



Australian Government

**National Measurement
Institute**

12 Lyonpark Road, North Ryde NSW 2113

Cancellation
Certificate of Approval No 6/9C/244A

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

This is to certify that the approval for use for trade granted in Certificate of Approval
No 6/9C/244A issued 30 June 2003 in respect of the

Atrax Model C24B Weighing Instrument
submitted by Atrax Group NZ Limited
now of 390A Church Street
Penrose Auckland
NEW ZEALAND

has been cancelled in respect of new instruments as from 1 July 2005.

Signed by a person authorised by the Chief Metrologist
to exercise his powers under Regulation 60 of the
National Measurement Regulations 1999.

A handwritten signature in black ink, appearing to be 'J. G. T.', written in a cursive style.



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Certificate of Approval

No 6/9C/244A

Issued under Regulation 60
of the
National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the

Atrax Model C24B Weighing Instrument

submitted by Atrax Group NZ Limited
111 Mays Road
Penrose Auckland
NEW ZEALAND.

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 June 2004, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/244A and only by persons authorised by the submitter.

It is the submitter's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the Commission and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with the Commission's Document NSC P 106.

The Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0/A.

This approval shall NOT be used in conjunction with General Certificate No 6B/0.

DESCRIPTIVE ADVICE

Pattern: approved 20 May 1999

- An Atrax model C24B class 4 self-indicating weighing instrument of 100 kg maximum capacity.

Variants: approved 20 May 1999

1. Of 150 kg maximum capacity.
2. With certain alternative Atrax baseworks.

Technical Schedule No 6/9C/244A describes the pattern and variants 1 & 2.

Variant: approved 14 May 2002

3. With an Atrax model ABS-950 indicating system.

Technical Schedule No 6/9C/244A Variation No 1 describes variant 3.

Variant: approved 27 June 2003

4. With an additional Atrax model OP-950 indicator..

Technical Schedule No 6/9C/244A Variation No 2 describes variant 4.

FILING ADVICE

Certificate of Approval No 6/9C/244A dated 13 June 2002 is superseded by this Certificate, and may be destroyed. The documentation for this approval now comprises:

Certificate of Approval No 6/9C/244A dated 30 June 2003
Technical Schedule No 6/9C/244A dated 30 July 1999 (incl. Test Procedure)
Technical Schedule No 6/9C/244A Variation No 1 dated 13 June 2002
Technical Schedule No 6/9C/244A Variation No 2 dated 30 June 2003
Figures 1 to 3 dated 30 July 1999
Figures 4 to 7 dated 13 June 2002
Figure 8 dated 30 June 2003

Signed by a person authorised under Regulation 60 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.

A handwritten signature in black ink, appearing to be 'J. H. B.', written on a light-colored background.

TECHNICAL SCHEDULE No 6/9C/244A

Pattern: Atrax Model C24B Weighing Instrument.
Submittor: Atrax Group NZ Limited
111 Mays Road
Penrose Auckland NEW ZEALAND.

1. Description of Pattern

An Atrax model C24B class 4 self-indicating platform weighing instrument of 100 kg maximum capacity and approved for use with a verification scale interval of 0.1 kg.

1.1 Basework

The model C24B basework (Figure 1) has the four load cells directly supporting the load receptor.

The load receptor has a minimum nominal size of 500 x 650 mm and a maximum nominal size of 780 x 2000 mm.

A conveyor belt assembly may be mounted on the load receptor, however instruments are approved for static weighing only.

1.2 Load Cells

Four Precision Transducers model LS 250 load cells of 250 kg capacity are used mounted as shown in Figure 1.

The load cells are also described in the approval documentation of NSC approval No S342.

1.3 Indicator

A Digitiser model UMC444 (*) digital indicator (Figure 2) is used to digitise the load cell outputs and to control the conveyor.

(*) The model number may have an additional numeric suffix, e.g. '-23'.

1.3.1 Totalising Facility

A totalising facility may be fitted whereby successive weighings may be summed by use of the TOTAL ADD button, provided that the instrument is returned to within its zero range between weighings. The total is displayed by pressing the TOTAL DISPLAY button, when a light marked TOTAL will illuminate. Pressing the TOTAL CLEAR button resets the totaliser.

1.3.2 Display Check

A display check is initiated whenever power is applied.

