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NATIONAL STANDARDS COMMISSION

WEIGHTS & MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/9C/12A

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

Wedderburn Model 475 Weighing Instrument

submitted by J W Wedderburn & Sons Pty Ltd
90 Parramatta Road
Summer Hill, NSW, 2130

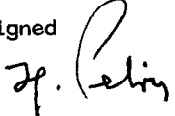
are suitable for use for trade.

In this Certificate the pattern and variants originally approved in Certificate No 6/9C/12 have been reviewed. Certificate No 6/9C/12 will expire on 1/3/83 with the effect that no new instruments purporting to comply with that Certificate will be accepted for verification after that date.

The approval of the pattern and variants is subject to review on or after 1/11/87.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/12A.

Relevant drawings and specifications are lodged with the Commission.

Signed

Executive Director

Descriptive Advice

Pattern: approved 25/10/82

- Wedderburn model 475 weighing instrument of capacity 25 kg by 0.05 kg scale intervals.

Variants: approved 25/10/82

1. With a capacity of up to 150 kg.
2. Pattern and variant 1 with the basework in an alternative housing.
3. With an alternative basework having a capacity of up to 500 kg.
4. With other Commission-approved lever-type baseworks.

5. With other Commission-approved headworks.
6. With the headwork in an alternative housing.
7. With a double-sided dial face.
8. With an oil-filled dashpot in the pullrod.
9. With the indicator suspended, in which case the basework is replaced with a scoop or hook, and having a capacity up to 25 kg.

Technical Schedule No 6/9C/12A dated 22/11/82 describes the pattern and variants 1 to 9.

Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/9C/12A dated 22/11/82
Technical Schedule No 6/9C/12A dated 22/11/82
Test Procedure No 6/9C/12A dated 22/11/82
Figures 1 to 5 dated 22/11/82.



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/9C/12A

Pattern: Wedderburn Model 475 Weighing Instrument

Submitter: J W Wedderburn & Sons Pty Ltd
90 Parramatta Road
Summer Hill, NSW, 2130.

1. Description of Pattern

A self-indicating weighing instrument (Figure 1), which comprises a two-lever basework and a spring-resistant dial indicator with a capacity of 25 kg approved for 500 scale intervals.

1.1 Indicator

The dial indicator consists of a two-spring resistant with two air dashpots, a rack and pinion drive, a dial face and revolving index enclosed in a housing. A pullrod connects the resistant mechanism to the basework. For higher capacities an additional two springs may be connected in parallel.
(The dial face is shown fitted to variant 2, see figure 5.)

1.2 Basework

The load receptor is supported on self-aligning bearings by the four main load knife-edges of a second-order two-lever system (Figure 2) mounted in a framework which is fitted with wheels, four levelling legs and a level indicator. A transverse rod which is attached to the underside of the load receptor, passes through holes in the basework frame and limits horizontal movement of the receptor. A 'c' shaped link connects the two levers.

An adjustable nose-end extension is fitted to one main lever, the nose-end of which is connected to the pullrod and pinned to prevent movement after adjustment.

1.3 Zero

Zero balance is achieved by a slotted-screw adjustment through the top of the indicator housing.

1.4 Markings

The instrument is marked with the following data, together in one location:

Manufacturer's name or mark

Serial number

NSC approval number

Accuracy class

Maximum capacity in the form:

Minimum capacity in the form:

Verification scale interval in the form:

NSC No 6/9C/12A

III

Max*

Min*

e = d =*

*In addition, these markings are repeated on the dial face.

2. Description of Variants

2.1 Variant 1

The pattern in other capacities up to 150 kg.

2.2 Variant 2

The pattern and variant 1 with the basework in an alternative housing (Figure 3).

2.3 Variant 3

With the basework replaced by an alternative basework for capacities up to 500 kg. This second-order two-lever system has a link with self-aligning bearings connecting the levers (Figure 4).

2.4 Variant 4

With the basework replaced by other Commission-approved lever-type baseworks, provided that the instrument is used with up to 500 scale intervals.

2.5 Variant 5

With the headwork replaced by other Commission-approved headworks, provided that the instrument is used with up to 500 scale intervals.

2.6 Variant 6

With the headwork in an alternative housing (Figure 5).

2.7 Variant 7

With a double-sided dial face.

