Avery Weigh-Tronix

BI920
BAGGAGE INDICATOR

USER MANUAL

www.averyweigh-tronix.com

Copyright

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DECLARATION OF CONFORMITY

08

We: Atrax Group NZ Ltd. 390a Church St, Penrose, Auckland. NEW ZEALAND

Declare under our sole responsibility that the product;

Type of Equipment: Non-automatic weight indicator
Model Number: BI920 Baggage Indicator

To which this declaration relates is in conformity with the following standards of the following EEC directive:

Non-Automatic Weighing Instruments	90/384/EEC
EMC Directive	2004/108/EC
Low Voltage Directive	EN 60950/2000
The applicable harmonized standards	EN55024, 1998 A1+A2
	EN55022. 2006 Class B

This declaration is only valid if the non-automatic weighing instrument was verified by the manufacturer or with a certificate by a notified body.
I, the undersigned, hereby declare that the equipment specified above conforms to the directives and standards as specified.

Signature   Date. 18/4/2008
Ian Walton   Vice President

Avery Weigh-Tronix

WARRANTY STATEMENT

Avery Weigh-Tronix will repair or replace this equipment free-of-charge if a malfunction occurs under normal use for a period of 12 months from installation due to a manufacturing fault.

However the warranty is rendered void under any or all of the following conditions:

1) The fault is due to miss-operation, misuse, or unauthorized modification or repair of the equipment by the customer.

2) The fault is due to improper or insufficient maintenance by the customer.

3) The fault is due to natural disaster including fire, flooding and earthquake etc.

4) The fault is due to use of a non-specified power supply or in a non-specified location.

Avery Weigh-Tronix will not accept liability for equipment faults due to unforeseen and unusual circumstances, nor for faults due to mishandling by the customer.

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AWTX BI920 BAGGAGE INDICATOR

CONTENTS

OPERATOR GUIDE

CHAPTER 1

THE OPERATOR DISPLAY PANEL

TOTAL WEIGHT OF BAGS
This shows the *total weight* of all the bags weighed so far.

WEIGHT OF THIS BAG
This gives the weight of the bag currently on the scale.

POWER BUTTON
This turns the scale on and off.

FUNCTION BUTTONS
These buttons are site specific and will be configured during installation. In most cases they will be disabled.

NUMBER OF BAGS
This shows the total *number* of bags weighed so far.

SET TO ZERO
Press and hold this button to set the scale to zero. Make sure nothing is on the scale.

This button is set up for print or belt run, or may be disabled.

ADD BUTTON
Use this to add a bag weight to the total.

SUBTRACT BUTTON
Use this to subtract a bag weight from the total.

CLEAR BUTTON
Press and hold for 1 second to clear all bag weights.

MESSAGES SHOW HERE
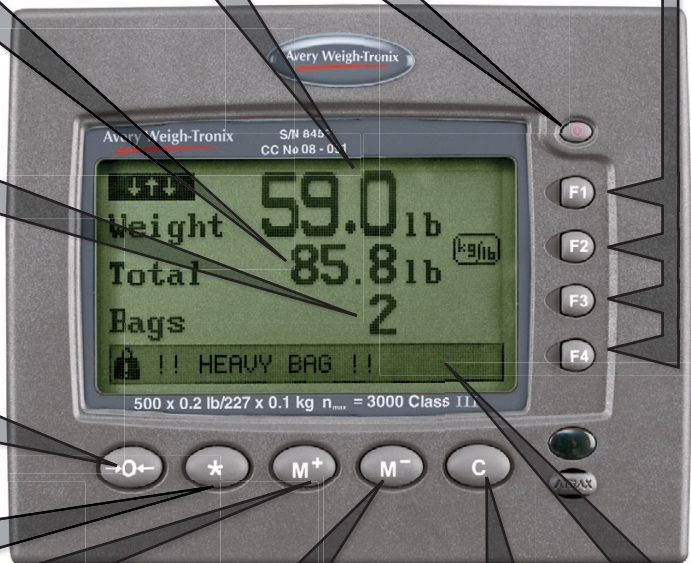
OPERATING THE SCALE

Before You Begin...

CHECK:

1. There are no objects on the scale.
2. Nothing is obstructing the scale.

Then switch on the Power (if needed).

Weighing a Single Bag

1. Press the <<O>> button to set the scale to zero, if not already. Press the <<C>> button to clear the memory, if necessary.

