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CERTIFICATE OF APPROVAL No 6/4D/22

VARIATION No 1

This is to certify that the following modification of the patterns of the  
Pioneer B51 Weighing Instrument

approved in Certificate No 6/4D/22 dated 22 July 1969

submitted by South Australian Scale Co. Pty Ltd,  
Bray Avenue,  
Torrensville, South Australia, 5031,

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

Date of Approval: 13 March 1975

The approved modification, described in Technical Schedule No 6/4D/22 - Variation  
No 1, and in drawings and specifications lodged with the Commission, provides for  
an 8-kg capacity by 0,020-kg graduations weight-and-price chart with unit-price  
range 1 c/kg to 470 c/kg.

The approval is subject to review on or after 1 March 1977.

All instruments conforming to this approval shall be marked with the approval  
number "NSC No 6/4D/22".

Signed



Executive Officer

8/4/75

*Ball 7*



Weights and Measures  
(National Standards)  
Act 1960-1964

Weights and Measures  
(Patterns of Instruments)  
Regulations

COMMONWEALTH OF AUSTRALIA

NATIONAL STANDARDS COMMISSION

# *Certificate of Approval*

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CERTIFICATE NUMBER 6/4D/22

*In respect of the pattern of*

Pioneer Self-indicating Price-computing Counter Machine Model  
B51 and Variants 1 to 3.

Submitted by: South Australian Scale Co. Pty. Ltd.,  
Bray Avenue,  
Torrensville,  
South Australia. 5031.

This is to certify that the pattern and variants of the instrument illustrated and described in this Certificate have been examined by the National Standards Commission under the provisions of the abovementioned Regulations and have been approved as being suitable for use for trade.

Approval was granted for the pattern and variants 1 to 3 on 18th July, 1969.

Approval was granted on condition that all instruments made in conformity with the pattern or its variants:

1. are appropriately marked NSC No 6/4D/22; and
2. comply with the General Specifications for Weighing and Measuring Instruments to be Used for Trade.


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Cont'd over

This Certificate comprises:

Pages 1 to 4 dated 22nd July, 1969.

Figures 6/4D/22 - 1 to 8 dated 22nd July, 1969.

Signed 

Date of issue 22nd July, 1969.

22/7/69

DESCRIPTION

The pattern (see Figures 1 and 2) is a self-indicating price-computing counter machine of 16 lb capacity. It comprises load receptor, baseworks, spring resistant mechanism and indicating chart (see Figure 3).

The load receptor is supported by a cradle through which the load is transferred to second-order, intermediate and main levers (see Figure 4). The main lever is supported by bearings mounted on the base and connects to two rack assemblies which drive the cylinder chart.

The nose end of the main lever incorporates a conical pivot mounted on an adjustable plate; a bearing mounted on a coupling bar transfers the force to the temperature-stable spring resistant. The mechanism comprises two pairs of springs connected at the top ends to a coupling bar which is attached to a zero-adjustment lever. Access to the zero adjustment is obtained through an aperture in the top of the instrument.

An adjustable oil-filled dashpot is mounted on the base with its piston attached to the cradle supporting the load receptor. An opening in the base housing beneath the load receptor provides access to the dashpot and level indicator (see Figure 5). Displayed on the base is a notice "instrument incorrect if not truly level" with an arrow pointing in the direction of the level indicator. The instrument is provided with four adjustable levelling feet.

The chart and aperture plate are viewed by the vendor and purchaser through frames fitted with plain glass; behind the frame on the operator's side is a lens having a magnification of approximately 1.6 to 1. The chart is graduated to 16 lb by 1 oz graduations, each lb being denominated and each 2 oz being numbered. The price-computing chart No B51-95 is marked from 20 to 43 cents per pound in 1 cent per pound steps, and from 45 to 95 cents per pound in 2 cent per pound steps.

The aperture plate No B51-95 on the vendor's side is marked as shown in Figure 6.

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On the purchaser's side the aperture plate allows only the weight to be seen, and is marked "lb" and "oz".

