



**CANCELLED**

6/9C/86  
7/12/84

**NATIONAL STANDARDS COMMISSION**

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/9C/86

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

Toledo Model 2095 Platform Weighing Instrument

submitted by Toledo Scale (Australia) Ltd  
525 Graham Street  
Port Melbourne, Victoria, 3207

are suitable for use for trade.

Conditions of Approval

This approval is subject to review on or after 1/7/89.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/86.

This approval may be withdrawn if instruments are constructed and used other than in accordance with the drawings and specifications lodged with the Commission.

The number of scale intervals applicable to the weighing instrument shall be no greater than the number of verification scale intervals approved for the load cell or the headwork, whichever is the smallest.

Signed

Acting Executive Director

Descriptive Advice

Patterns: approved 7/6/84

- Toledo model 2095 platform weighing instrument of up to 200 kg capacity.

Variant: approved 26/6/84

1. With a model 1985 basework of up to 25 kg capacity.

Technical Schedule No 6/9C/86 describes the pattern and variant.

Filing Advice

The documentation for this approval comprises:

Certificate of Approval No 6/9C/86 dated 7/12/84  
Technical Schedule No 6/9C/86 dated 7/12/84  
Test Procedure No 6/9C/86 dated 7/12/84  
Figures 1 and 2 dated 7/12/84.



# NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/9C/86

Pattern: Toledo Model 2095 Platform Weighing Instrument

Submitter: Toledo Scale (Australia) Limited  
525 Graham Street  
Port Melbourne, Victoria, 3207.

## 1. Description of Pattern

A platform weighing instrument (Figure 1 and Table 1) of up to 200 kg capacity.

### 1.1 Basework

The model 2095 basework uses a Toledo load cell to support the load receptor, which is stayed by eight flexures.

### 1.2 Load Cell

A Toledo model 0721, 0723 or 0725 (227 kg only) load cell of a capacity as listed in Table 1. These model load cells are described in the documentation of NSC approvals numbers S111, S112 and S172 respectively.

### 1.3 Indicator

A Toledo model 8139 indicator (Figure 2) as described in the documentation of NSC Approval No S149.

### 1.4 Markings

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

Manufacturer's name or mark	
NSC approval number	NSC No 6/9C/86
Serial number	
Accuracy class	III
Maximum capacity	Max ..... kg*
Minimum capacity	Min ..... kg*
Verification scale interval	e = d = ... kg*
Maximum subtractive tare	T = - ..... kg
Load cell serial number - alternatively this may be marked on a metal tag sealed to the indicator	

\* These should be repeated in the vicinity of each reading face.

The following is the minimum data required to be marked on the load cell:

Manufacturer's name or mark  
Model number  
Serial number  
Maximum capacity  
NSC approval number

### 1.5 Verification Mark

Provision is made for a verification mark to be applied.

## 2. Description of Variant 1 (Refer Table 1)

With a model 1985 basework of up to 25 kg capacity, using five flexures to stay the load receptor.

TABLE 1

<u>Model 2095</u>		<u>Model 1985</u>	
Basework	Load Cell	Basework	Load Cell
200	227	25	45
60	90	10	22
25	45		

Approved Capacities (kg)

TEST PROCEDURE No 6/9C/86

All load applications to the instrument should be in accordance with the Commission's recommended testing procedure for the elimination of rounding error as set out in Document 104.

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. Zero Range

The maximum range of the zero setting device should not exceed 4% of the maximum capacity (±2% approximately). With zero balance indicated, apply a load of, say, 2.5% of maximum capacity to the instrument; it should not be possible to obtain zero by means of the zero adjustment.

2. Zero Test

- (a) Check by means of Document 104 that when the zero light illuminates, zero is set within 0.25e.
- (b) As the automatic device (where fitted) resets zero when the weighing mechanism is in equilibrium within 0.5e of zero, zero should be checked as described in Document 104, with a load equal to, say, 10e on the load receptor. The indications with 0.25e and 0.75e additional mass on the load receptor will then be 10e and 11e respectively.

3. Range of Indication

- (a) The maximum mass indicated should not exceed the maximum capacity (Max) by more than 10 scale intervals; above this indicated mass the indication should be blank or show non-numerical characters.
- (b) The minimum mass indicated should be zero; below this the indication should be blank or show the mass preceded by a minus sign.

