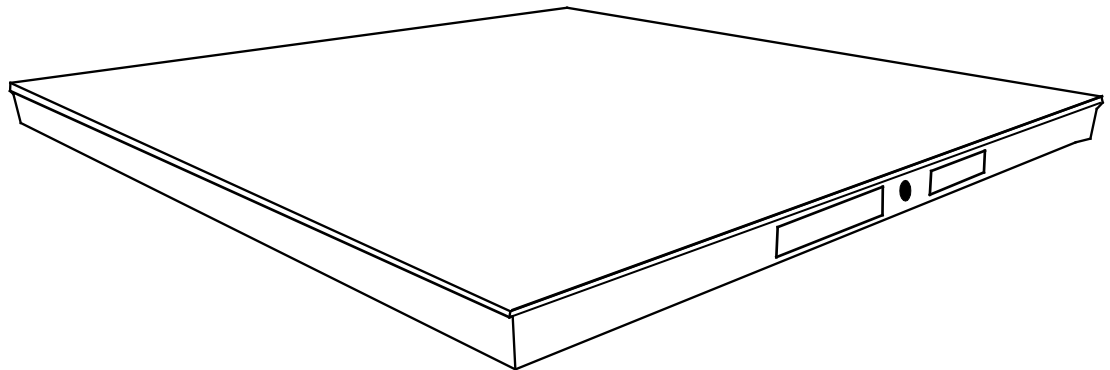




Installation Manual

3500 Series Yellow Jacket Mild Steel Floor Scale



Amendment Record

3500 SERIES Mild Steel Floor Scale Document 51233

Manufactured by Fairbanks Scales, Inc.

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Disclaimer

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Section 1: General Information

1.1. INTRODUCTION

The **3500 Series Floor Scale** uses a summing junction box for interfacing to all analog weight instruments. There are certain product numbers 30155, 30156, 30215, and 30216 within this floor scale series which are not equipped with a summing junction box.

NOTE: *It is the owner's responsibility to document, notify, and follow-up regarding shipping damage with the carrier.*

1.2. DESCRIPTION

- The scale platform is shipped in a crate, fully assembled and wired.
- The floor scale size is **4' x 4'** (both smooth and safety tread).
- The floor scale capacities range from **2.5k to 5k (lbs)**.
- Both scale types are equipped with a **30 foot** interface cable.
- All models have threaded holes in the deck for attaching eyebolts to facilitate installation and cleaning.

NOTE: *Specifications and sizes are shown in **Appendix II**.*

Section 2: Company Service Information

2.1. GENERAL SERVICE POLICY

Prior to installation, ***always*** verify that the equipment satisfies 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.

W A R N I N G

Absolutely NO physical, electrical, or program modifications other than selection of standard options and accessories can be made to this equipment by customers.

Repairs performed by Fairbanks Scales service technicians and authorized distributor personnel ONLY!

Failure to comply with this policy voids all implied and/or written warranties.

2.2. OVERVIEW

2.2.1. Physical Installation Notes

- Check all devices for proper operation. If any error messages occur, refer to Troubleshooting or the proper manual of that device.
- ***Only those charges which are incurred as a result of the equipment's inability to be adjusted to performance specifications may be charged to warranty.***
- No physical alterations (mounting holes, etc.) are allowed during installation.

The installing technician is responsible that all personnel are fully trained and familiar with the equipment's capabilities and limitations before the installation is considered complete.

- All electrical assemblies must be replaced as assemblies or units.
 - Replacement of individual components is not allowed.
 - These components must be returned intact for replacement credit per normal procedures.
- All electronic and mechanical adjustments are part of the installation and are included in the installation charge(s).
 - Included is any required computer programming or upgrades.
 - Included are any accuracy and/or operational specification changes.
- The AC receptacle / outlet shall be located near the Instrument and easily accessible.
- Electrical connections other than those specified may not be performed.

2.2.2. Conferring with Our Client

- The technician must be prepared to recommend the arrangement of components which provide the most efficient layout, utilizing the equipment to the best possible advantage.
- The warranty policy must be explained and reviewed with the customer.

