NATIONAL STANDARDS COMMISSION

WEIGHTS & MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/18/3A

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

Avery Model 4124 CLC Overhead-track Weighing Instrument

submitted by Avery Australia Limited
3-5 Birmingham Avenue
Villawood, New South Wales, 2163

are suitable for use for trade.

In this Certificate the pattern and variants originally approved in Certificate No 6/18/3 have been reviewed. Certificate No 6/18/3 will expire on 1/10/83 with the effect that no new instruments purporting to comply with that Certificate will be accepted for verification after that date.

This approval is subject to review on or after 1/10/88.

Instruments purporting to comply with this approval shall be marked NSC No 6/18/3A and shall only be used in accordance with the drawings and specifications lodged with the Commission.

Signed

Executive Director

Descriptive Advice

Pattern: approved 7/9/83

- Avery model 4124 self-indicating overhead-track weighing instrument of 500 kg maximum capacity with a model CLC dial indicator and approved for use with up to 1000 scale intervals.

Variants: approved 7/9/83

1. With the indicating mechanism of the pattern replaced by an Avery model 8653 digital indicator and an HBM model Z6H2 50 kg load cell, with a maximum capacity of 500 kg and approved for use with up to 3000 scale intervals.
2. With the indicating mechanism of the pattern replaced by a Commission-approved load cell and digital indicator.

Technical Schedule No 6/18/3A dated 23/9/83 describes the pattern and variants.

Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/18/3A dated 23/9/83
Technical Schedule No 6/18/3A dated 23/9/83
Test Procedure No 6/18/3A dated 23/9/83
Figures 1 to 3 dated 23/9/83.

23/9/83

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/18/3A

Pattern: Avery Model 4124 CLC Overhead-track Weighing Instrument

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

1. Description of Pattern

An Avery self-indicating overhead-track weighing instrument of 500 kg maximum capacity mounted in a permanently fixed position, and comprising:

a) An Avery model 4124 overhead-track lever system (Figure 1) with a weigh rail of 1200 mm nominal length, and approved for use with up to 3000 scale intervals; and

b) An Avery model CLC indicating mechanism (Figure 2) approved for use with up to 1000 scale intervals having either a dual dial indicator (in which case the tare bar is removed) or a single dial indicator. The indicator is mounted either to the left or the right of the transfer-lever pullrod.

1.1 Tare

An additive tare bar of 50 kg maximum capacity is fitted, graduated from either the left or the right end.

1.2 Markings

The instrument is marked with the following data, together in a clearly visible location:

Manufacturer's name or mark	
Model number	
Serial number of instrument	
NSC approval number	NSC No 6/18/3A
Accuracy class	(III)
Maximum capacity	Max ..... kg
Minimum capacity	Min ..... kg
Verification scale interval	e = d = .. kg
Maximum additive tare	T = + ... kg

1.3 Verification Mark

Provision is made for a verification mark to be applied.

2. Description of Variants

2.1 Variant 1

With the transfer lever and CLC indicating mechanism replaced by an HBM Z6H2 50 kg load cell (NSC approval No S135) and an Avery 8653 digital indicator (NSC approval No S113) modified to incorporate a separate tare indicator. This instrument (Figure 3) has the tare bar removed, has a maximum capacity of 300 kg and may be used with up to 3000 scale intervals.

2.2 Variant 2

With the indicating mechanism of the pattern replaced by a Commission-approved load cell and digital indicator, in which case the tare bar is removed.

2.3 Markings

For variants 1 and 2, where tare is provided, the marking for tare should read:

Maximum subtractive tare	T = - ..... kg

TEST PROCEDURE No 6/18/3A

All load applications should be in accordance with the Commission's recommended testing procedure for the elimination of rounding error, as set out in Document 104.

Where applicable, this Test Procedure should be carried out in conjunction with any tests in the approval documents for the load cell and for the digital indicator.

The maximum permissible errors are:

±0.5e for loads between 0 and 500e;
±1.0e for loads between 501e and 2000;
±1.5e for loads above 2000e.

