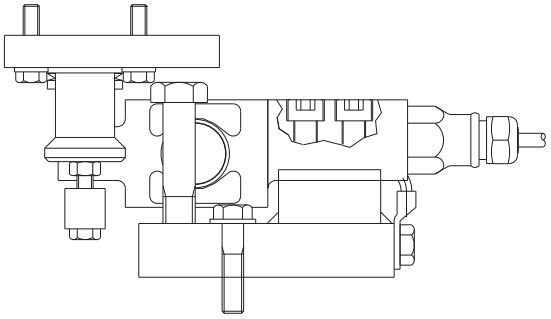
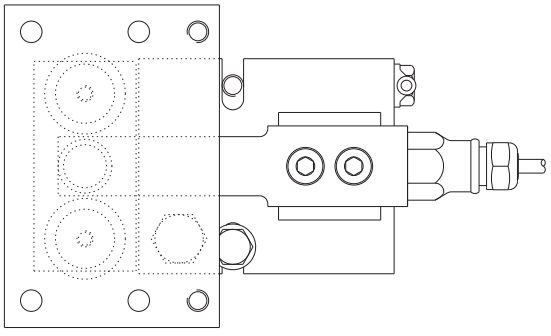
FAIRBANKS SCALES

Installation Manual

Omnicell

Models: 9110





50766
Revision 2 01/08

Amendment Record

Omnicell 9110

50766

Manufactured by Fairbanks Scales Inc.
821 Locust
Kansas City, Missouri 64106

Issue #1	New Product
Revision 2	Inserted Load Cell Wiring Chart

Disclaimer

Every effort has been made to provide complete and accurate information in this manual. However, although this manual may include a specifically identified warranty notice for the product, Fairbanks Scales makes no representations or warranties with respect to the contents of this manual, and reserves the right to make changes to this manual without notice when and as improvements are made.

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Section 1: General Information

A. Introduction

Fairbanks Omnicell 9110 Series tank weighing assembly is made for low capacity, non-commercial weighing applications. It features an exclusive slider plate design that eliminates problems caused from thermal expansion.

OMNICELL® 9110 SERIES TANK WEIGHING ASSEMBLY FEATURES

- Capacities available from 45 lbs to 225 lbs.
- Sliding system with 2-directional bumpers.
- Low profile design.
- Load cells sealed to industry's highest standard for environmental protection.
- Load cell constructed of 17-4 stainless steel for high caustic protection.
- Mounts available in 304 stainless and zinc plated steel.
- Factory Mutual approved for hazardous applications.
- Patented MV/V/Ohm calibration for ease of installation.
- Designed for non-commercial applications.

B. Specifications

Mount Construction	304 stainless steel; zinc plated mild steel
Capacities	45 lb, 112 lb, 225 lb.
Full Scale Output (FSO)	2.0mV/v ± 0.05%
Combined Error (FSO)	≤ 0.03%
Non-Linearity (FSO)	0.02%
Hysteresis (FSO).	0.02%
Creep Error (30 min.)	≤ 0.05%
Compensated Temperature	14° F to 104° F (-10° C to 40° C)
Operating Temperature	-40° F to 176° F (-40° C to 80° C)
Excitation Voltage	5-15 VDC
Overload	Safe = 150%; ultimate = 300%
Sideload	Safe = 100%
Bridge Resistance	1000 ohms nominal
Load Cell Construction	Stainless Steel 17-4 PH
Sealing	Hermetic seal; Cable entry sealed by glass to metal header
Load Cell Cable.	20 ft., polyurethane
Protection	IP 68
Approvals	Factory Mutual

C. Accessories

Mild Steel Uplift Protection with bolts. 25458

Stainless Steel Uplift Protection with bolts. . .25459

Section 2: Installation

A. General Service Policy

Prior to installation, it must be verified that the equipment will satisfy the customer's requirements as supplied, and as described in this manual. If the equipment cannot satisfy the application and the application cannot be modified to meet the design parameters of the equipment, the installation should not be attempted.

