



Weights and Measures  
(National Standards)  
Act 1960-1964

Weights and Measures  
(Patterns of Instruments)  
Regulations

COMMONWEALTH OF AUSTRALIA

NATIONAL STANDARDS COMMISSION

## *Certificate of Approval*

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CERTIFICATE NUMBER 6/10B/12

*In respect of the pattern of*

Toledo Self-indicating Portable Motor Truck Weighbridge and Variants 1 to 12.

Submitted and  
manufactured by: Toledo-Berkel Pty. Ltd. ,  
525 Graham Street,  
Port Melbourne,  
Victoria. 3207.

This is to certify that the pattern and variants of the instrument described and illustrated 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.

Approval was granted for the pattern and variants 1 to 12 on 9th August, 1968.

Approval was withdrawn for variant 9 on 6th May, 1970.

Approval was granted on condition that all instruments made in conformity with the pattern and variants:

1. are appropriately marked NSC No 6/10B/12; and
2. comply with the General Specifications for Weighing and Measuring Instruments to be Used for Trade.

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Cont'd over

This Certificate comprises:

Pages 1 to 5 dated 12th May, 1970.

Figures 6/10B/12 - 1 to 9 dated 12th May, 1970.

Date of issue 12th May, 1970.

Signed

A handwritten signature in cursive script that reads "Jan Hoerlein".

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

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### DESCRIPTION OF PATTERN

The pattern (see Figure 1) is of a self-indicating portable weighbridge of 30 tons capacity fitted with a ticket-printing headwork. The platform, which has a 5 feet x 2 feet removable access plate in one of the deck plates, is supported on the load knife-edges of a fabricated torsion tube lever system (see Figure 2) by a self-aligning suspension. The lever system is mounted in a fabricated steel frame consisting of a box fabricated from channel section steel with cross members to support the lever fulcrum stands (see Figure 3), which have non-self-aligning bearings.

The basework lever system (see Figure 4) consists of two main levers and one longitudinal lever. The main levers are fabricated from a steel tube with three arms welded to it; the end arms carry fulcrum and load knife-edges and the centre arm is fitted with an adjustable nose-end knife-edge, which is coupled to the longitudinal lever by a self-aligning vertical link (see Figure 5). From the centre of the longitudinal lever (see Figure 6) extends a transfer arm which connects to the headwork pullrod outside the basework frame, and a cover protects the lever between the basework frame and the headwork cabinet.

Longitudinal and transverse stops (see Figure 7) are provided on the sides of the frame to limit horizontal movement of the platform.

Provisions are made for transporting the weighbridge, such as lifting eyes and platform-locking bracket, and the transfer lever can be disconnected at the point where it projects from the base frame. To ensure accurate replacement of the lever, two unsymmetrical dowel pins are provided welded into one of the lever junction plates. The sides of the platform are also removable.

The headwork (see Figure 8), which is fitted with a Toledo 400 Series Printweigh ticket printer as described in Certificate No 6/9C/2, has a circular chart graduated in 0.01 ton increments up to a capacity of 5 tons. Five manually operated unit weights extend the capacity of the instrument to 30 tons. The capacity of the unit weights is indicated on a flash chart as described in Certificate No 6/9C/2.

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DESCRIPTION OF VARIANTS

1. The pattern having other capacities up to 51 tons.
2. Having a torsion tube lever system similar to the pattern mounted permanently in a concrete pit with 2, 4 or 5 sections with capacities up to 501 tons. A four-section lever system is shown in Figure 9.
3. Having the platform of variant 2 fitted with rails for weighing railway rolling stock.
4. Without the Series 400 Printweigh ticket printer.
5. With any number of manually operated unit weights up to 9 or without unit weights.
6. Having unit weights added automatically by means of the Autorange system described in Certificate No 6/9C/2.
7. Having the self-indicating headwork fitted with other forms of indicators and ticket printers described in Certificate No 6/9C/2.
8. Having the self-indicating headwork fitted with tare bars.
- \*9. Having coin-operated control of indication and ticket printing as described in Certificate No 5/6A/19.
10. Having the headwork fitted with a photo-electric switch for alarm or control purposes.
11. Having the self-indicating headwork replaced by a non-self-indicating headwork as described in Certificate No 6/10A/3.

