cert No 2 RS

CANCELLED

NATIONAL STANDARDS COMMISSION

WEIGHTS & MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

CERTIFICATE OF APPROVAL No 6/9C/62

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

Streeter Amet Quantomatic 7000 Platform Weighing Instrument

submitted by K.J. Baillie Pty Ltd,
12 Whiting Street,
Artarmon, New South Wales, 2064,

is suitable for use for trade.

The approval of the pattern is subject to review on or after 30/5/85.

All instruments purporting to comply with this approval shall be marked NSC No 6/9C/62.

Relevant drawings and specifications are lodged with the Commission.

Conditions of Approval

The load cells to be used in these instruments shall be subject to regular certification by the National Standards Commission.

Signed

Executive Director

Descriptive Advice

Pattern: approved 5/8/81

. Self-indicating Platform Weighing Instrument of maximum capacity 3600 kg.

Technical Schedule No 6/9C/62 dated 7/9/81 describes the pattern.

7/9/81

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No 6/9C/62

Pattern: Streeter Amet Quantomatic 7000 Platform Weighing Instrument.

Submittor: K.J. Baillie Pty Ltd,
12 Whiting Street,
Artarmon, New South Wales, 2064.

1. Description of Pattern

1.1

The pattern is a permanently installed self-indicating platform weighing instrument of maximum capacity 3600 kg (Figures 1 and 2). It comprises a weighing unit with load cell resistant mechanisms and an electronic mass indicator displaying up to 2000 increments.

1.2 Basework

The load receptor is supported by 4 BLH, 1134 kg, beam load cells which are interconnected in a junction box (Figure 3). The length of cable between load cells and junction box is 3 m ± 0.1 m.

1.3 Indicator

A shielded cable connects the indicator to the junction box. The Quantomatic 4500/1E mass indicator converts the output from the load cells into a digital mass indication of up to 2000 increments (Figure 2).

1.4 Zero Adjustment

A button marked ZERO is provided on the front panel for zero adjustment in conjunction with a keyed zero on/off switch marked ZERO LOCK.

A light marked ZERO illuminates when zero is set within ± 0.25e.

1.5 Check Button

A button marked TEST, when held pressed, causes the indicators to continue to display all 8's for 1 second then blank for 1 second.

1.6 Markings

The instrument is marked with the following data:

Manufacturer's name	
Serial number of instrument	
NSC approval number in the form:	NSC No 6/9C/62
Accuracy class in the form:	(III)
Maximum capacity in the form:	Max .....*
Minimum capacity in the form:	Min .....*
Verification scale interval in the form:	d_d = e = ...*

* These markings are repeated in the vicinity of each reading face.

1.7 Sealing

1.7.1 The indicator is sealed with a lead and wire seal through the heads of retaining screws on both sides of the indicator. A stamping plug is located on the right hand side of the indicator (Figure 4).

1.7.2 The junction box is sealed with a lead and wire seal through the heads of two retaining screws (Figure 5).

1.7.3 The plugs of the interconnecting cable are sealed to the junction box and to the indicator (Figure 6).

TEST PROCEDURE No 6/9C/62

1. Accuracy Requirements

The maximum permissible errors are:

± 0.5e for loads between zero and 500e inclusive;
± 1e for loads between 501e and 2000e inclusive; and
± 1.5e for loads above 2000e.

Test loads are to be applied to the instruments up to maximum capacity, with the first load equal to minimum capacity, then 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.

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

2. Zero Balance

Check by means of the Commission's digital zero test (Design Manual No 1, Document 104, Testing Procedure for the Elimination of Rounding Error for Weighing Instruments with Digital Indication) that, when the zero light is illuminated, zero is set within 0.25e of zero.

3. Zero Range

The maximum range of operation of the push-button zero device should not exceed 4% of the capacity of the instrument (± 2% approximately).

