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NATIONAL STANDARDS COMMISSION
WEIGHTS & MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/9C/26A

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

Suprema Model 3G 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/26 have been reviewed. Certificate No 6/9C/26 will expire on 1/6/83 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 1/5/88.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/26A.

Relevant drawings and specifications are lodged with the Commission.

Signed

Executive Director

Descriptive Advice

Pattern: approved 13/4/83

- . A self-indicating weighing instrument of 722 kg capacity by 0.5 kg scale intervals.

Variants: approved 13/4/83

1. Without the main headwork lever.
2. Without the tare bar.
3. With a double-sided dial indicator, in which case no tare bar is fitted.
4. Without the headwork locking device.
5. With a capacity of 1405 kg by 1 kg scale intervals.
6. With other Commission-approved lever-type baseworks in which case the headwork is suitable for use with up to 1405 scale intervals.
7. With other Commission-approved headworks in which case the basework is suitable for use with up to 3000 scale intervals.

Technical Schedule No 6/9C/26A dated 2/5/83 describes the pattern and variants.

2/5/83

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Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/9C/26A dated 2/5/83
Technical Schedule No 6/9C/26A dated 2/5/83
Test Procedure No 6/9C/26A dated 2/5/83
Figures 1 to 5 dated 2/5/83



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/9C/26A

Pattern: Suprema Model 3G Weighing Instrument

Submitter: J W Wedderburn & Sons Pty Ltd
90 Parramatta Road
SUMMER HILL, NSW, 2130

1. Description of Pattern

The pattern (Figure 1) is a self-indicating platform weighing instrument of 722 kg capacity. The capacity of 722 kg includes a dial capacity of 600 kg with the indicator making three revolutions of the dial, which is marked to 200 kg by 500 g graduations. The major tare bar has a capacity of 120 kg by 2 kg graduations and the minor tare bar has a capacity of 2 kg by 500 g graduations. The instrument uses a 3-lever system basework (Figures 2 and 3).

1.1 Zero Adjustment

By inserting a screwdriver through a hole in the front of the basework housing (Figure 2) a threaded rod can be turned to adjust the position of a balance weight.

1.2 Dial Indicator

The indicator (Figure 4) makes up to three revolutions of the dial and with each revolution the flash dial changes the major graduations visible in the principal dial apertures. The resistant mechanism is suitable only for dials with up to 1.15 graduations per degree.

1.3 Indicator Housing

The resistant mechanism is located in a housing mounted on a pillar attached to the base frame (Figure 5). All covers on the housing are fitted with dust seals.

An oil-filled dashpot fitted to the pullrod is accessible through a covered port in the column (Figure 4).

1.4 Headwork Locking Device

A handle on the top of the dial housing can be used to lock the pendulums (Figures 4 and 5). A notice on the top of the dial indicates the direction the handle is to be turned to lock and unlock the headwork.

LOCKING HANDLE

ROTATE CLOCKWISE TO UNLOCK

1.5 Tare Bar

The tare bar (Figure 4) mounted on the main headwork lever, consists of a major tare bar fitted with a movable poise, housing a minor tare bar which can be adjusted in increments equal to the graduations on the dial. The major bar is graduated in increments equal to the capacity of the minor bar.

1.6 Markings

The instruments are marked with the following data, together in one location:

Manufacturers name or mark	
Serial number	
NSC approval number	6/9C/26A
Accuracy class	(III)
Maximum capacity	Max.....kg
Minimum capacity	Min.....kg
Scale interval	e = d =kg
Maximum additive tare	T = +kg

2. Description of Variants

2.1 Variant 1

Without the main headwork lever.

2.2 Variant 2

Without the tare bar.

2.3 Variant 3

With a double-sided dial indicator, in which case there is no tare bar fitted.

2.4 Variant 4

Without the headwork locking device.

2.5 Variant 5

With a capacity of 1405 kg by 1 kg scale intervals.

2.6 Variant 6

With the basework replaced by other Commission-approved lever-type baseworks in which case the headwork is suitable for use with up to 1405 scale intervals.

2.7 Variant 7

With the headwork replaced by other Commission-approved headworks (including digital indicators) in which case the basework is suitable for use with up to 3000 scale intervals.