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\* Approval withdrawn 6th May, 1970.

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12. Having the self-indicating and non-self-indicating headwork located in any reasonable position in relation to the platform, in which case one or more transfer levers may be used, provided they are fully protected.

#### GENERAL NOTES

Notice of approval of the pattern and variants described in this Certificate was given in Memorandum of Approval No 130 dated 16th August, 1968.

Notice of approval of the non-self-indicating headwork approved in Certificate No 6/10A/3, referred to in variant 11, was given in Memorandum of Approval No 129 dated 1st August, 1968.

Notice of approval of the coin-operated control unit approved in Certificate No 5/6A/19, referred to in variant 9, was given in Memorandum of Approval No 35 dated 17th November, 1966.

Notice of approval of the ticket printer and other indicating devices and the unit weight system approved in Certificate No 6/9C/2, referred to in the pattern and variants 6 and 7, was given in Memoranda of Approval No 48 dated 8th December, 1966 and No 110 dated 3rd April, 1968.

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6/108/12  
31/8/84



## NATIONAL STANDARDS COMMISSION

CANCELLATION CERTIFICATE FOR APPROVAL No 6/108/12

This is to advise that the approval of the

Toledo Self-indicating Portable Motor Truck Weighbridge

submitted by Toledo Scale Australia Limited  
525 Graham Street  
Port Melbourne Victoria 3207

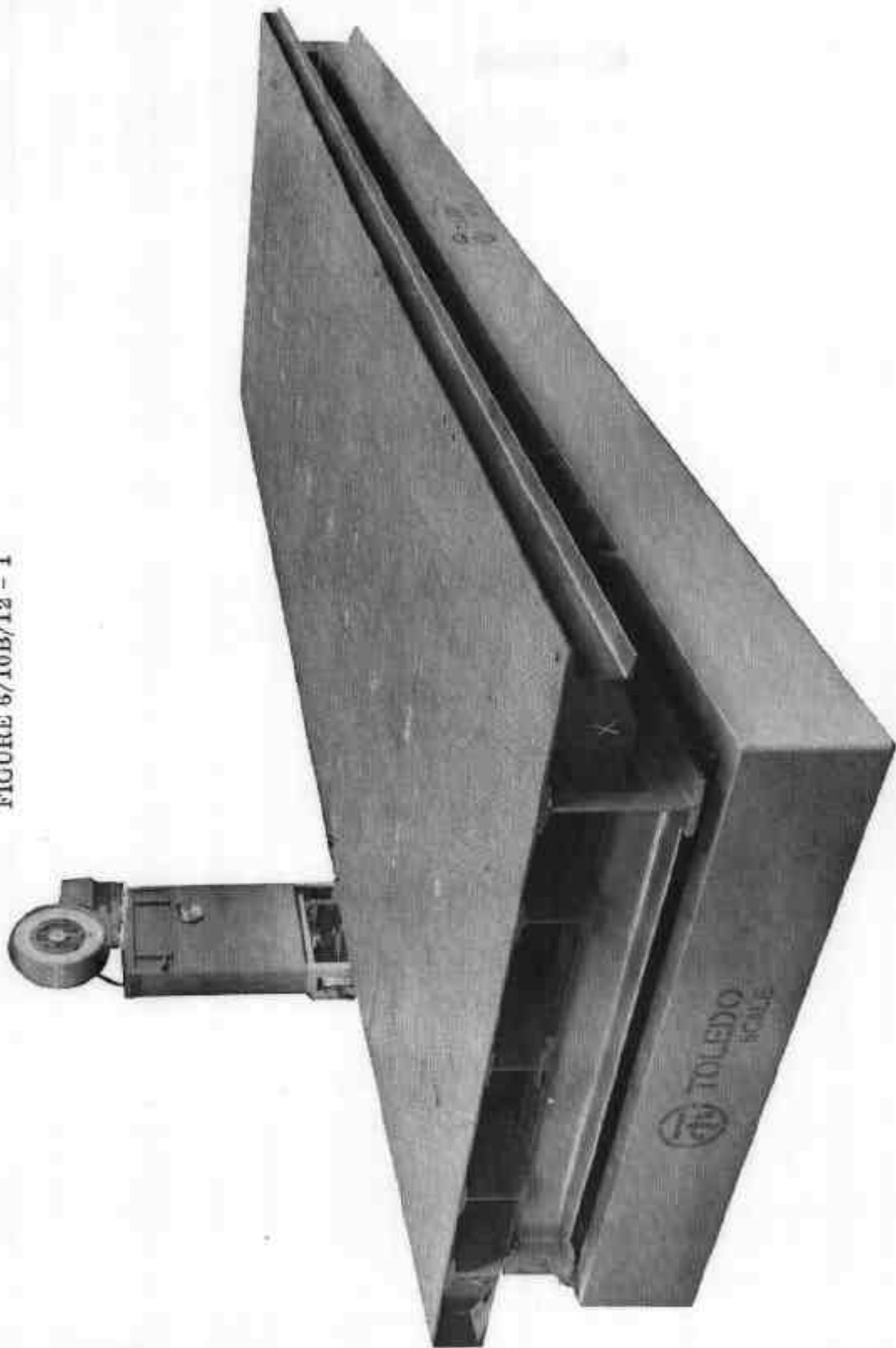
expired in respect of new instruments on 16/8/84.