2.2.3. Pre-Installation Checklist

The following points should be checked and discussed with the **Area Sales Manager and/or customer**, if necessary, before the technician goes to the site and installs the equipment.

- ✓ Check the customer's application to make certain it is within the capabilities and design parameters of the equipment.
- ✓ If the installation process might disrupt normal business operations, tell the customer and ask that they make ample arrangements.
- ✓ Be sure that the equipment operator(s) are available for training.
- ✓ The service technician reviews the recommended setup with the Area Sales Manager or Area Service Manager, and together they identify all necessary variations to satisfy the customer's particular application.



2.2.4. Unpacking

Follow these guidelines when unpacking all equipment:

- ✓ Check in all components and accessories according to the customer's order.
- ✓ Remove all components from their packing material, checking against the invoice that they are accounted for and not 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.
- ✓ Collect all necessary installation manuals for the equipment and accessories.
- ✓ Open the equipment and perform an inspection, making certain that all hardware, electrical connections and printed circuit assemblies are secure.
- ✓ Do not reinstall the cover if the final installation is to be performed after the pre-installation checkout.



2.2.5. Equipment Checkout



Position the equipment with these points in mind:

- ✓ Intense direct sunlight can harm the display.
- ✓ Do not locate near magnetic material or equipment/Instruments which use magnets in their design.
- ✓ Avoid areas which have extreme variations in room temperatures. Temperatures outside the Instrument's specifications will affect the weighing accuracy of this product.
- ✓ Do not load the platform if there is any evidence of damage to the platform or supporting structure.

2.2.6. Users' Responsibility

- ✓ All electronic and mechanical calibrations and/or adjustments required for making this equipment perform to accuracy and operational specifications are part of the installation.
 - They 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.
- ✓ Absolutely no physical, electrical or program modifications other than selection of standard options and accessories are to be made to this equipment.
- ✓ The equipment consists of printed circuit assemblies which must be handled using ESD handling procedures, and must be replaced as units.
 - Replacement of individual components is not allowed.
 - The assemblies must be properly packaged in ESD protective material and returned intact for replacement credit per normal procedures.



Section 3: Scale Installation

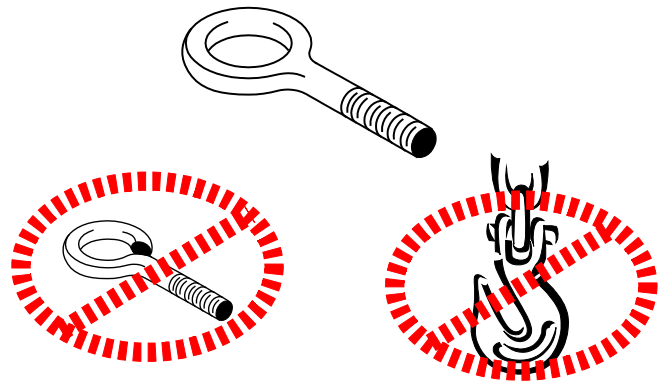
3.1. INSTALLING THE SCALE

1. Select a location that is flat, solid, level, and one that fully supports the weight of the platform plus a full capacity load.
2. Remove the top of the crate and all packing material.
3. Screw **two (2) eyebolts** into the threaded adapters in the platform top.
4. Use a forklift or other lifting means, along with chains, cables, or nylon straps to remove the scale from the crate bottom.

TWO TYPES of EYE BOLTS

✓ **Closed Gap Eyebolts**

- Open Gap Eyebolts (**NOT USED**)
- Lifting Hooks (**NOT USED**)



C A U T I O N

**DO NOT use hooks or unclosed eyebolts.
Failure to use proper lifting tools
may result in personal injury.**

5. Set the scale so that the interface cable exits in a direction where it can be protected.
 - If possible, use a cable protector to reduce 'trip' hazards and to protect the interface cable from being damaged.
6. Level the scale using a screwdriver to turn the threaded 'leg' of the foot assembly.

