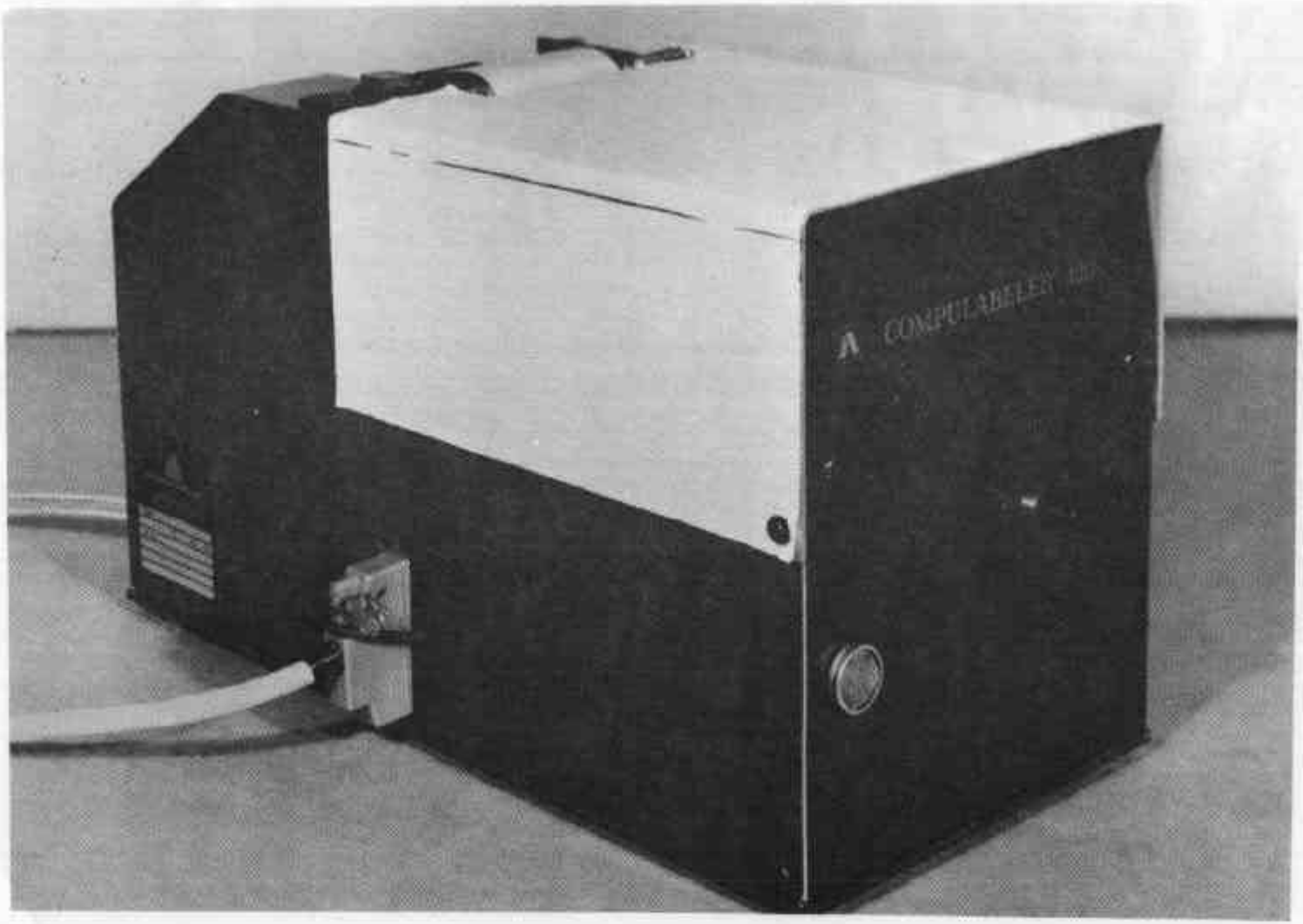
10/8/78

FIGURE 6/4D/72 - 12