### SCHEDULE OF VARIANTS

1. Being fitted with an alternate price-computing chart No B51-169 graduated to 16 lb by 1 oz graduations as for the pattern, the chart being marked:

From 0 to 45 cents per pound in 1 cent per pound steps;  
From 49 to 100 cents per pound in 2 cent per pound steps;  
From 101 to 169 cents per pound in 4 cent per pound steps.

The aperture plate No B51-169 on the vendor's side is marked as shown in Figure 7.

2. Being fitted with two movable frames to isolate any required column of prices (see Figure 8).
3. Being fitted with a taring screw in place of the zero adjustment screw, in which case the instrument is marked "not for retail counter use" (see Figure 8).



# NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4D/22

## VARIATION No 1

Pattern: Pioneer B51 Weighing Instrument

Submitter: South Australian Scale Co. Pty Ltd,  
Bray Avenue,  
Torrensville, South Australia, 5031.

Date of Approval of Variation: 13 March 1975

The modification described in this Schedule applies to the patterns described in the following pages and figures of Certificate No 6/4D/22 dated 22 July 1969:

Pages 3 and 4 dated 22 July 1969

Figures 6/4D/22 - 1 to 8 dated 22 July 1969

### Condition of Approval:

All instruments conforming to this approval shall be marked "NSC No 6/4D/22".

### Description:

The approved modification provides for a weight chart of 8-kg capacity by 0,020-kg graduations and a price chart with unit-price range 1 c/kg to 470 c/kg.

