NATIONAL STANDARDS COMMISSION

CERTIFICATE OF APPROVAL No 6/3/1

This is to certify that the pattern and variants of the

Wedderburn Weighing Instrument Model L 100

submitted by J. W. Wedderburn & Sons Pty Ltd,
90 Parramatta Road,
Summer Hill, New South Wales, 2130,

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

Pattern: approved 13/5/74

reviewed 24/4/80

A non-self-indicating steelyard weighing instrument of 11,1 kg capacity by 2 g scale intervals.

Variants:

1. 15 kg capacity by 5 g scale intervals (approved 13/5/74).
2. 6,1 kg capacity by 1 g scale intervals (approved 13/5/74).
3. 3,1 kg capacity by 0,5 g scale intervals (approved 13/5/74).
4. 16 kg capacity by 5 g scale intervals with ungraduated tare (approved 24/4/80).

The pattern and variants are described in Technical Schedule No 6/3/1 issued on 4/7/80 and in drawings and specifications lodged with the Commission. The approval is subject to review on or after 30/4/85.

All instruments conforming to this approval shall be marked with the approval number "NSC No 6/3/1".

This Certificate replaces Certificate No 6/3/1 issued on 13/5/74, which may be destroyed.

The Technical Schedule replaces page 1 of Technical Schedule No 6/3/1 issued on 22/5/74, the figures of which are retained as part of this Technical Schedule.

Signed.

Acting Executive Director

4/7/80

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/3/1

Pattern: Wedderburn Weighing Instrument Model L 100

Submittor: J. W. Wedderburn & Sons Pty Ltd,
90 Parramatta Road,
Summer Hill, New South Wales, 2130.

1. Description of Pattern:

The pattern (Figures 1 and 2) is a non-self-indicating weighing instrument of 11,1 kg capacity, with a steelyard graduated on one side only to 200 g by 2 g scale intervals (Figure 3), and proportional weights as shown in Figure 4.

The steelyard has a travel within the guide of approximately ± 7 mm.

The load receptor is supported by a frame above the steelyard. The frame support rests on the load knives and is joined by a leg and stay to the base of the instruments.

Markings: The nameplate is marked with the following data:

Manufacturer's name	
Serial number of instrument	
NSC approval number in the form:	NSC No 6/3/1
Accuracy class in the form:	III
Maximum capacity in the form:	Max .....
Minimum capacity in the form:	Min .....
Verification scale interval in the form:	e = d = ...

and the instrument is marked NOT FOR RETAIL COUNTER USE.

Sealing: Any adjusting recess in the steelyard poise is sealed with a lead plug 4 mm in diameter.

2. Variants:

(1) Capacity 15 kg with a steelyard graduated to 500 g by 5 g scale intervals,

(2) capacity 6,1 kg with a steelyard graduated to 100 g by 1 g scale intervals,

(3) capacity 3,1 kg with a steelyard graduated to 50 g by 0,5 g scale intervals,

(4) capacity 16 kg with a steelyard graduated to 500 g by 5 g scale intervals and with an ungraduated tare bar. The steelyard and tare are arranged as shown in Figure 5.

3. Test Procedure:

3.1 Accuracy Requiremants

The maximum permissible errors are

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

3.2 Zero Range

Maximum range of zero device should not exceed 4% of capacity of instrument (± 2% approximately).

3.3 Level Sensitivity

When the instrument is tilted to a slope of 1 in 20 the zero indication should not change by more than 2e, and when the zero indication is adjusted in the tilted position the instrument should satisfy the above accuracy requirements.