1. Zero Range

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

2. Test Loads

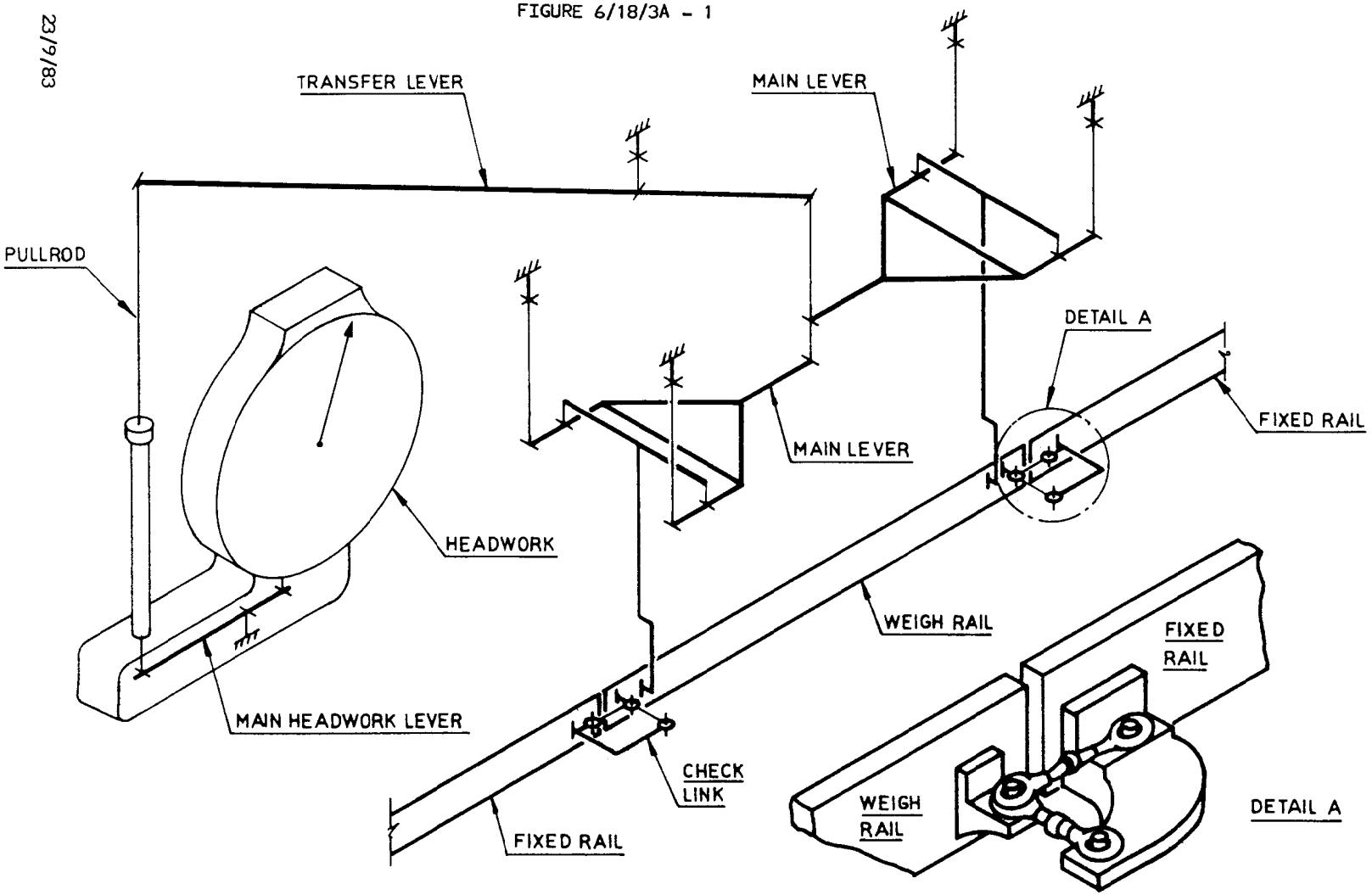
Test loads are to be applied to the instrument at the centre of the weigh rail in not less than 5 approximately equal steps increasing to maximum capacity, followed by decreasing loads in not less than 5 approximately equal steps to zero load.