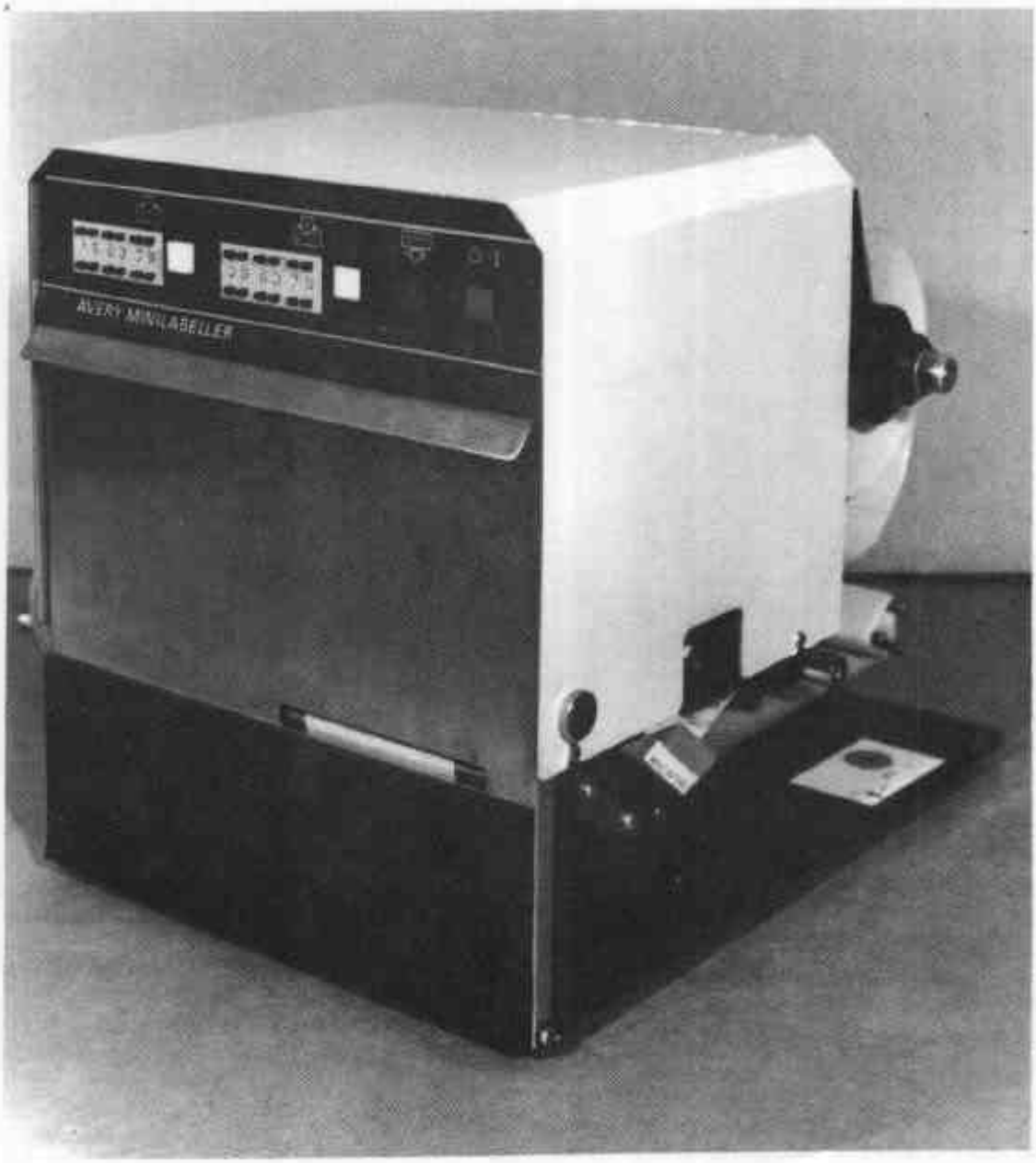
Avery 1750 Mk II — Location of Stamping-plug Security Seal

