CERTIFICATE OF APPROVAL No 6/9C/12

VARIATION No 1

This is to certify that the following modification of the pattern and variants of the

Wedderburn Type 475 Weighing Instrument

approved in Certificate No 6/9C/12 dated 15 June 1973

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

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

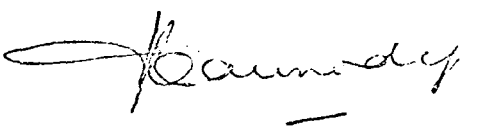
Date of Approval: 29 July 1974.

The approved modification provides for a fabricated basework housing and load receptor as described in Technical Schedule No 6/9C/12 — Variation No 1, and in drawings and specifications lodged with the Commission.

The approval is subject to review on or after 1 August 1979.

All instruments conforming to this approval shall be marked with the approval number "NSC No 6/9C/12".

Signed



Executive Officer

Interest

29/7/74

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 6/9C/12

This Certificate replaces Certificate No 6/9C/12 dated 11 June 1970. *

In respect of the pattern of

Wedderburn Self-indicating Weighing Instrument of 112-lb Capacity and Variants.

Submitted and manufactured by:

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

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 some variants were approved on 9 October 1967 and other variants were approved on 30 May 1973 (see Figure 11).

Approval for the pattern and some variants was withdrawn on 30 May 1973 (see Figure 11).

* NOTE: Figures 6/9C/12 - 1 to 5 of the previous issue form part of the Certificate and must be retained.

Cont'd over

The pattern and variants:

1. are marked "NSC No 6/9C/12" and, where 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 those parts which were not previously approved by a State.

This Certificate comprises:

Pages 1 to 5 dated 15 June 1973.
Figures 6/9C/12 - 1 to 5 dated 11 June 1970.
Figures 6/9C/12 - 6 to 11 dated 15 June 1973.

Pursuant to regulation 12 of the abovementioned Regulations, variants incorporating components marked ** are approved only in those States in which a State approval of a pattern incorporating that component is in force.

Date of issue 15 June 1973.

Signed

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

†DESCRIPTION OF PATTERN

The pattern (see Figure 1) is of a self-indicating platform weighing instrument of 112-lb capacity having 4-oz graduations, and comprises the components tabulated in Column 5 of Figure 11. The pattern is known as a Wedderburn Type 475 platform scale.

DESCRIPTION OF VARIANTS

The components tabulated in the columns marked "Variants" in Figure 11 make up the variants of the pattern with capacities up to the capacities of the baseworks described in the components.

DESCRIPTION OF COMPONENTS

1. Two-lever system basework (see Figures 2, 3 and 4) — consists of two second-order main levers. The platform is mounted on self-aligning bearings supported on four load knife-edges. The lever fulcrum knife-edges are supported by self-aligning bearings in swinging links from the four corners of the base-frame. Two stays between the platform and lugs on the base-frame limit horizontal movement of the platform.

   The main levers are linked by a C-shaped bearing and the nose-end knife-edge, which is fitted in an adjustable extension of one of the main levers, is connected to the headwork pullrod at the rear of the platform; the adjusting screw is fitted with a lock-nut.

   The maximum capacity is 150 kg.

2. Two-lever system basework (see Figures 2, 6 and 7) — the levers are similar to Component 1 except that the C-shaped bearing is replaced by a link in which self-aligning bearings are fitted. The adjustable extension of the main lever is also modified as shown in Figure 7. After adjustment, the extension containing the nose-end knife-edge is pinned to prevent movement.

   Movement of the platform is limited by a rod fixed to the base-frame and passing through two clearance holes in the platform (see Figure 7).

† Approval withdrawn on 30 May 1973.

The knife-edges of the two main levers are force-fits in the levers and retained in position by hardened cup-pointed square-head set screws tightened to a minimum torque of 6 N. m.

The maximum capacity is 500 kg.

3. The basework of any State-approved** or Commission-approved pattern.

4. Wheels, levelling feet and level indicator shown in Figure 6.

5. Spring-resistant mechanism (see Figure 5) — consists of two pairs of temperature-stable springs suspended from a cross-member to which the zero-adjustment screw is fitted. The lower ends of the springs support another cross-member to which is attached the pullrod and a mild steel post from which is suspended the phosphor-bronze rack. Overhung weights and a roller maintain the rack in constant mesh with the steel pinion whose shaft rotates in ball bearings and carries the indicating pointer. The mechanism is suitable for dials with up to 1.65 graduations per degree.

6. Spring-resistant mechanism (see Figures 8 and 9) — similar to Component 5 except that there are four pairs of temperature-stable springs.

7. Dial housing and pillar (see Figures 1, 5 and 10) — the resistant mechanism is located in a housing mounted on a pillar attached to the base-frame. All covers on the housing are fitted with dust seals.

†8. Single circular dial (see Figure 1) — graduated with the zero and full-capacity graduation coincident.

9. Single circular dial (see Figure 10) — graduated with a blank space between zero and full-capacity graduation.

†10. Two circular dials, both graduated as described in Component 8, are mounted one on each side of the dial housing.

** See page 2.

† Approval withdrawn on 30 May 1973.

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11. Two circular dials, both graduated as described in Component 9, are mounted one on each side of the dial housing.

12. Two air dashpots (see Figures 5 and 8) — are suspended from the dial housing and connected to the lower cross-member in the resistant mechanism.

13. An oil-filled dashpot (see Figure 9) — accessible through an inspection port located in the column.

14. The headwork of any State-approved** or Commission-approved pattern.

GENERAL NOTES

1. Approval of the variant with a dual-graduated dial has been deleted because such dials are no longer permitted for use for trade.