FIGURE 6/4D/22 - 1



Pioneer Model B51 - Vendor's Side

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FIGURE 6/4D/22 - 2

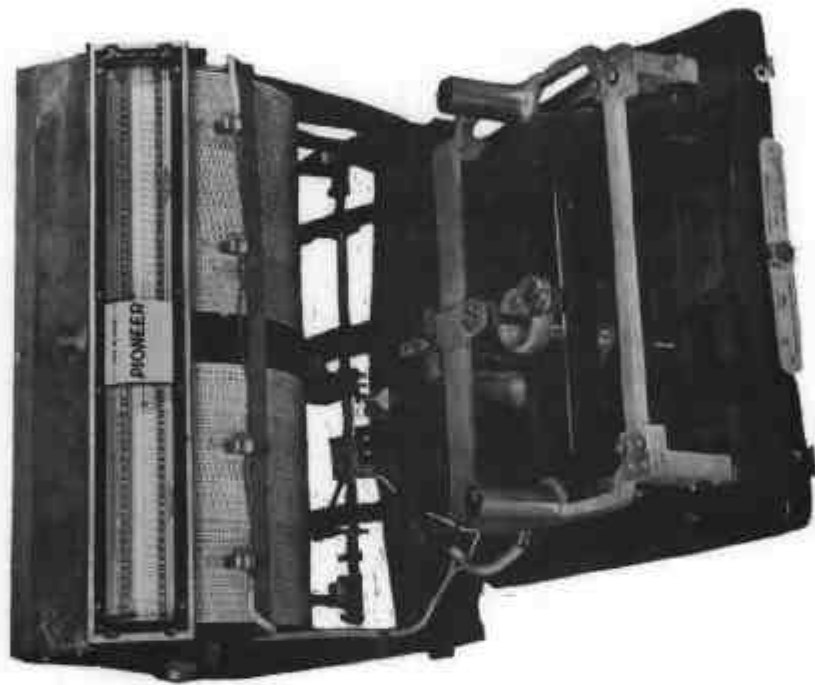


Pioneer Model B51 - Purchaser's Side

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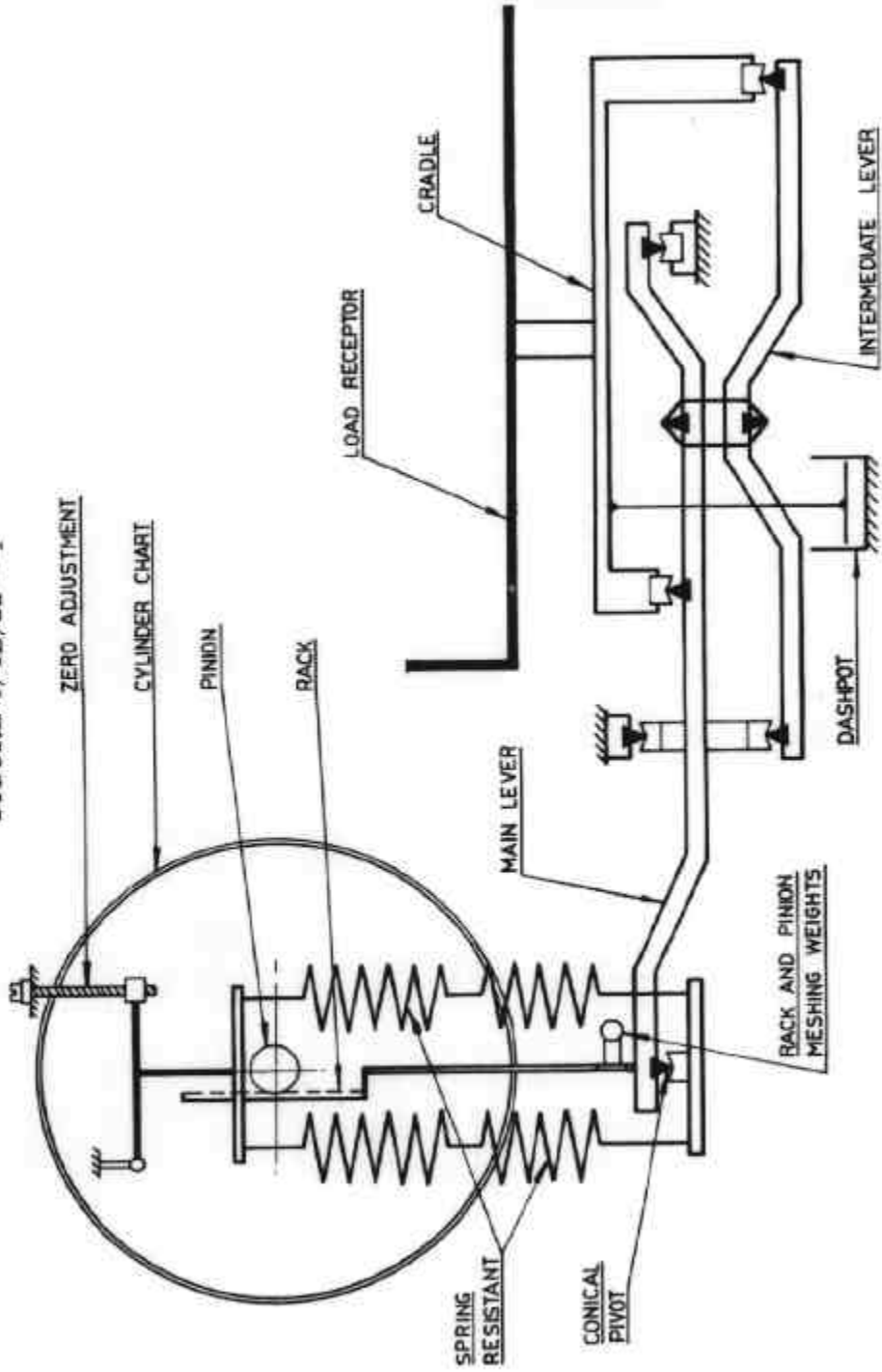
FIGURE 6/4D/22 - 3



