COMMONWEALTH OF AUSTRALIA

NATIONAL STANDARDS COMMISSION

Weights and Measures (National Standards) Act 1960-1966

Weights and Measures (Patterns of Instruments) Regulations

Certificate of Approval

CERTIFICATE NUMBER 6/18/3

In respect of the pattern of

Avery Self-indicating Overhead-track Weighing Instrument of 550-kg Capacity and Variants.

Submitted and manufactured by:

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

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.

The pattern and variants were approved on 27 February 1973.

The pattern and variants:

1. are marked "NSC No 6/18/3" and, when required by State legislation, with the State approval number also; and

2. comply with the General Specifications for Measuring Instruments to be Used for Trade, in respect of that part of the pattern which was not previously approved by a State.

3/5/73

Cont'd over

This Certificate comprises:

Pages 1 and 2 dated 3 May 1973.
Pages 3 and 4 dated 8 March 1973.
Figures 6/18/3 - 1 to 6 dated 8 March 1973.

Pursuant to regulation 12 of the abovementioned Regulations, variants incorporating the overhead lever systems of State-approved patterns described in Component No 2 are approved only in those States in which such an approval is in force.

Date of issue 3 May 1973.

Signed

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

DESCRIPTION OF PATTERN

The pattern is of a self-indicating overhead-track weighing instrument (see Figure 2) of 550-kg capacity, known as the Avery Type 4124 CLC. The dial has a capacity of 500 kg by 0.5-kg graduations, with a tare bar of 50 kg by 0.5-kg graduations.

The headwork is supported from an overhead mounting and is coupled to the main levers by a pullrod and a transfer lever (see Figure 3).

The pattern comprises the components tabulated in Column 5 of Figure 1.

DESCRIPTION OF VARIANTS

The columns marked "Variants" in Figure 1 tabulate the combinations of components which make up variants of the pattern, the capacities of which are limited by the capacities of the lever systems described.

DESCRIPTION OF COMPONENTS

1. Overhead lever system (see Figures 3, 4 and 5) — two second-order main levers are suspended from an overhead mounting by four swinging links, the lower ends of which house the self-aligning fulcrum bearings.

   The fulcrum, load and nose-end knife-edges have both their ends supported by the side-plates of the forked lever-ends.

   Two cross-members fitted with self-aligning bearings span both pairs of load knife-edges. From these the weigh-rail is supported by two adjustable brackets. The rail is rigidly attached to the brackets.

   Two pairs of links are also attached to the brackets and the two fixed rails to limit the lateral movement of the weigh-rail.

   The main-lever nose-end knife-edges are arranged above one another and are connected to the transfer lever by means of a swivel link which allows the transfer lever to be set at any angle to the weigh-rail. The first-order transfer lever is fitted with double-cantilevered knife-edges.

Its self-aligning fulcrum bearings are housed in an overhead swivel mounting.

The nose-end knife-edge of the transfer lever is coupled to the headwork by an adjustable pullrod.

2. Overhead lever systems — other State* or Commission-approved overhead lever systems.

3. Resistant mechanism — Avery Type CLA spring-resistant mechanism described in Certificate No 6/9C/10, fitted in a dial housing (see Figure 6).

4. Left-hand dial housing (see Figure 6) — the housing is mounted rigidly from an overhead support and may be located at any angle to the weigh-rail. A first-order main headwork lever is contained in the housing below the dial and connects the pullrod from the transfer lever to the resistant mechanism. The transfer-lever pullrod is protected by a sleeve to a height of at least 2 metres above the floor and is to the left of the dial.

5. Right-hand dial housing — the main headwork lever and housing are similar to Component No 4, except that the transfer-lever pullrod is to the right of the dial.

6. Left-hand tare bar (see Figure 6) — the main headwork lever is fitted with a tare bar which is graduated with zero on the right. The poise cut-out is on the right of the poise.

7. Right-hand tare bar — the main headwork lever is fitted with a tare bar which is graduated with zero on the left. The poise cut-out is on the left of the poise.

8. Single circular dial (see Figure 6).

9. Two circular dials — the housing is fitted with a dial at the front and rear. No tare bars are fitted with this component.

* Approved pursuant to regulation 12.

NATIONAL STANDARDS COMMISSION

CANCELLATION OF CERTIFICATE OF APPROVAL No 6/18/3

This is to certify that Certificate of Approval No 6/18/3 for the pattern and variants of the

Avery Self-indicating Overhead-track Weighing Instrument of 550 kg Capacity

submitted by Avery Australia Limited
3-5 Birmingham Avenue
Villawood, NSW, 2163

will expire in respect of new instruments on 1 October 1983.