2.8 Variant 8

With an oil-filled dashpot in the pullrod in lieu of the two air-filled dashpots in the resistant mechanism. An access hole is provided in the headwork-support pillar.

2.9 Variant 9

With the indicator suspended, in which case the basework is replaced with a scoop or hook. The maximum capacity is limited to 25 kg.

TEST PROCEDURE No 6/9C/12A

The maximum permissible errors are:

$\pm 0.5e$ for all loads between 0 and 500e.

1. Zero Range

The maximum range of operation of the zero adjustment should not exceed 4% of the capacity of the instrument ($\pm 2\%$ approximately).

2. Zero Setting

Zero should be set to within 0.25e of zero at approximately the middle of the zero adjustment range.

3. Load Test

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

The values of these loads should be indicated within the abovementioned tolerance.



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NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/9C/12A

CHANGE No 1

The following change is made to Certificate of Approval No 6/9C/12A dated 22/11/82 for the Wedderburn Model 475 Weighing Instrument:

In the second paragraph, change the expiry date given for Certificate of Approval No 6/9C/12, from 1/3/83 to 1/10/83 (to allow existing machines not yet sold to be put into service).

Signed

Executive Director

3/3/83

G.H.

CANCELLED

Cert. No. 0/3

21-12-90

6/9C/12A
17/8/87



NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

CERTIFICATE OF APPROVAL No 6/9C/12A

CHANGE No 2

The following changes are made to the approval documentation for the

Wedderburn Model 475 Weighing Instrument

submitted by J W Wedderburn & Sons Pty Ltd
90 Parramatta Road
Summer Hill NSW 2130.

In Technical Schedule No 6/9C/12A dated 22/11/82, the following footnote should be added to clause 1.4 Markings:

"Instruments with a verification scale interval > 20 g shall be marked NOT FOR SELLING DIRECT TO THE PUBLIC or similar."