2. Approval of the pattern and variants with dials with the zero and full-capacity graduation marks coincident has been withdrawn because this dial does not comply with the General Specifications.

** See page 2.

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NATIONAL STANDARDS COMMISSION

CANCELLATION OF CERTIFICATE OF APPROVAL No 6/9C/12

This is to certify that Certificate of Approval No 6/9C/12 for 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

(including Variation Certificate) will expire* in respect of new instruments on **1/3/83.**

Instruments which were verified on or before 28/2/83 may, with the concurrence of the State or Territorial verifying authorities, be submitted for reverification.

Signed

Executive Director

*Instruments conforming to the pattern and variants do not comply with the current design rules.

22/11/82

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/9C/12

VARIATION No 1

Pattern: Wedderburn Type 475 Weighing Instrument

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

Date of Approval of Variation: 29 July 1974

The modification described in this schedule applies to the patterns described in the following pages and figures of Certificate No 6/9C/12 dated 15 June 1973:

Pages 3 to 5 dated 15 June 1973
Figures 6/9C/12 - 1 to 5 dated 11 June 1970
Figures 6/9C/12 - 6 to 11 dated 15 June 1973

All instruments conforming to this approval shall be marked "NSC No 6/9C/12".

Description:

The approved modification provides for a fabricated basework housing and fabricated load receptor of maximum capacity 150 kg. The basework is fitted with four levelling feet and a level indicator (see Figure 12).

FIGURE 6/9C/12 - 1

Type 475 Platform Scale

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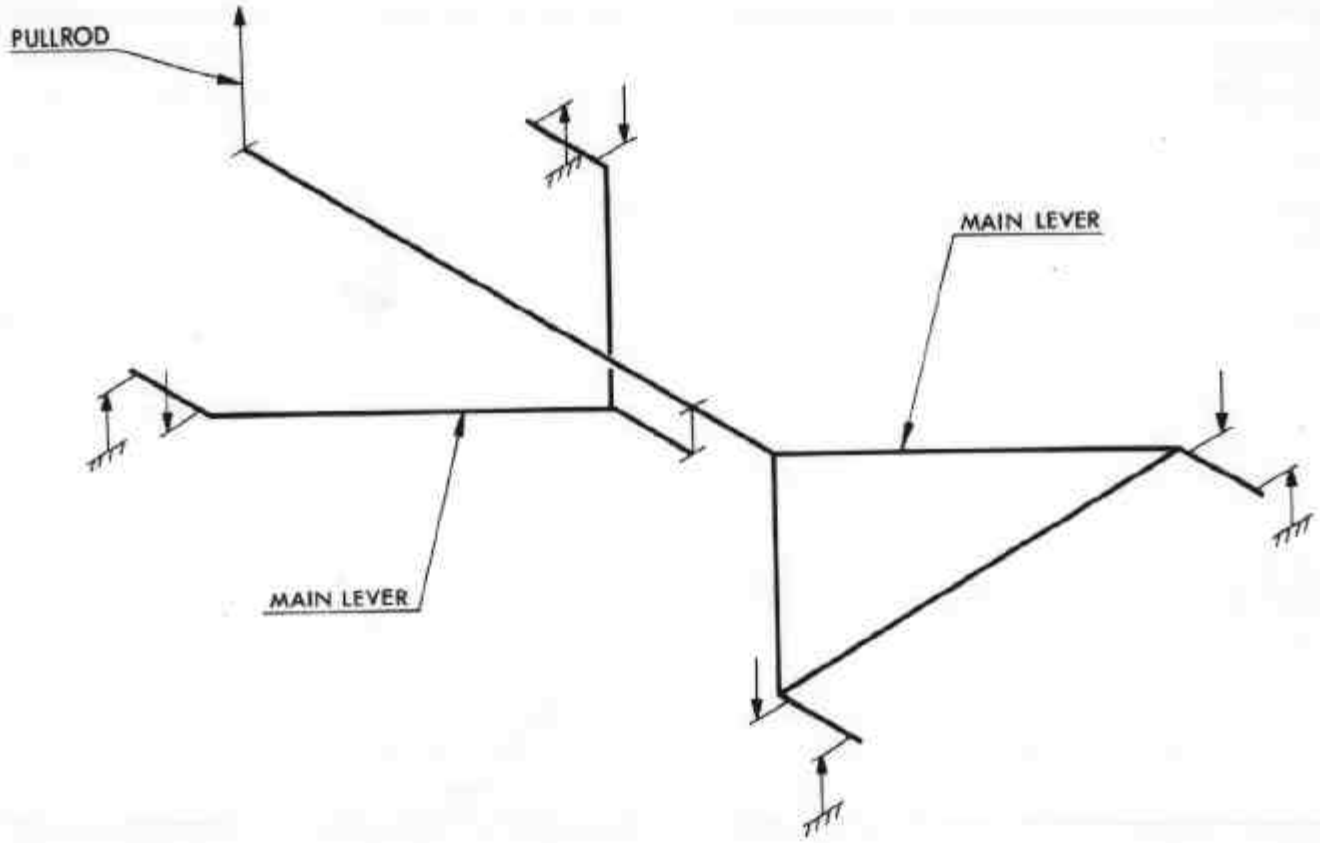
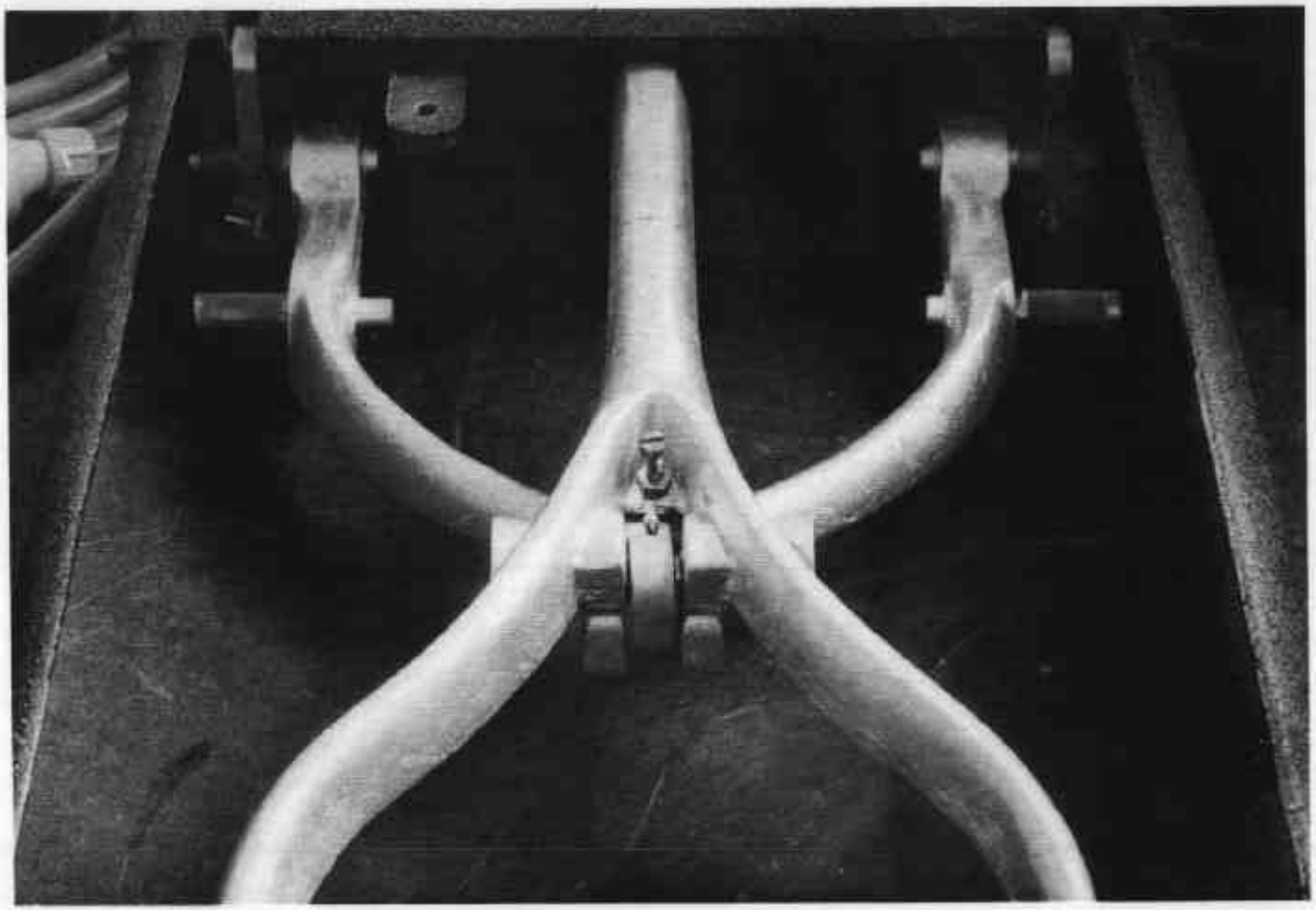
FIGURE 6/9C/12 - 2



