

CERTIFICATE OF APPROVAL No 6/4C/18

This is to certify that the pattern of the
Oertling Weighing Instrument Model 21TD

CANCELLED

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

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

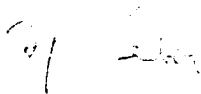
Date of Approval: 4 September 1978

The pattern is described in Technical Schedule No 6/4C/18 and in drawings
and specifications lodged with the Commission.

The approval is subject to review on or after 1 September 1983.

All instruments conforming to this approval shall be marked with the
approval number "NSC No 6/4C/18".

Signed



Executive Officer



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NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/4C/18

Pattern: Oertling Weighing Instrument Model 21TD

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

Date of Approval: 4 September 1978

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Description:

The pattern (see Figure 1) is a Model 21TD partially self-indicating weighing instrument of capacity 1499,9 grams by 0,1 gram scale intervals (e).*

The instrument is a single-pan beam balance with the load receptor and four removable substitution weights of 100, 200, 400 and 800 grams balanced by a fixed load (see Figures 2 and 3). During the weighing, the beam loading is maintained nearly constant by the removal of the substitution weights in 100 gram steps to 1400 grams. The value of the substitution weights removed from the beam is displayed in 100 g steps on a flash dial preceding an optically projected scale of 99 g capacity by 1 g scale intervals.

The complementary reading device of capacity 0,99 g by 0,01 g increments (d_d) allows the operator to manually adjust the position of the 99 g scale so as to indicate in 0,01 g increments the distance between the index (pointer) and the 1 g scale mark with an accuracy greater than visual interpolation.

A knob, marked "T" on the side of the instrument, allows up to 100 g

* Verification scale interval $e = 0,1$ g: the scale interval of the last digit of the complementary reading device, which is differentiated from the other digits, is not significant to verification.

of tare to be applied to the beam through a spring resistant. When tare is selected a light marked "T", adjacent to the weight indicator, is illuminated.

A knob-operated zero adjustment is provided at the base of the instrument, which is also provided with a level indicator and three feet, two of which are adjustable. Adjacent to the level indicator is a notice advising that the instrument must be level when in use.

A locking device is accessible at the rear of the instrument. The cover is sealed on the instrument by a lead-and-wire seal (see Figure 4).

The instrument is marked:

(a) adjacent to the weight indicator —

(II)

Max	=	1499,9 g	
Min	=	5 g	
e	=	0,1 g	
d	=	0,01 g	
T ^d	=	+ 100 g,	and

(b) "not for retail counter use".

Special Tests:

Level Sensitivity

1. When the instrument is tilted to a slope of 1 in 500, the bubble in the level indicator should move at least 2 mm.
2. When the instrument is tilted so that the bubble in the level indicator moves 2 mm, and when zero is reset in the tilted position, the instrument should satisfy the weighing-accuracy specification, that is, $\pm 0,5e$ for the first 5000 scale intervals and $\pm 1e$ over 5000.

Tare Indicator

The tare light should be illuminated when any tare value greater than $0,25e$ is selected.