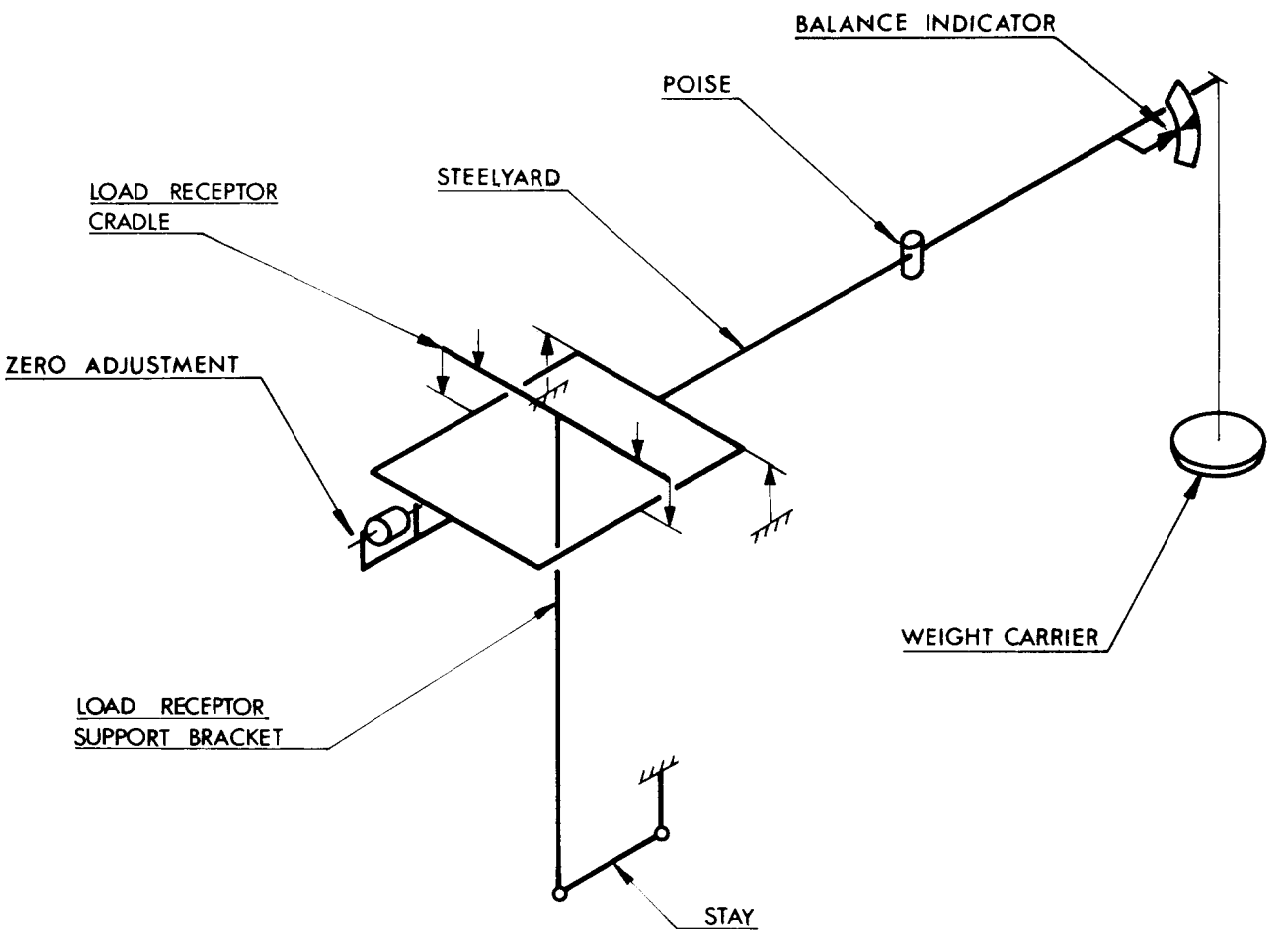
3.4 Sensitivity

A mass equal to the absolute value of the maximum permissible error at the load considered, placed on the instrument at equilibrium, loaded or unloaded, should cause a permanent displacement of the index of at least 2 mm.