Signed

Executive Director

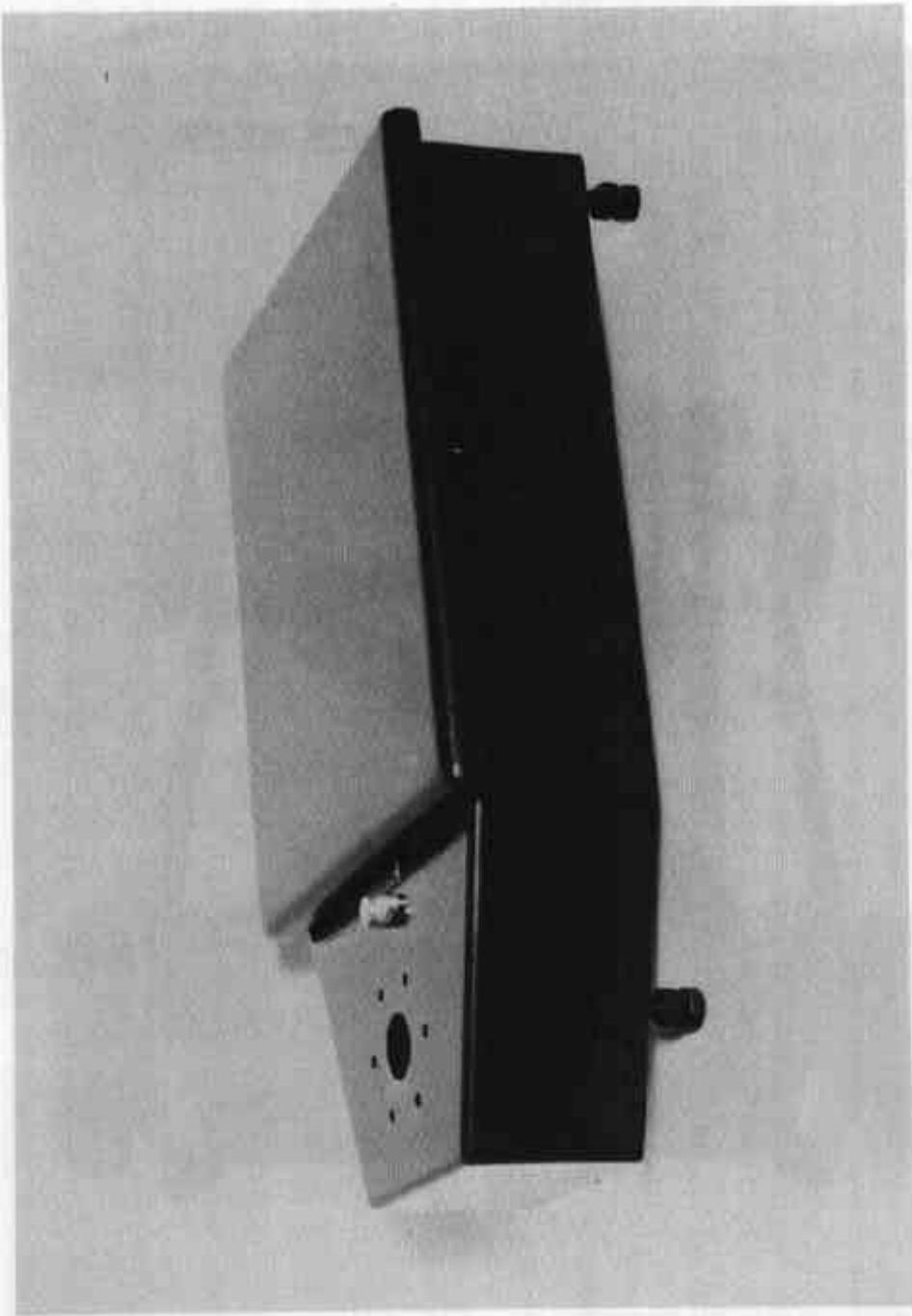
FIGURE 6/9C/12A - 1



Wedderburn Model 475 Weighing Instrument

22/11/82

FIGURE 6/9C/12A - 3



Fabricated 150 kg Basework Housing And Load Receptor