Instruments which were verified before that date may, with the concurrence of the relevant verifying authority, be submitted for reverification.

Signed

Executive Director

FIGURE 6/10B/12 - 1



Portable Weighbridge - Type 2800

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FIGURE 6/10B/12 - 2

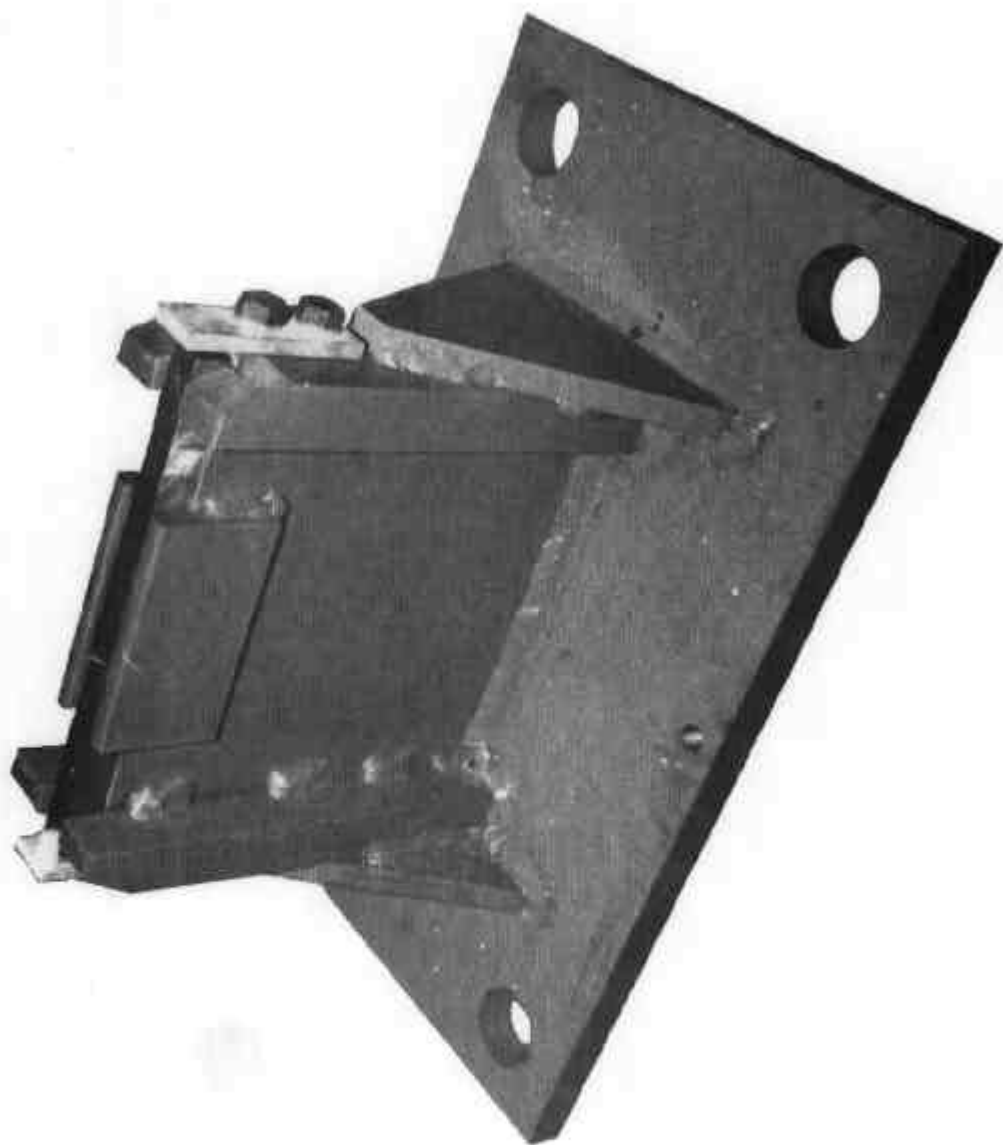


Torsion Tube Levers

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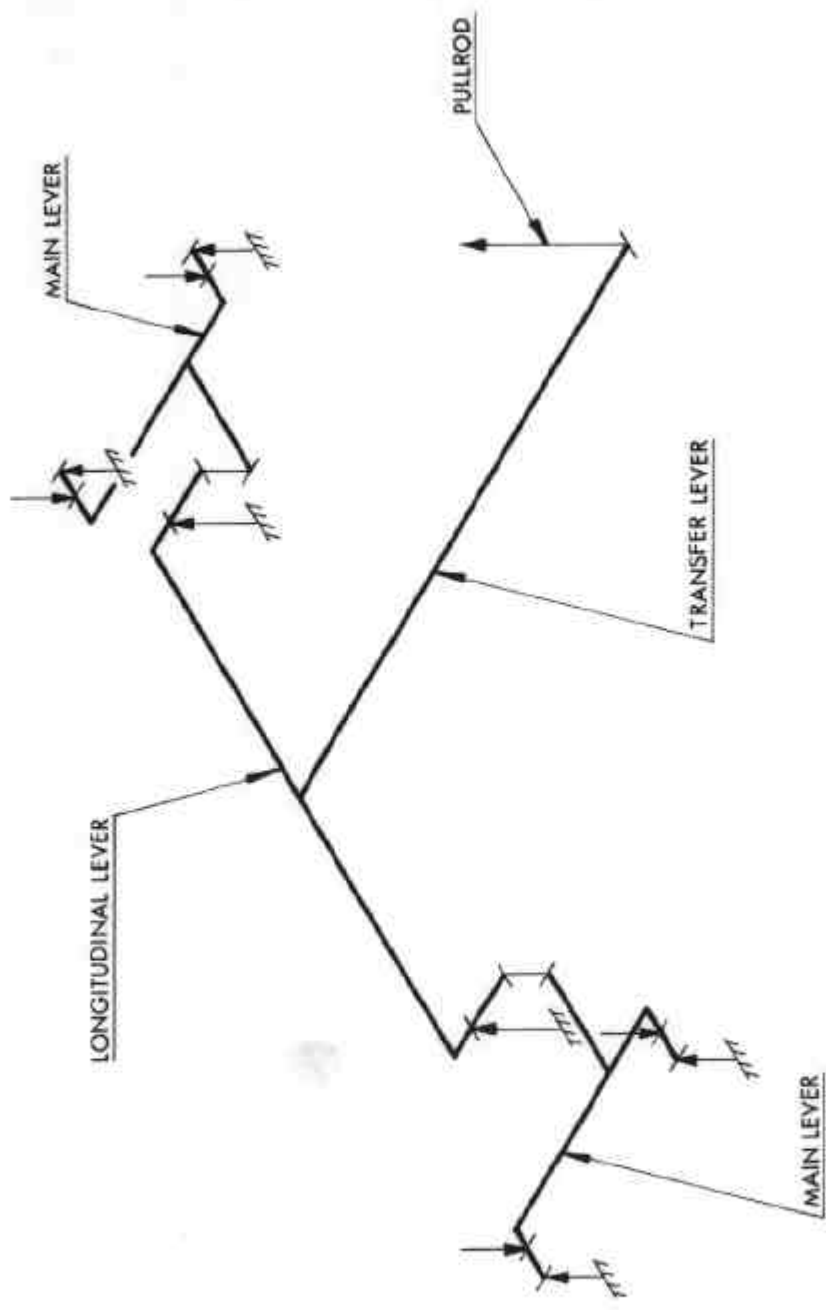
FIGURE 6/10B/12 - 3