This test should be repeated at each end of the weigh rail.

The instrument should display these loads within the applicable tolerance as listed above.

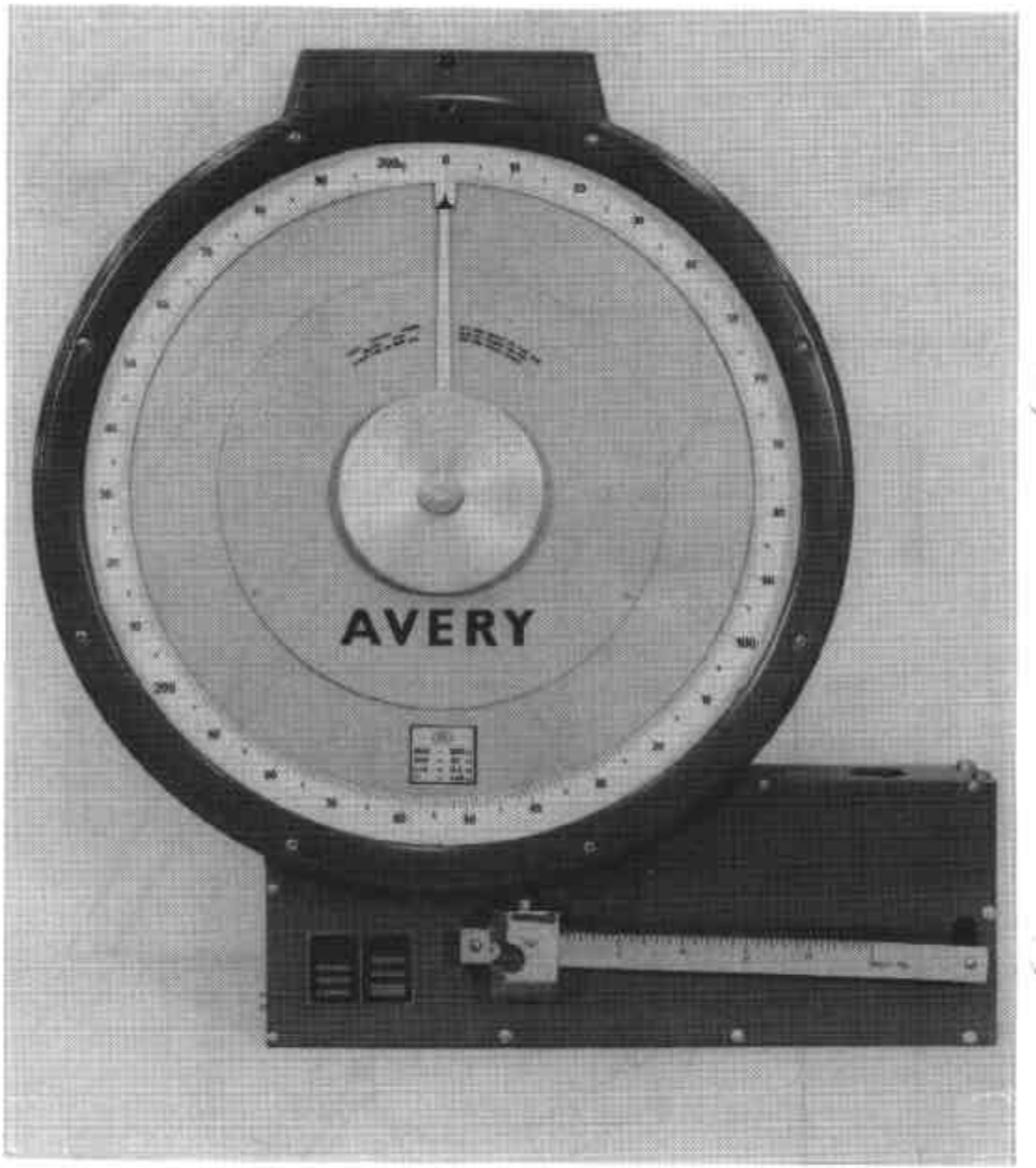
23/9/83

FIGURE 6/18/3A - 1