4. Tare

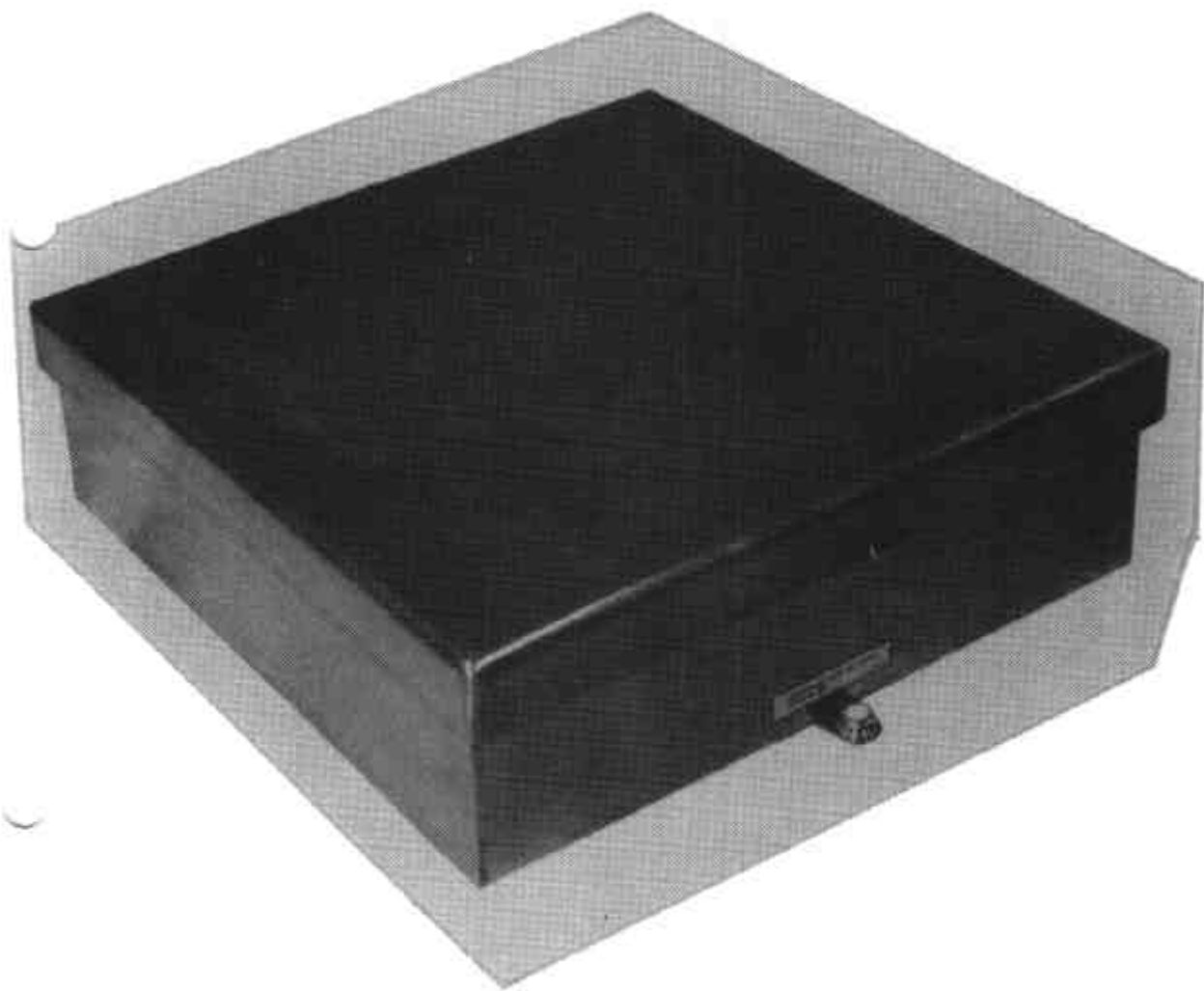
- (a) Attempt to tare a mass greater than the marked tare capacity; this should not be possible.
- (b) The tare function should be able to reset the mass indicator to zero within 0.25e at any load within its tare capacity. This may be checked as described for Zero Test - 2(a).