Fulcrum Stand - Main Levers

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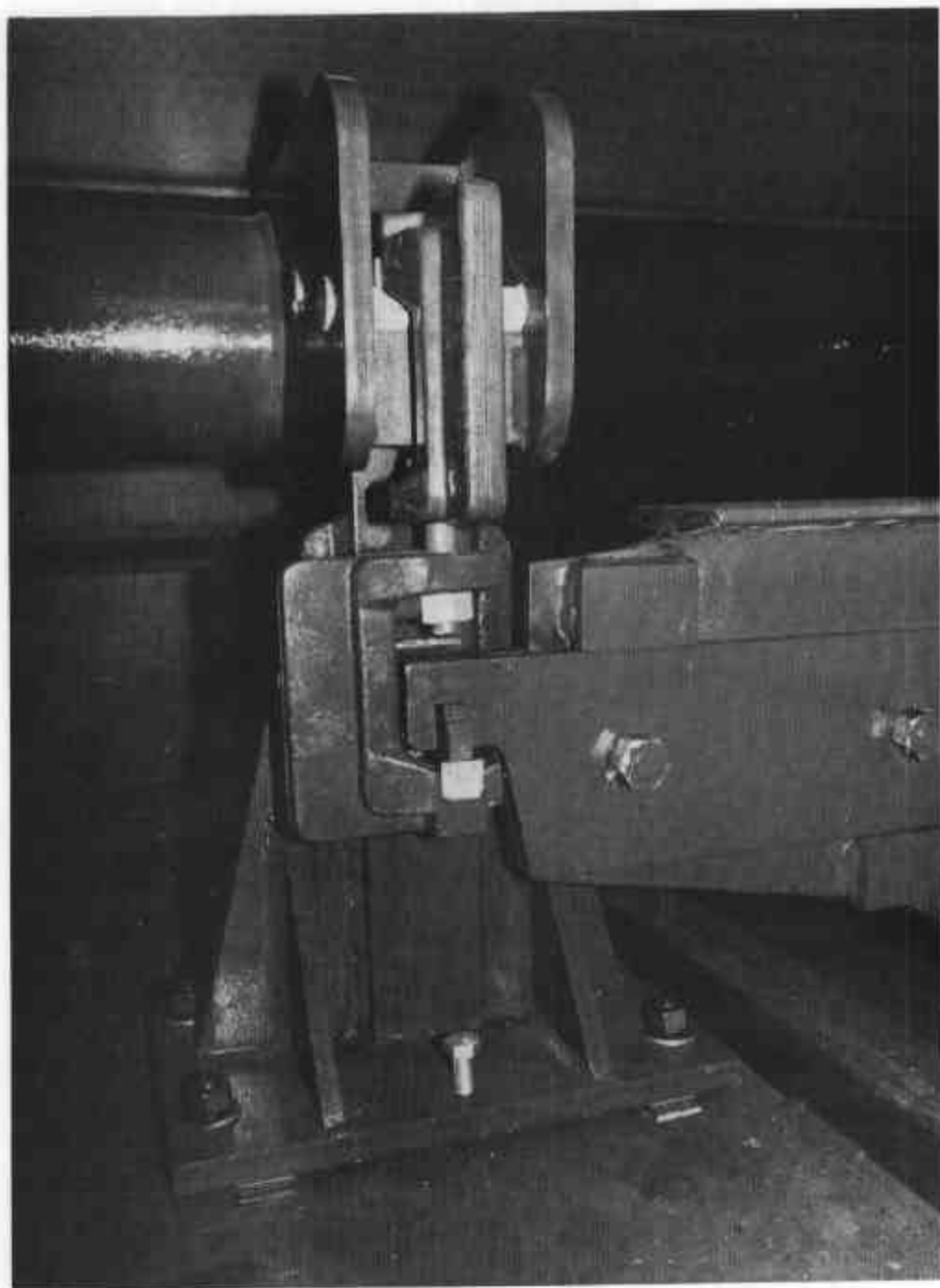
FIGURE 6/10B/12 - 4