FIGURE 6/4D/72 - 13



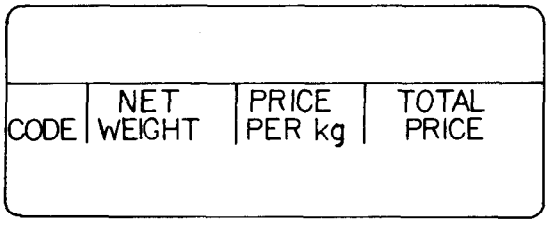
Avery Compulabeler C420

FIGURE 6/4D/72 - 14

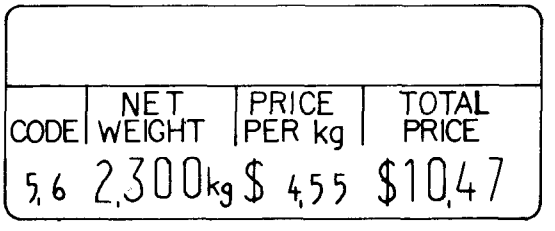


Avery Minilabeler C431

19/3/79

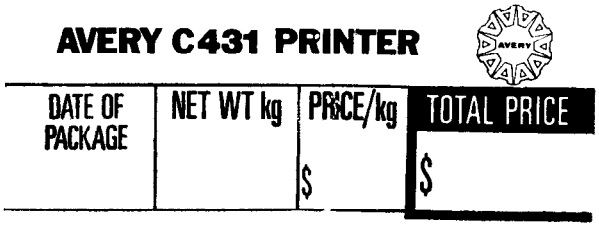


(a) Before printing

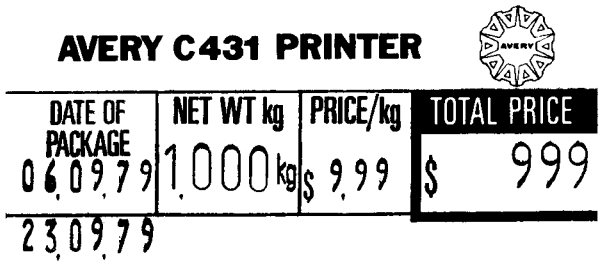


(b) After printing

Avery Compulabeler C420 Sample Ticket (actual size)



(a) Before printing



(b) After printing

Avery Minilabeler C431 Sample Ticket (actual size)

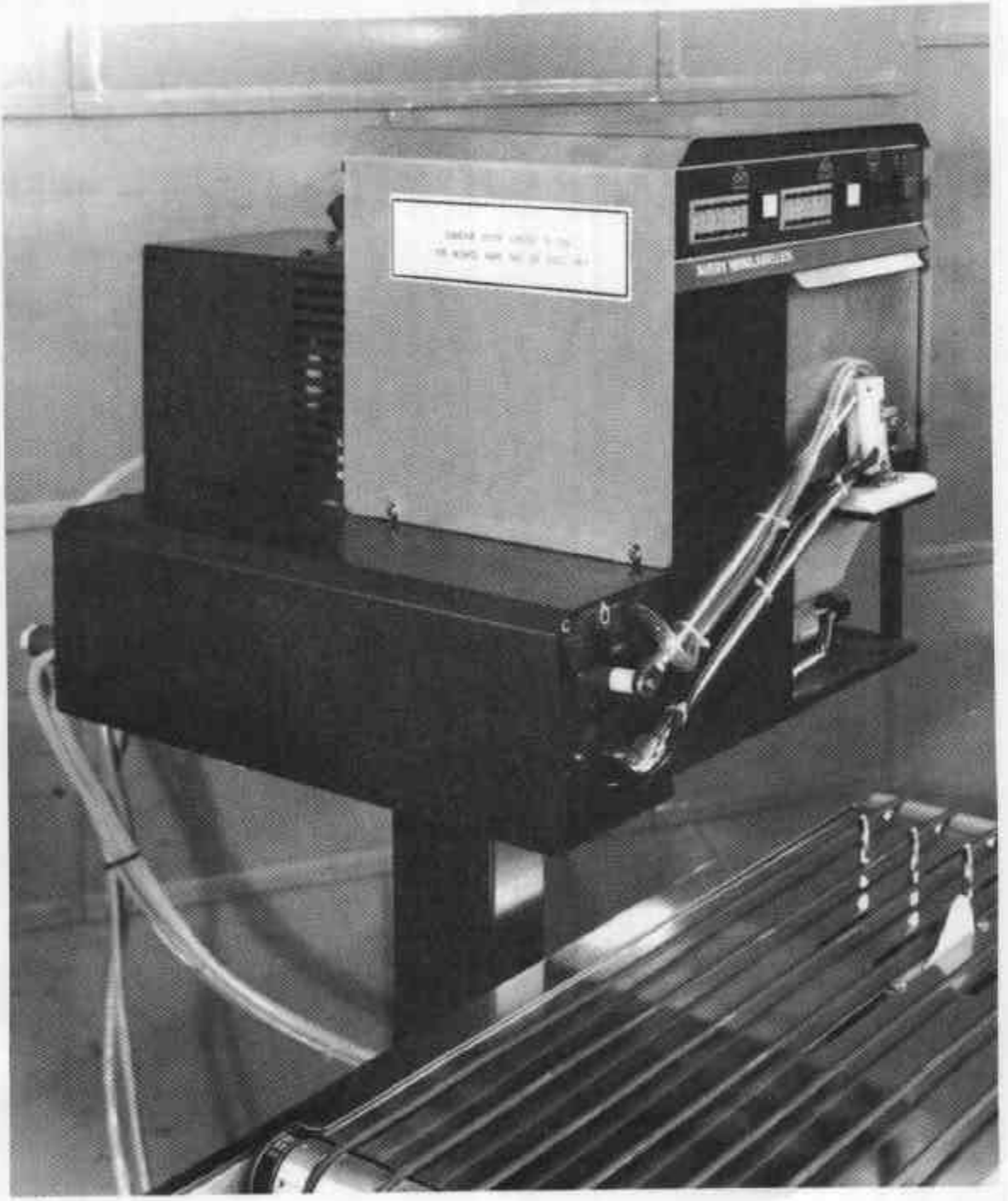
19/3/79
(replaced 28/9/79)