It is the customer / operator's responsibility to ensure the equipment provided by Fairbanks is operated within the parameters of the equipment's specifications and protected from accidental or malicious damage. Other than the procedures authorized in the Operating manual, no service, repair, or adjustments may be performed by unauthorized / untrained service personnel. Any unauthorized repairs will void any verbal, implied, or written warranties.

B. Overview

1. These instructions apply to the specific installation procedures. The procedures for instruments, printers and other peripherals are given in manuals specifically provided for those units.

2. All electronic and mechanical calibrations and or adjustments required to make this equipment perform to accuracy and operational specifications are considered to be part of the installation, and are included in the installation charge. Only those charges which are incurred as a result of the equipment's inability to be adjusted or calibrated to performance specifications may be charged to warranty.

3. Absolutely no physical or electrical modifications are to be made to this equipment. Electrical connections other than those specified may not be performed, and physical alterations are not allowed.

4. Before the installation is considered complete, the equipment is to be installed to meet or exceed any applicable weights and measures requirements, if applicable. The installing technician is responsible to make certain customer personnel are fully trained and familiar with the capabilities and limitations of the equipment. Be prepared to recommend the arrangement of components which will provide the most efficient layout, utilizing the equipment to the best possible advantage. The warranty policy must be explained and reviewed with the customer.

C. Unpacking

1. Check that all components are on hand, and agree with the customer's order.

2. Remove all components from their packing material, checking to make certain that all parts are accounted for and no parts are damaged. Advise the shipper immediately, if damage has occurred. Order any parts necessary to replace those which have been damaged. Keep the shipping container and packing material for future use. Check the packing list.

D. Installation Instruction

1. Items not Supplied
   a. 1/4-20 UNC bolts- 4 required for each assembly
   b. 5/16-18 UNC Anchors/ bolts - 2 required for each assembly

2. Raise the vessel to be supported by the Omnicell® assemblies and secure by safely blocking the vessel to the required height. See Figure 50766-1.

3. Place each Omnicell® assembly onto a level surface under each support leg.

4. Set the assemblies for the correct orientation as per Figure 50766-2.

WARNING:
The Omnicell® assemblies **MUST** be orientated as per **Figure 50766-2** or severe damage could occur to the vessel or assemblies.

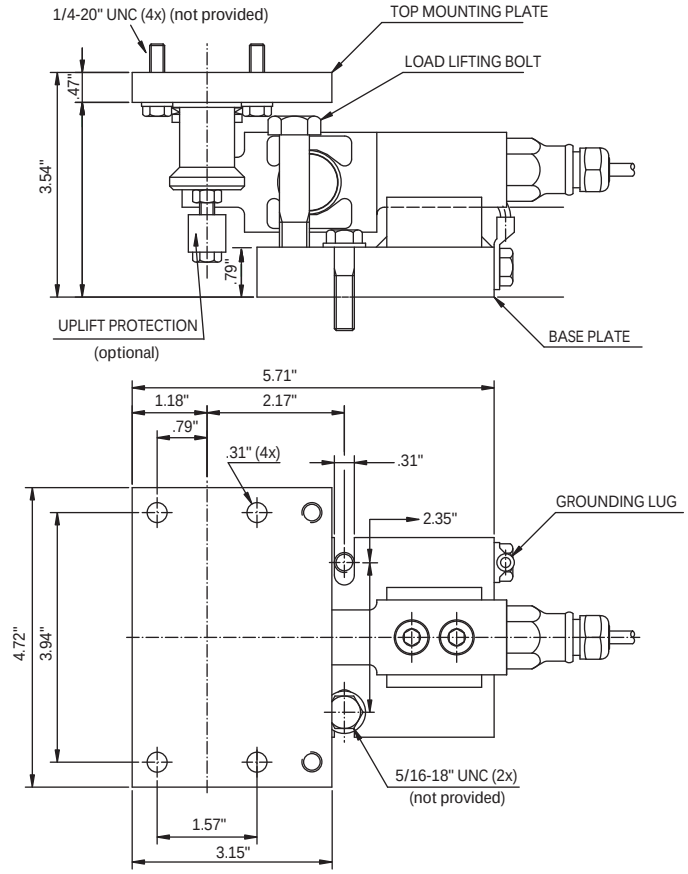
5. Adjust the load lifting/ support bolt until it is against the top plate. Insert the four (4) 1/4-20 bolts and loosely tighten the bolts to the support leg for each assembly.

