



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 6/5/5

*In respect of the pattern of*

Pioneer Model HS 15 Spring Balance and Variant 1.

Submitted and  
manufactured by:

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

This is to certify that the pattern and variant 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 variant 1 on 11th June, 1970.

Approval was granted on condition that all instruments made in conformity with the pattern and variant:

1. are appropriately marked NSC No 6/5/5; 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 3 dated 17th June, 1970.

Figures 6/5/5 - 1 to 3 dated 17th June, 1970.

Date of issue 17th June, 1970.

Signed

A handwritten signature in cursive script, reading "Ian Hoerlein".

A person authorised by the Commission  
to sign Certificates under the  
abovementioned Regulations.

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### DESCRIPTION OF PATTERN

The pattern (see Figure 1) is of a self-indicating spring balance of  $15\frac{1}{2}$  lb capacity, the mechanism of which is shown diagrammatically in Figure 3. It is designed to be freely suspended.

The load receptor is loosely contained in a frame free to swing from a vertical smooth chrome-plated bar connecting to the resistant mechanism, through a nylon-bushed hole in the cabinet.

The spring-resistant mechanism (see Figures 2 and 3) consists of two temperature-stable springs in parallel between two cross arms. The top cross arm is in two sections, pivoted at the ends, and adjustable in the centre by means of a zero screw. The lower arm supports the load receptor and by a rack drives the pinion carrying the indicator spindle.

Two air dampers having graphite pistons in brass cylinders are connected between the cross arms.

A double-sided weight chart is fitted of capacity  $15\frac{1}{2}$  lb by 1 oz graduations.

### DESCRIPTION OF VARIANT

1. Being fitted with a double-sided chart of capacity 7 kg by 20 g graduations, and known as the Pioneer Model HS 7M.

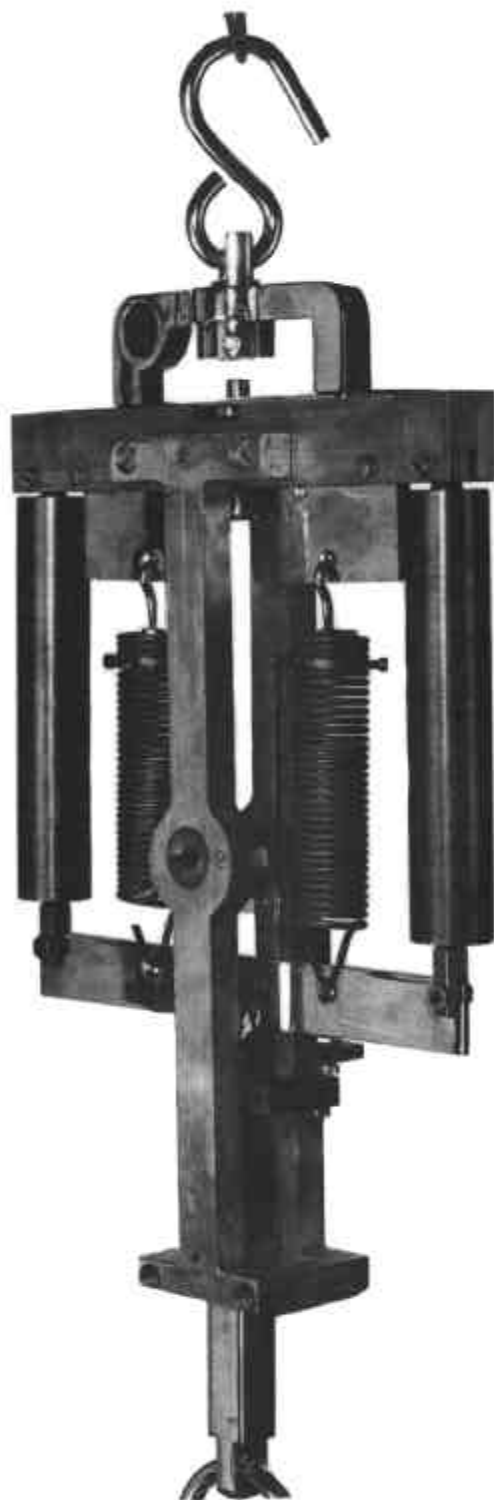
FIGURE 6/5/5 - 1



Pioneer HS 15

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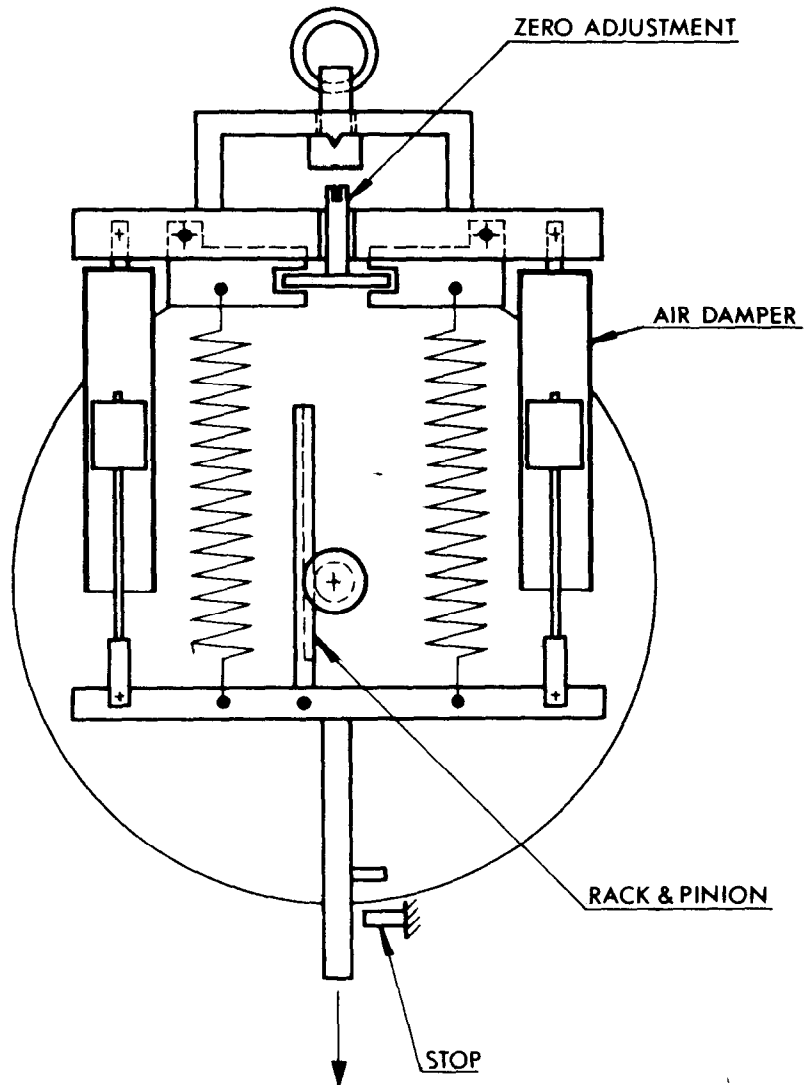
FIGURE 6/5/5 - 2



Pioneer HS 15 with Cover Removed

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FIGURE 6/5/5 - 3



Pioneer HS 15 - Schematic Diagram

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