Avery 1750 Mk II showing Serial Number of Label Printer

Avery 1750 Mk II Automatic Prepackaging System

Avery 1750 Mk II with Stamping Plug on Front Cover

FIGURE 6/4D/72 - 20



Printer with Notice, which reads:
"Conveyor system limited to 5 kg.
For Weights above 5 kg use scale only"

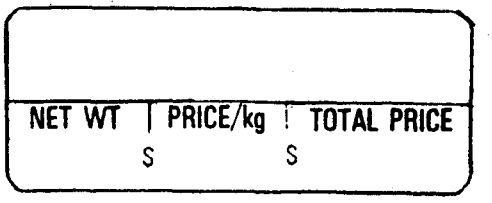
14/6/79

Avery Printer Model C421 RLD

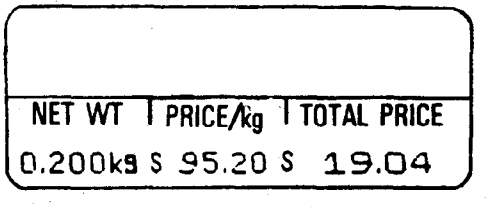
FIGURE 6/4D/72 - 22

Avery Printer Model C421S

FIGURE 6/4D/72 - 23



(a) Before printing

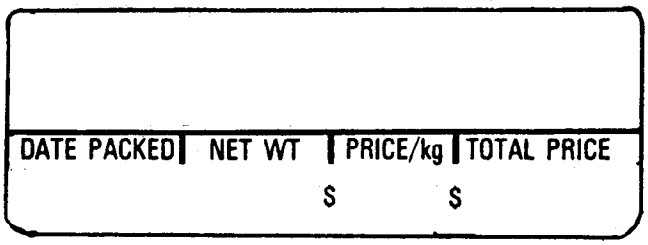


(b) After printing

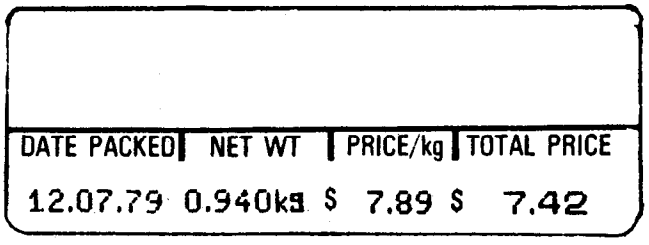
Avery Model C421RLD Sample Ticket (actual size)

8/11/79
(replaced 14/2/80)

FIGURE 6/4D/72 - 24



(a) Before printing



(b) After printing

Avery Model C421S Sample Ticket (actual size)

8/11/79
(replaced 14/2/80)