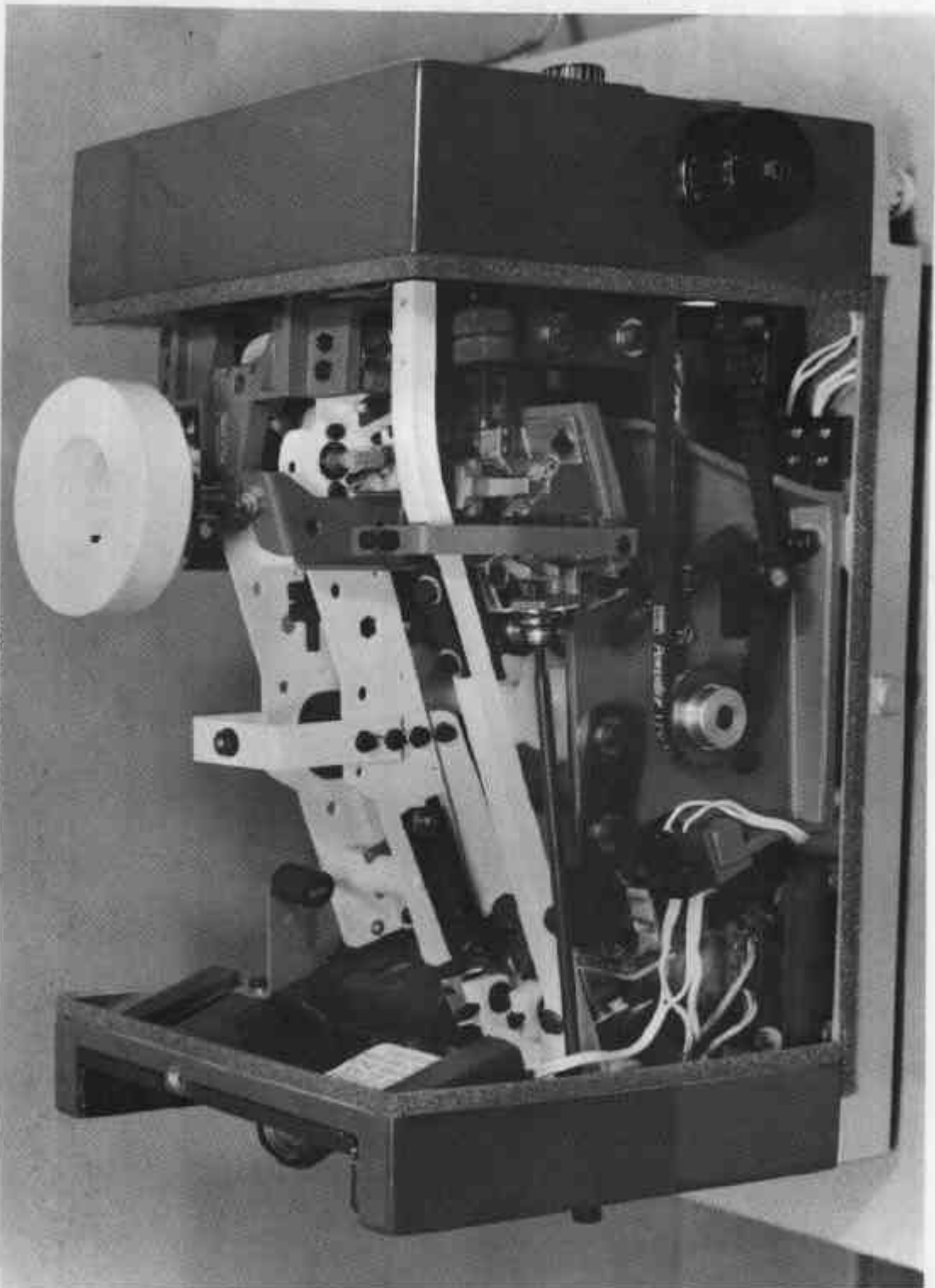
FIGURE 6/4C/18 - 1



Oertling 21TD

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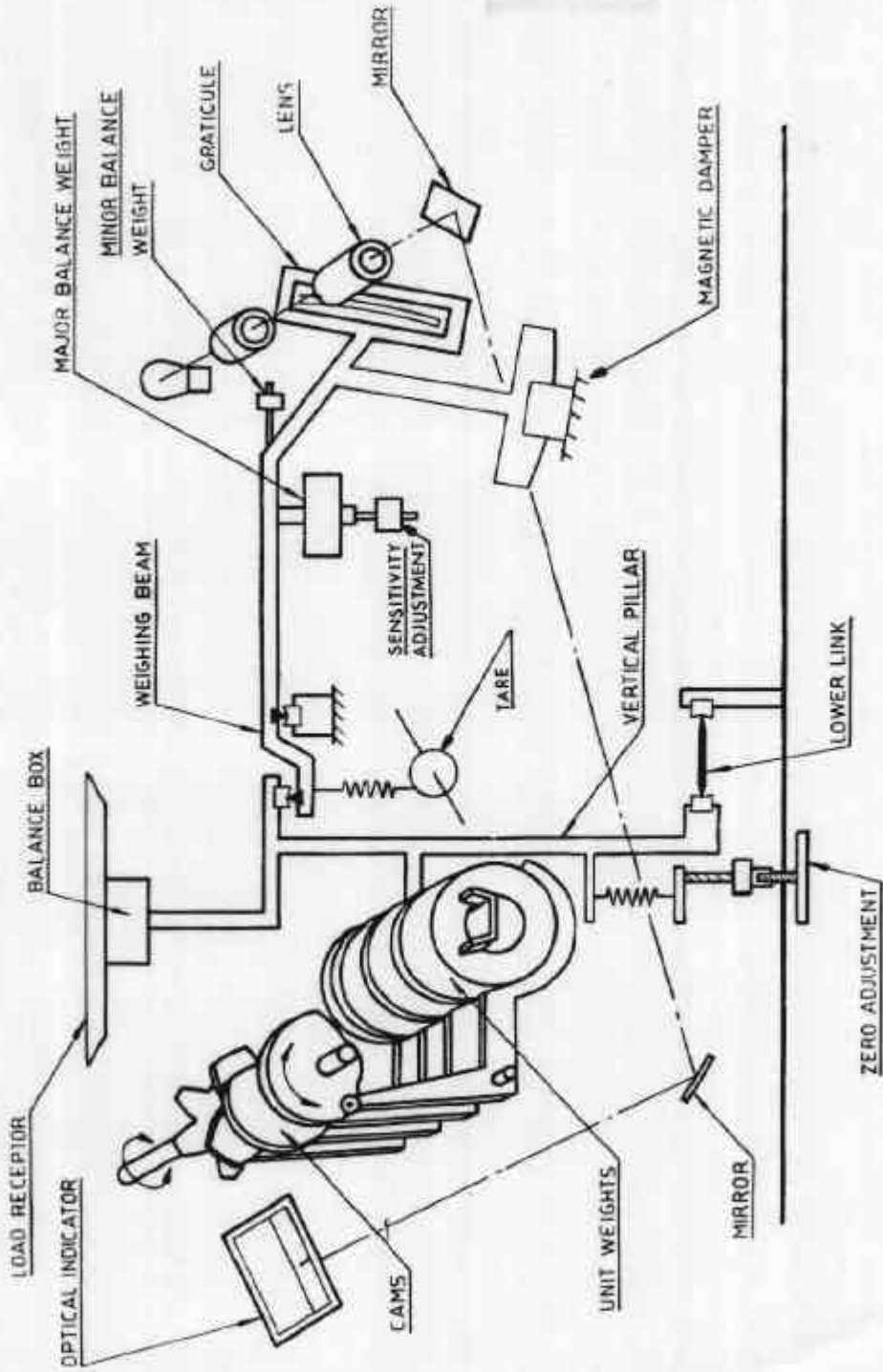
FIGURE 6/4C/18 - 2