3.2. INSTALLATION, CONTINUED

7. Wire the scale cable to the proper type instrument, as shown in the chart below.
8. Once the scale platform is completely wired to the instrument, calibrate the unit.
 - ✓ Follow the appropriate instrument service manual to ensure a good calibration.

3.2.1. Platform Interface Cable Wiring

WIRE COLOR	FUNCTION
Black	(-) Excitation
Red	(+) Excitation
Yellow	Shield
Green	(+) Signal
White	(-)Signal

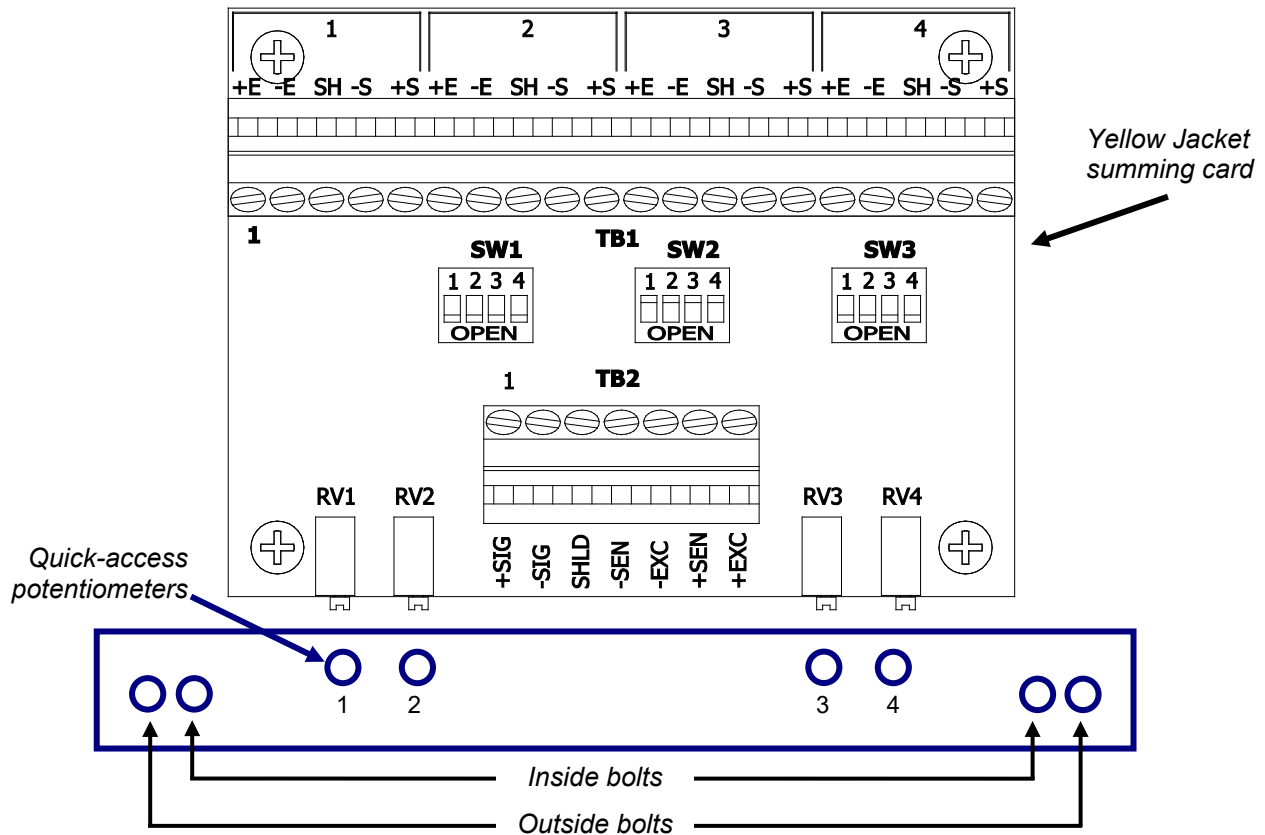
3.2.2. Calibration Steps

Adjust the analog interface instrument to the platform.