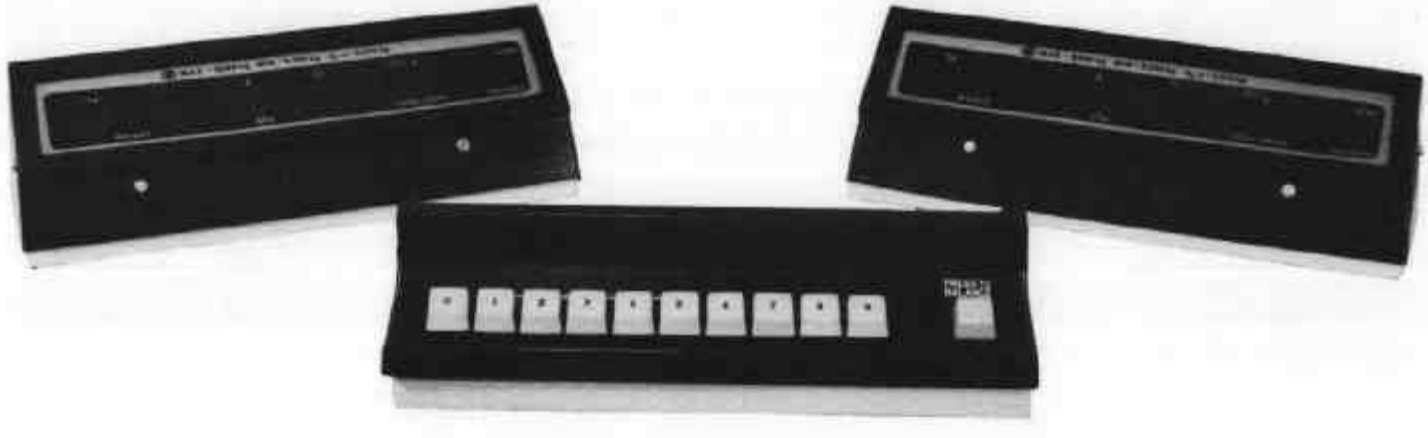
FIGURE 6/4D/72 - 25

Weighing Instrument without Indicators and Keyboard

FIGURE 6/4D/72 - 26

Separate Vendor's Indicator plus Keyboard,
and Purchaser's Indicator

FIGURE 6/4D/72 - 27



Separate Vendor's Indicator, Purchaser's Indicator and Keyboard