2. Put the bag on the scale.

3. Note the weight of the bag.

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ADDING & SUBTRACTING BAG WEIGHTS

Weighing Multiple Bags

1. Press the <<O>> button to set the scale to zero, if not already. Press the <<C>> button to clear the memory, if necessary.

2. Put the first bag on the scale.

3. Press <<M+>> to record the first bag weight and add more bags.

4. Remove the weighed bag from the scale.

5. Put the next bag on the scale and press <<M+>> again.
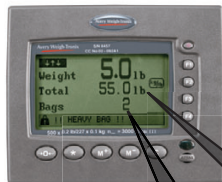
6. Repeat steps 4 and 5 until all bags are weighed.

7. Check that the number of bags is correct.

8. Note the total.

ADDING & SUBTRACTING BAG WEIGHTS cont

Subtracting a Bag's Weight

1. Put the bag whose weight you want to subtract on the scale.

2. Press the <<M->> key to reduce the bag count and subtract the weight.

SCREEN MESSAGES

Error Messages

This topic gives the common error messages that may appear on the Operator Screen, and what you should do about them.

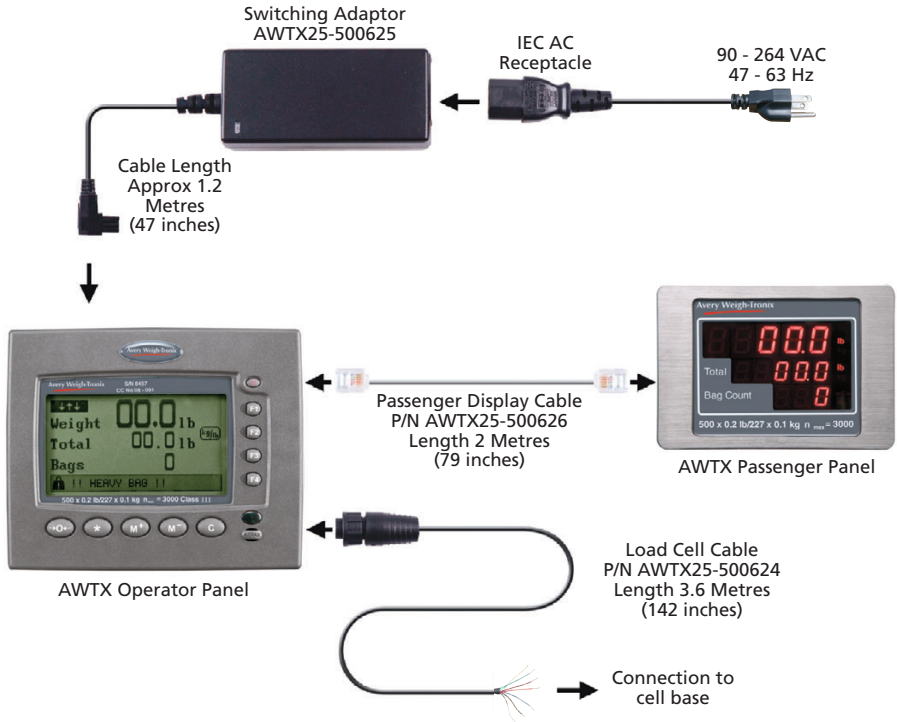| Message	Explanation
⊗ **Can't subtract weight**	The weight you want to subtract is more than the total OR The bag count is already at zero. Use the <<C>> key to clear memory.
⊗ **Scale in motion**	Try again. Wait until the scale settles. Then press the key again.
⊗ **Scale not at zero**	Scale has not returned to zero since last bag added. Remove all bags from scale, wait for scale to return to zero. Then continue as normal.
⊗ **Unable to zero scale**	Something is on the scale, impeding it OR The scale needs to be calibrated.
▮ **!! HEAVY BAG !!**	The bag weight is higher than the Heavy Bag limit pre-set for this scale.
✓ **Zero OK**	The scale has successfully been set to zero.
✓ **Bag totals cleared**	The accumulated bag totals have been cleared.
⊗ **No passenger display**	The scale cannot detect the Passenger Display Panel.
⊗ **Scale zero has drifted**	The scale has not returned to the zero range for at least 60 minutes. Remove any weight on the scale and press the zero key.

MAINTENANCE AND TROUBLESHOOTING GUIDE

CHAPTER 2

INTRODUCTION

The diagram shows how the components of the AWTX BI920 Baggage Indicator fit together.