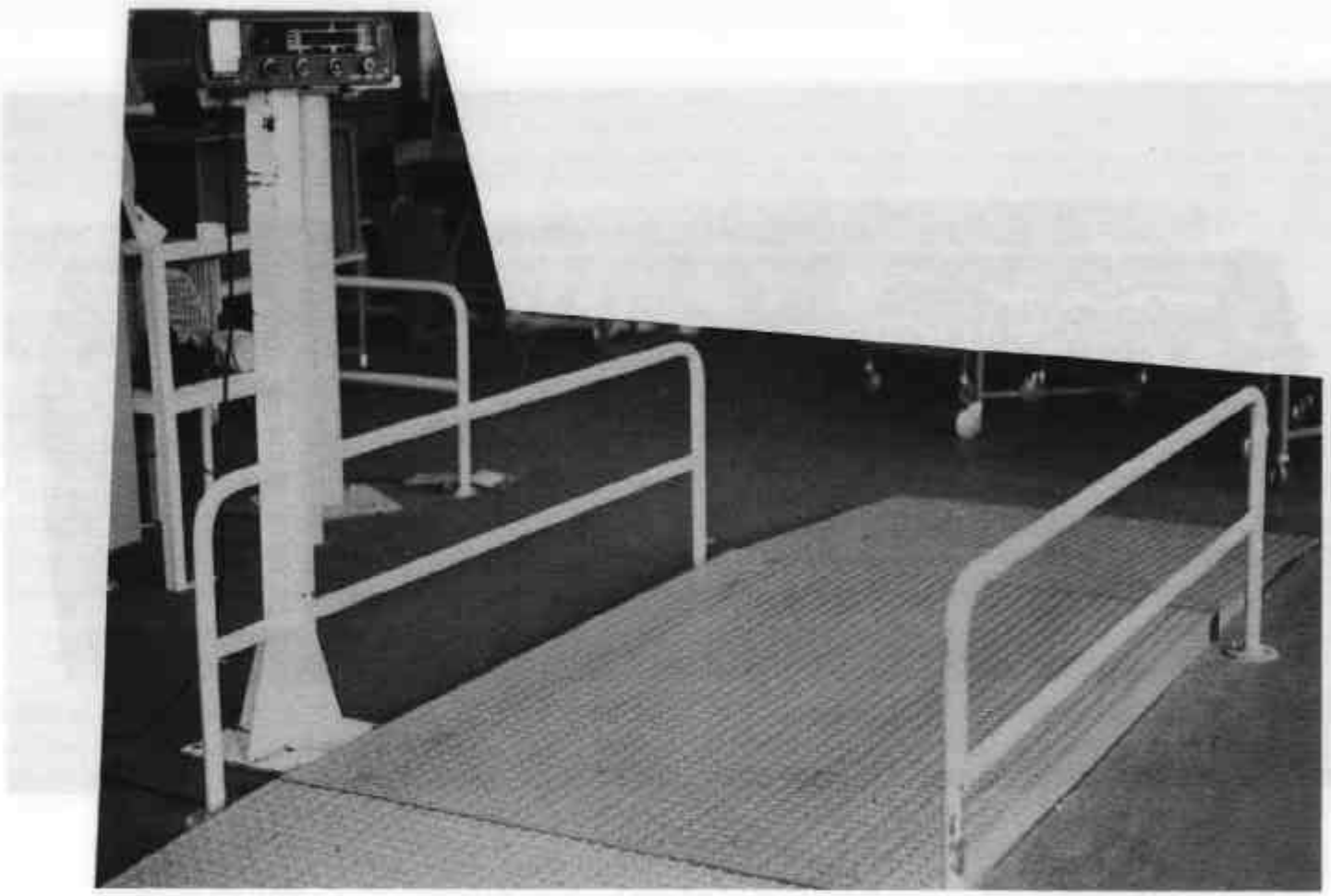
4. Range of Indication

The maximum mass indicated should not exceed the maximum capacity (Max); above this indicated mass the indicator should be blank.

5. Display Test Button

Check that the display test button functions correctly.