1.4 Levelling

Where instruments are liable to be tilted (i.e. they are not installed in a permanently fixed location) they are provided with adjustable feet and a level indicator. Adjacent to the level indicator is a notice stating INSTRUMENT MUST BE LEVEL WHEN IN USE, or similar wording.

1.5 Verification/Certification Provision

Provision is made for the application of a verification/certification mark.

1.6 Sealing Provision

Provision is made for the calibration adjustment access at the rear of the indicator to be sealed.

1.7 Markings

Instruments are marked with the following, in the form shown at right:

Manufacturer's mark, or name written in full	Atrax Group
Indication of accuracy class	Ⓜ
Maximum capacity	Max kg *
Minimum capacity	Min kg *
Verification scale interval	e = kg *
Serial number of the instrument
Pattern approval mark for the instrument	NSC No 6/9C/244A
Special temperature limits	0°C to +40°C

- * These markings shall also be repeated adjacent to each reading face, if they are not already located there.

2. Description of Variants

2.1 Variant 1

Of 150 kg maximum capacity and approved for use with a verification scale interval of 0.2 kg.

2.2 Variant 2

With Atrax model C24B baseworks as described below:

- Similar to the basework of the pattern but with the load receptor having a maximum nominal size of 1500 x 2000 mm.
- Similar to the basework of the pattern but inverted so that swivel feet which are fitted to the load cells now support the conveyor, and the load cell mounting is reversed (Figure 3). The basework may be fitted with wheels.

NOTE: Instruments with wheels are intended to be mounted on fixed rails with the wheels only provided for ease of access for servicing. The instruments are used in a fixed location and the requirements of clause **1.4 Levelling** do not apply.

TEST PROCEDURE

Instruments should be tested in accordance with any relevant tests specified in the Inspector's Handbook.

Maximum Permissible Errors at Verification/Certification

The maximum permissible errors for increasing and decreasing loads on initial verification/certification for loads, m , expressed in verification scale intervals, e , are:

- $\pm 0.5e$ for loads $0 \leq m \leq 50$;
- $\pm 1.0e$ for loads $50 < m \leq 200$; and
- $\pm 1.5e$ for loads $200 < m \leq 1000$.

TECHNICAL SCHEDULE No 6/9C/244A

VARIATION No 1

Pattern: Atrax Model C24B Weighing Instrument.

Submittor: Atrax Group NZ Limited
111 Mays Road
Penrose Auckland
NEW ZEALAND

1. Description of Variant 3

The pattern or variants using an Atrax model ABS-950 indicating system (Figure 4) rather than the Digitiser model UMC444 digital indicator described for the pattern.

Instruments using this indicating system are approved as Class 3 non-automatic weighing instruments with maximum capacity (*Max*) of 150 kg, verification scale interval (*e*) of 0.1 kg and minimum capacity (*Min*) of 2 kg. Alternatively, they may be configured as Class 4 non-automatic weighing instruments as described for the pattern and variants 1 and 2 in Technical Schedule No 6/9C/244A dated 30 July 1999.

Unlike the pattern, instruments using this indicating system are approved for use over the temperature range of -10°C to +40°C (consequently the special temperature limits mentioned for the pattern are not required to be marked).

The Atrax model ABS-950 indicating system uses an Atrax model OP-950 (operator) indicator to which an Atrax model PP-950 (passenger) display is attached.

The OP-950 unit (Figure 5) contains the main system board and is connected to the basework; it displays the item weight, a total weight, and the number of items (bags) contributing to the total.

The PP-950 unit (Figure 6) also displays the item weight, a total weight, and the number of items (bags) contributing to the total.

The system is powered from the mains power via an Atrax model PS-950 power supply unit.

The system may have additional management functions and output sockets for the connection of auxiliary and/or peripheral equipment (including for example alarms and conveyor controls). Data output from the system may only be used for trade purposes where it complies with NSC General Supplementary Certificate of Approval No S1/0/A.

1.1 Zero

Zero is automatically corrected to within $\pm 0.25e$ whenever power is applied and whenever the instrument comes to rest within $0.5e$ of zero.

The instrument has a semi-automatic zero-setting device with a nominal range of not more than 4% of the maximum capacity of the instrument.

1.2 Sealing Provision

Provision is made for the calibration adjustments in the indicator to be sealed. This is achieved by ensuring that the two switches below the cover at the bottom left **at the rear** of the OP-950 unit are in the 'off' position (Figure 7) and then sealing access to these switches by use of a destructible adhesive label or a lead and wire type seal.