FIGURE 6/4D/72 - 28

Typical Installation

15/9/80

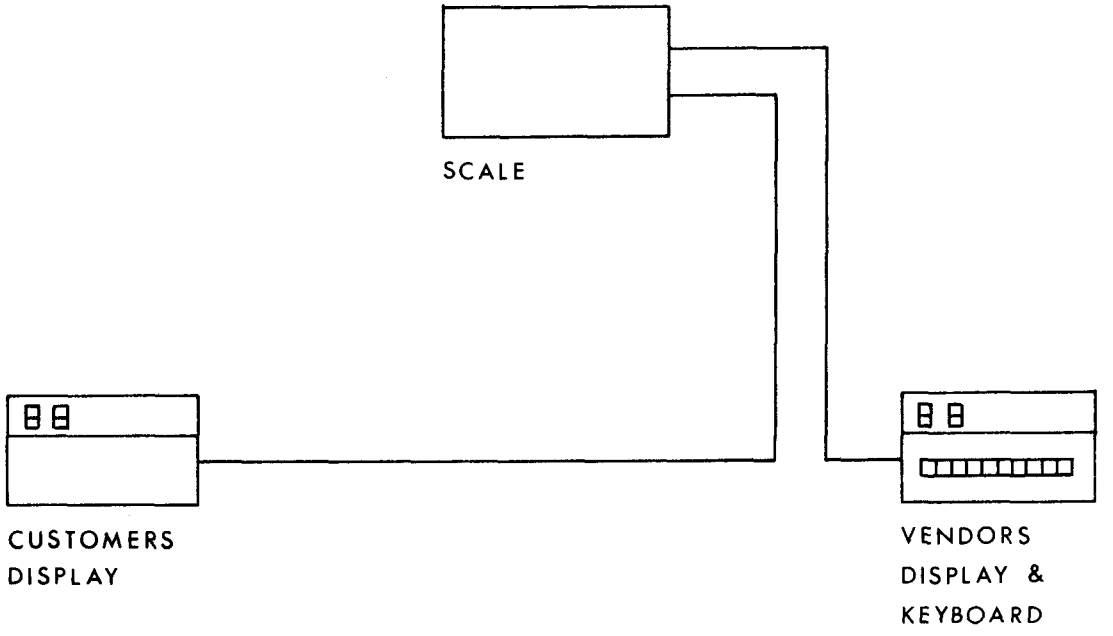
FIGURE 6/4D/72 - 29

Typical Installation

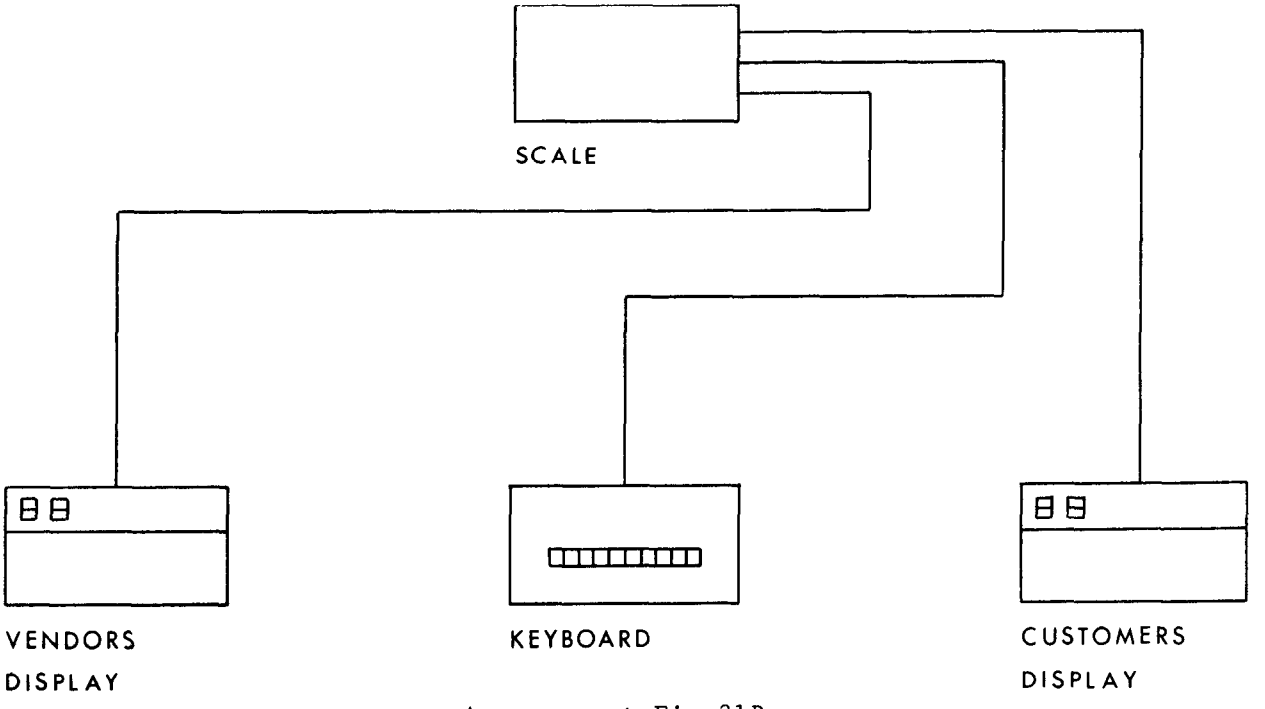
FIGURE 6/4D/72 - 30

Typical Installation

