FAIRBANKS
SCALES

Pallet Weigh

4000 SERIES
PALLET JACK SCALE

51285 Revision 1
05/12

Amendment Record

PALLET WEIGH

DOCUMENT 51285

Manufactured by Fairbanks Scales Inc.

821 Locust

Kansas City, Missouri 64106

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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

1.1. DESCRIPTION

The **Pallet Weigh™ Pallet Jack Scale** is a Non-NTEP scale designed for determining pallet shipping weights, checking pallet weights on incoming goods, and helps prevent overloading of trailers. Some of the primary features include the following:

- It includes an easy to read LCD display

- A capacity of 5000 pounds.

- Battery operation (4-AA batteries).

- Totalizing with a sequential number

- Automatic Power Saving feature after 3 minutes of no scale activity.

1.2. TECHNICAL SPECIFICATIONS

Models	Product No. 32154 [Model 4003] Product No. 32097 [Model 4005]
Capacity	[Model 4003] 3000 lbs [Model 4005] 5000 lbs
Resolution	[Model 4003] 1.0 lbs [Model 4005] 2.0 lbs
Power Supply	6 Vdc (4 AA batteries)
Battery Life	Up to 1 year @ 5 weighments /day
Display	LCD 0.7" height
Keypad	Three (3) function keys and an On/Off key
Steering Wheels	Polyurethane
Loading Wheels	Polyurethane, Single
Pallet Truck Weight	Approximately 270 lbs
Color	Yellow epoxy
Pump	Quick Lift
Environment	
Ratings	**Indicator:** NEMA 4 **Load cells and cabling:** NEMA 5
Operating Temperature	-10˚C (15˚F) to +40˚C (105˚F)
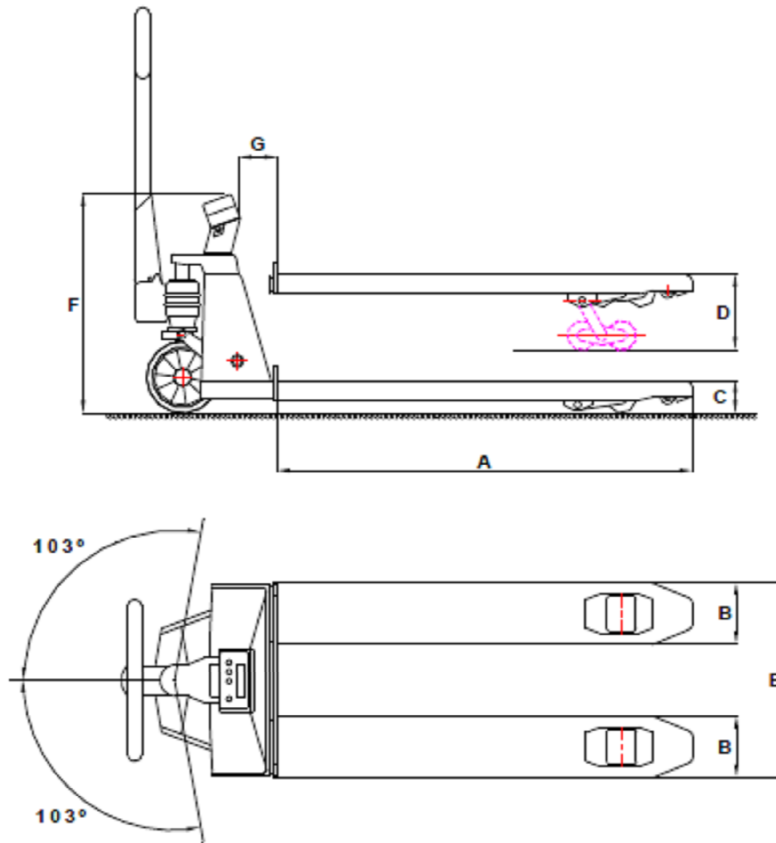
Figure 1-1

Dimensions		
A	Fork Length	47.5 inches
B	Fork Width	6.7 inches
C	Minimum Fork Height	3.25 inches
D	Maximum Fork Height	8 inches
E	Width over Forks	27 inches
F	Height to Top of Indicator	20 inches
G	Indicator Clearance	3 inches

Section 2: General Policies

2.1. CUSTOMER RESPONSIBILITY

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 by customers to this equipment

Repairs are to be performed by Fairbanks Scales Service Technicians or Authorized Distributor Personnel ONLY!

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

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★ ★ IMPORTANT NOTICE ★ ★

Electric arc welding can severely damage scale components such as digital weight indicators, junction boxes, power supplies, and load cells.