FIGURE 6/3/1 - 1

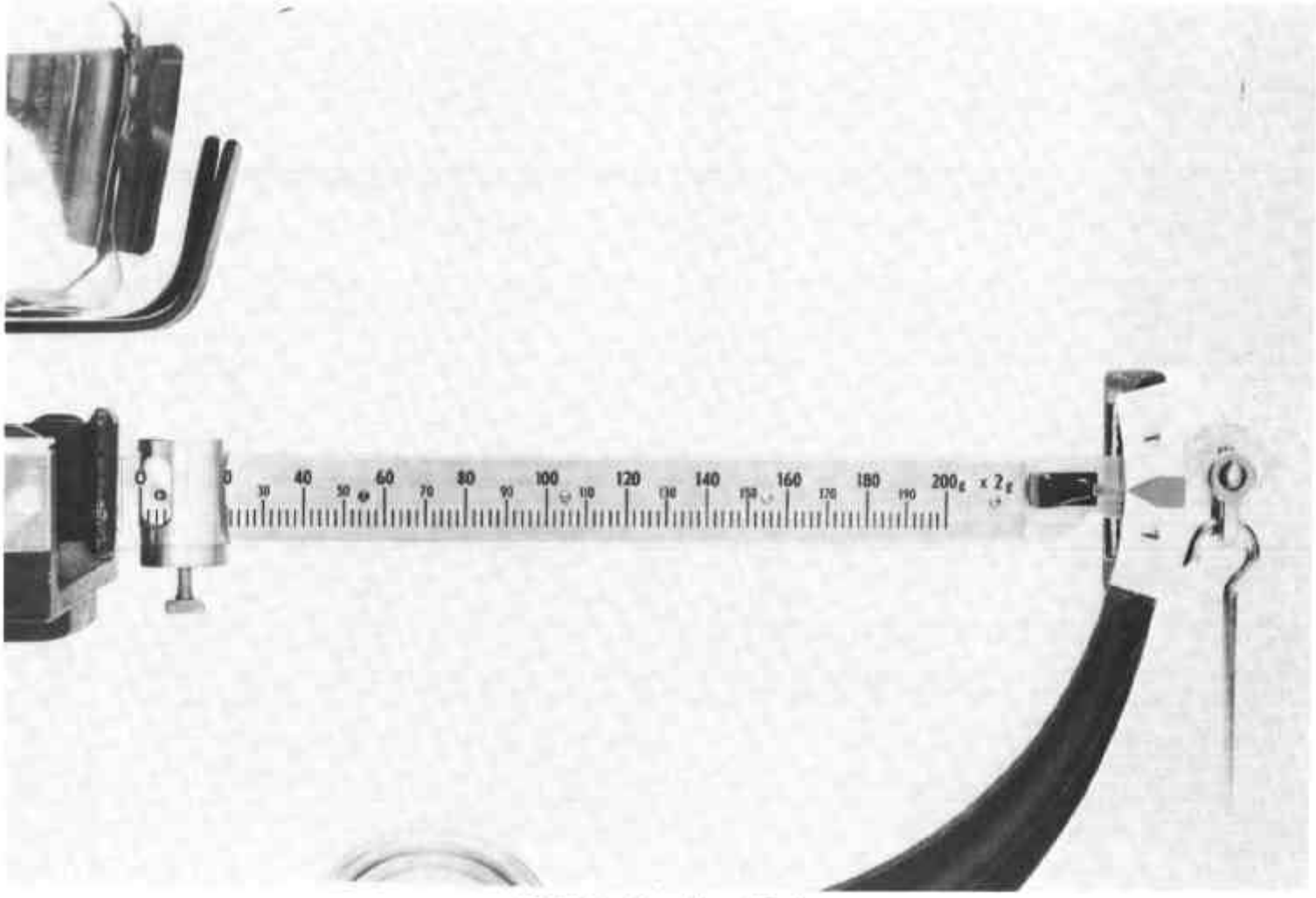
L100 Weighing Instrument

FIGURE 6/3/1 - 2