FIGURE 6/9C/62 - 1



Quantomatic 7000

FIGURE 6/9C/62 - 2

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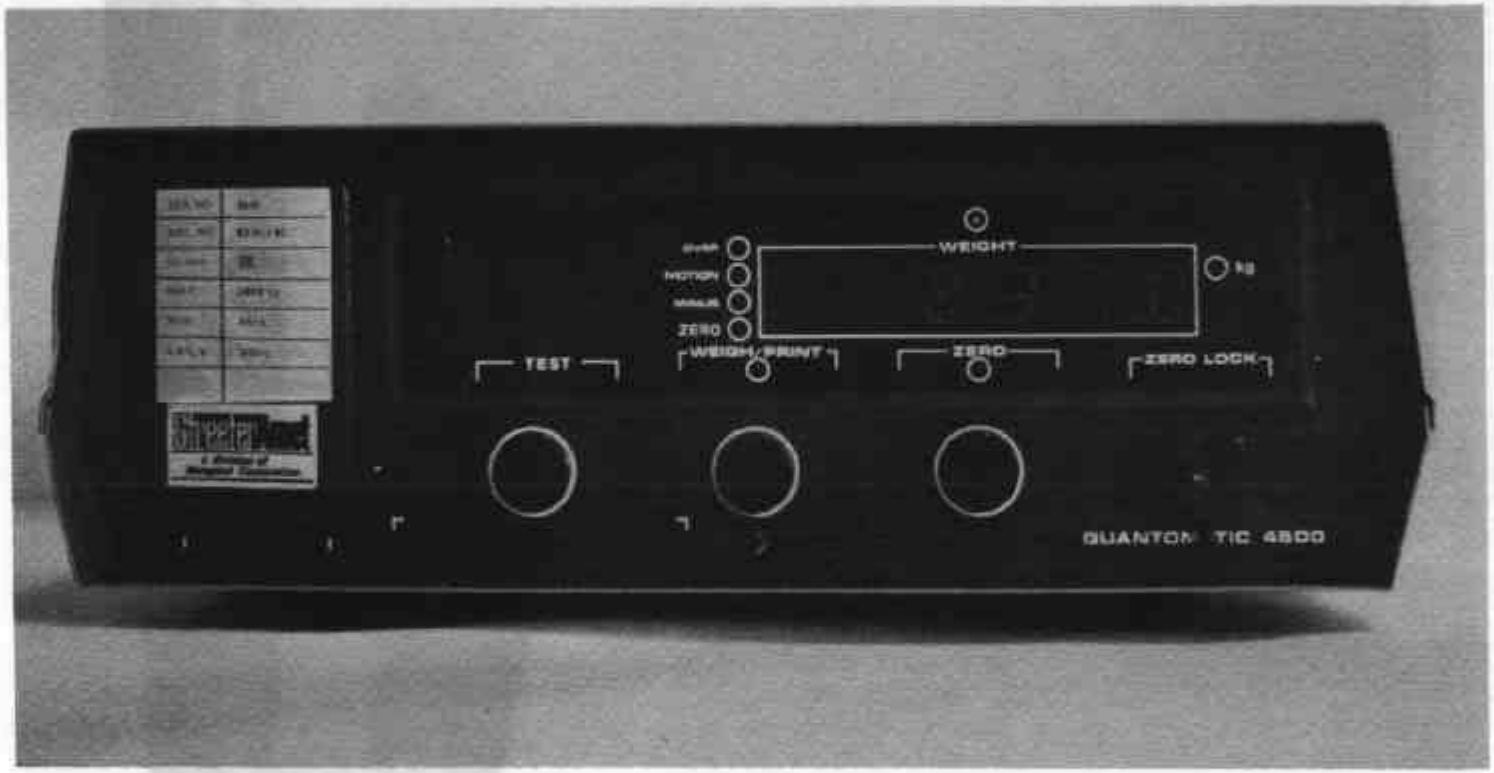
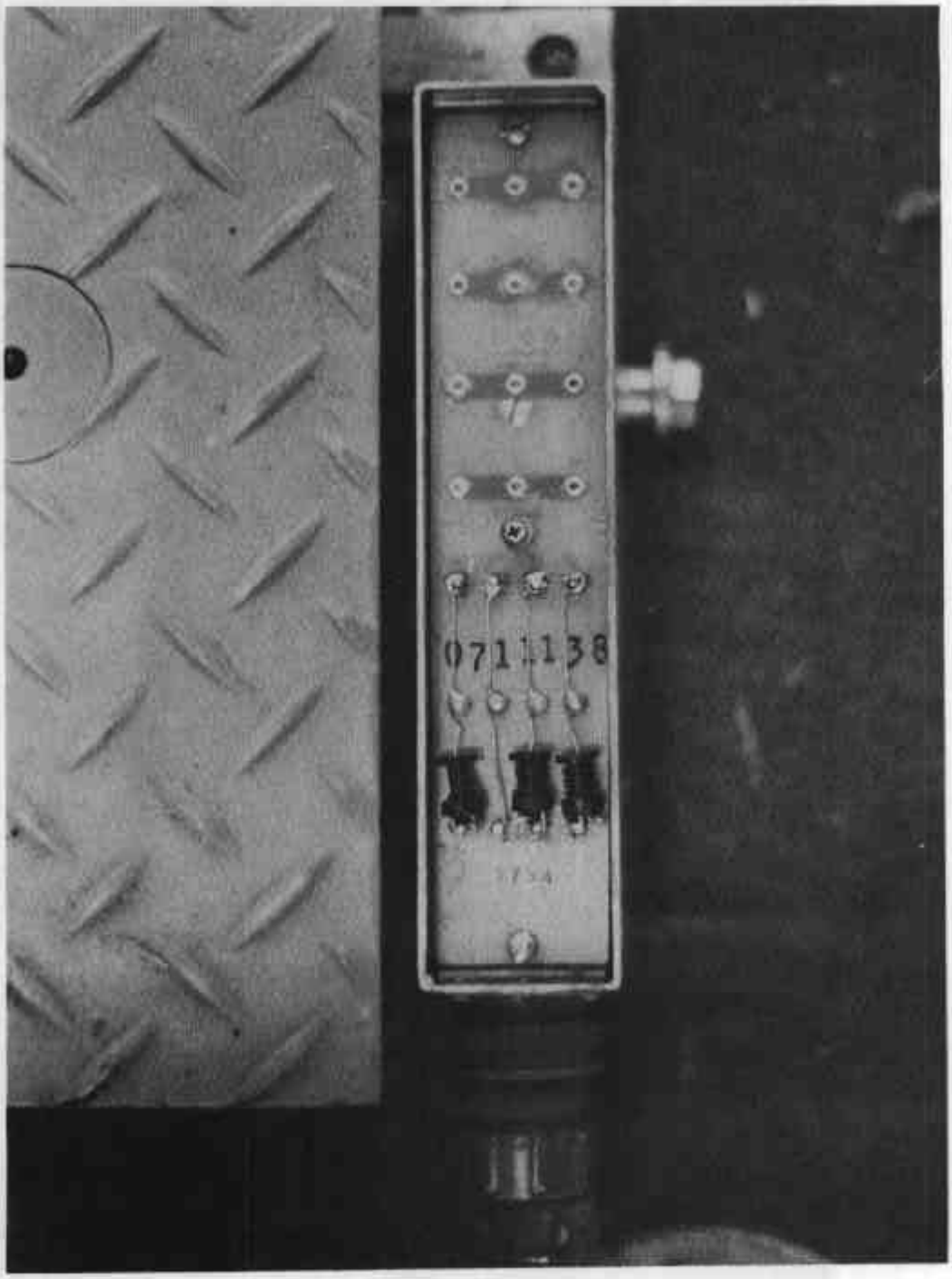