1.3 Markings

Instruments are marked with the following:

Manufacturer's mark, or name written in full	Atrax Group
Indication of accuracy class	Ⓜ (or ⓂⓂ) #
Maximum capacity	Max kg *
Minimum capacity	Min kg *
Verification scale interval	e = kg *
Serial number of the instrument §

Class according to maximum capacity and verification scale interval.

* These markings shall also be repeated adjacent to each reading face, if they are not already located there.

§ The serial number may be shown as part of the display sequence when the instrument is turned on.

1.4 Operation

The OP-950 unit has provision for semi-automatic zero setting (->0<- key).

A totalising facility allows successive weighings to be summed by use of the M+ key, (or subtracted by use of the M- key). Pressing the C key resets the total and bag count to zero.

Other keys of the OP-950 unit may be configured to perform operations such as control of the conveyor belt, or printing of weighing results.

It is also possible for a second totalising facility (e.g. for a group of passengers) to be displayed on a temporary basis.

Note: Operation with units other than kilograms is not approved.

1.5 Maximum Permissible Errors at Verification/Certification

The maximum permissible errors for class 3 instrument for increasing and decreasing loads on initial verification/certification for loads, m , expressed in verification scale intervals, e , are:

- $\pm 0.5 e$ for loads $0 \leq m \leq 500$;
- $\pm 1.0 e$ for loads $500 < m \leq 2\,000$; and
- $\pm 1.5 e$ for loads $2\,000 < m \leq 10\,000$.

TECHNICAL SCHEDULE No 6/9C/244A

VARIATION No 2

Pattern: Atrax Model C24B Weighing Instrument

Submittor: Atrax Group NZ Limited
111 Mays Road
Penrose Auckland
NEW ZEALAND

1. Description of Variant 4

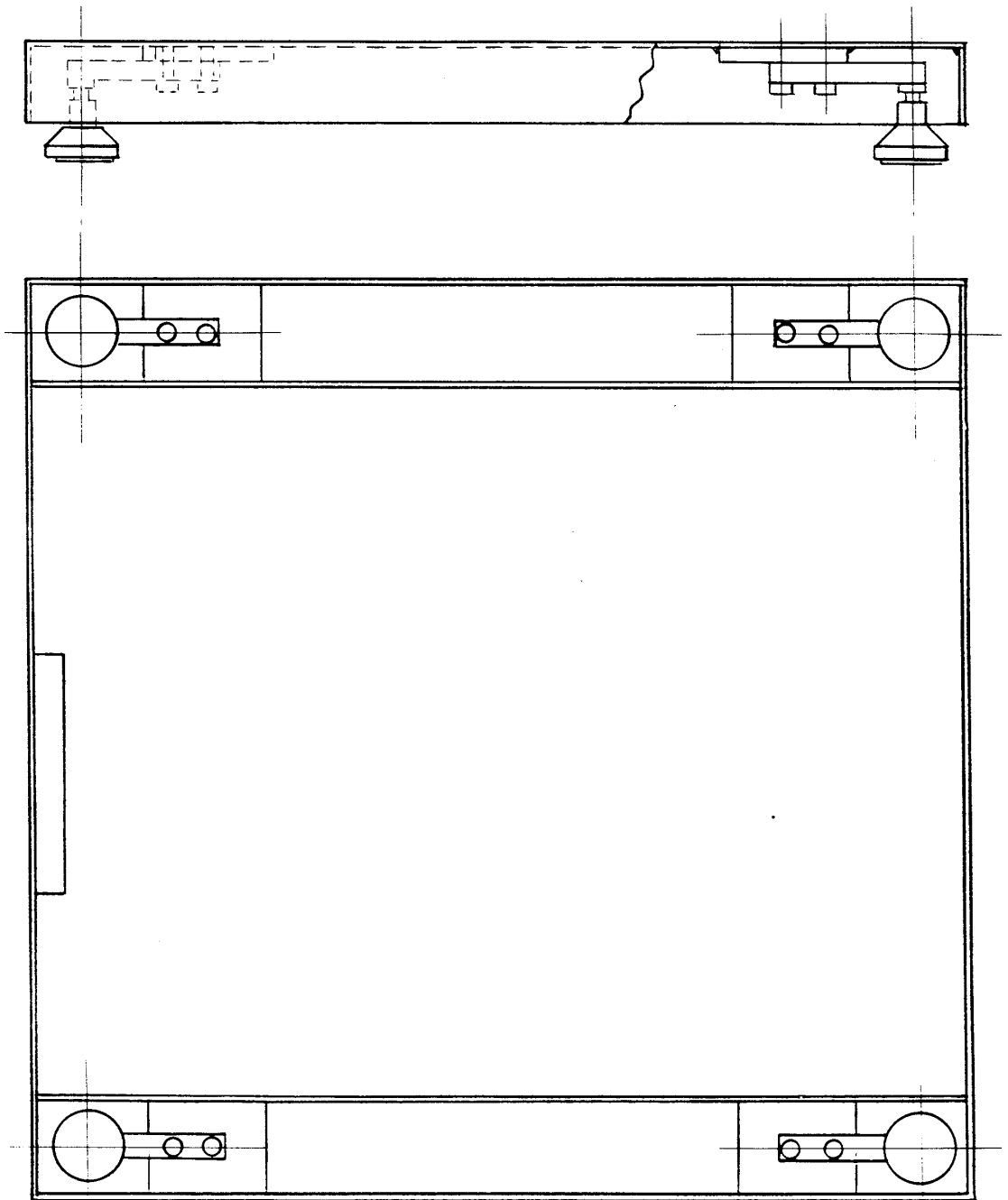
With a second ('slave') OP-950 operator indicator. This slave operator panel repeats the display of the first OP-950 indicator ('master') and in addition provides remote operation of the semi-automatic zero setting function (->0<- key). The intention of this arrangement is for a situation in which a single weighing platform is shared between two airport check-in counters (with the master indicator on one counter, and the slave indicator on the other).