TEST PROCEDURE No 6/9C/26A

The maximum permissible errors are:

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

1. Pattern

1.1 Load Test

Test loads are to be applied to the complete weighing instrument increasing in not less than 5 approximately equal steps to maximum capacity, followed by decreasing loads in not less than 5 approximately equal steps to zero load.

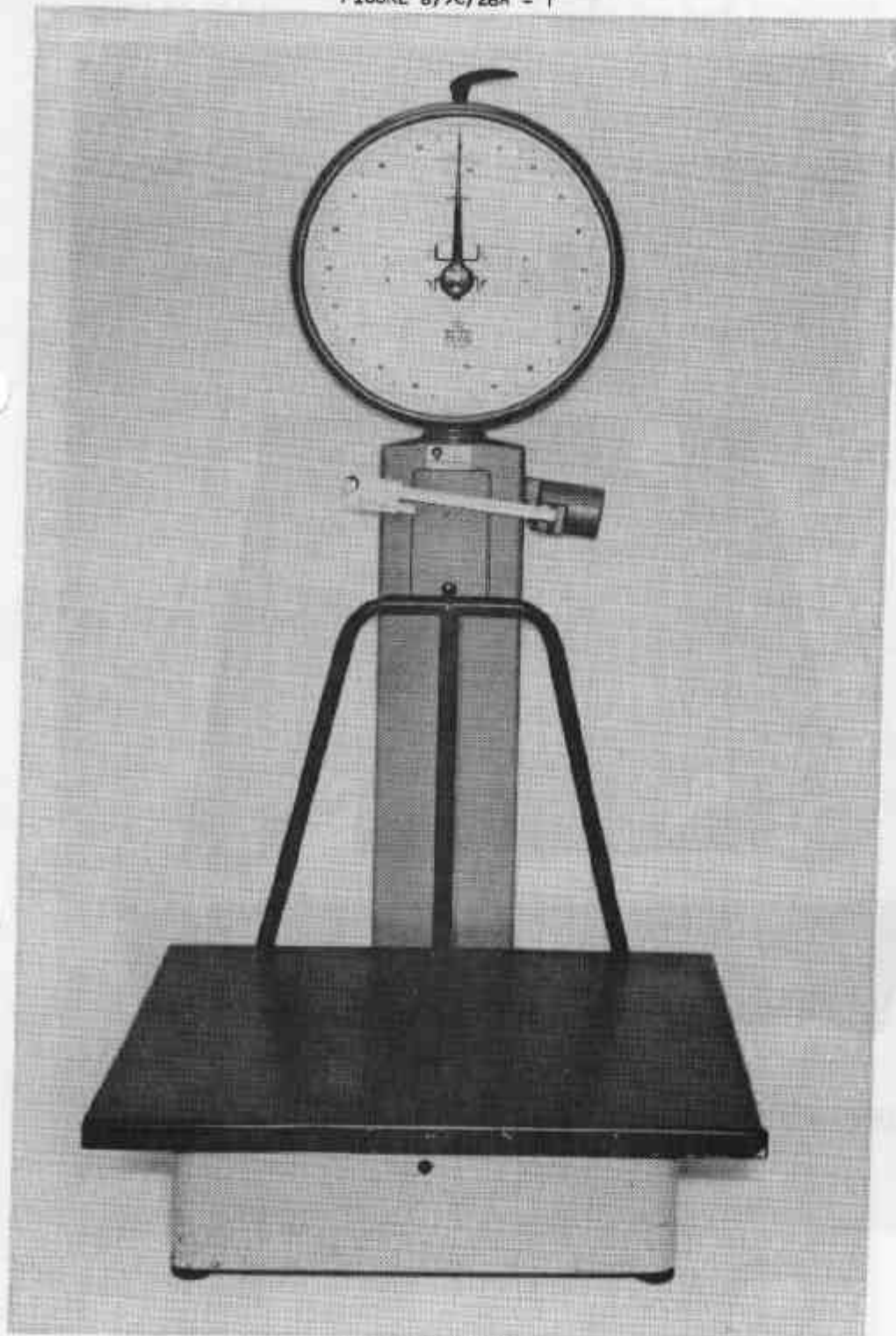
1.2 Tare

Apply maximum additive tare and repeat 1.1 Load Test, checking that the indicator reads zero when the mass on the receptor equals the tare value.