Indicator



Junction Box with Cover removed

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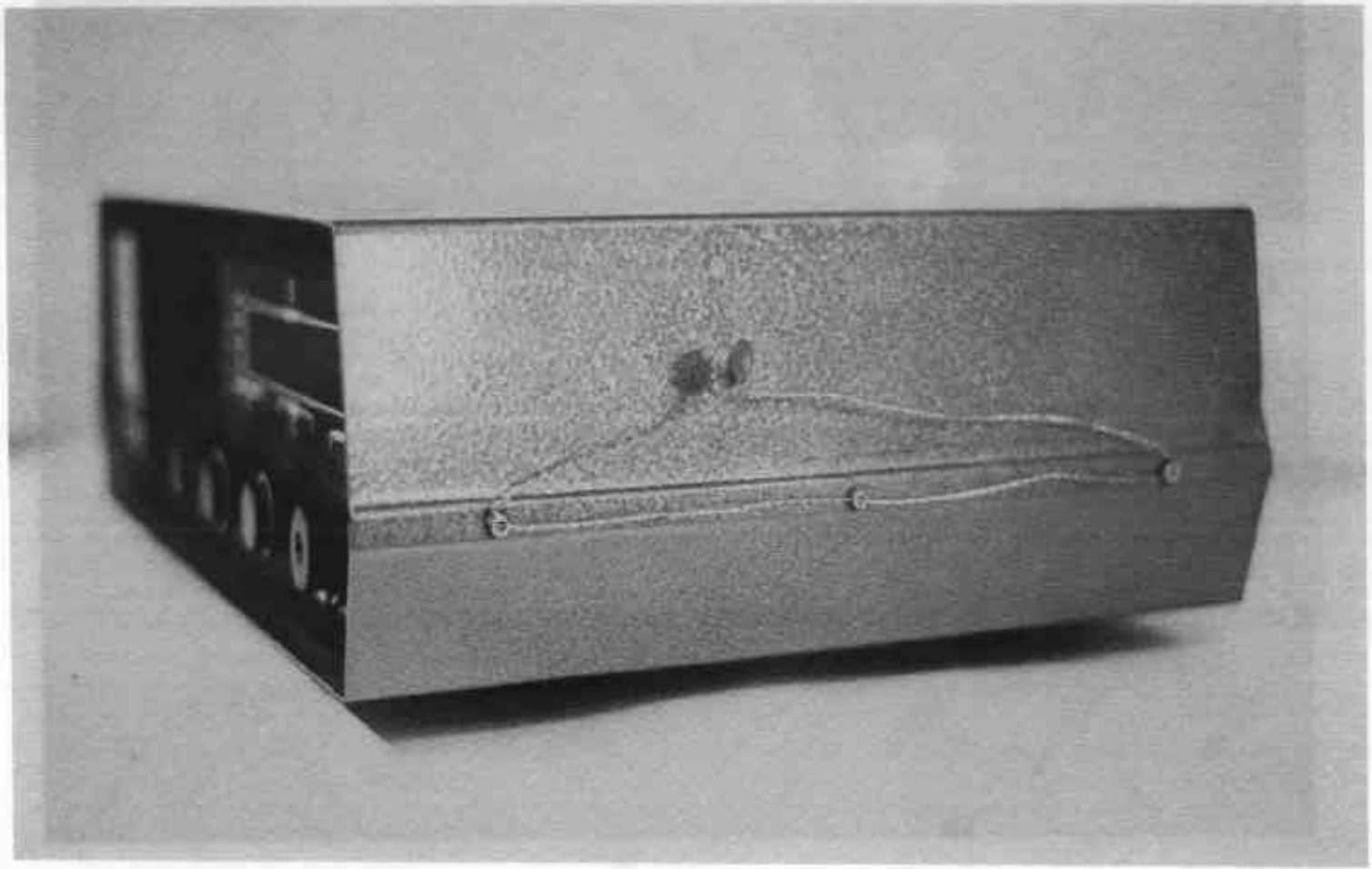
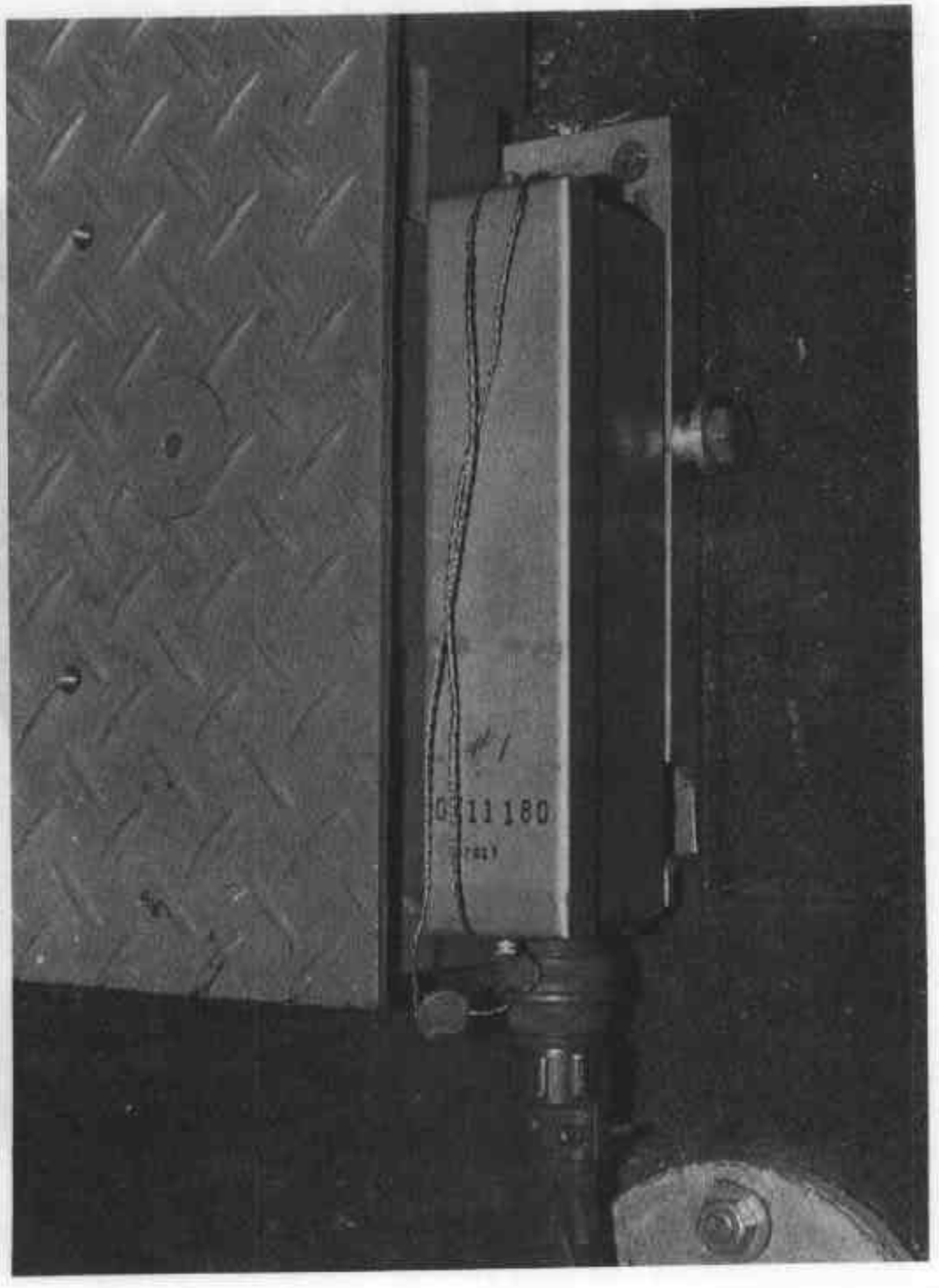
FIGURE 6/9C/42 - 4