Instruments which were verified before that date may, with the concurrence of the State or Territorial verifying authorities, be submitted for reverification.

Signed

Executive Director

30/9/83

FIGURE 6/18/3 - 1

1	2	3	4	5	6	7
	COMPONENTS	DATE APPROVED	FOOT-NOTES	PATTERN	VARIANTS	
					1	2
	LEVER SYSTEMS					
1	Overhead lever system (Figures 3, 4 and 5)	27 FEB 73		*	A	A
2	State or Commission-approved overhead lever systems	27 FEB 73			A	A
	HEADWORK COMPONENTS					
3	CLA spring-resistant mechanism	27 FEB 73		*	*	*
4	Left-hand dial housing (Figure 6)	27 FEB 73		*	*	
5	Right-hand dial housing	27 FEB 73				*
6	Left-hand tare bar (Figure 6)	27 FEB 73		*	‡	
7	Right-hand tare bar	27 FEB 73				‡
8	Single circular dial (Figure 6)	27 FEB 73		*	B	B
9	Two circular dials	27 FEB 73	1		B	B

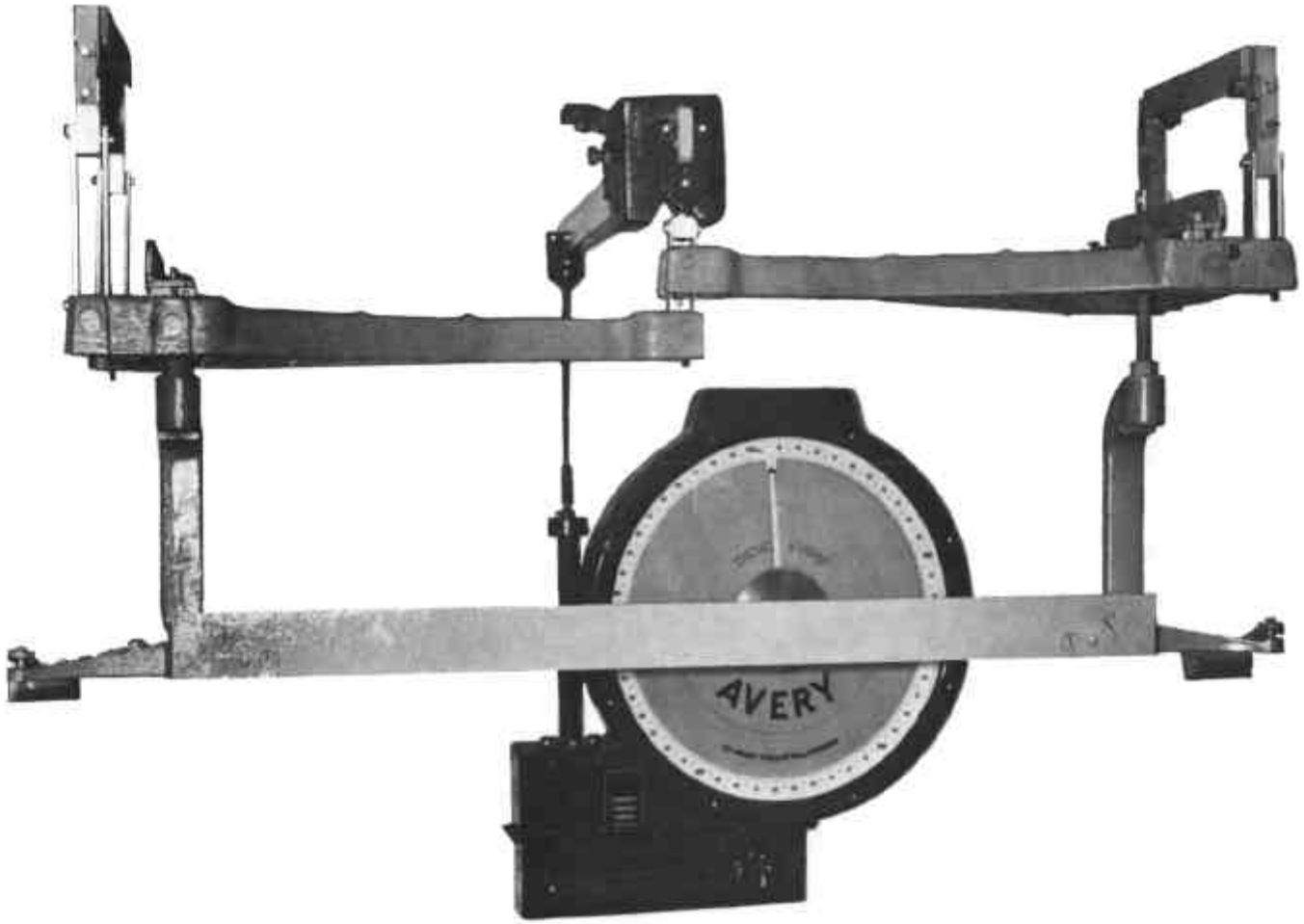
* - indicates required components
‡ - indicates optional components
A, B - indicates alternative components, only one of which is required

