



NATIONAL STANDARDS COMMISSION

WEIGHTS & MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/9A/11

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

Avery Type 3552AAG Non-self-indicating Weighing Instrument

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 31/1/86.

All instruments purporting to comply with this approval shall be marked NSC No 6/9A/11.

Relevant drawings and specifications are lodged with the Commission.

Signed

Raymond Spach
Acting Executive Director

Descriptive Advice

Pattern: approved 20/7/81

- . Non-self-indicating portable weighing instrument of 250.0 kg maximum capacity with a steelyard of 10.0 kg capacity by 0.1 kg known as Model 3552AAG

Variant: approved 20/7/81

1. With basework cover and platform of cast iron, known as Model 3901AAG.



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/9A/11

Pattern: Avery Type 3552AAG Non-self-indicating Weighing Instrument

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

1. Description of Pattern

A portable platform weighing instrument, Model 3552AAG (Figure 1).

Maximum capacity 250.0 kg
Minimum capacity 5.0 kg
Scale interval 0.1 kg

1.1 Basework

Two second order levers connected to a pullrod (Figure 2). The basework cover and platform are of mild steel.

1.2 Levelling

The instrument is fitted with a level indicator and four adjustable feet; adjacent to this indicator is a notice advising that the instrument must be level when in use.

1.3 Steelyard

Graduated steelyard (Figure 3) of 10.0 kg capacity by 0.1 kg scale intervals, with the following proportional weights:

2 equivalent to 10 kg
1 equivalent to 20 kg
2 equivalent to 50 kg
1 equivalent to 100 kg

1.4 Sealing

- (i) The steelyard is provided with a stamping plug (Figure 3).
- (ii) The proportional weights are marked with the instrument's serial number and have a lead-plugged undercut hole for stamping.

1.5 Marking

The nameplate is marked with the following data:

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

2. Variant

2.1 Variant 1

With basework cover and platform of cast iron, known as Model 3901AAG.

* If the nameplate is not adjacent to the steelyard these markings are repeated on the steelyard.

TEST PROCEDURE No 6/9A/11

1. Accuracy Requirements

The maximum permissible errors are:

- ± 0.5e for loads between 0 and 500e;
- ± 1e for loads between 501 and 2000e; and
- ± 1.5e for loads between 2001e and maximum capacity.

2. Load Tests

Test loads are to be applied to the instrument with the first step equal to the minimum capacity, increasing to maximum capacity in not less than 5 approximately equal steps, and followed by decreasing loads of not less than 5 approximately equal steps.

NOTE: All load applications to the instrument should be in accordance with the Commission's recommended testing procedure for the Elimination of Rounding Error as set out in Document 104. The instrument should display these loads within the applicable tolerance as listed above.

3. Zero range

The maximum range of the zero adjustment should not exceed 4% of the capacity of the instrument (± 2% approximately).

4. Off-Centre Load Test

The instrument should satisfy the accuracy requirements given above when a load corresponding to 1/3 maximum capacity is distributed successively along each edge of the load receptor over an area not exceeding 1/5 the total area of the receptor.