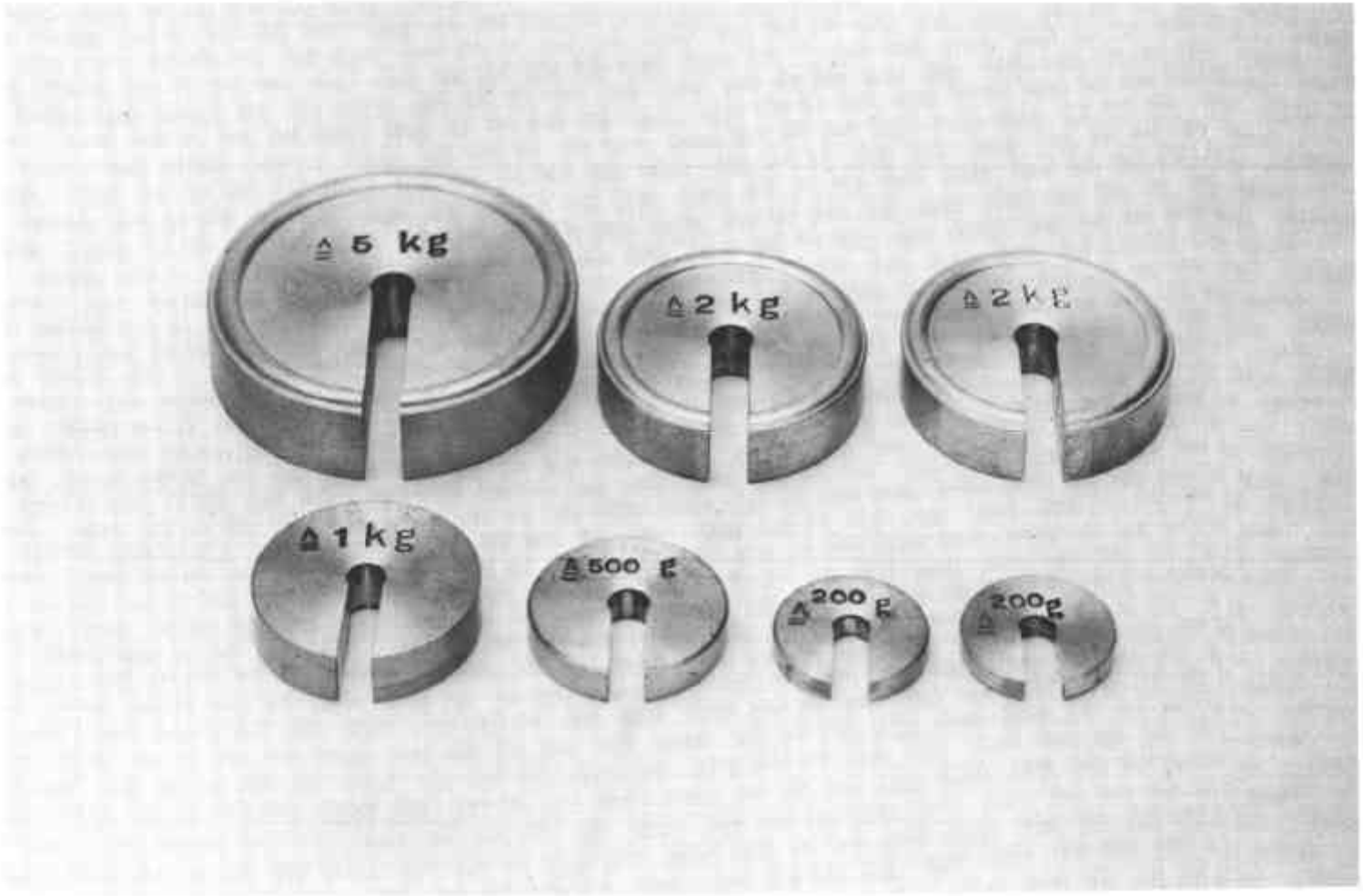
L100 Schematic Diagram

FIGURE 6/3/1 - 3



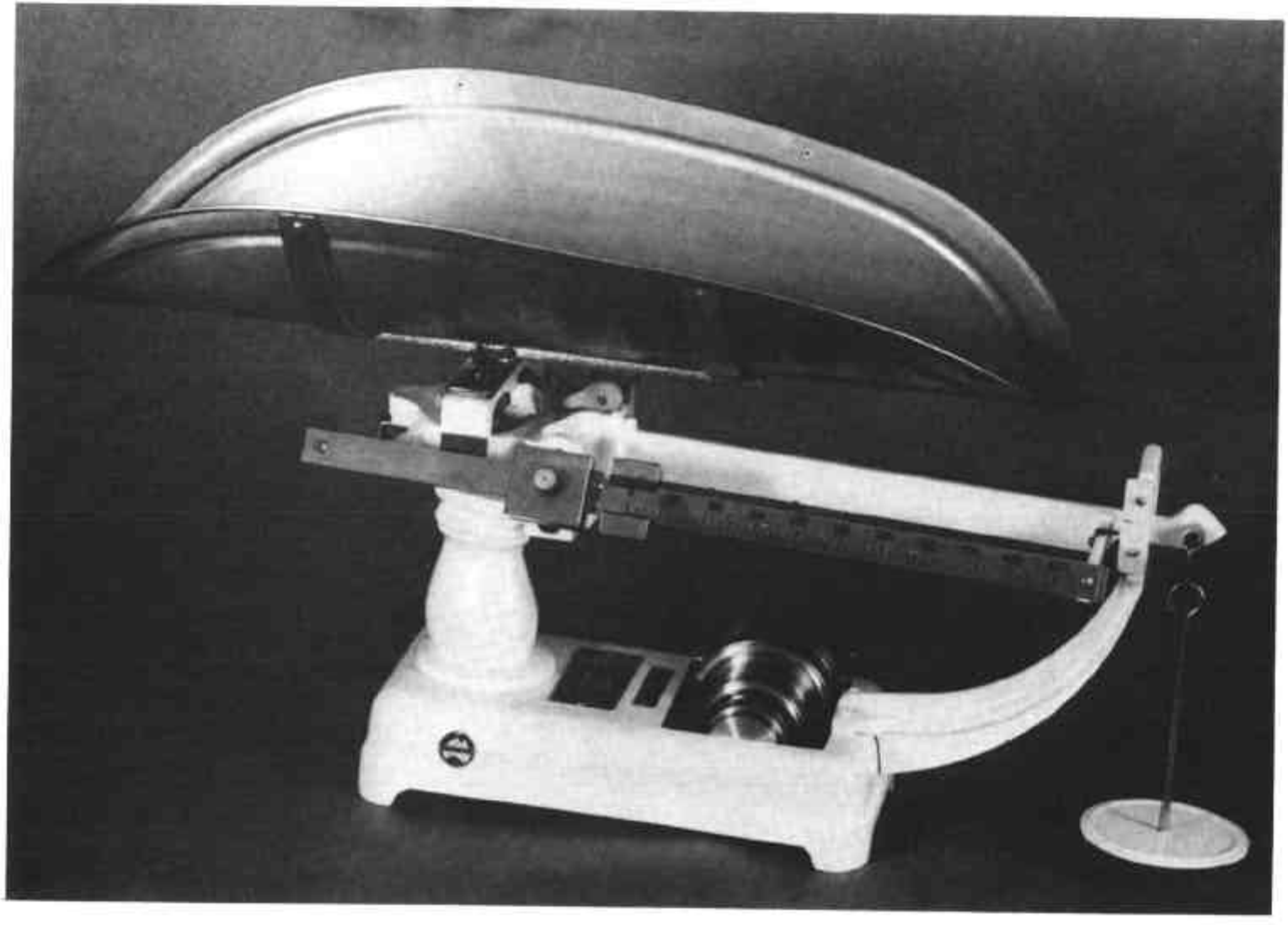
L100 Steelyard and Poise

FIGURE 6/3/1 - 4



L100 Counterpoise Weights

FIGURE 6/3/1 - 5



16 kg Instrument with Ungraduated Tare Bar