Switching Adaptor
AWTX25-500625

IEC AC
Receptacle

90 - 264 VAC
47 - 63 Hz

Cable Length
Approx 1.2
Metres
(47 inches)

Passenger Display Cable
P/N AWTX25-500626
Length 2 Metres
(79 inches)

AWTX Passenger Panel

AWTX Operator Panel

Load Cell Cable
P/N AWTX25-500624
Length 3.6 Metres
(142 inches)

Connection to
cell base

About this Manual

This Manual covers both routine maintenance tasks that must be completed on the BI920 Baggage Indicator; and fixing problems that might arise.

THERE ARE 3 MODULES:

1. **Three monthly maintenance tasks**

2. **Twelve monthly maintenance tasks**

3. **Troubleshooting**

THREE MONTH MAINTENANCE TASKS

Introduction

There are three simple tasks which need to be done every three months, to make sure that the BI920 Baggage Indicator continues to operate accurately and effectively.
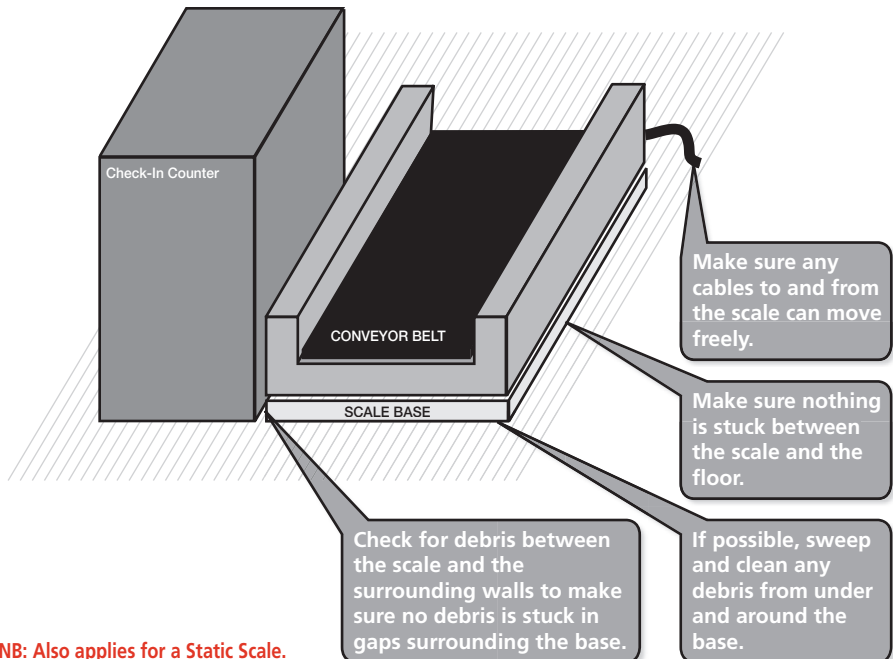
THESE ARE:

1. Clean the scale.
2. Check the displays.
3. Check for damage.

This topic describes what you would do for each of these tasks.

Cleaning and Removing Obstacles

Check the area around the Scale to make sure there is no rubbish or debris that could stop the scale from moving freely. It may be necessary to move the scale base to complete this task.

Check-In Counter

CONVEYOR BELT

SCALE BASE

Make sure any cables to and from the scale can move freely.

Make sure nothing is stuck between the scale and the floor.

Check for debris between the scale and the surrounding walls to make sure no debris is stuck in gaps surrounding the base.

If possible, sweep and clean any debris from under and around the base.

NB: Also applies for a Static Scale.

THREE MONTH MAINTENANCE TASKS cont

Check the Display Panels

The Operator Display and Display Segments, on both the Operator and Passenger Display Panels, need to be checked to ensure they are working properly.

FOLLOW THESE STEPS:

1. Switch the scale 'off' and 'on' again.
2. Watch the displays as they automatically follow the self-test sequence. Note any faults.
3. Check that both displays show the same weight information.

Check the Keys

The keys on the Operator Display Panel need to be checked to ensure they are not sticking and are functioning properly. Make sure that pressing each key produces the correct result, as shown in the diagram below.

POWER BUTTON
This turns the scale on and off.

FUNCTION BUTTONS
These buttons are site specific and will be configured during installation. In most cases they will be disabled.

CLEAR BUTTON
Press and hold for 1 second to clear all bag weights.

SET TO ZERO
Press and hold this button to set the scale to zero.
Make sure nothing is on the scale.

This button is set up for print or belt run, or may be disabled.