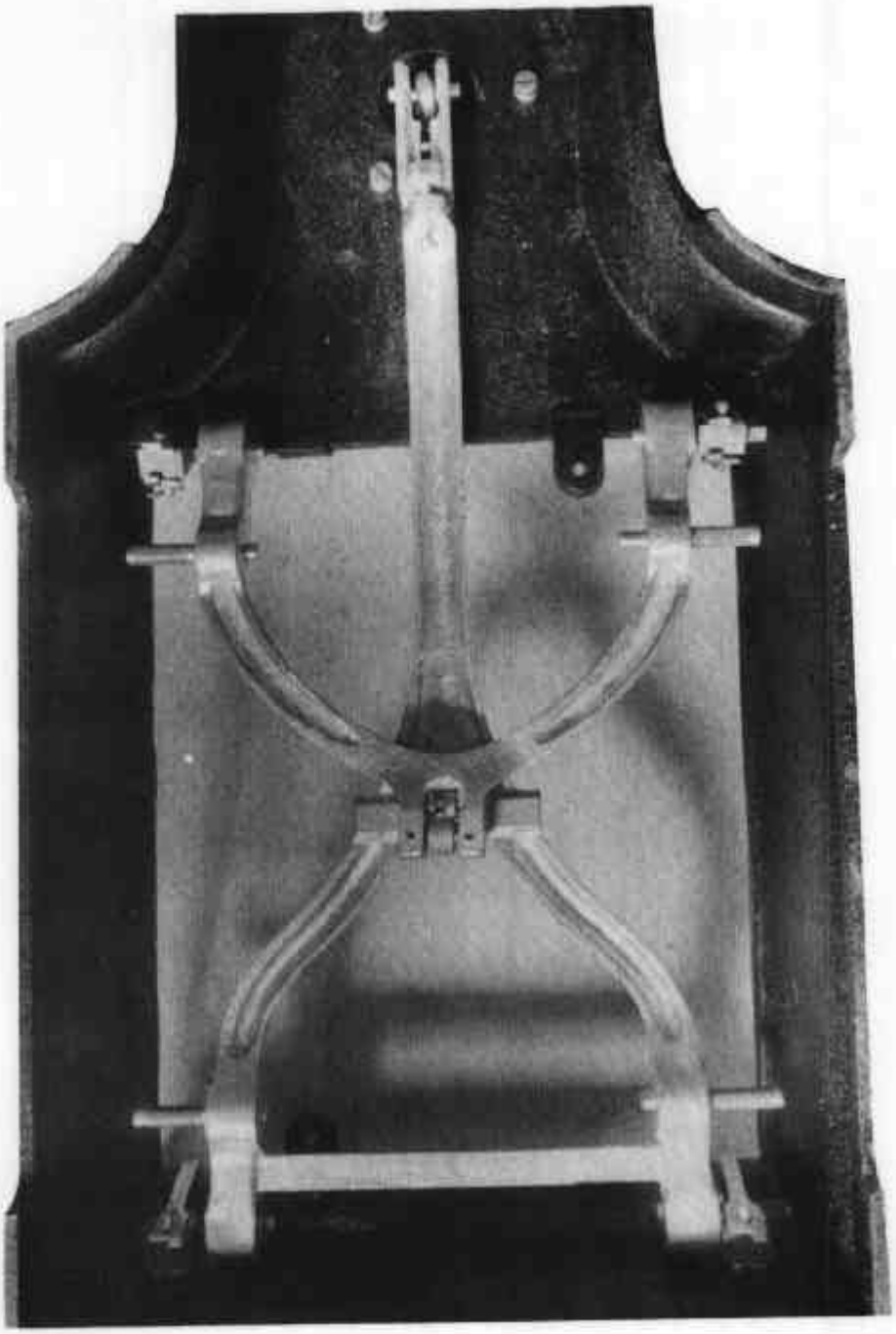
Lever Diagram

FIGURE 6/9C/12 - 3



Lever System from above

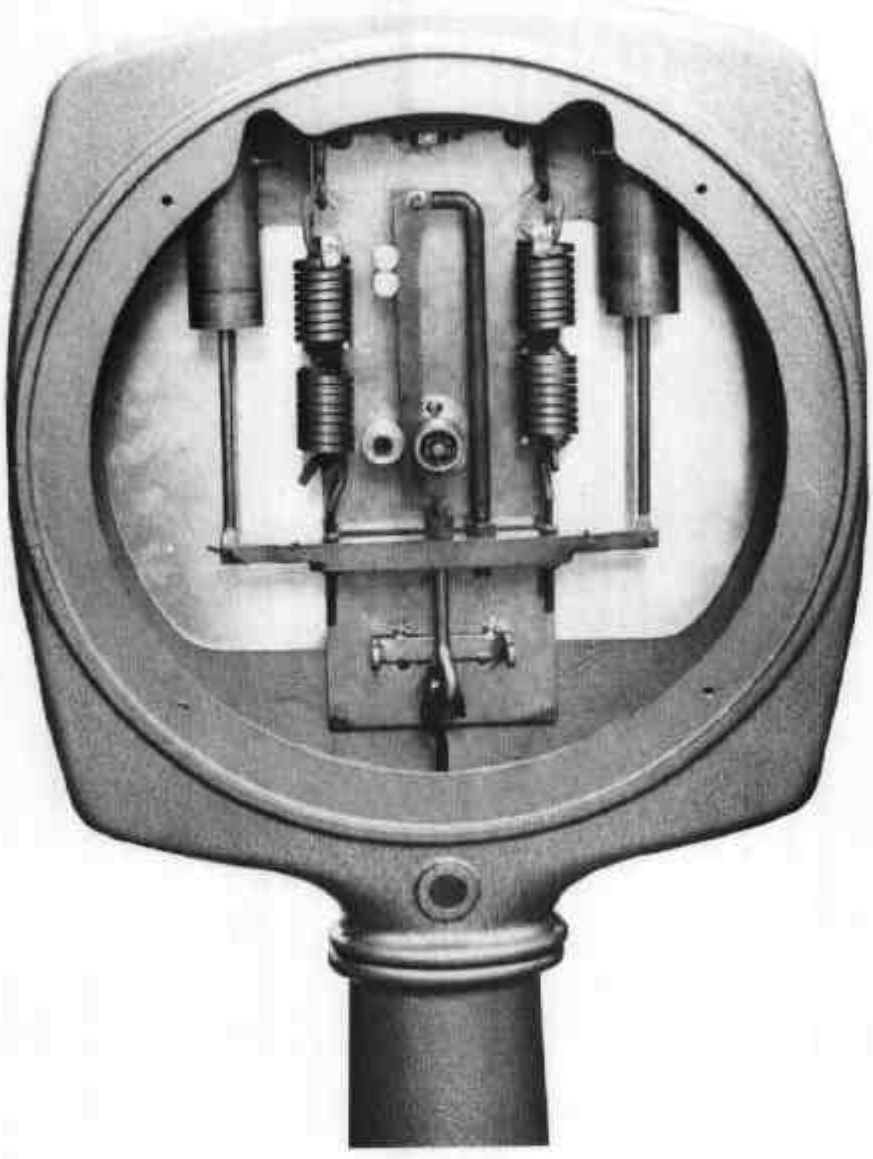