5. Load Test

Test loads are to be applied to the 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.

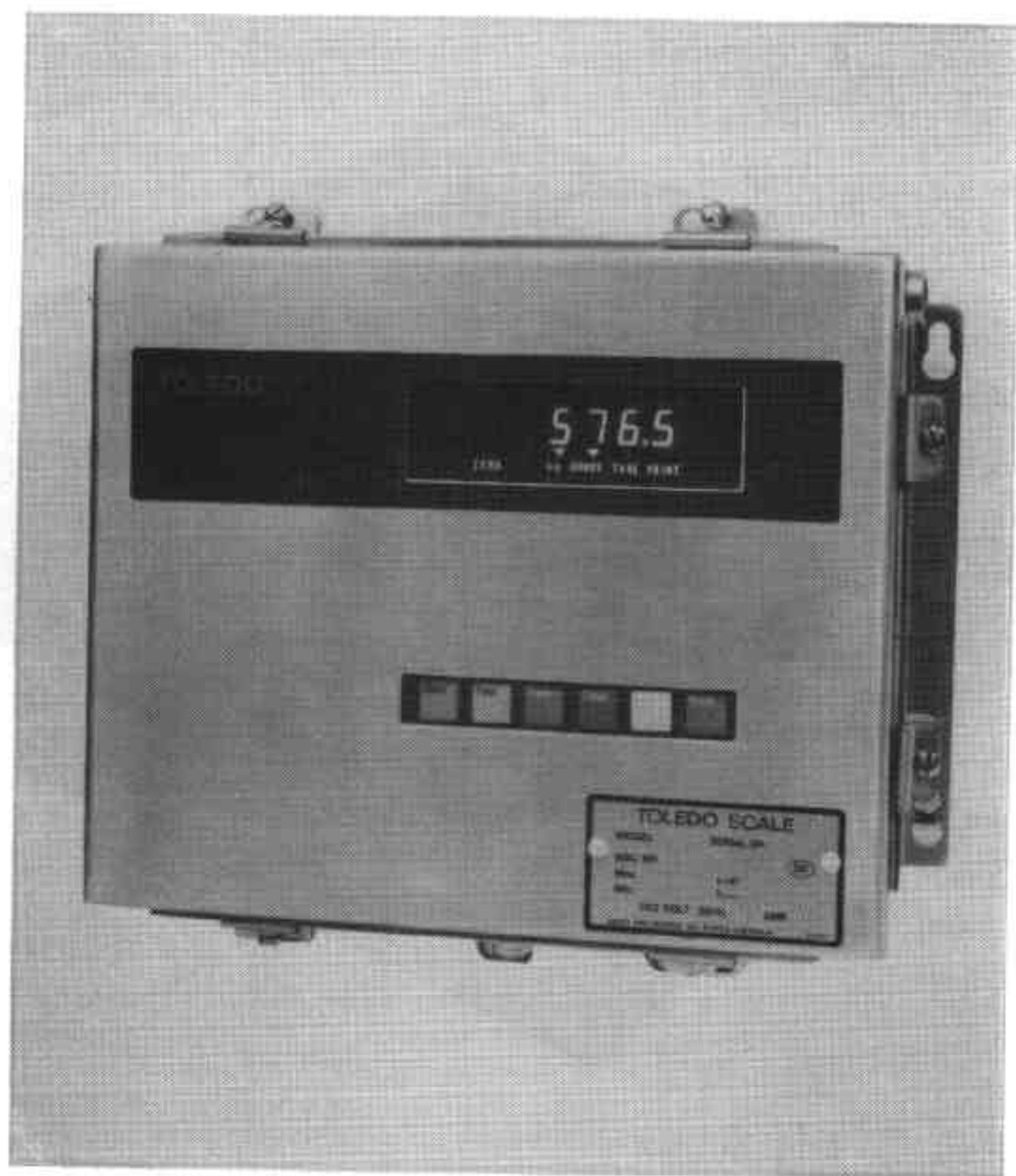
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FIGURE 6/9C/86 - 1



Toledo Model 2095 Basework

FIGURE 6/9C/86 - 2



Toledo Model 8139 Indicator