Whilst the slave OP-950 operates as a slave of the first in respect of its measurement function, its other functions, namely totalisation, number of items (bags) and management functions such as alarms, operate separately.

As the calibration adjustments of the measuring function are carried out within the master OP-950, it is not necessary for the slave operator panel to be sealed.

The slave OP-950 is identical to the master unit except for a software setting that selects a slave mode. A passenger display PP-950 may be connected to both the master and slave unit. Figure 8 shows such an arrangement.

FIGURE 6/9C/244A - 1



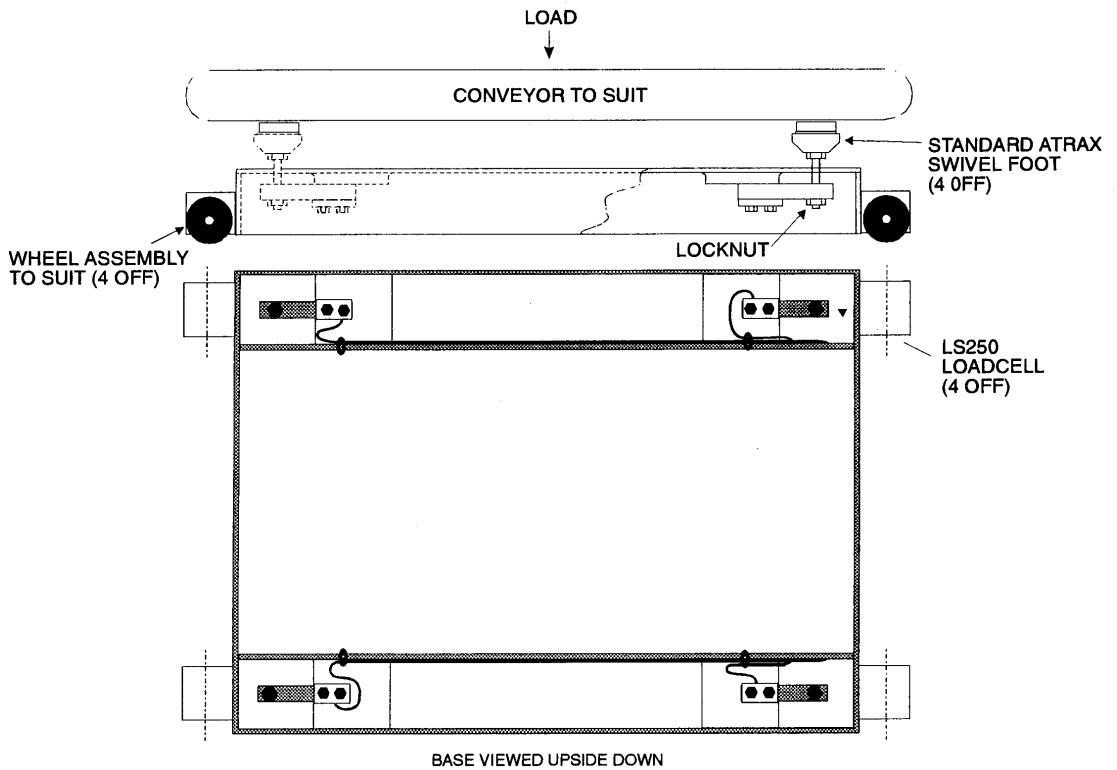
Atrax Model C24B Basework

FIGURE 6/9C/244A - 2



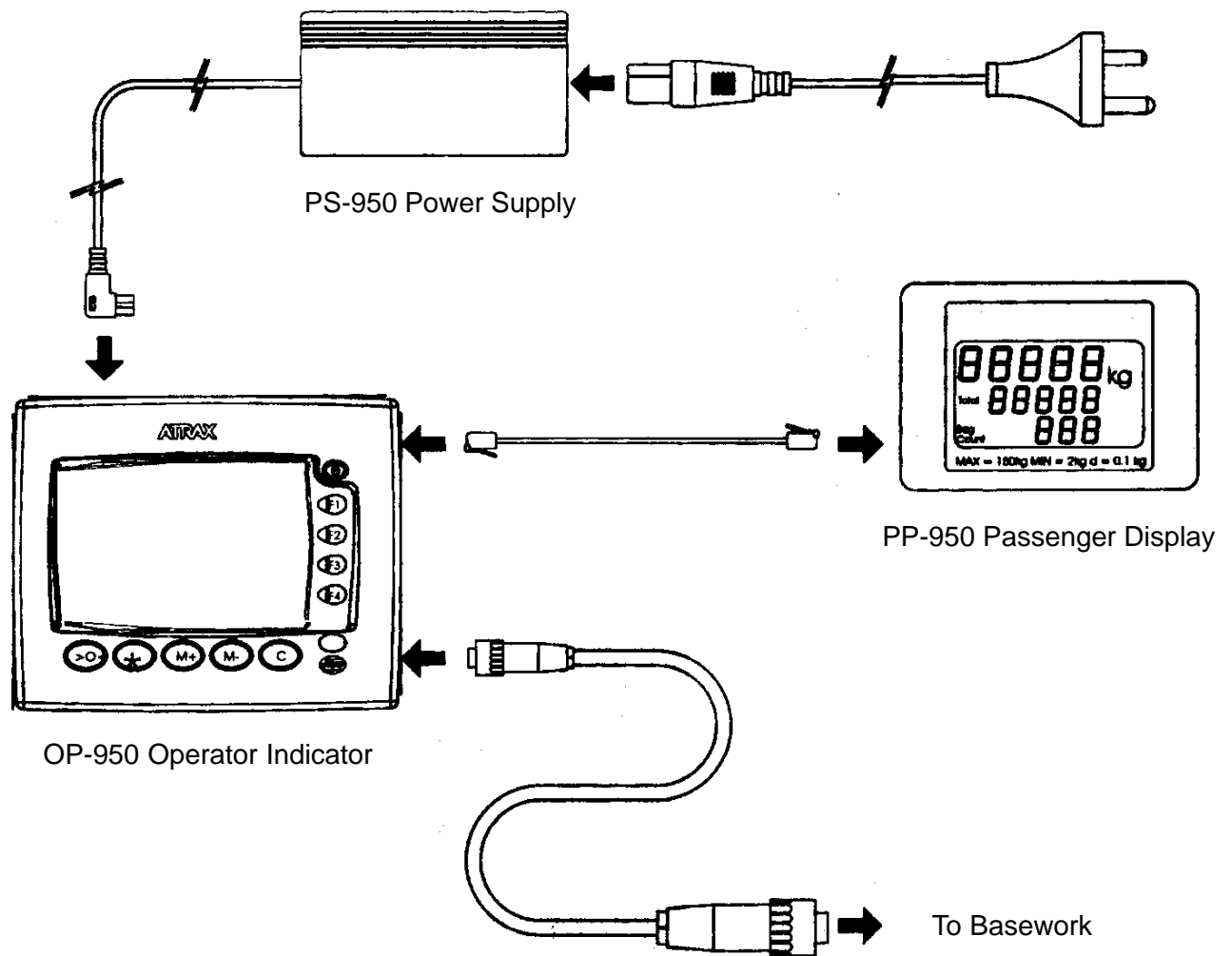
Digitiser Model UMC444 Digital Indicator