FIGURE 6/9C/12 - 4



Lever System from below

11/6/70

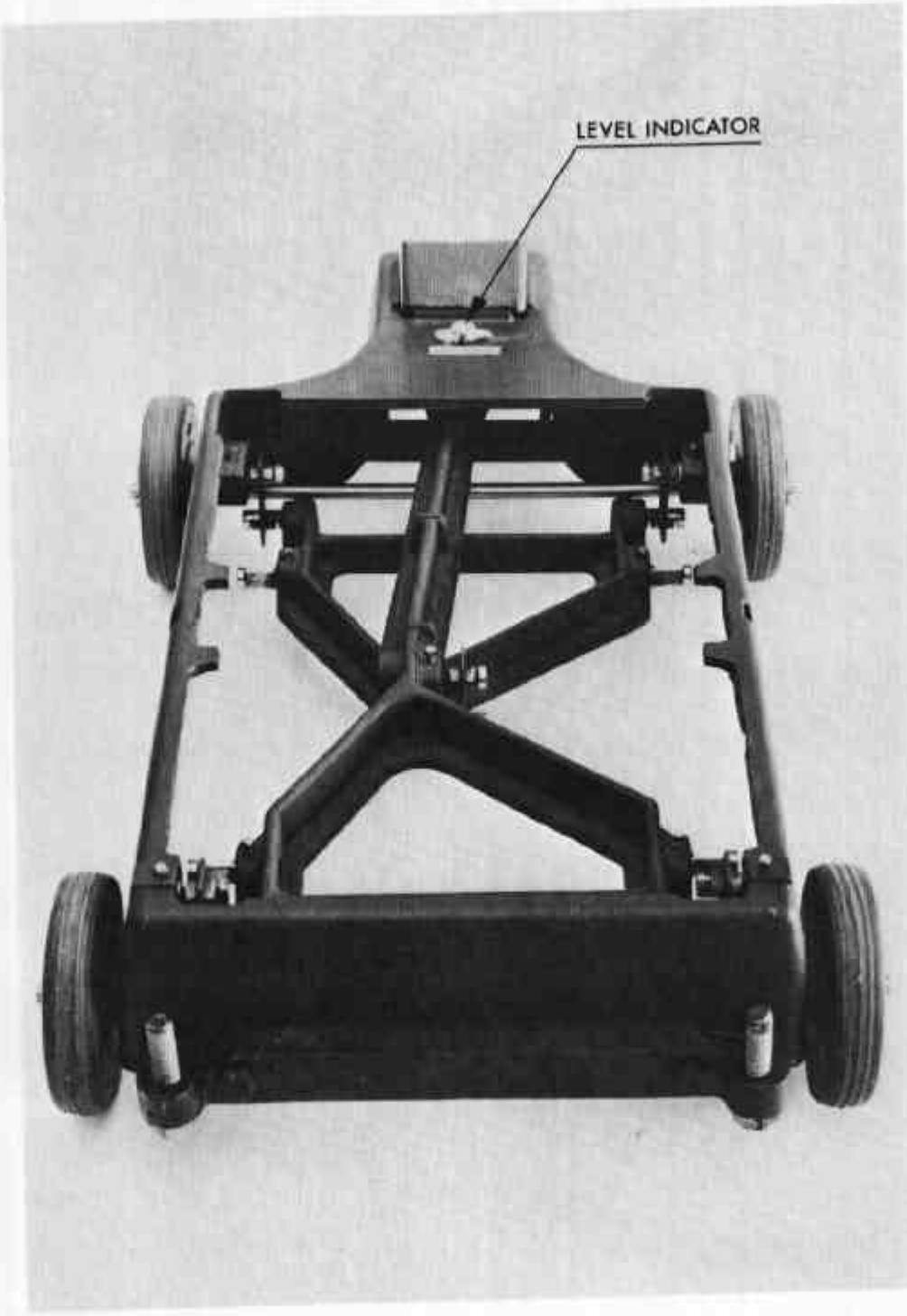
FIGURE 6/9C/12 - 5



Headwork Spring Resistant

11/6/70