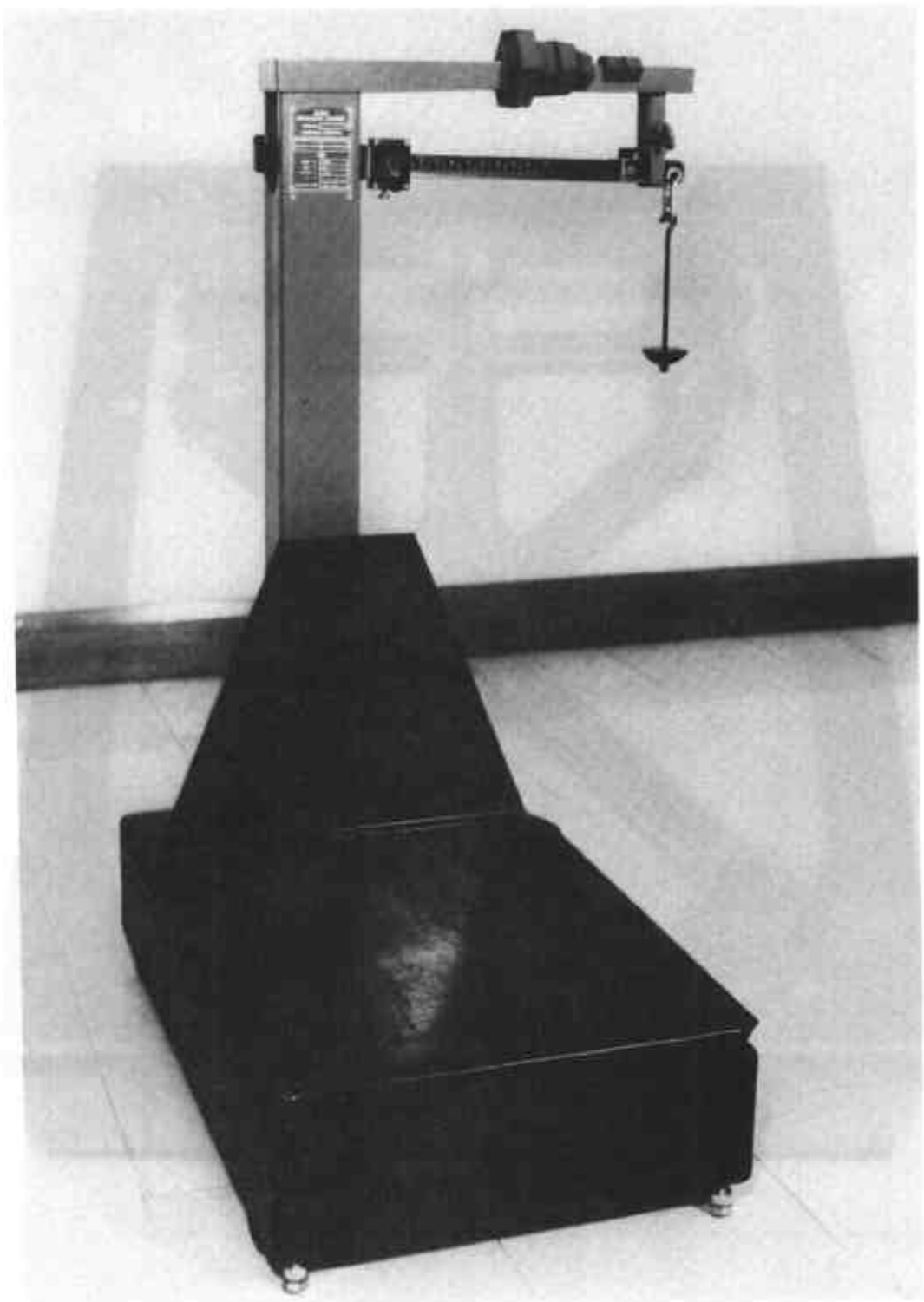
5. Level Sensitivity

Tilt the instrument so that the bubble in the level indicator moves 2 mm and reset zero; the instrument should satisfy the accuracy requirements given above.

6. Sensitivity

A mass of 0.5e for loads up to 500e, 1e for loads between 501e and 2000e, and 1.5e for loads above 2000e, when placed on the load receptor at equilibrium, should cause a permanent displacement of the index of at least 5 mm.