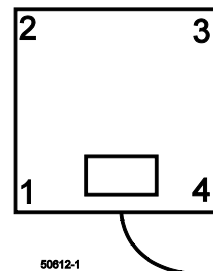
- Adjust all the corners to within **one (1) division of each other at 25% of rated capacity.**
- Follow the appropriate instrument service manual to ensure a proper calibration.

STEPS

1. Remove the two inside bolts on the side of the scale and remove access panel, exposing the quick-access potentiometers.
 - Total number of turns is **twenty**.



2. Identify the platform corner numbers.
3. Place a concentrated weight (**25%** of platform capacity) on corner #1, then move it to #2, #3 and #4, noting the displayed reading on each corner.



If corners **do** require adjustment, complete the following steps:

1. Remove the outside bolts on the quick access plate. This removes the J-box cover.
2. Safely lift scale on its end with forklift or heavy pry bar.
3. In order to adjust the potentiometers, the **DIP switches** are set as follows:
SW1 = OPEN SW2 = CLOSED SW3 = OPEN
The factory default settings have these switches set to bypass the potentiometers.
4. Center the four **Junction Box Potentiometers** by turning the adjustment screw **counter-clockwise position** until a clicking sound is heard, then turning each of them back **clock-wise ten (10) turns**.
5. Identify the lowest reading, and then place the concentrated weight on this corner.
6. Place the concentrated weight on the corner displaying the lowest weight.
7. Turn the adjustment on the potentiometer clockwise (CW) to the displayed weight so it reads the same as the highest reading.
8. Repeat this procedure while rechecking all corners until they are equal.

Important Note: *When moving the weight(s) from corner to corner, **DO NOT** zero the scale. The purpose is to adjust the corners to be the same, and not to perform a correct calibration.*

9. Perform a zero-reference check with an unloaded platform.
10. Repeat the corner test to ensure all readings are the same before proceeding.
11. Replace J-box cover with outside bolts, replace quick-access cover with inside bolts, and perform final calibration using the appropriate instrument's service manual.

If corners **do not** require adjustment, complete the following steps:

1. Remove all weights.
2. Zero the instrument.
3. Perform a final calibration with test weights.
4. Follow the appropriate instrument service manual to ensure a proper calibration.

Section 4: Installing Accessories

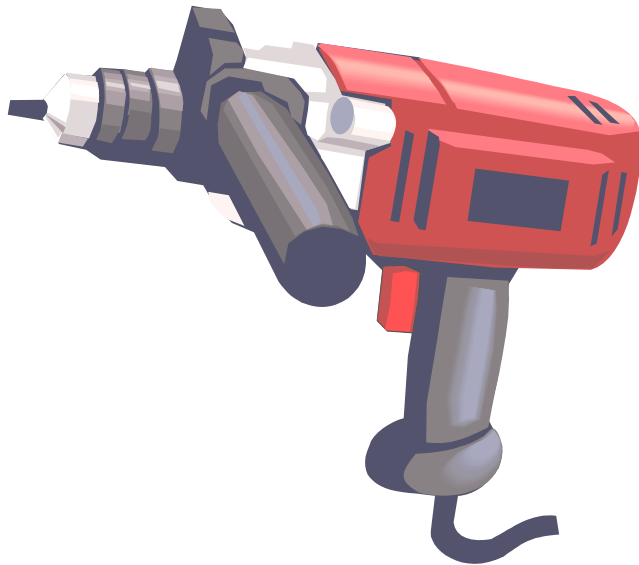
4.1. INSTALLING BOLT-DOWN PLATES

Bolt down plates are used to keep the scale from sliding or moving when loads are applied. The plates are bolted using anchors at each of the scale's feet.

STEPS

1. Place the platform into the correct position.
2. Place the bolt-down plate under the foot. The plate edge extends out from under the scale.
3. Drill **two (2) 7/16"** attachment holes using a hammer drill.
4. Insert anchors with the nut and washer already on them.
5. Tap the anchor into the hole, then tighten the nuts securely.
6. Repeat this process for each plate.