FIGURE 6/4D/72 - 31



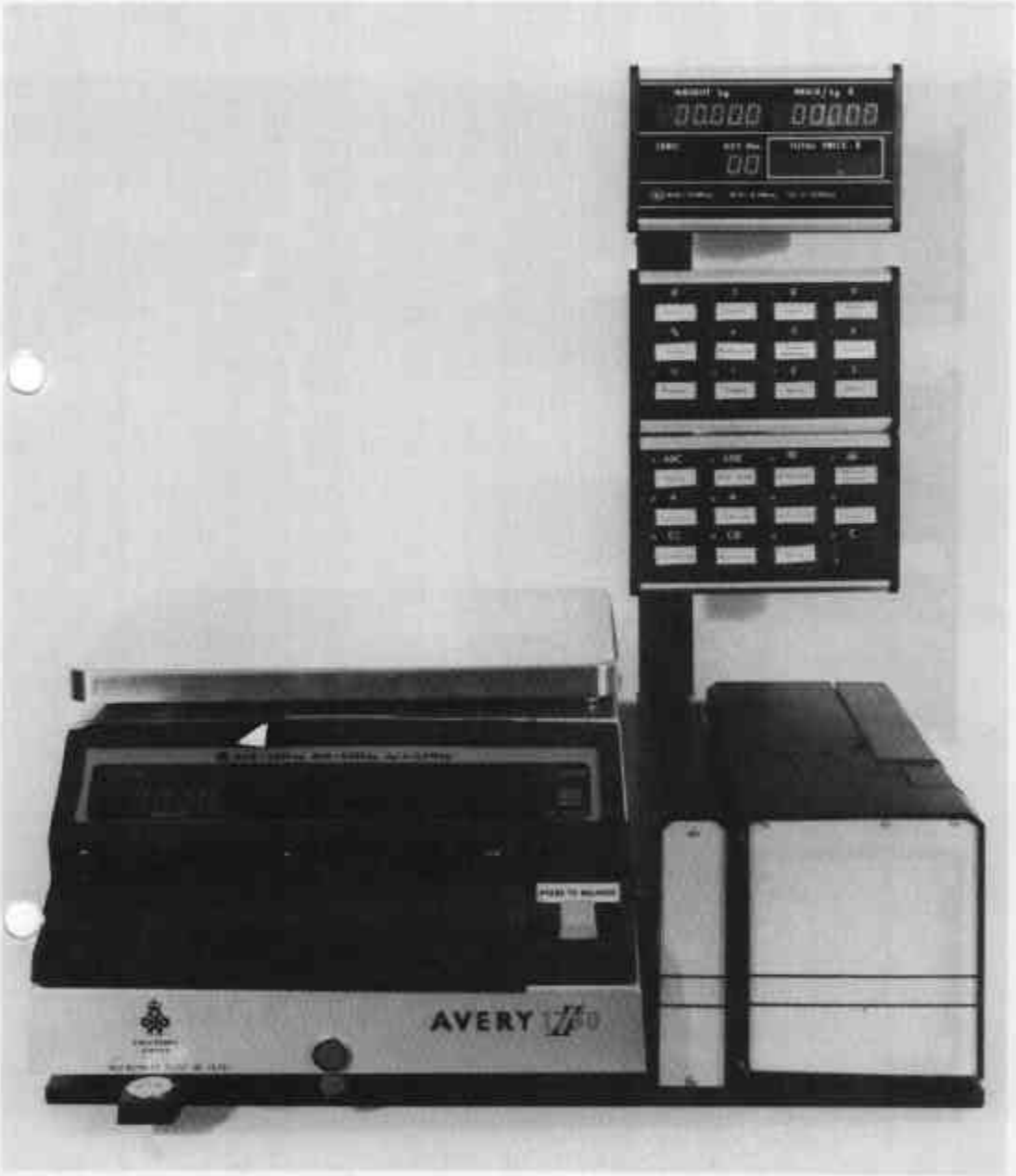
Arrangement Fig 31A



Arrangement Fig 31B

15/9/80

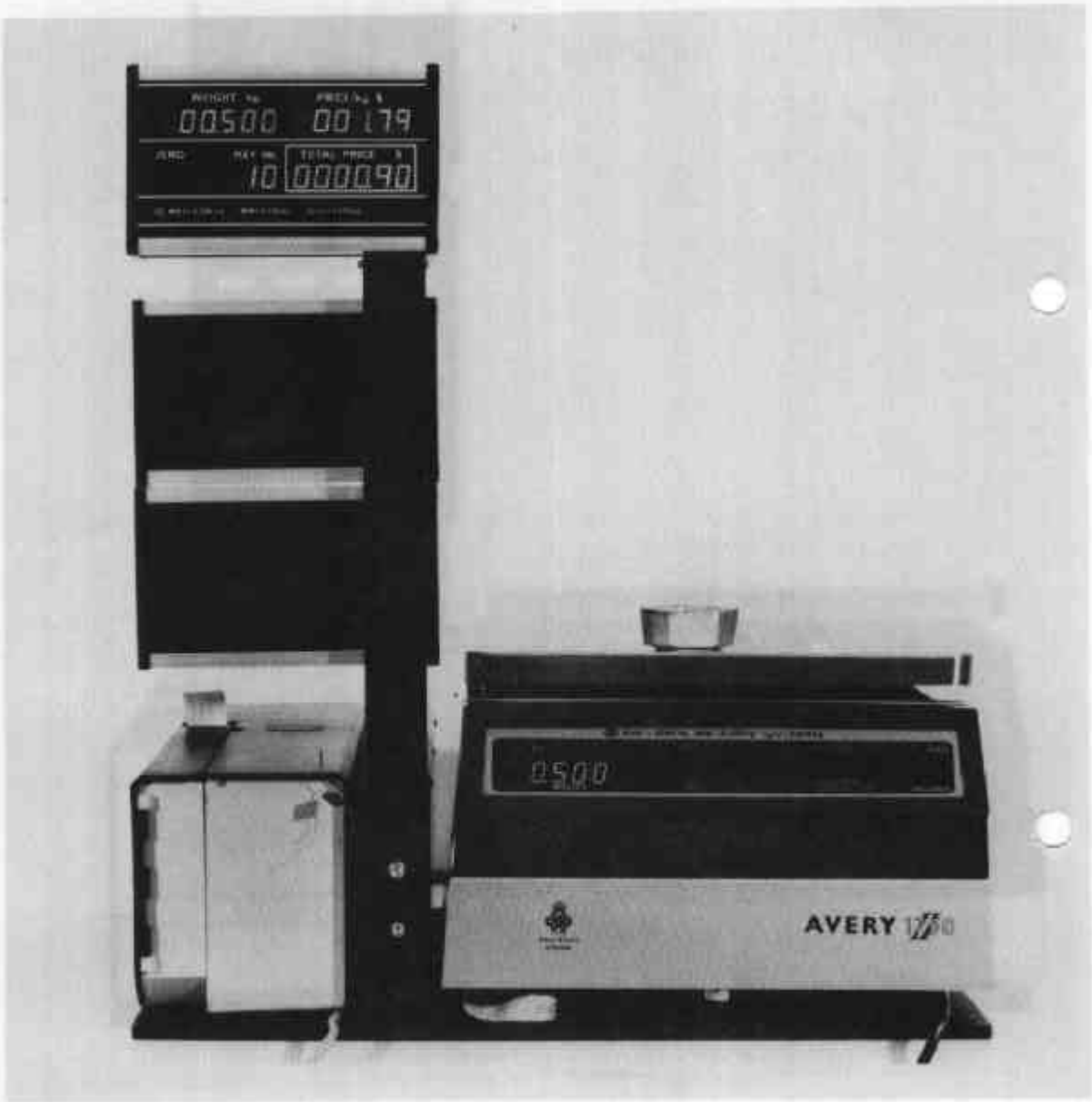
FIGURE 6/4D/72 - 32



Variant 14, Vendor's Side

16/11/81

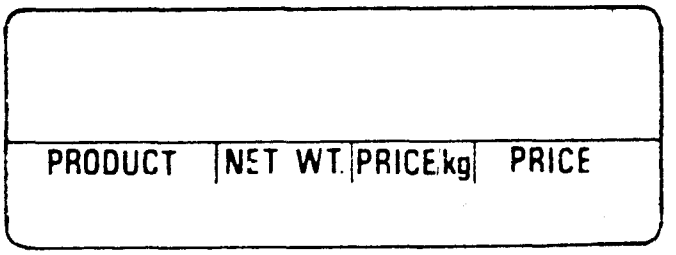
FIGURE 6/4D/72 - 33