2. Variants 6 and 7

The instrument should be tested as for the pattern, and in addition, in accordance with the approval documents of the basework (variant 6) and headwork (variant 7) to which this instrument is connected.

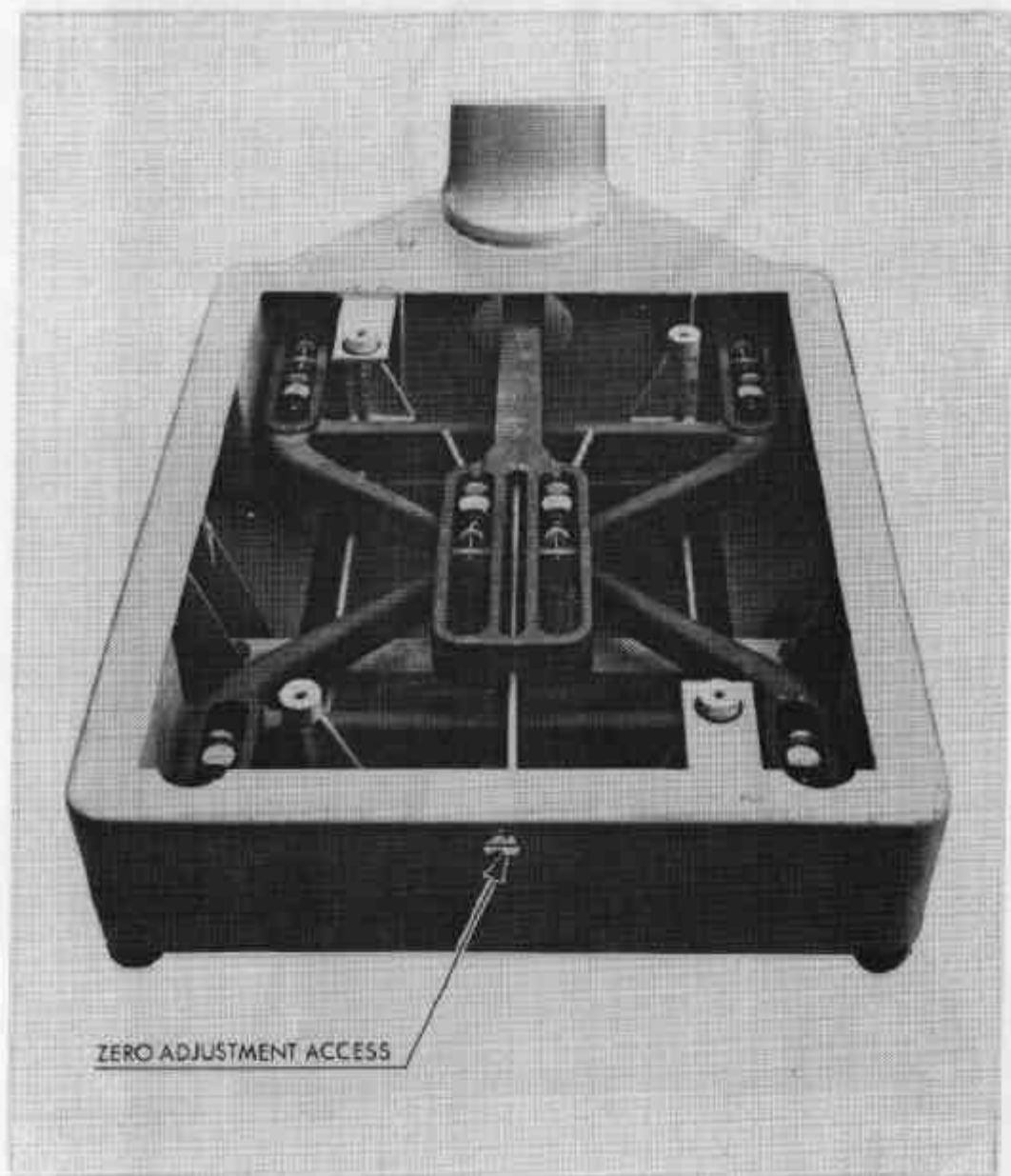
FIGURE 6/9C/26A - 1



Suprema Model 36

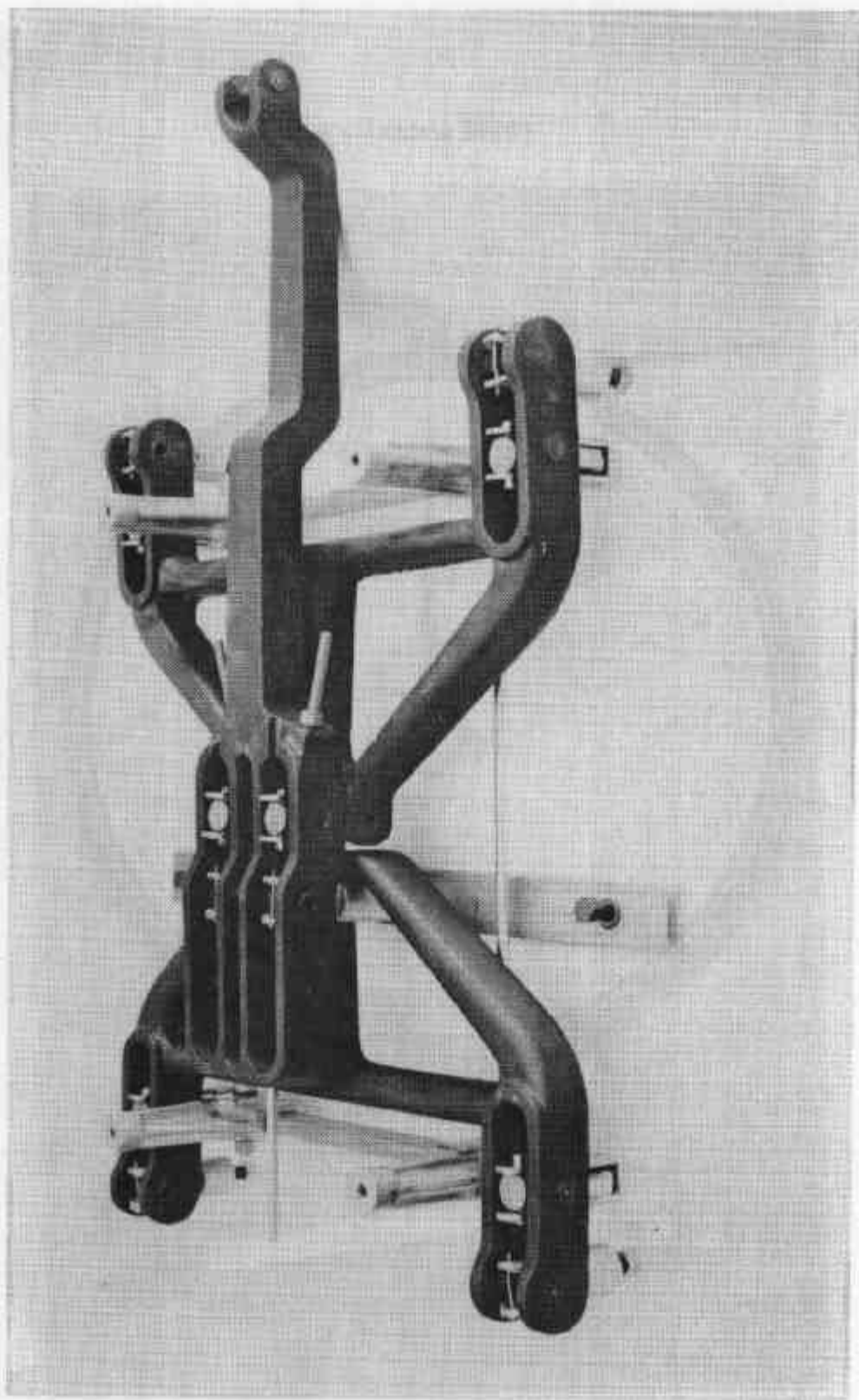
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FIGURE 6/9C/26A - 2