6. Mark the location of the anchor bolt locations. Slide the assembly back and drill the anchor hole locations. Re-position the load cell assembly, level, and anchor all assemblies.

7. Lower the vessel onto the top plate of each Omnicell® assembly. Tighten the bolts securing the load plates to each support leg of the vessel. Remove all cribbing blocks. Lower the load lifting/ support bolts on each assembly until the bolt has approximately 1/4” clearance and the load cell is bearing the vessel’s weight.

8. Route the cables to the junction box and indicator. Wire the Omnicell® assemblies according to the appropriate junction box and indicator service manual. Calibrate as required.

Load Cell Wiring
+ EXC = Green
- EXC = Black
+ SIG = White
- SIG = Red



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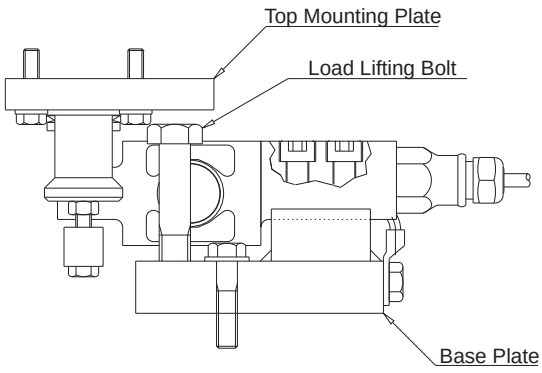

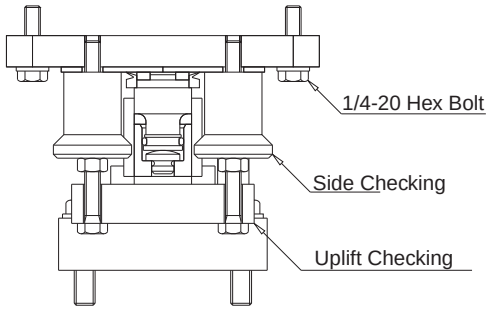

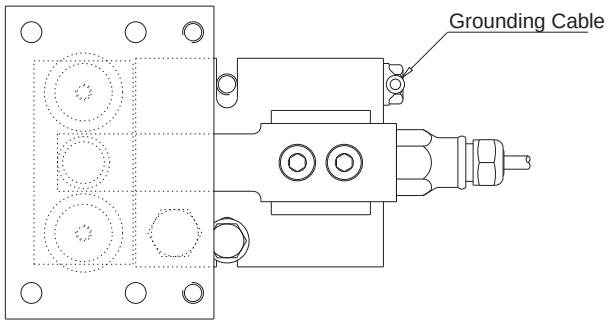

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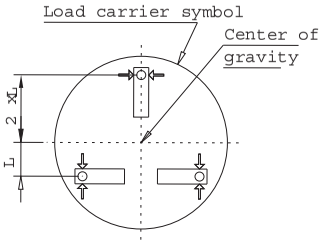


Figure 1

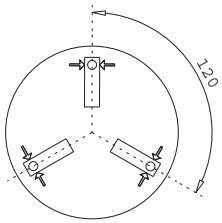


Figure 2

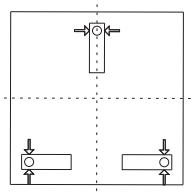
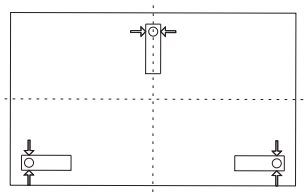


Figure 3



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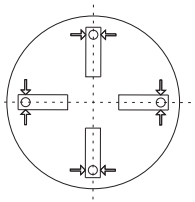

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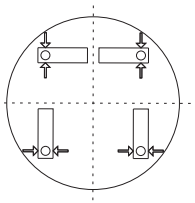

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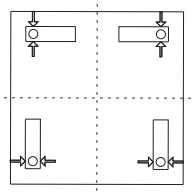