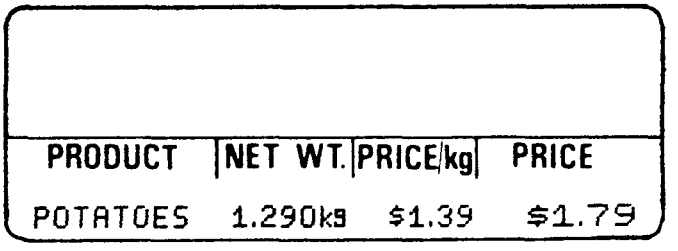
Variant 14, Purchaser's Side, showing Sealing of Printer

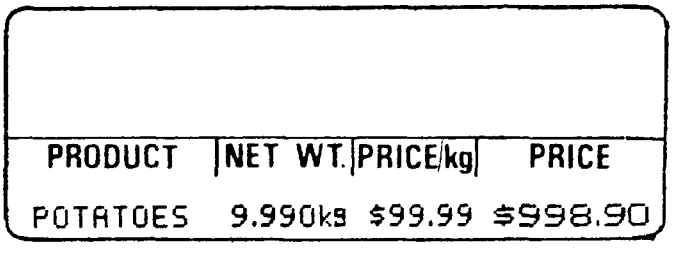
16/11/81

FIGURE 6/4D/72 - 34



(a) Before printing





(b) After printing

Sample Labels - actual size

16/11/81