3-lever Basework - 1405 kg Capacity

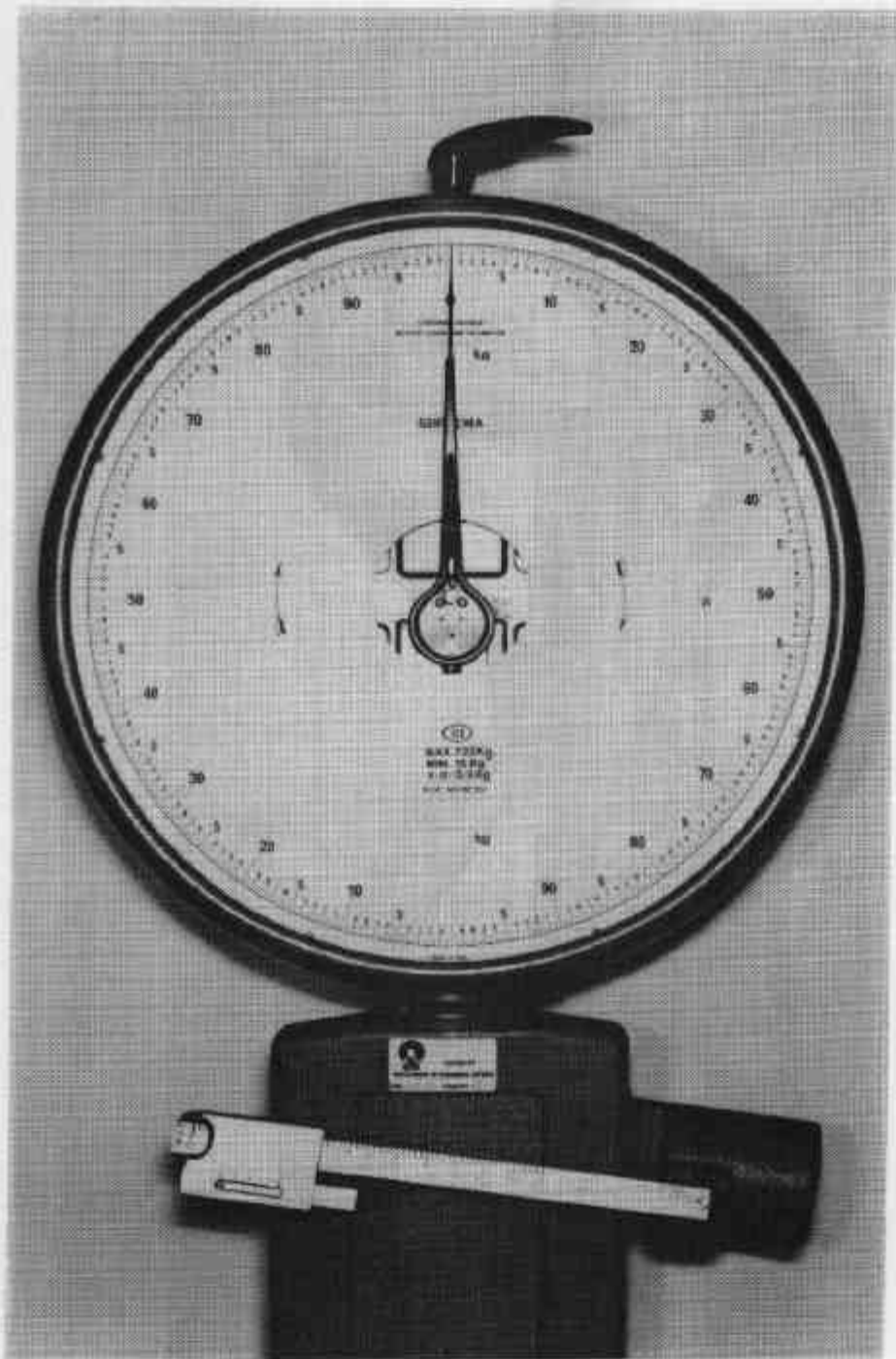
FIGURE 6/9C/26A - 3



3-lever Basework - 1405 kg Capacity Lever System

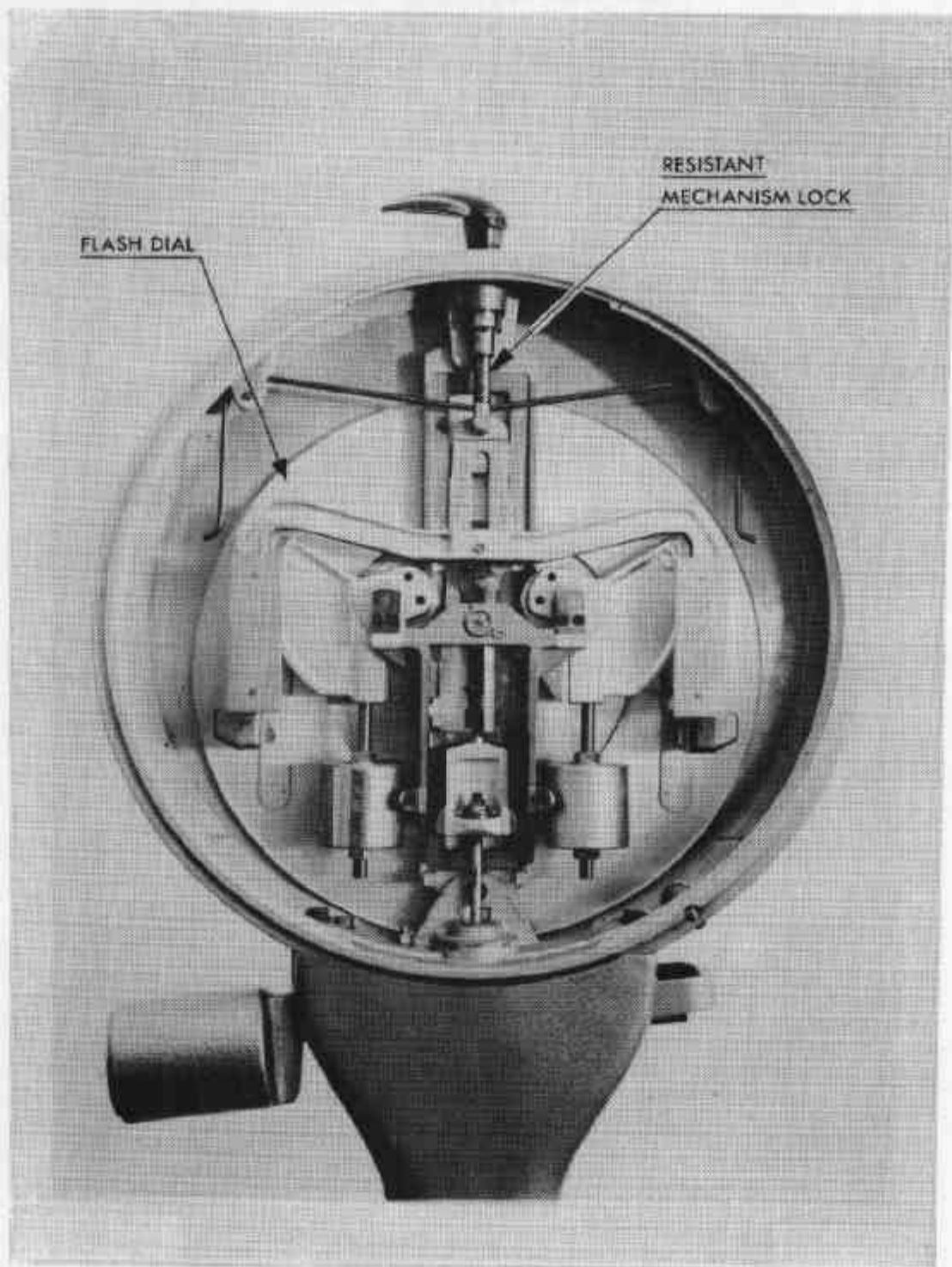
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FIGURE 6/9C/26A - 4



Principal Dial And Flash Dial

FIGURE 6/9C/26A - 5



Double-pendulum Resistant Mechanism

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