Pioneer Model B51 - Covers Removed

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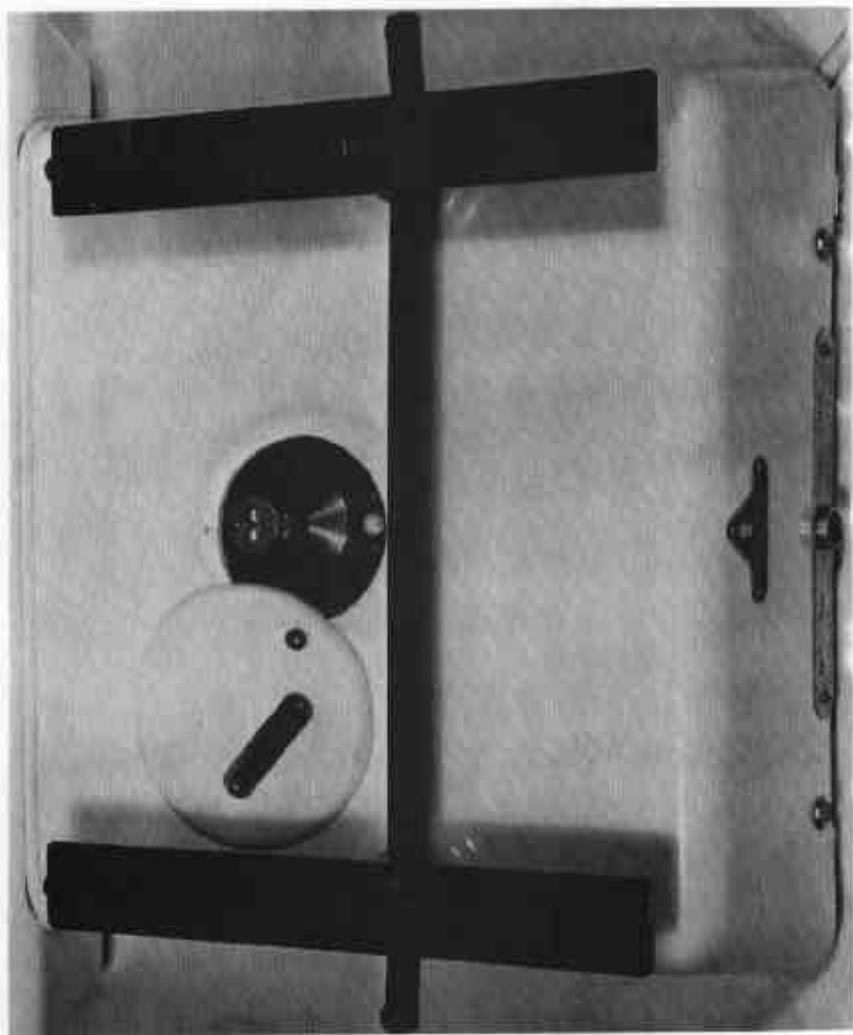
FIGURE 6/4D/22 - 4



Pioneer Model B51 - Schematic Diagram

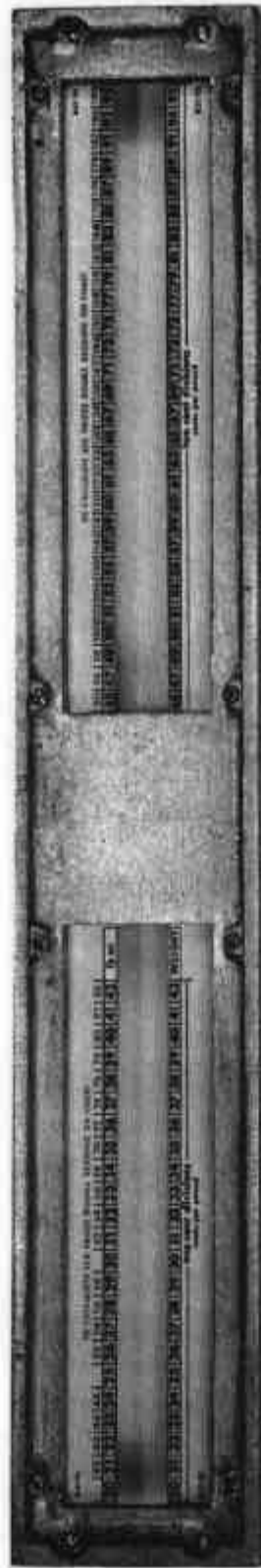
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FIGURE 6/4D/22 - 5