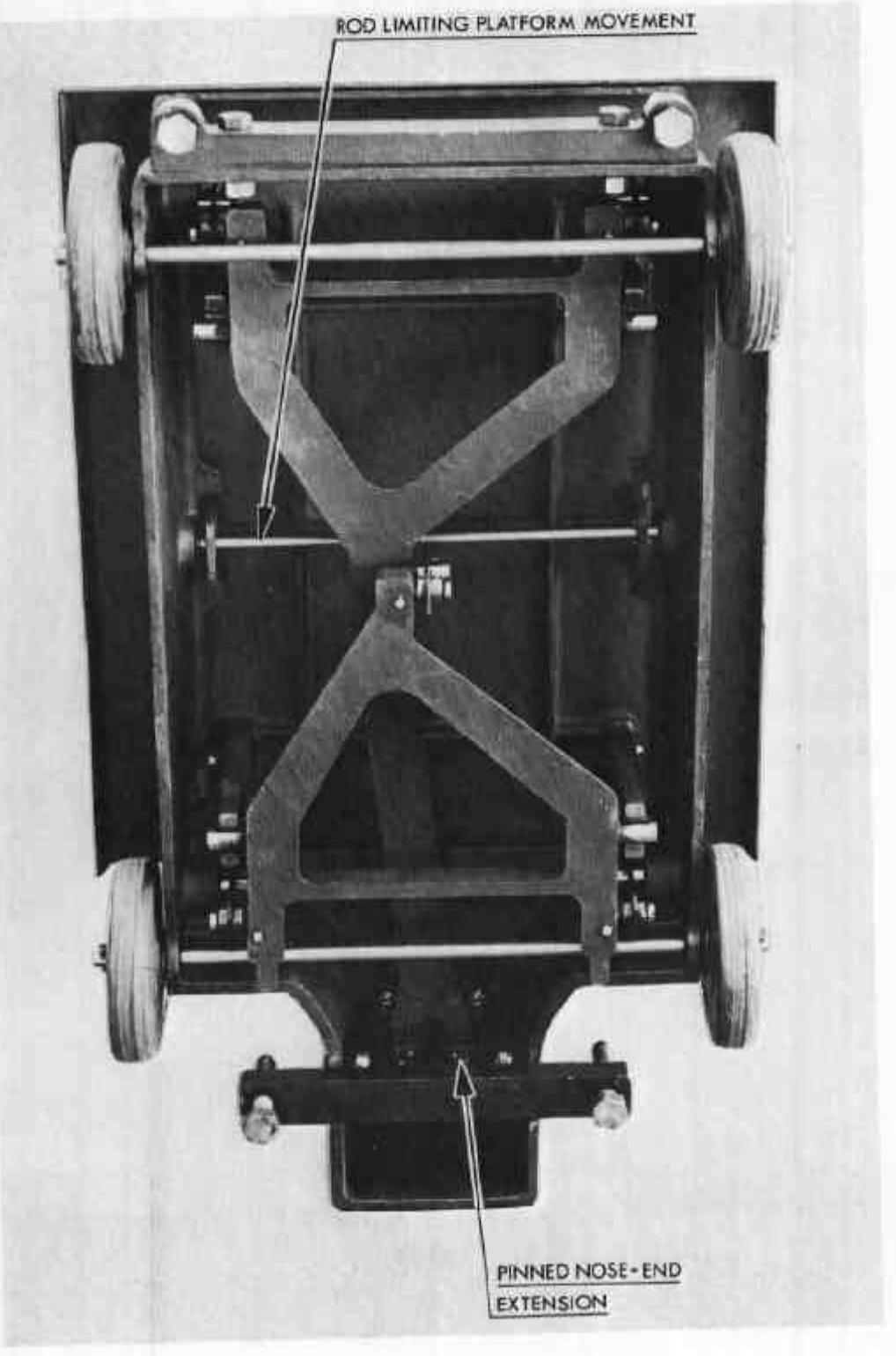
FIGURE 6/9C/12 - 6



500-kg Lever System from above

15/6/73

FIGURE 6/9C/12 - 7



500-kg Lever System from below