NOTE: *For additional information, please contact a* **Fairbanks Scales Service Representative.**

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

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.

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

2.1.1. 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.

2.1.2. Equipment Location

Position the equipment with these points in mind:

- Intense direct sunlight can harm the display.

- Work areas should be relatively free from drafts and vibrations.

- 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.

2.1.3. Safety

1. **NEVER** lift a heavy load with just the points of the forks. This could damage the electronic weighing elements permanently.

2. **NEVER** weigh without a pallet. This could affect the accuracy of the weighing result.

3. The unit may be loaded with weights up to 5000 lb. However, we advise you not to **move** any weights above 1650 lb. (750 kg) with the unit. Fairbanks Scales is not responsible for injury that may result when moving heavy loads.

4. Use caution in the vicinity of moving parts - these parts can cut and/or crush hands, arms, feet and legs.

5. Always center the load you are lifting on both of the forks.

6. Do not operate the weighing system on ramps, inclines, or declines, without the addition of our optional parking brake.

7. Do not operate the weighing system while others are on or near the unit.
   No riding!

8. All modifications must be approved in writing from the supplier, prior to any work being completed.

9. It is the sole responsibility of the purchaser to train their own employees in the proper use and maintenance of this equipment.

10. Do not operate this unit unless you have been fully trained of its capabilities.
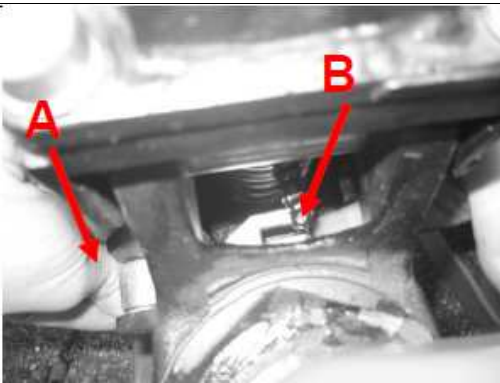
11. Do not use the weighing system in potentially explosive areas.

12. Do not carry passengers with the truck.

13. Do not weld or make changes to the weighing system without consulting the Fairbanks Scales.

14. Do not lift unstable loads.

15. Check the accuracy of the scale on a regular basis to prevent faulty readings.

16. Only trained and authorized personnel are allowed to operate the truck.

17. Always follow the operating, maintenance and repair instructions of this truck and ask the supplier when in doubt.

18. Never lower loads if you are unsure you can place the goods on a stable surface. Personal injury may result from placement on an unstable environment.

19. Always remain with the scale during dosing applications. Incorrect lifting of the pallet can cause overflowing.

20. Fairbanks Scales is not responsible for errors that occur due to incorrect weighing or inaccurate scales.

Section 3: Installation

3.1. SYSTEM SET UP

Installation of pump handle	
Make sure the lever is pushed down to the "pump" position.	Thread the chain through the hole in the triangle and through the hole in the axle.
Place the handle bar onto the triangle and insert the bolts. Tighten the bolts firmly.	Push the silver part "A" on the outside of the pump downwards. At the same time; insert the chain into the open side of the slot "B" on the inside of the pump.

3.2. INSTALLING THE BATTERIES

The power supply to the system takes place through 4 AA batteries. When used normally, the batteries will last for about 1 year. When the voltage level of the batteries is running low, the display will show "**LO-BA**". When the batteries are completely discharged, the weighing system shuts down.

To install/ replace the batteries:

Remove the screws and then the indicator cover

Remove the battery holder

Remove the batteries from the holder

Place the new batteries in the battery holder

Click the battery holder back into place

Screw the indicator cover back onto the indicator

Section 4: Operation

4.1. PROPER OPERATION

The following describes the proper manner of operating the Pallet Weigh pallet jack scale.

- ✓ *For accurate weights, do not weigh on a grade greater than 2 degrees.*

- ✓ *Use the pallet jack scale on a smooth surface. Irregular surfaces may cause damage the scale and inaccurate weights.*

- ✓ *Do not load the scale greater than the rated capacity otherwise the scale can be damaged.*

- ✓ *Do not lift loads by the end of the forks only as this could damage the scale weighing mechanisms.*