Note: *If ramps are **not** installed and bolt-down plates are needed, then a full set of four bolt-down plates is required.*



4.2. INSTALLING RAMPS

Each mild steel ramp accessory comes with two integral bolt-down plates and four anchors.

STEPS

1. Place the ramp in position, then lift and set the platform feet into the bolt-down plate holes.
2. Drill the **two (2) 7/16" holes** using a hammer drill. Insert the anchors with the nut and washer already on.
3. Tap the anchor into the hole, then tighten the nuts securely.

IMPORTANT TIPS

- If two ramps are installed, then no other bolt-down plates are needed.
- If only one ramp is installed, then a set of two bolt-down plates is necessary.
- Only two ramps (total) may be installed on opposite sides of a scale platform.

4.3. INSTALLING BUMPER GUARDS

Bumper Guards help protect the platform from direct hits from forklift traffic. The guards are slightly higher than the scale and help deflect the forks.

STEPS

1. Place the bumper guard into a position so it protects the platform from non-scale traffic.
 - Place the bumper guard so it does not touch or interfere with the platform's movement.
2. Drill the 7/16" fastening holes using a hammer drill.
3. Insert the anchors with the nut and washer already on it.
4. Tap the anchor into the hole.
5. Tighten the nuts securely.

Section 5: Parts Replacement

5.1. LOAD CELL REPLACEMENT STEPS

1. Cycle-down the power to the instrument, and then unplug the unit.
2. Remove potentiometer cover.
3. Lift the platform end with a forklift or heavy pry bar, using wood blocks for safety.
4. Remove J-box cover.
5. Disconnect the failed load cell cable(s) at the junction box.
6. Loosen the gland bushing and tie a string or wire to the end of the cable to act as a pull wire.
7. Place wire markers on the cable ends.
8. Masking tape is an effective alternative
9. Disconnect the faulty load cells wires from the terminal block.
10. Remove the load cell mounting bolts with a **3/4" socket**.
11. Remove the load cell, pulling the cable through the scale while leaving the pull string/wire in the scale.
12. Remove the foot assembly from the old cell, then install it onto the new load cell.
 - Use anti-seize on the threads.
13. Disconnect the pull string/wire from the old cell's cable, then attach to the new cell's cable end.
14. Pull the cable from the new cell through to the junction box.
15. Mount the cell to the scale platform.
 - Torque it to **90 ft/lbs**, using anti-seize on the mounting bolts.
16. Connect the load cell wires into the junction box, then tighten the box gland bushing(s).
17. Lower the scale to the surface removing the safety blocks.
18. Distribute the scale's weight evenly by all four (4) feet.
19. Recalibrate the unit as necessary.

5.1. Load Cell Replacement Steps, Continued

IMPORTANT NOTE: See [Appendix I](#) for specific load cell color code and wiring information.

5.1.1. Load Cell Specifications

DESCRIPTION	SPECIFICATION
Material	Mild Steel
Rated Output	3mV/V
Impedance	350 ohm
Safe Overload	150%
Compensated Temperature Range	-10° C to 40° C
Safe Operating Temperature Range	-10° C to 40° C

5.2. JUNCTION BOX REPLACEMENT STEPS

1. Remove power to the instrument.
2. Open the platform access cover, then the junction box cover.
3. Loosen all gland bushing nuts.
4. Place wire markers on all the load cell cable ends.
5. Disconnect the load cells' wires from the terminal blocks.
6. Disconnect the homerun wires.
7. Remove the PCB, clean the junction box, then install the new PCB.
8. Reconnect all load cell and home-run wires to the new PCB.
9. Tighten all gland bushing nuts.
10. Replace the junction box cover, and torque all screws to **18-20 in/lbs.**
11. Recalibrate the unit as necessary, including corner adjustments.
12. Replace the platform access cover.