FIGURE 6/9C/244A - 3



An Alternative Model C24B Basework

FIGURE 6/9C/244A - 4



Atrax Model ABS-950 Indicating System

6/9C/244A
13 June 2002

FIGURE 6/9C/244A - 5



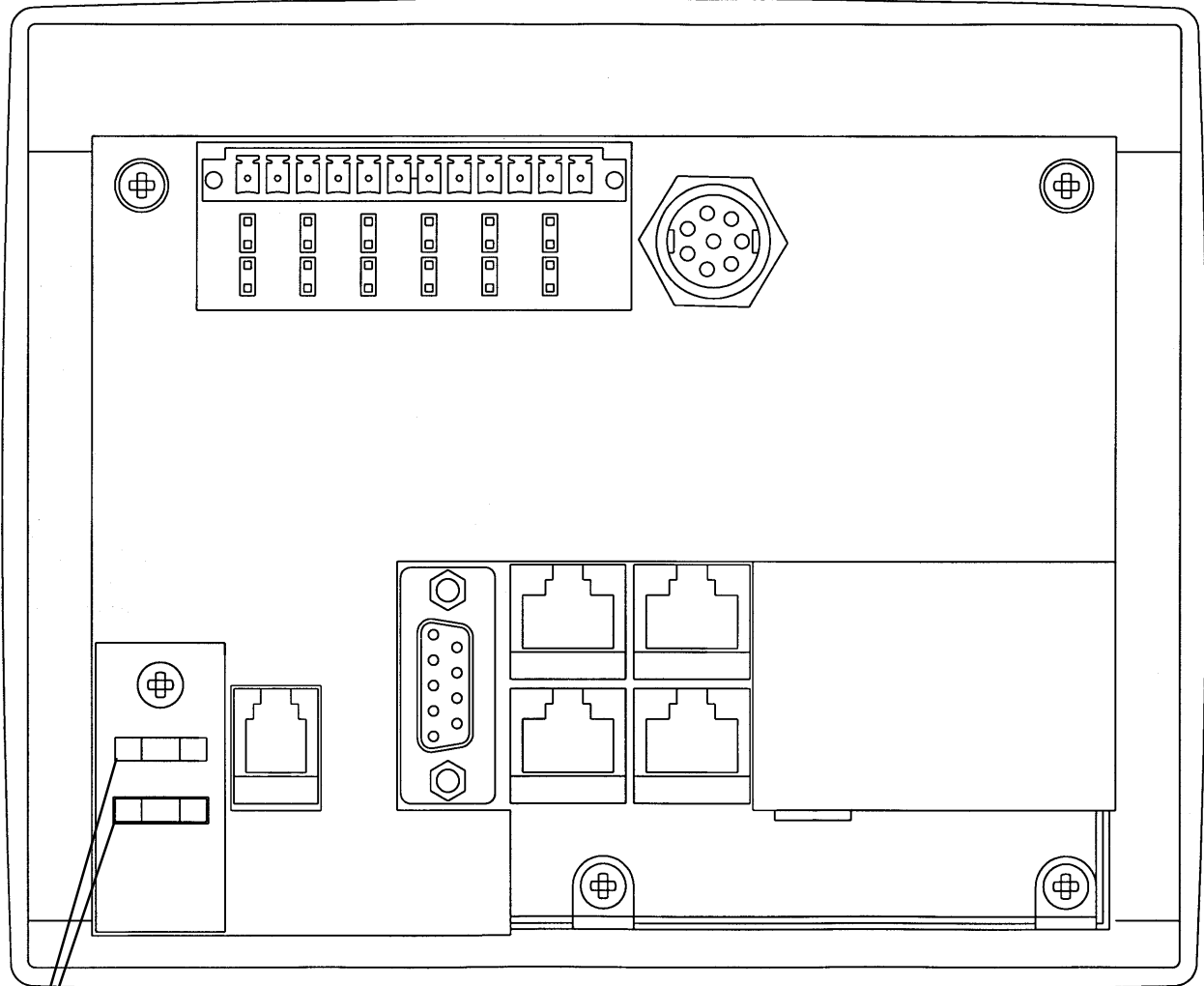
Atrax Model OP-950 Operator Display Unit