FOOTNOTES

1 - refer Description of Components for additional limitations on compatibility

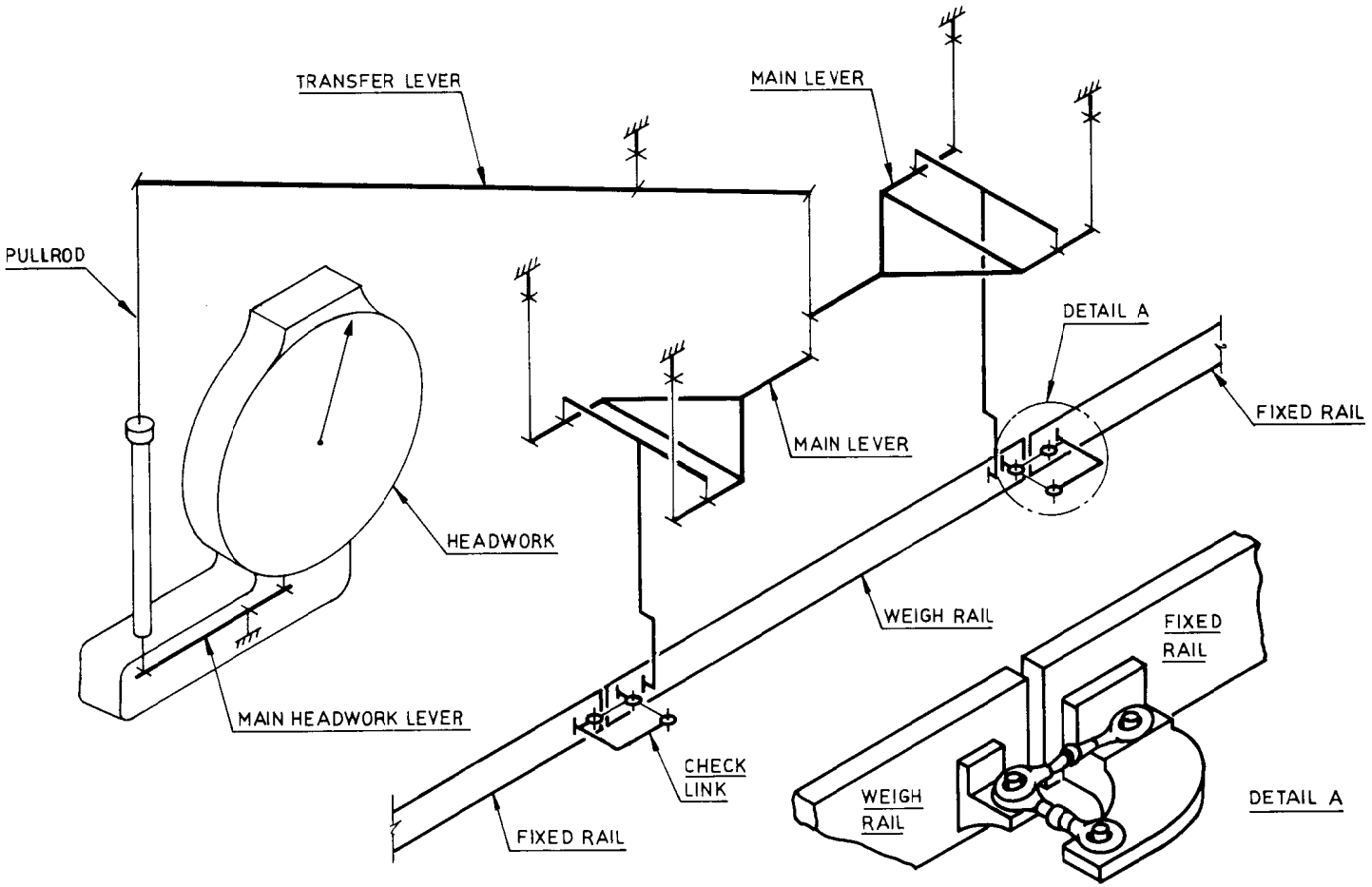
Compatibility Table for Components Described in this Certificate