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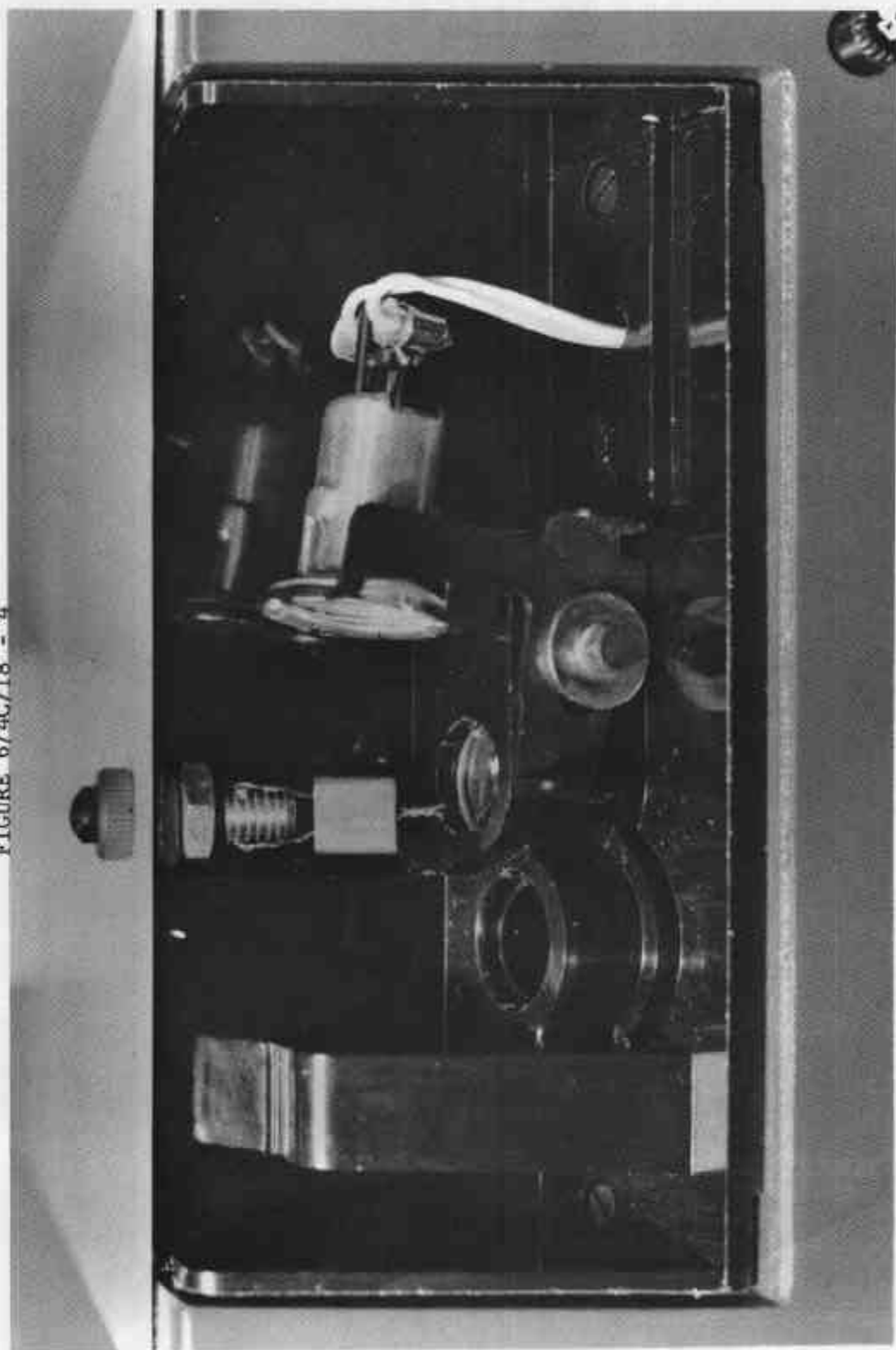
FIGURE 6/4C/18 - 3



Oertling 21TD -- Schematic Diagram

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FIGURE 6/4C/18 - 4



Oertling 21TD — Sealing Method

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