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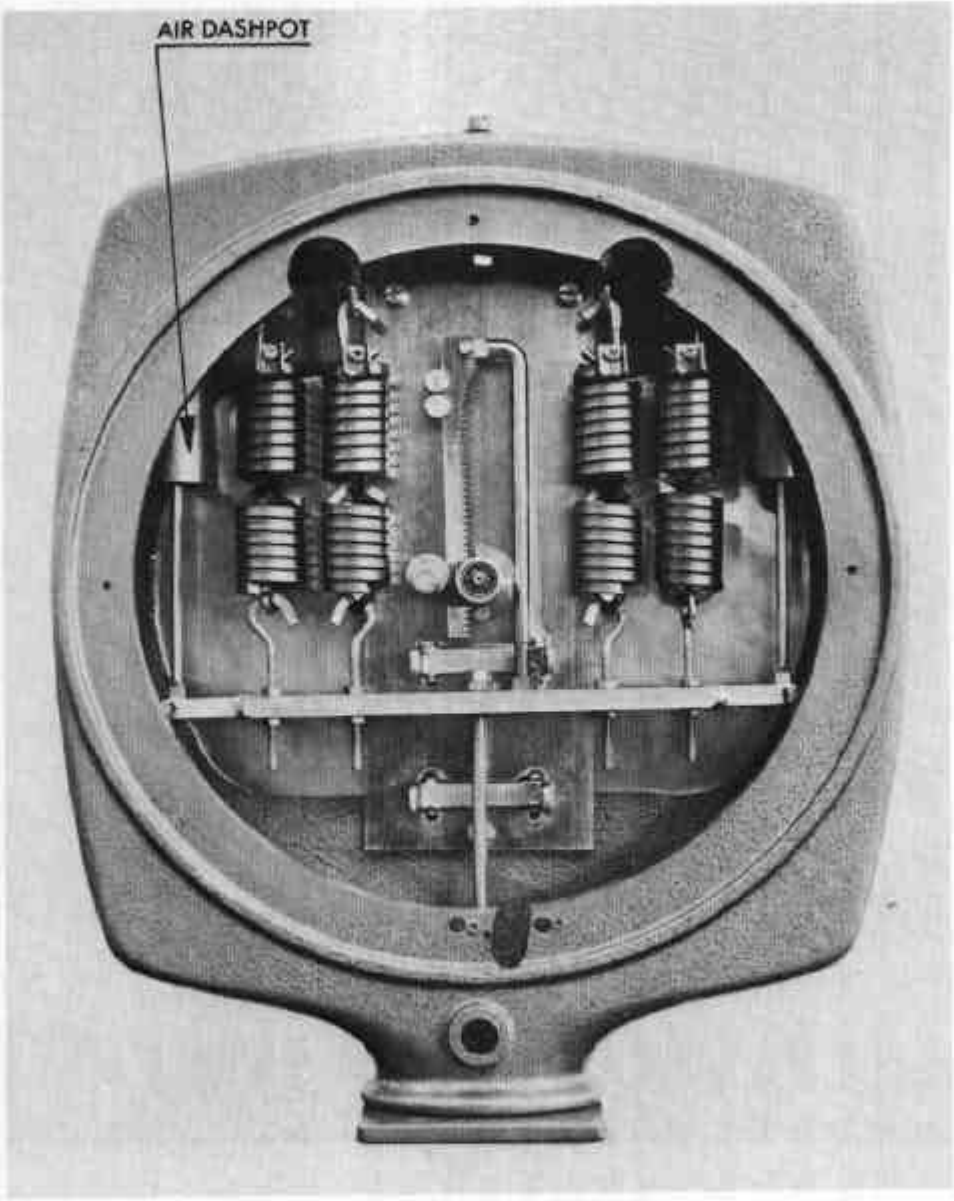
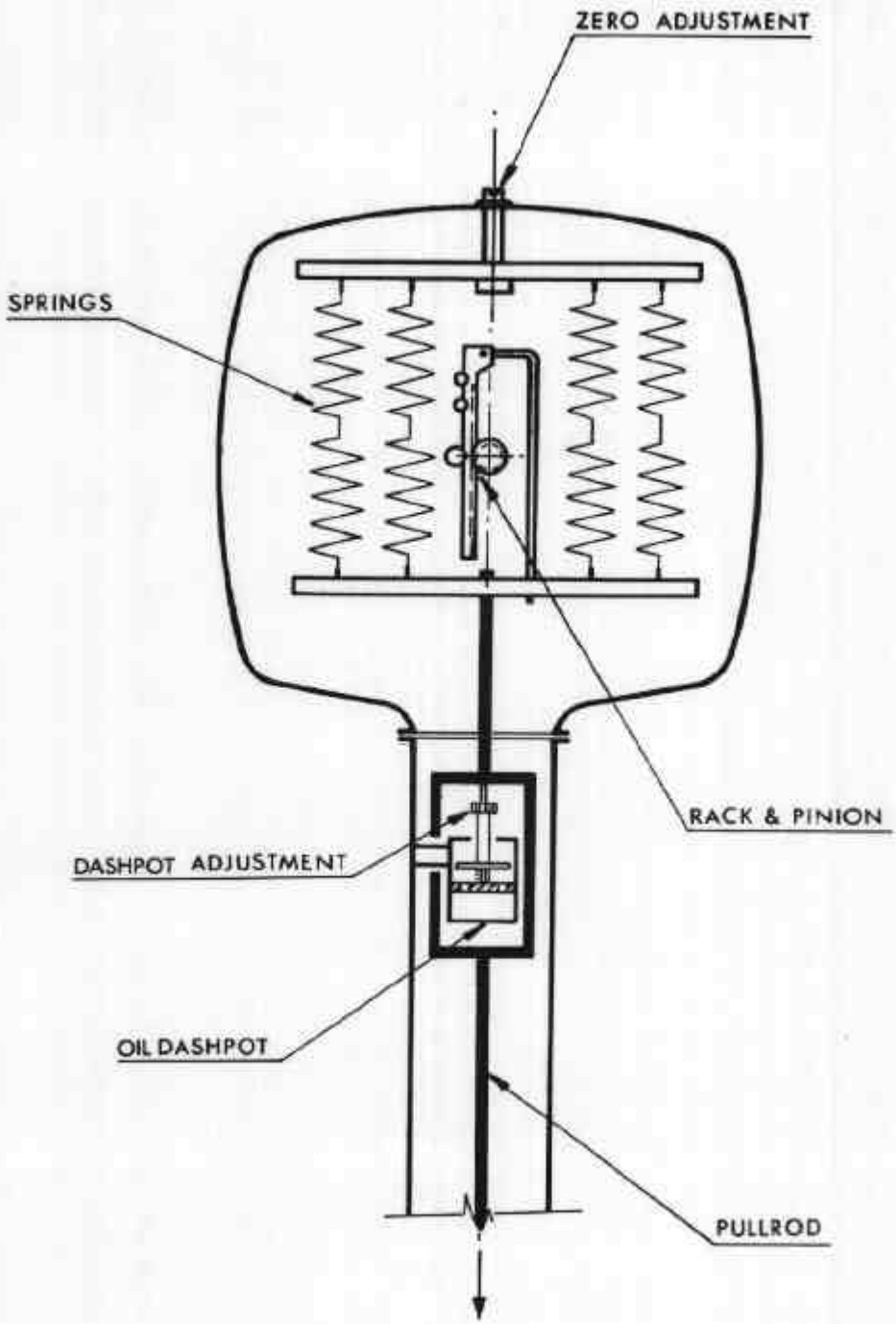