FIGURE 6/18/3 - 2



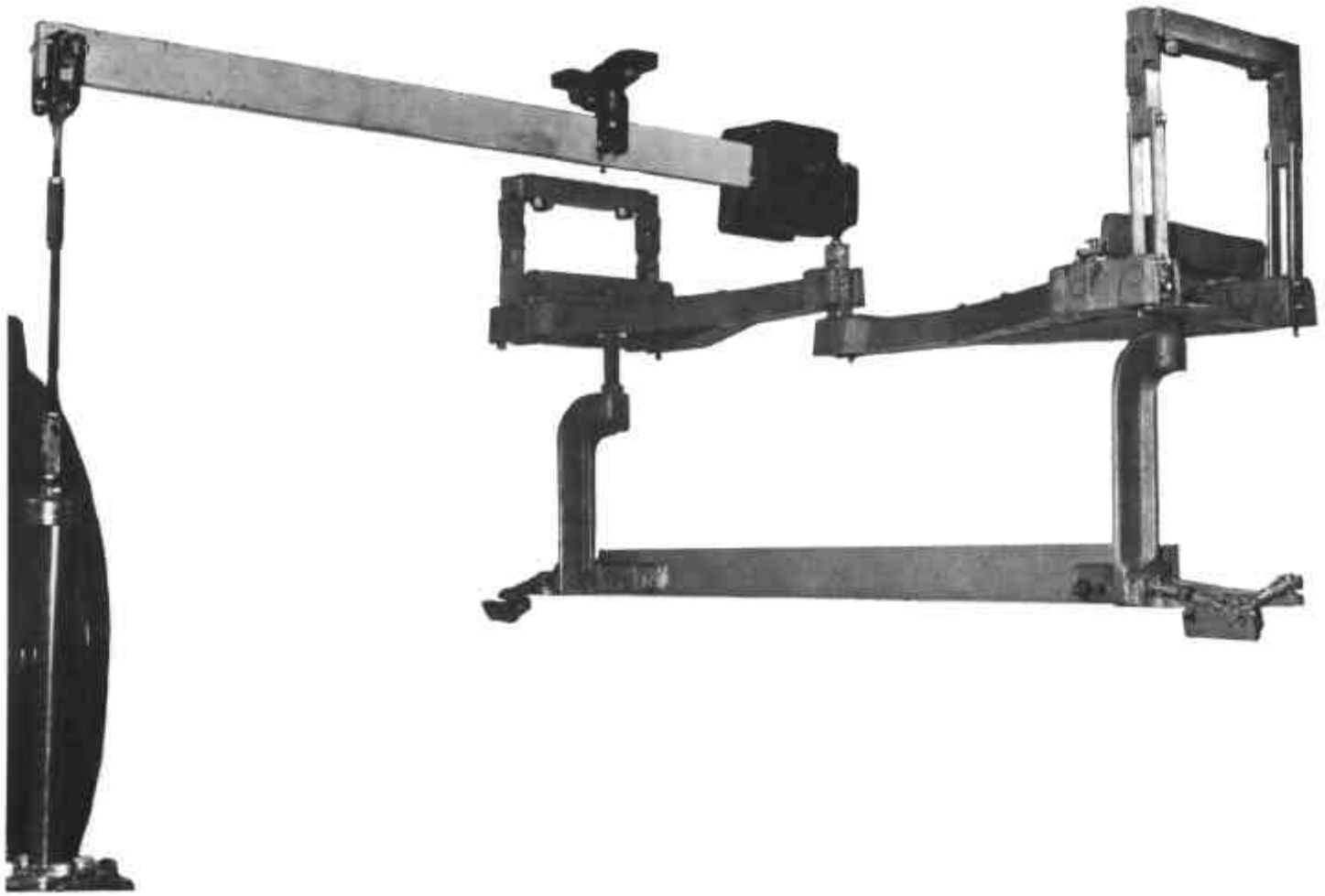
Avery Type 4124 CLC Overhead-track Weighing Instrument

FIGURE 6/18/3 - 3



Avery Type 4124 CLC Overhead-track Weighing Instrument —
Schematic Diagram

FIGURE 6/18/3 - 4



Overhead Lever System

FIGURE 6/18/3 - 5

Overhead Lever System

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FIGURE 6/18/3 - 6

Avery CLC Headwork

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