5.3. FOOT ASSEMBLY REPLACEMENT STEPS

1. Lift the platform end with a forklift or heavy pry bar using wood blocks for safety.
2. Using a standard screwdriver, unscrew the foot assembly.
3. Replace the Foot Assembly, using anti-seize on the screws attaching to the load cell.
4. Lower the scale to the surface removing the safety blocks.
5. Distribute the scale's weight evenly by all four (4) feet.

Section 6: Parts

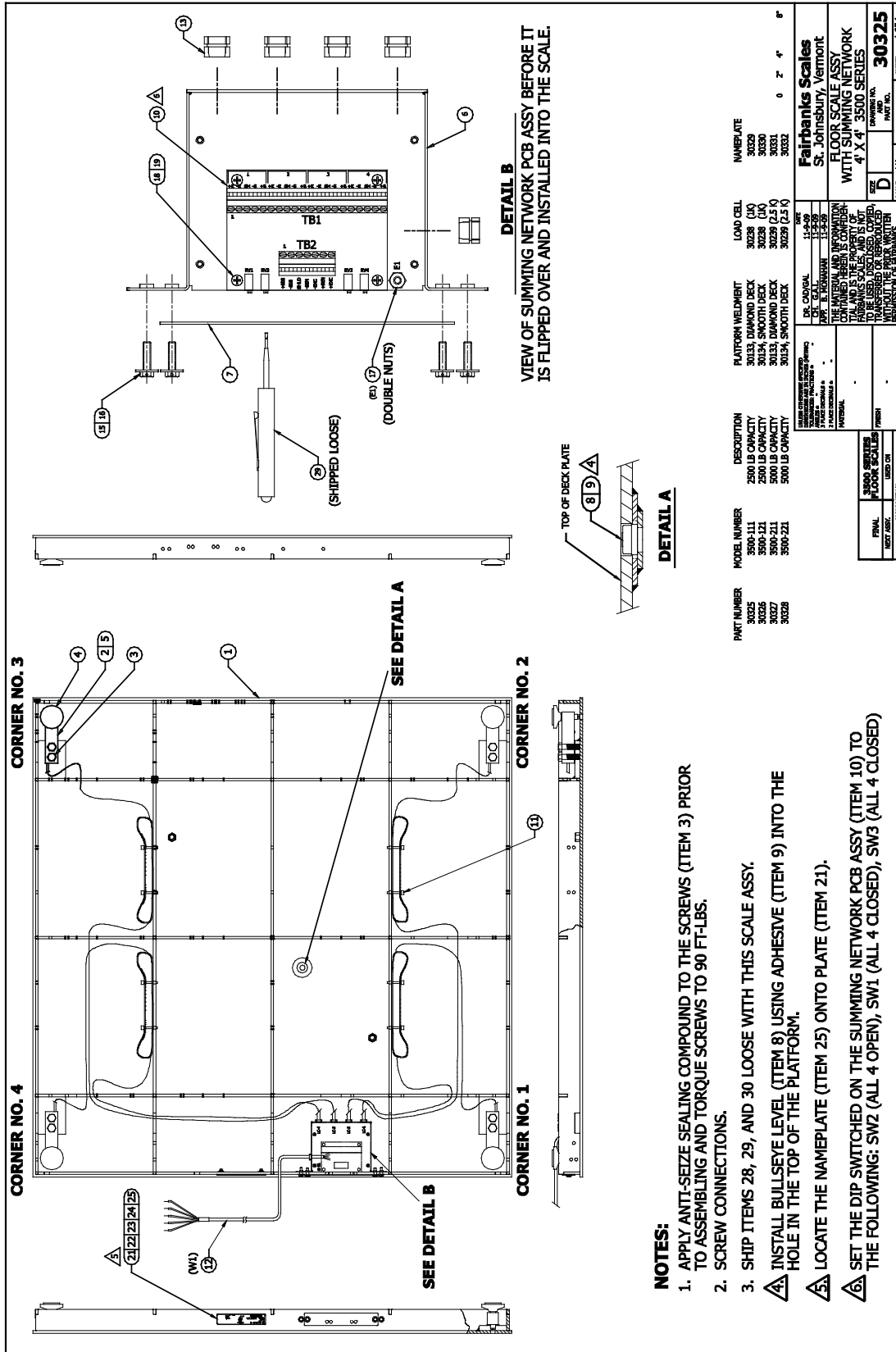
6.1. PARTS LIST

ITEM	PART NO.	DESCRIPTION	SCALE CAPACITIES
1	SEE APPENDIX	PLATFORM WELDMENT	SEE APPENDIX II
2	SEE APPENDIX	LOAD CELL	SEE APPENDIX I
3	54502	SCREW, CAP, HEX HD .50-20 X 1.75	ALL
4	63913	FOOT	ALL
5	66754	SPACER PLATE, LOAD CELL SST	ALL
6	30139	BOX, JUNCTION	ALL
7	30249	PLATE, COVER	ALL
8	11039	BULLSEYE LEVEL	ALL
9	15389	ADHESIVE	ALL
10**	30053	PCB ASSY, SUMMING NETWORK	ALL
11	17814	TIE, WIRE	ALL
12	12838	CABLE ASSY (30 FT. LONG)	ALL
13	11020	BUSHING, STRAIN RELIEF	ALL
14	--		ALL
15	14828	SCREW, SEALING SST 10-32 X .75	
16	11119	WASHER, PLAIN, FLAT SST NO. 10	ALL
17	11103	NUT, HEX SST	
18	11146	SCREW, MACH, PH, PHIL SST 6-32 X .38	ALL
19	11191	WASHER, LOCK, EXT. TOOTH SST NO. 6	
20	--		ALL
21	30251	PLATE, NAMEPLATE	