ADD BUTTON
Use this to add a bag weight to the total.

SUBTRACT BUTTON
Use this to subtract a bag weight from the total.

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CC No 08 - 091

↓↑↓
Weight   **5.0** lb
Total   **55.0** lb   kg/lb
Bags   **2**
🔒 !! HEAVY BAG !!

500 x 0.2 lb/227 x 0.1 kg n$_{max}$ = 3000 Class III

THREE MONTH MAINTENANCE TASKS cont

Check for Damage

A thorough check for damage needs to be done to ensure everything will continue to operate properly.

Make sure that the casing on all cables to and from the scale are intact and there are no nicks, pinches or cuts. (See right).
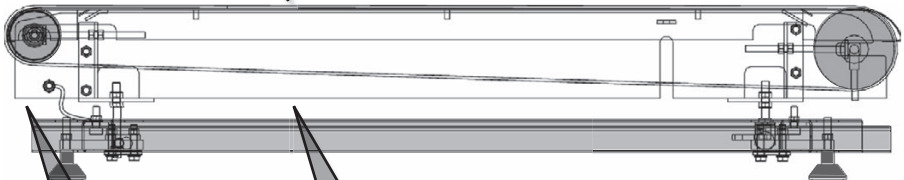
Check there are no major dents in side panels.

Check that the scale and conveyor are both freely moving with no binds or obstructions.

Check the Operator and Passenger Display Panels to make sure displays are clearly visible; and not cracked or chipped.

TWELVE MONTH MAINTENANCE TASKS*

Introduction

Every twelve months, a more comprehensive maintenance check is needed.

This includes checking the calibration of the scale as well as comprehensive cleaning tasks and careful checking for damage.

This task will normally take about 30 minutes for each unit, so it is important to schedule the twelve month maintenance check at a time when the scale can be out of normal use for that period.

THE TASKS REQUIRED FOR THE TWELVE MONTH CHECK ARE AS FOLLOWS:

1. All 3 month checks.

2. Checking the accuracy of the scale.

3. Checking operation, overweight alarms, etc.

These tasks are described in detail in the Commissioning Guide. Refer to this guide or contact Avery Weigh-Tronix for more information.

* PLEASE NOTE: local Government regulations may require this procedure to be carried out at intervals other than 12 months.

TROUBLE SHOOTING

Introduction

The BI920 Baggage Indicator has a built-in feature of providing clear error messages to guide service technicians when the scale is not operating correctly.

These appear on the lower middle part of the screen.

An example is shown below.

Example: This error message shows that there is an analogue/digital conversion fault.

Replace the Operator Display Panel or the scale base to correct this.

TROUBLE SHOOTING cont

Common Messages for Operators

The most common error messages that might come up on the screen during normal operation are given in the table below.

ERROR MESSAGE	WHAT IT MEANS	WHAT TO DO
⊗ Can't subtract weight	The weight you want to subtract is more than the total OR The bag count is already at zero.	Press the <<C>> button to clear memory.
⊗ Scale in motion	The weight is moving so no reading can be fixed.	Try again. Check for binds or something touching against the scale base. Wait until the scale settles. Then press the key again.
⊗ Scale not at zero	Scale has not returned to zero since last bag added.	Remove all bags from scale, wait for scale to return to zero. Then continue as normal.
⊗ Unable to zero scale	Something is on the scale, impeding it OR The scale needs to be calibrated.	Clear obstructions, or recalibrate the scale.
⊗ Scale zero has drifted	The scale has not returned to the zero range for at least 60 minutes.	Remove any weight on the scale and press the zero key.
⊗ No passenger display	No connection to the Passenger Display Panel.	Check the Operator/ Passenger Cable connections. Replace the AWTX25-500626 serial cable. Replace the Passenger Display Panel.

TROUBLE SHOOTING cont

Other Error Messages

There are a number of other error messages that sometimes come up on your screen.

These are covered in the table below.

ERROR MESSAGE	WHAT IT MEANS	WHAT TO DO
Weight ▲▲▲ ▲ Kg	Gross overload.	CHECK: • Is there too much load on the scale base? • Is the scale base sticking on something? If this has not cleared the Error Message contact your local service agent or Avery Weigh-Tronix.
Weight ▼ ▼▼▼ Kg	Gross under range condition.	• Check to ensure the base is not sticking. If this has not cleared the Error Message contact your local service agent or Avery Weigh-Tronix.
Calibration Error		Contact your local service agent or Avery Weigh-Tronix.

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