Spring-resistant Mechanism fitted with Air Dashpots

FIGURE 6/9C/12 - 9



Spring-resistant Mechanism
fitted with Oil-filled Dashpot in Column

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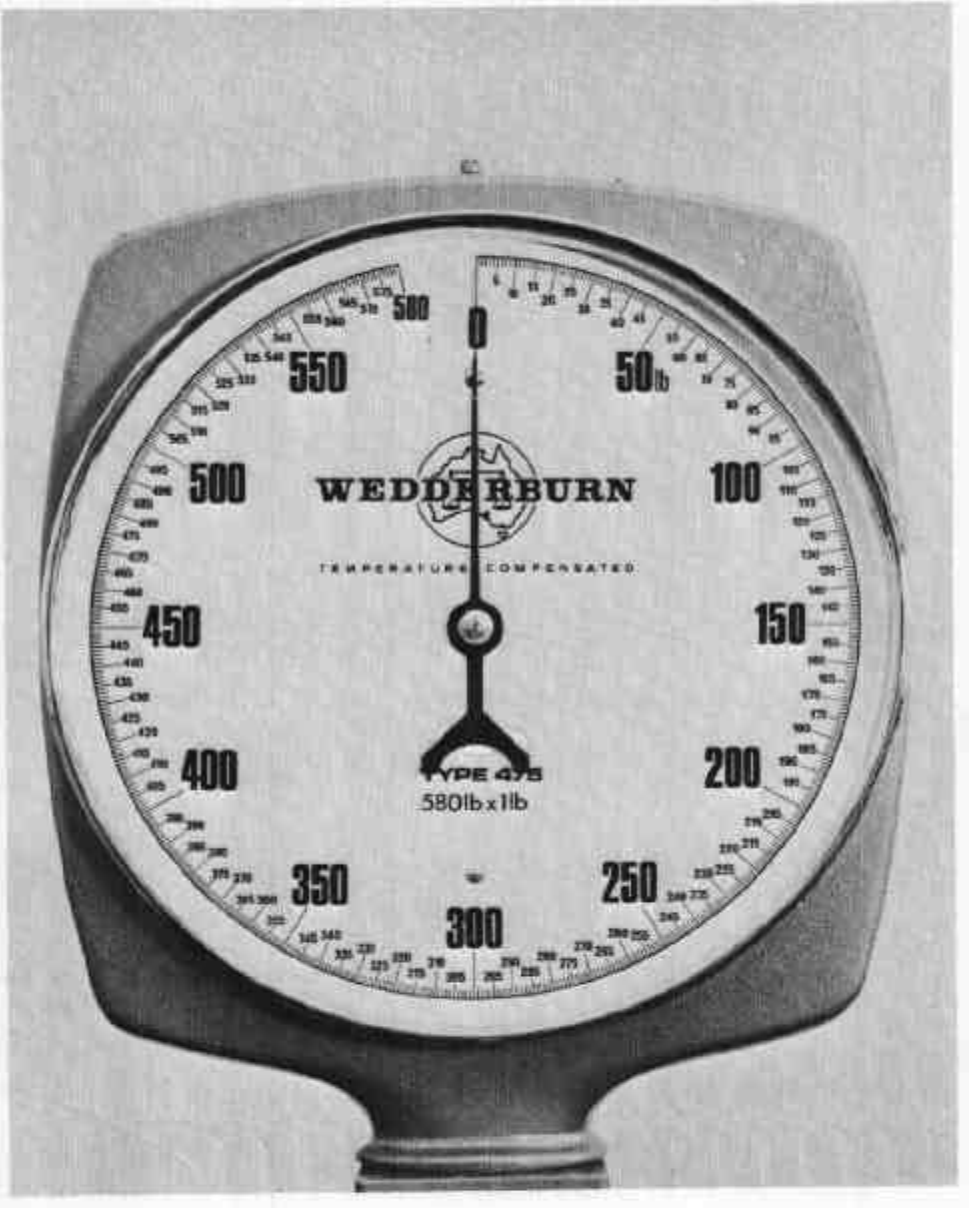
FIGURE 6/9C/12 - 10