22	10106	NUT, HEX 10-32	ALL
23	10311	WASHER, PLAIN FLAT NO. 10	
24	11926	ADHESIVE (PERMANENT TYPE)	ALL
25	SEE TAB	NAMEPLATE	
28	12189	SEAL WIRE	ALL
29	28498	SCREWDRIVER	
30	51233	MANUAL CD (26461)	ALL

*See **Appendix I** for Load Cell wiring information.

** Product numbers 30155, 30156, 30215 and 30216 are not equipped with a summing network pcb..

6.2. PARTS DIAGRAM



NOTES:

- 1. APPLY ANTI-SEIZE SEALING COMPOUND TO THE SCREWS (ITEM 3) PRIOR TO ASSEMBLING AND TORQUE SCREWS TO 90 FT-LBS.
- 2. SCREW CONNECTIONS.
- 3. SHIP ITEMS 28, 29, AND 30 LOOSE WITH THIS SCALE ASSY.
- 4. INSTALL BULLSEYE LEVEL (ITEM 8) USING ADHESIVE (ITEM 9) INTO THE HOLE IN THE TOP OF THE PLATFORM.
- 5. LOCATE THE NAMEPLATE (ITEM 25) ONTO PLATE (ITEM 21).
- 6. SET THE DIP SWITCHED ON THE SUMMING NETWORK PCB ASSY (ITEM 10) TO THE FOLLOWING: SW2 (ALL 4 OPEN), SW1 (ALL 4 CLOSED), SW3 (ALL 4 CLOSED)

MODEL NUMBER	DESCRIPTION	PLATFORM WELDMENT	LOAD CELL	NAMEPLATE
3500-111	2500 LB CAPACITY	3013, DIAMOND DECK	3028 (1X)	3029
3500-121	2500 LB CAPACITY	3013, SMOOTH DECK	3028 (1X)	3030
3500-211	5000 LB CAPACITY	3013, DIAMOND DECK	3029 (2.5 K)	3031
3500-221	5000 LB CAPACITY	3013, SMOOTH DECK	3029 (2.5 K)	3032