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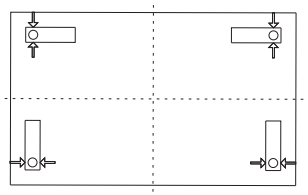

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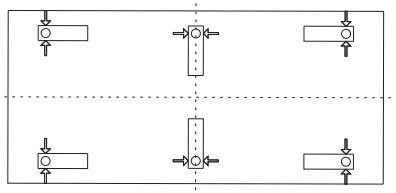

Figure 9

2-directional bumper module

1. Each individual "2-directional bumper module" can be installed rotated 180 around it's loading point.
2. For scales with 3 modules, distances to center of gravity should be chosen with ratio 1:2, as shown in figure 1, which gives even load distribution.
3. For best stability, the loading points of the modules should be as far from one another as the scale structure allows.

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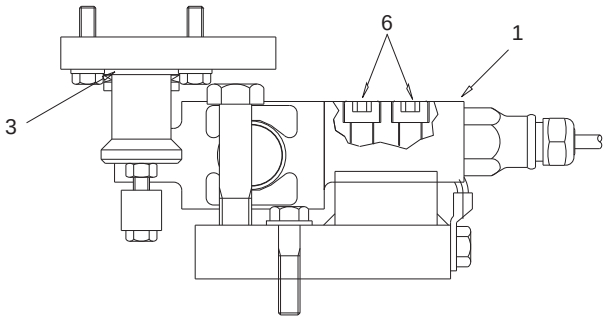
Section 3: Parts List

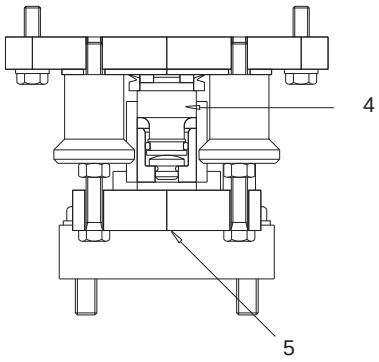
A. Parts List

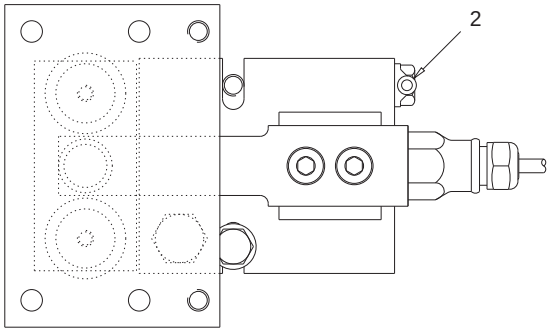
Item	Part Number	Description	Capacities
1	25521	Load cell, SS Hermetically Sealed	45 lb
	25522	Load cell, SS Hermetically Sealed	112 lb
	25523	Load cell, SS Hermetically Sealed	225 lb
2	3-6856-A	Grounding cable w/ bolts ALL	
3	4-6851-1	Sliding plate	ALL
4	4-6841-1	Sliding loading pin	ALL
6	FL M8x35-8.8	Load cell mounting bolts	Mild Steel
	FL M8x35-A4-20-80	Load cell mounting bolts	Stainless Steel

B. Accessories

Item	Part Number	Description	Capacities
5	25458	Mild Steel Uplift w/ bolts	ALL
	25459	Stainless Steel Uplift w/ bolts	ALL







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Appendix I : Models

A. Mild Steel

Product Number	Description
25432	Omnicell, w/ Zinc plated mild steel, ss hermetic load cell, 45 lb capacity
25433	Omnicell, w/ Zinc plated mild steel, ss hermetic load cell, 112 lb capacity
25434	Omnicell, w/ Zinc plated mild steel, ss hermetic load cell, 225 lb capacity

B. Stainless Steel

Product Number	Description
25435	Omnicell, stainless steel mount, ss hermetic load cell, 45 lb capacity
25436	Omnicell, stainless steel mount, ss hermetic load cell, 112 lb capacity
25437	Omnicell, stainless steel mount, ss hermetic load cell, 225 lb capacity