Pioneer Model B51 - Dashpot and Level Indicator

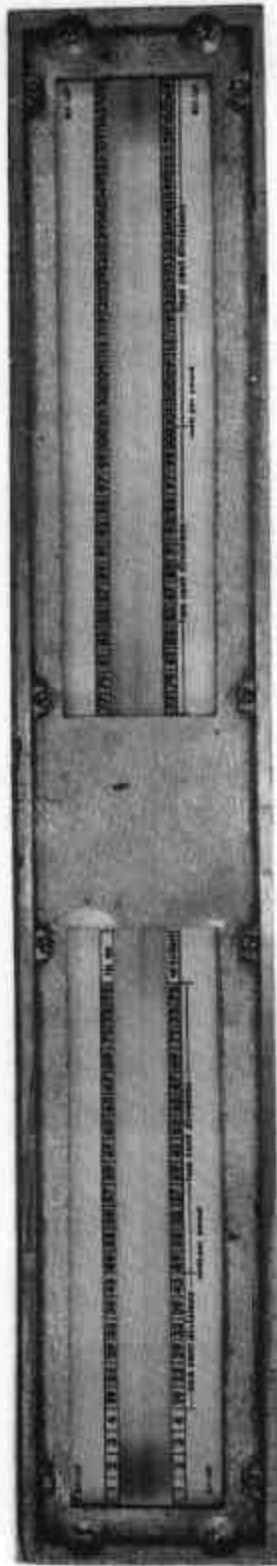
FIGURE 6/4D/22 - 6



Pioneer Model B51 - Aperture Plate No B51-95

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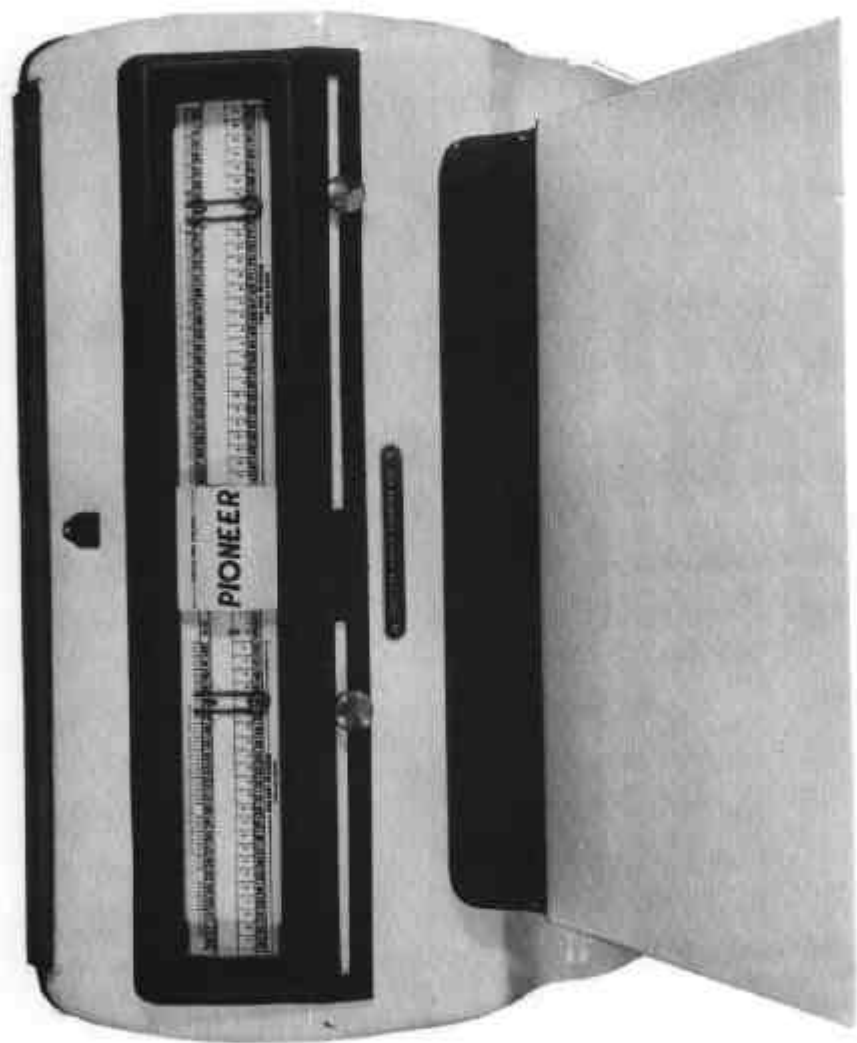
FIGURE 6/4D/22 - 7



Pioneer Model B51 - Aperture Plate No B51-169

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FIGURE 6/4D/22 - 8



Pioneer Model B51 - Price Isolation Device

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