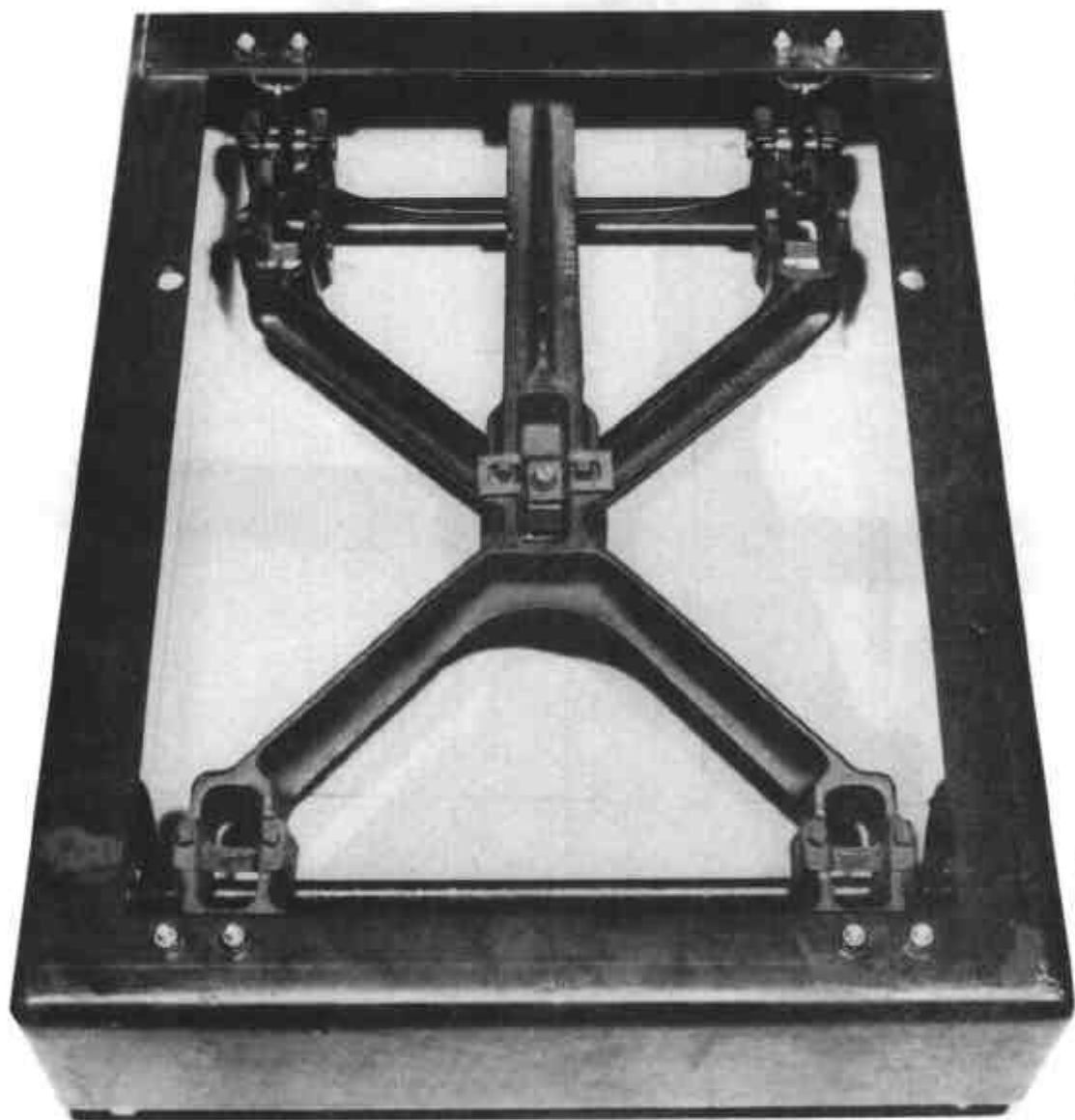
FIGURE 6/9A/11 - 1



Avery Model 3552AAG

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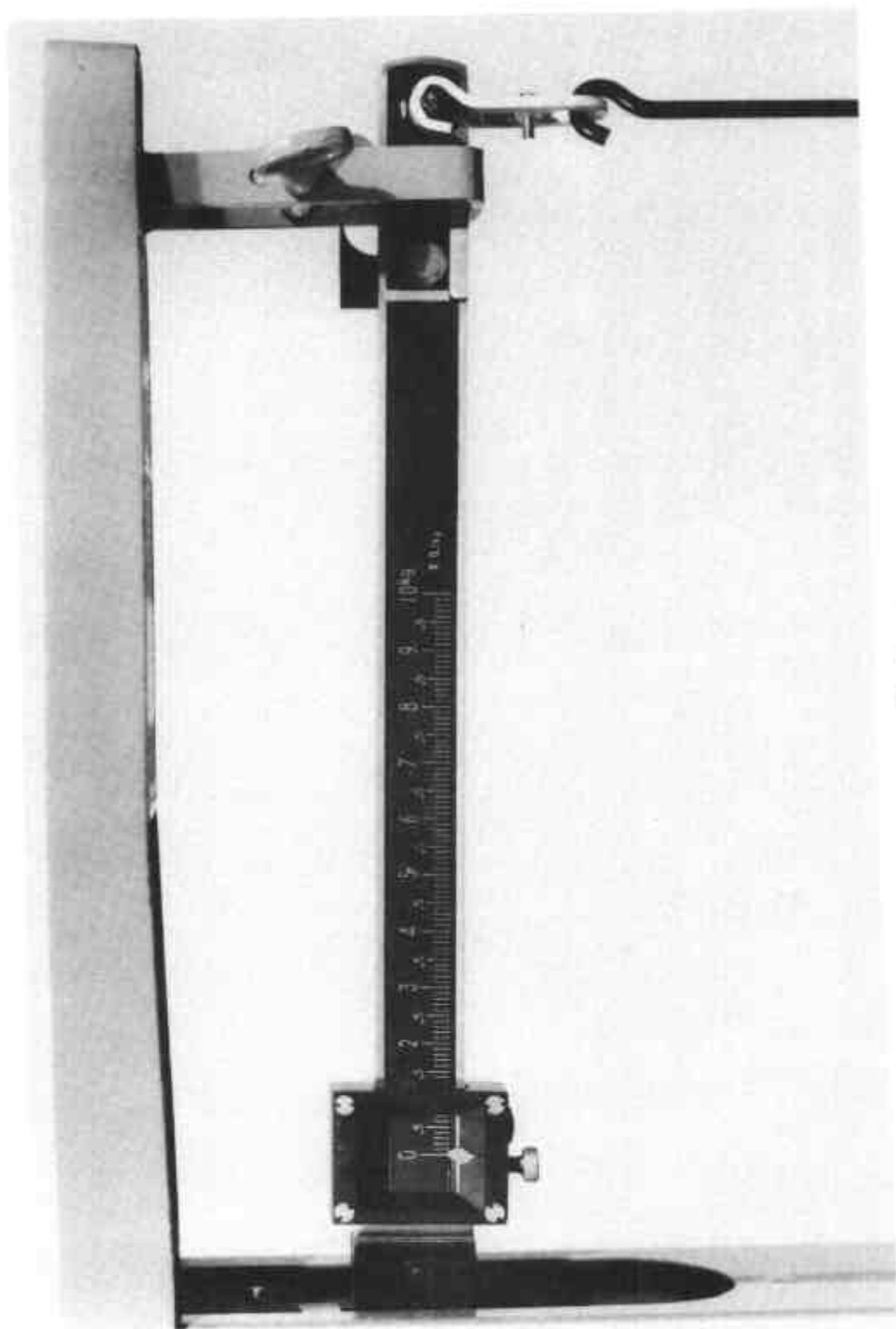
FIGURE 6/9A/11 - 2



Basework with Cover Removed

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FIGURE 6/9A/11 - 3



Steelyard