Avery Model 4124 CLC Overhead-track Weighing Instrument

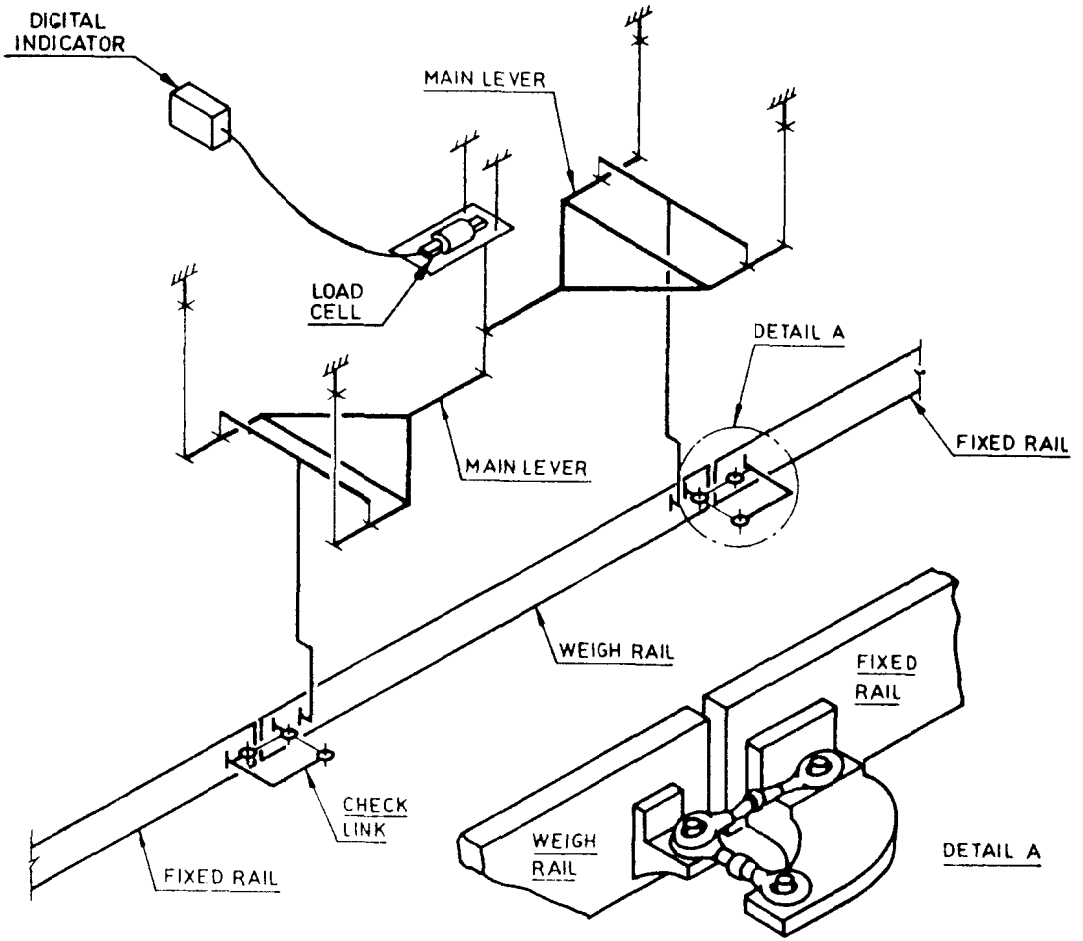
FIGURE 6/18/3A - 2



A Model CLC Indicator

23/9/83

FIGURE 6/18/3A - 3



Avery 4124 Load Cell/Digital Indicator Overhead-track Weighing Instrument