FIGURE 6/9C/244A - 6



Atrax Model PP-950 Passenger Display Unit

FIGURE 6/9C/244A - 7

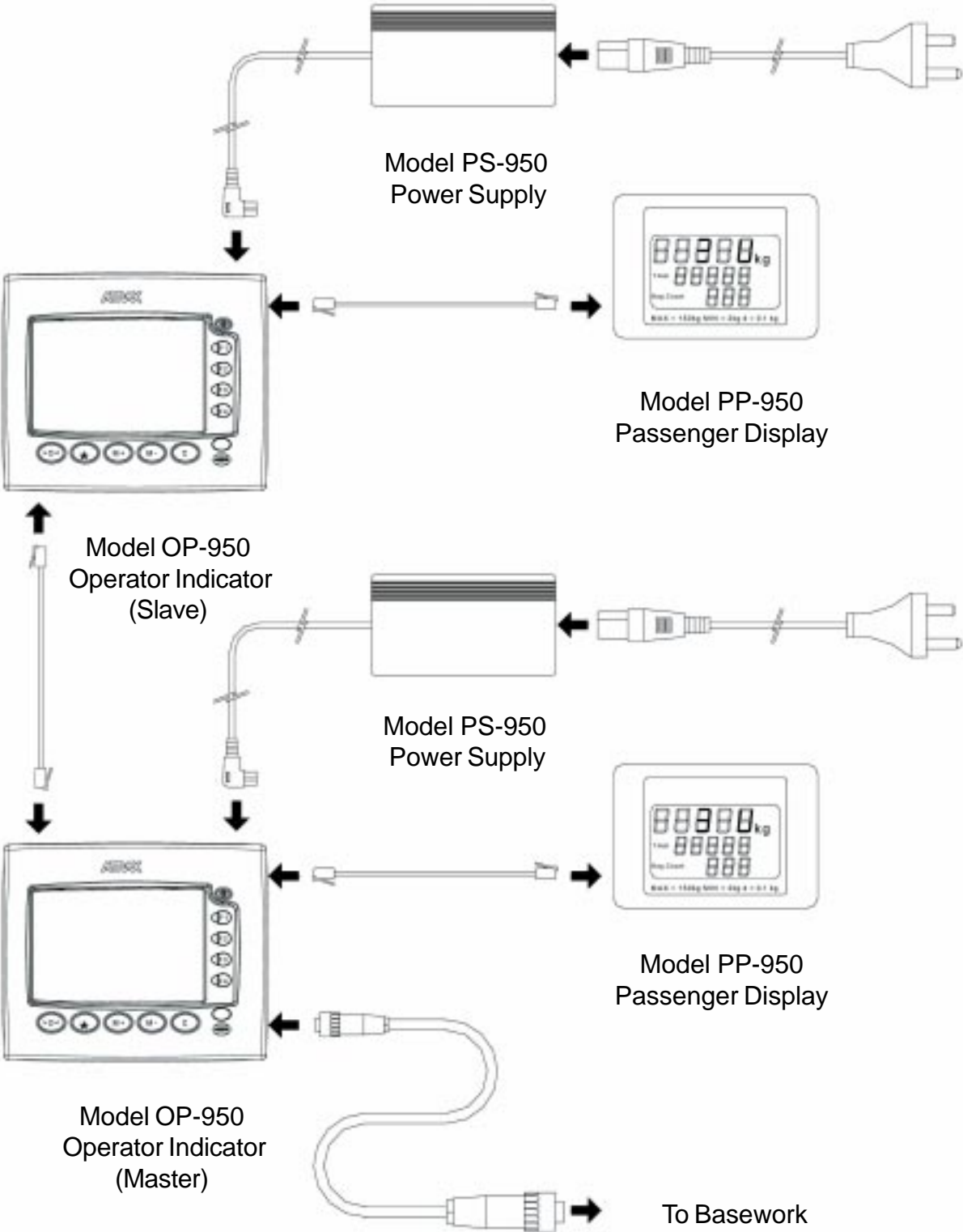


NOTE: These two switches to be in the 'off' position and then sealed.

REAR VIEW OF MODEL OP-950

Sealing Provision

FIGURE 6/9C/244A – 8



Typical Dual Operator Indicator System – Variant 4