PART NUMBER 3025 3026 3027 3028	DESCRIPTION 2500 LB CAPACITY 2500 LB CAPACITY 5000 LB CAPACITY 5000 LB CAPACITY	PLATFORM WELDMENT 3013, DIAMOND DECK 3013, SMOOTH DECK 3013, DIAMOND DECK 3013, SMOOTH DECK	LOAD CELL 3028 (1X) 3028 (1X) 3029 (2.5 K) 3029 (2.5 K)	NAMEPLATE 3029 3030 3031 3032
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MODEL NUMBER 3500-111 3500-121 3500-211 3500-221	DESCRIPTION 2500 LB CAPACITY 2500 LB CAPACITY 5000 LB CAPACITY 5000 LB CAPACITY	PLATFORM WELDMENT 3013, DIAMOND DECK 3013, SMOOTH DECK 3013, DIAMOND DECK 3013, SMOOTH DECK	LOAD CELL 3028 (1X) 3028 (1X) 3029 (2.5 K) 3029 (2.5 K)	NAMEPLATE 3029 3030 3031 3032
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PART NUMBER 3025 3026 3027 3028	DESCRIPTION 2500 LB CAPACITY 2500 LB CAPACITY 5000 LB CAPACITY 5000 LB CAPACITY	PLATFORM WELDMENT 3013, DIAMOND DECK 3013, SMOOTH DECK 3013, DIAMOND DECK 3013, SMOOTH DECK	LOAD CELL 3028 (1X) 3028 (1X) 3029 (2.5 K) 3029 (2.5 K)	NAMEPLATE 3029 3030 3031 3032
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6.3. ACCESSORIES

6.3.1. Ramps and Bumper Guards

SIZE	CAPACITY	RAMP	BUMPER GUARD
4' x 30"	2,500 lbs	30256 safety tread	30639
4' x 30"	2,500 lbs	30257 smooth tread	30639
4' x 30"	5,000 lbs	30256 safety tread	30639
4' x 30"	5,000 lbs	30257 smooth tread	30639

6.3.2. Bolt-down Plates, Eyebolts and Hole Plugs

SIZE	CAPACITY	BOLT-DOWN PLATES	EYEBOLTS	EYEBOLT PLUG
ALL	ALL	63777 (Set of 4)	70895 (2)	70896 (2)
		63779 (Set of 2)		

Appendix I: Load Cells

Due to product obsolescence, the Yellow Jacket load cells have been updated to a different load cell manufacturer; however, the load cells are interchangeable with the original and replacement load cells.

Original Load Cells

ITEM	PART NO.	DESCRIPTION	SCALE CAPACITY
2	30238	1K lb Capacity Load Cell 350 Ohm, 3 mV/V, Plated Tool Steel	2.5k
2	30239	2.5K lb Capacity Load Cell 350 Ohm, 3 mV/V, Plated Tool Steel	5k

Replacement Load Cells

ITEM	PART NO.	DESCRIPTION	SCALE CAPACITY
2	58925	1K lb Capacity Load Cell 350 Ohm, 3 mV/V, Plated Tool Steel	2.5k
2	12896	2.5K lb Capacity Load Cell 350 Ohm, 3 mV/V, Plated Tool Steel	5k

WIRE COLOR	FUNCTION
Black	(-) Excitation
Red	(+) Excitation
Yellow	Shield
Green	(+) Signal
White	(-)Signal

Appendix II: Specifications

PRODUCT NO.	SIZE	CAPACITY	PLATFORM WELDMENT	DECK
30155	4' x 4'	2,500 lbs	30133	Diamond
30156	4' x 4'	2,500 lbs	30134	Smooth
30215	4' x 4'	5,000 lbs	30133	Diamond
30216	4' x 4'	5,000 lbs	30134	Smooth
30325	4' x 4'	2,500 lbs	30133	Diamond
30326	4' x 4'	2,500 lbs	30134	Smooth
30327	4' x 4'	5,000 lbs	30133	Diamond
30328	4' x 4'	5,000 lbs	30134	Smooth

Device	Approvals
Platform	NTEP CC# 10-008
Load Cell (Original)	NTEP CC# 06-079, Factory Mutual
Load Cell (Replacement)	NTEP CC# 95-172, Factory Mutual



Manufactured by Fairbanks Scales Inc.

www.fairbanks.com

3500 Series Floor Scale

INSTALLATION MANUAL

DOCUMENT 51233