Lever System

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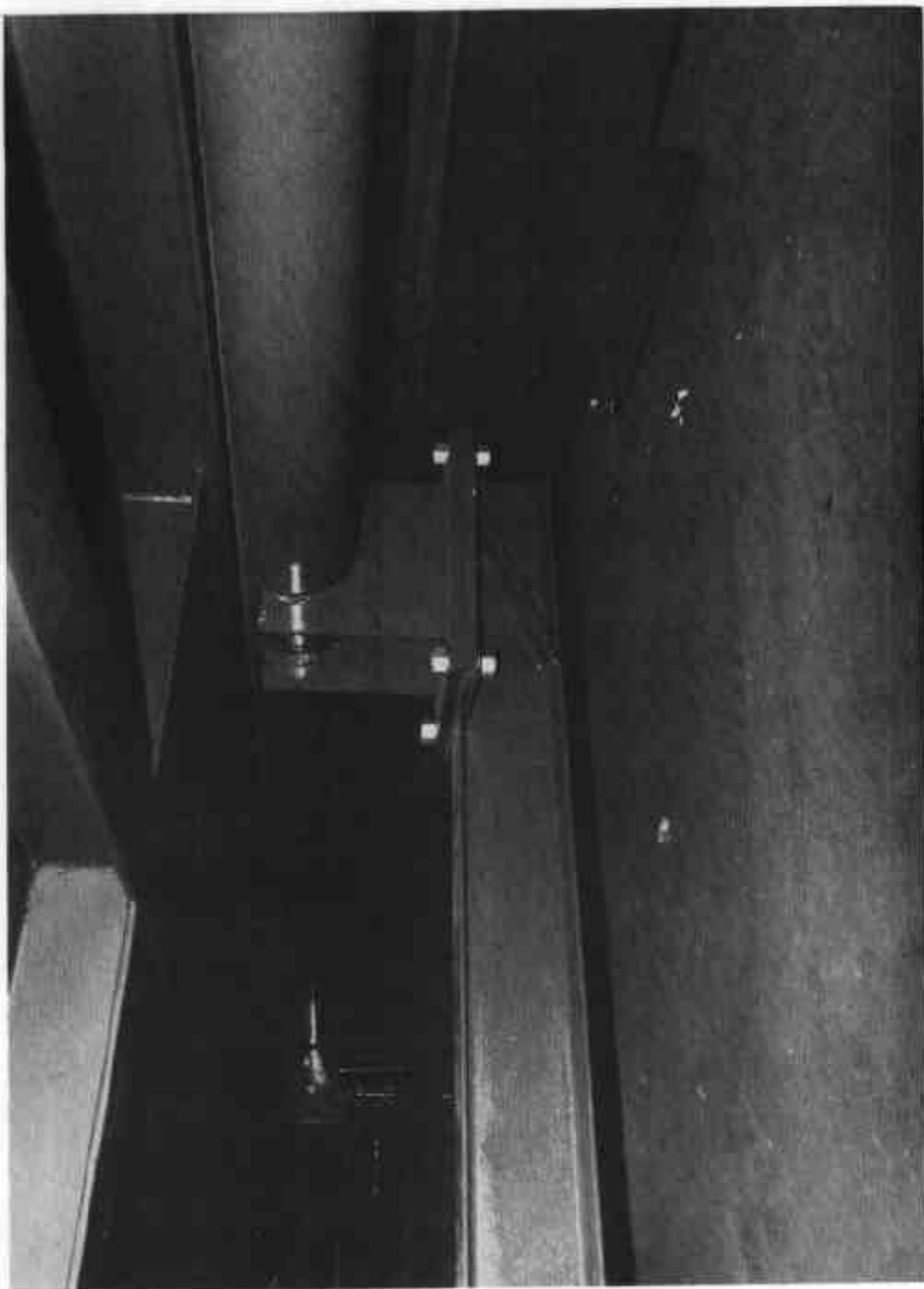
FIGURE 6/10B/12 - 5