Dial

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FIGURE 6/9C/12 - 11

1	2	3	4	5	6	7	8
	COMPONENTS	DATE APPROVED	FOOT-NOTES	[PATTERN]	VARIANTS		
					1	2	3
	BASEWORKS						
1	Two-lever system to 150 kg (Figures 2, 3 & 4)	9 OCT 67		*	A		A
2	Two-lever system to 500 kg (Figures 2, 6 & 7)	30 MAY 73				A	A
3	Basework of other Commission or State-approved patterns	30 MAY 73			A	A	
	BASEWORK COMPONENTS						
4	Wheels, levelling feet and level indicator (Figure 6)	30 MAY 73			‡	‡	‡
	HEADWORK COMPONENTS						
5	Spring-resistant mechanism (Figure 5)	9 OCT 67		*	*		
6	Spring-resistant mechanism (Figures 8 & 9)	30 MAY 73				*	
7	Dial housing (Figures 1, 5 & 8)	9 OCT 67		*	*	*	
[8	Single circular dial (Figure 1)]	9 OCT 67		[*]	[B]		
9	Single circular dial (Figure 10)	30 MAY 73			B	B	
[10	Two dials, Component 8]	9 OCT 67			[B]		
11	Two dials, Component 9	30 MAY 73			B	B	
12	Two air dashpots (Figures 5 & 8)	9 OCT 67		*	C	C	
13	Oil-filled dashpots (Figure 9)	30 MAY 73			C	C	
	HEADWORKS						
14	Headwork of other Commission or State-approved patterns	30 MAY 73					*

* - indicates required components
A - indicates alternative components, one of which is required
B, C - as for A
‡ - indicates optional components
[ ] - approval withdrawn 30 May 1973

Compatibility Table for Components Described in this Certificate

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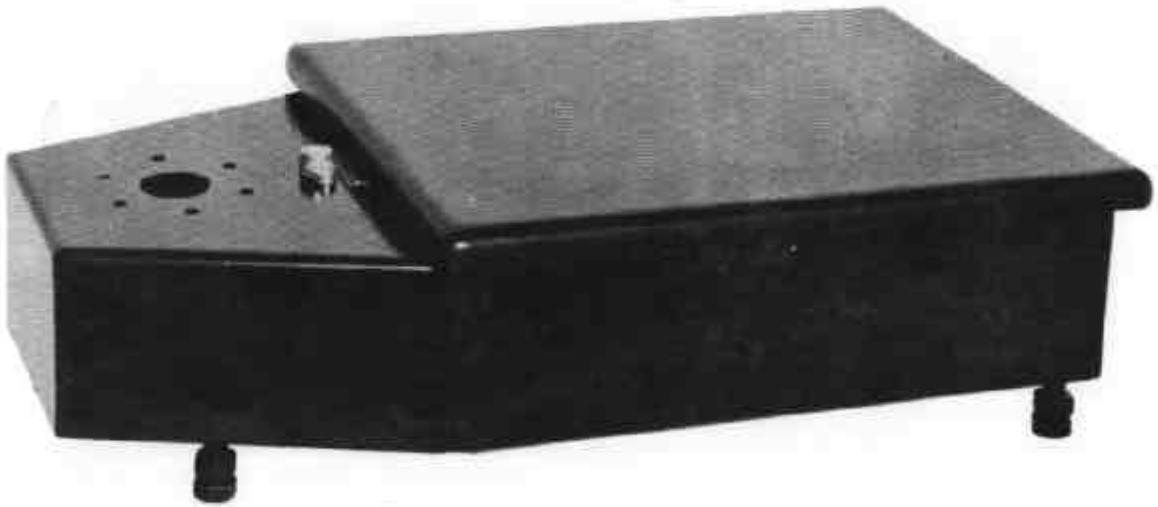

Fabricated 150-kg Basework Housing and Load Receptor