Indicator showing Sealing

FIGURE 6/9C/62 - 5



Sealing of Junction Box

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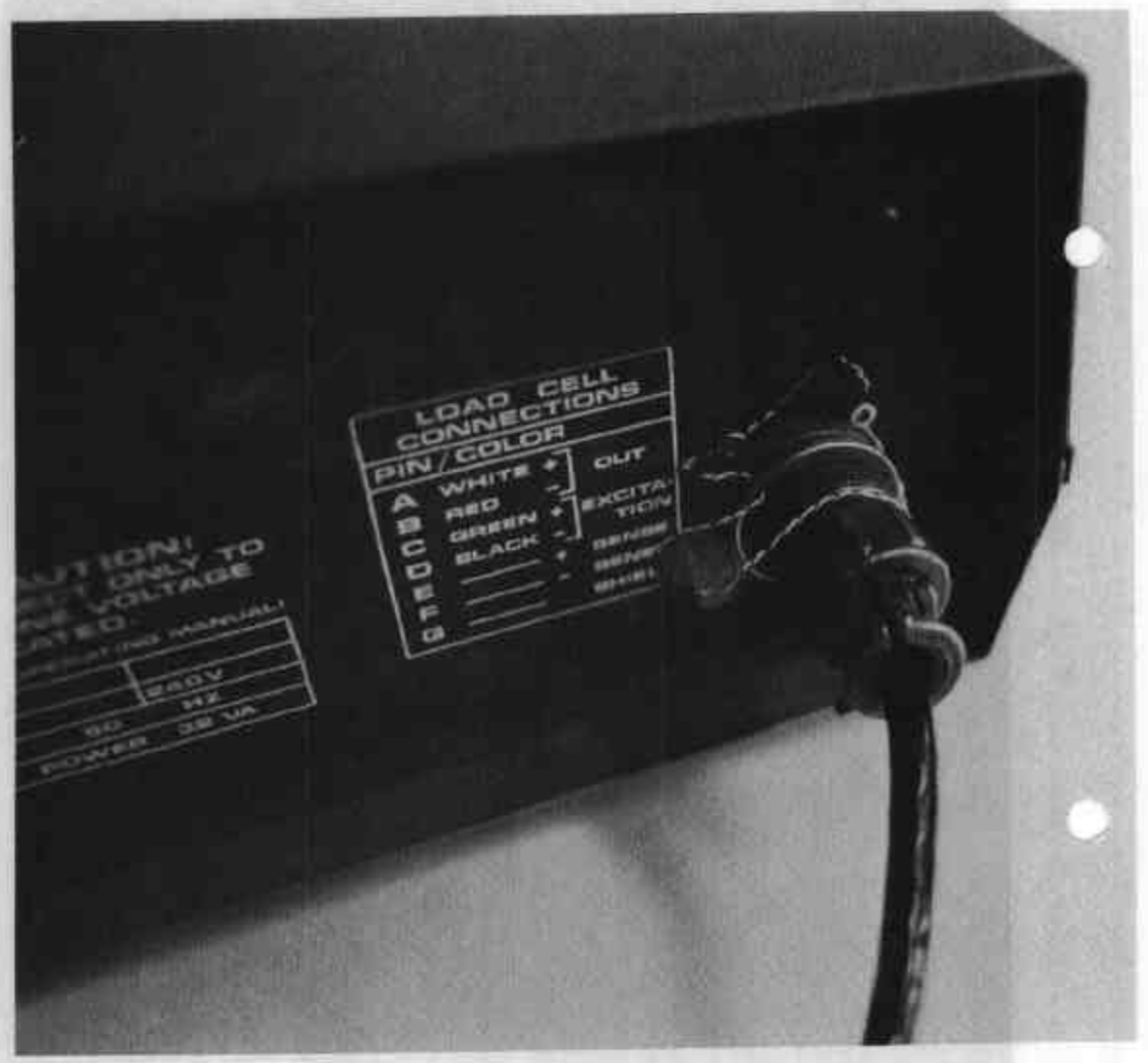
FIGURE 6/9C/62 - 6



Sealing of Interconnecting Cable

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