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Self-aligning Vertical Link

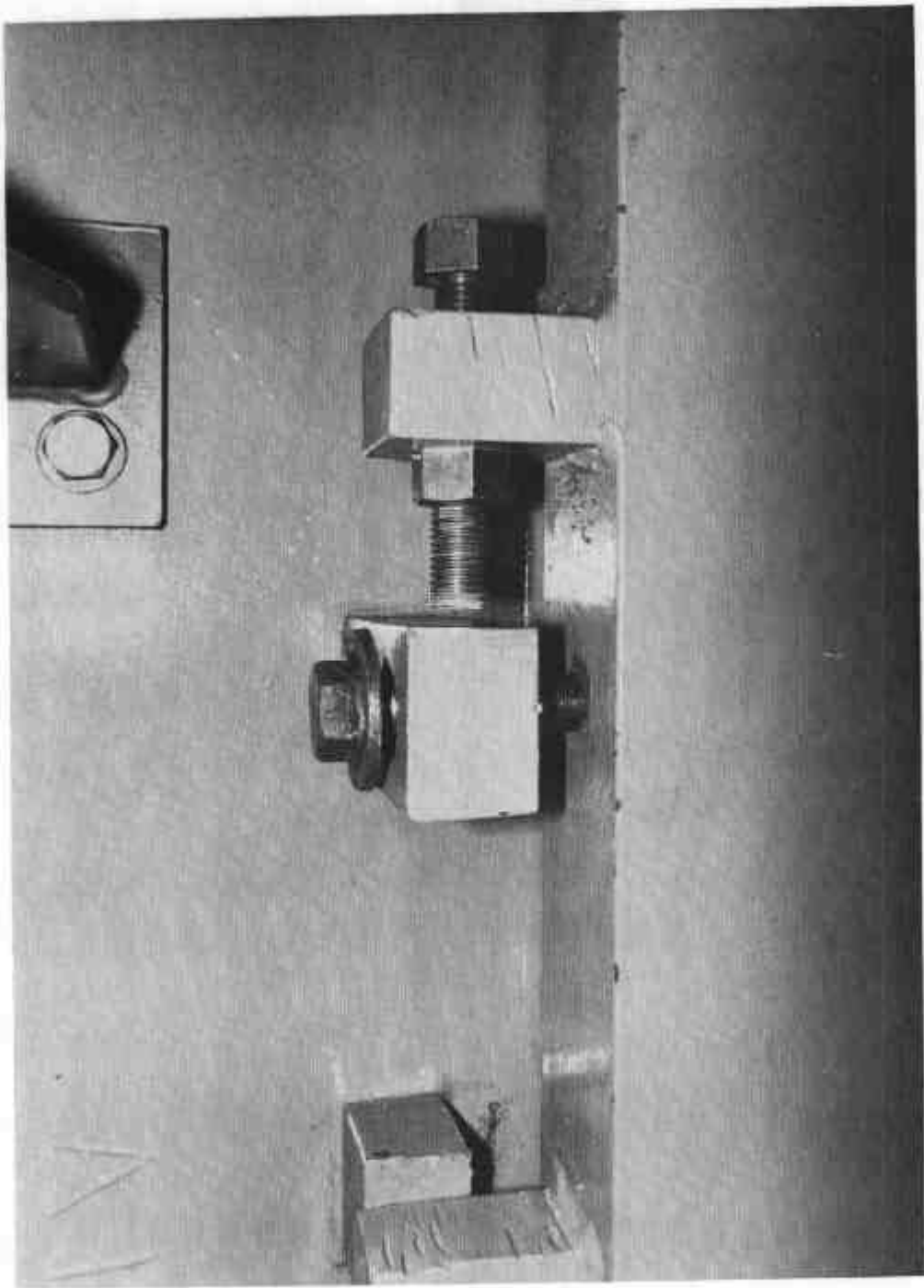
FIGURE 6/10B/12 - 6



Longitudinal Lever and Transfer Arm

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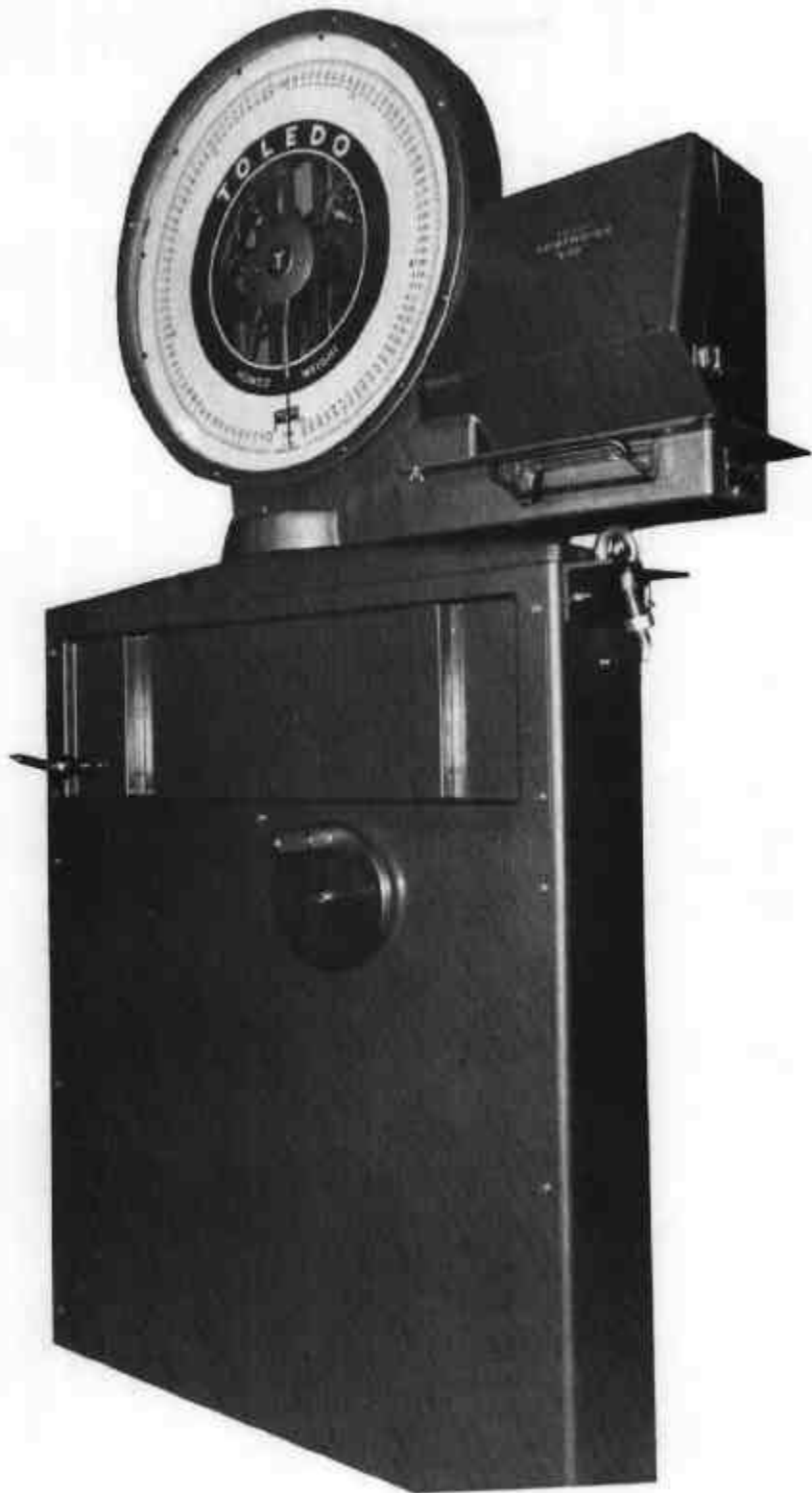
FIGURE 6/10B/12 - 7



Platform Stops

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FIGURE 6/10B/12 - 8



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Headwork and Series 400 Printer

FIGURE 6/10B/12 - 9



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Lever Mechanism - 4-section