22/11/82

FIGURE 6/9C/12A - 4

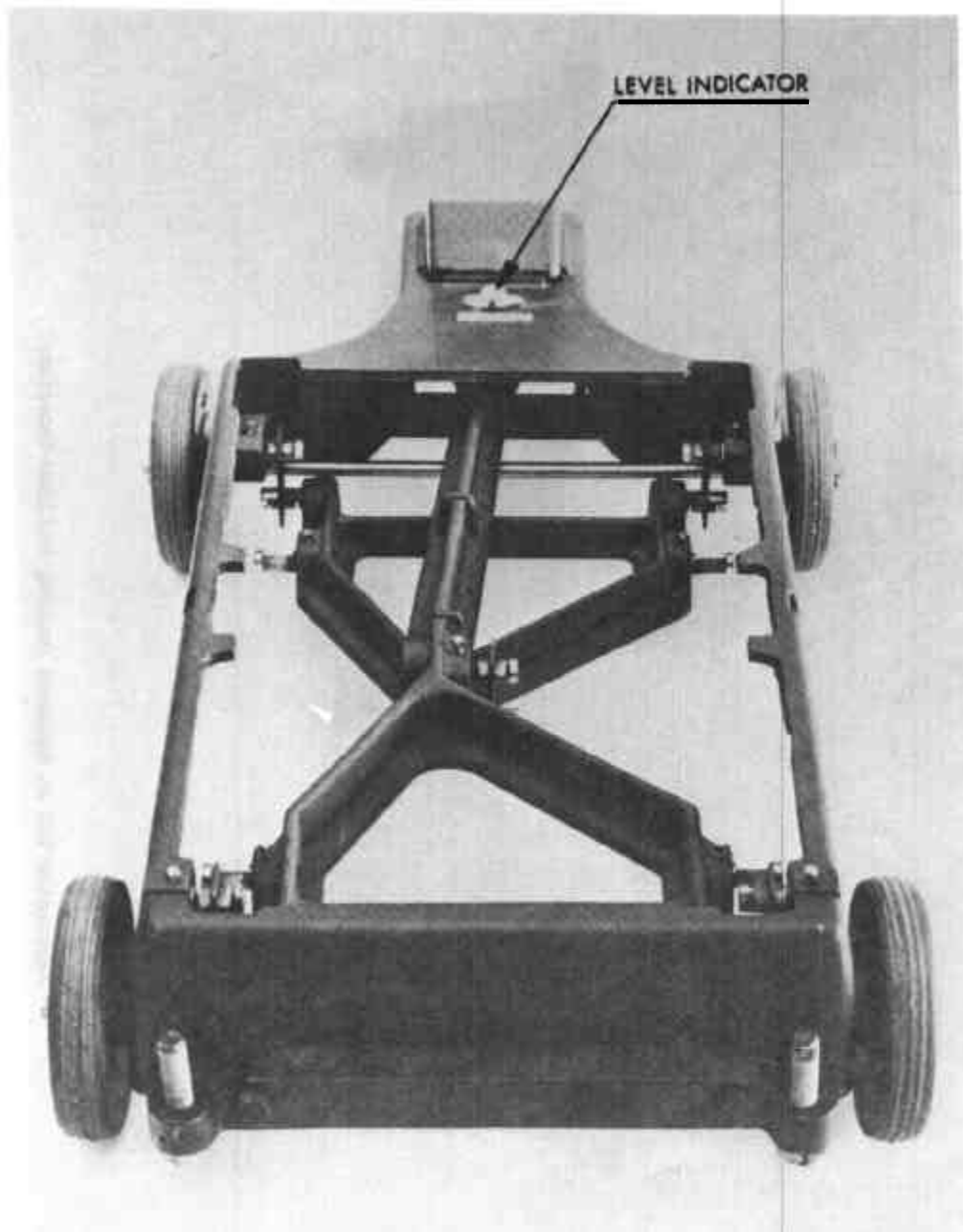
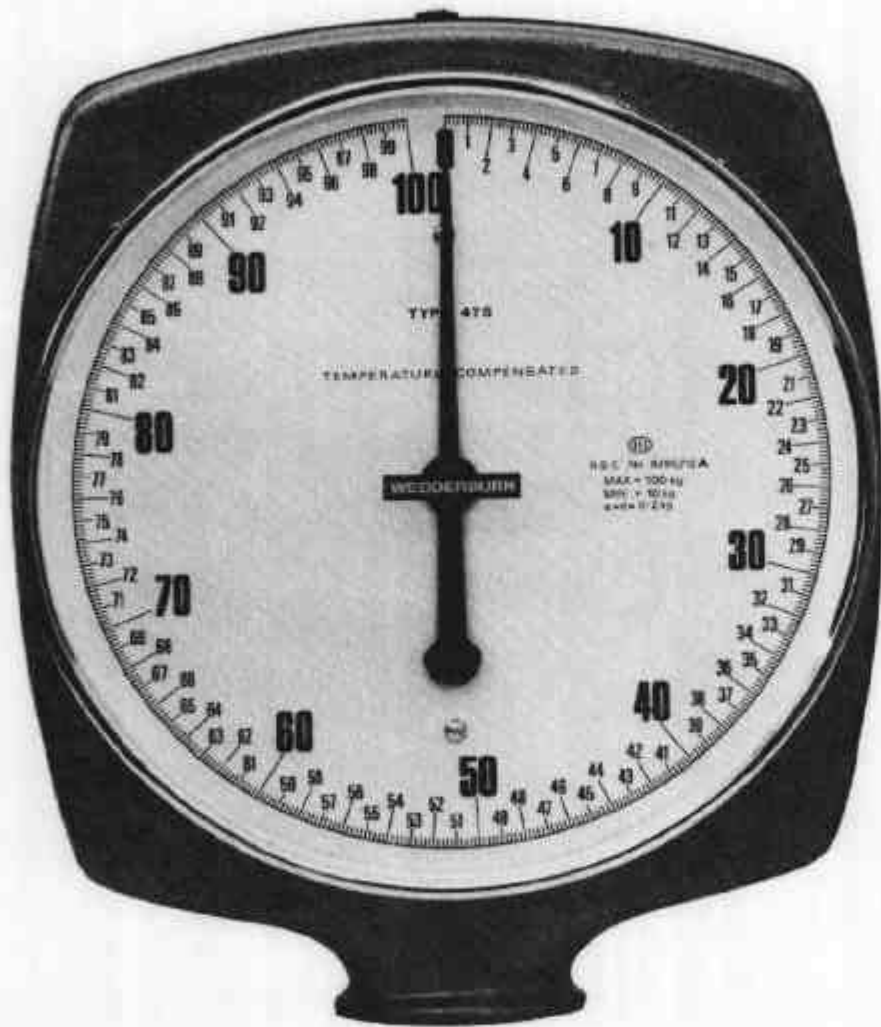


FIGURE 6/9C/12A - 5



Headwork In Alternative Housing

22/11/82