4.2. FRONT PANEL LAYOUT
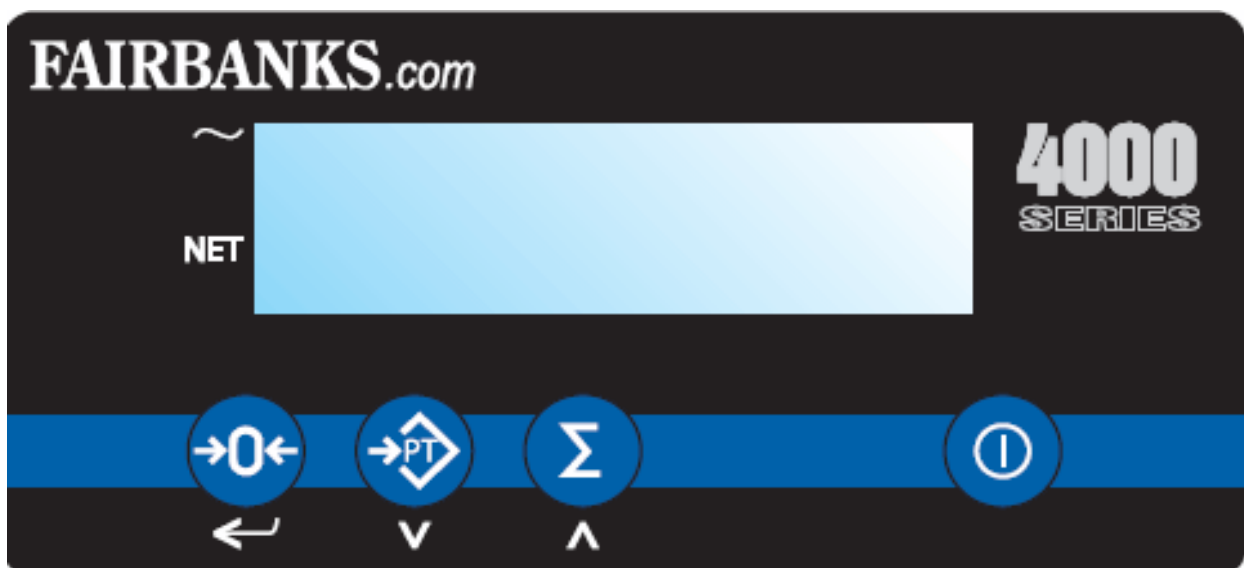
4.3. FRONT KEYS AND INDICATIONS

Key	Function
	On/ Off Power Switch. This also serves as an escape switch during data entry or programming. This key also functions as a Units key if pressed for two (2) seconds.
	Zero Key. Zeroes the scale. This key also functions as a Select Digit key and allows the user to select the flashing digit.
	Tare Switch. Allows a manual entry of a tare weight. This key also functions as a Scroll Down key.
	Summation Button. Allows summing of multiple weighments. This key also functions as a Scroll Up key.
Indication	**Function**
	Stable/Motion: Indicates the scale weight is stable. The annunciator is off when motion is present.
	Net Mode: The scale is in the Net Mode. The scale is in the Gross Mode when the annunciator is off.

4.4. OPERATING THE SCALE

4.4.1. Power-Up the Scale

1. Press the [icon] key for two (2) seconds.

2. The display will indicate a power up cycle: All segments on / software revision [P7.5]/ audit trail nr.[xxxxx]

3. After the power-up cycle, the scale display will display the weight that is present on the scale.

4.4.2. Zeroing the Scale

1. If the scale does not indicate a zero, press the [icon] key to zero the scale.

2. The scale will indicate zero and is ready to perform weighments.

4.4.3. Select Units

1. Press the [icon] key to change the Units from lbs to kgs.

2. This feature is configuration selectable.

4.4.4. Manual Tare Entry

1. Pressing the [icon] key will store the Gross weight on the scale.

2. The digit on the right hand side of the display will begin blinking.

3. Pressing the [icon] key will scroll the digit numeric value down or press the [icon] key to increase the numeric value.

4. Upon entering the value required, press the [icon] key up to 5 times to save the value entered and exit the manual tare entry mode. The Net indication should have an chevron next to it indicating the scale is in the Net mode.

4.4.5. Summation Operation

Summing Loads

1. Load the scale.

2. Press the [Σ] key to begin the summation operation.

3. The display will begin flashing a memory number, --01-, and store the weight.

4. Unload the scale.

5. Load the scale again.

6. Press the [Σ] key to add the weight to the first weighment.

7. The display will begin flashing a memory number, --02-, and store the new weight and indicate the summed weight on the display.

8. Repeat the process until the summation of loads is complete.

View Summation Total

1. Press and hold the [Σ] key for three (3) seconds.

2. The display will flash the last memory number used, i.e. –02-, and display the Total weight summed together. The instrument will return to normal weighing after approximately five (5) seconds.

Summation Total Reset/ Clear

1. Press and hold the [Σ] key for three (3) seconds.

2. The display will flash the last memory number used, i.e. –02-, and display the Total weight summed together.

3. Press the [Σ] key again.

4. The display will flash, –00-, and display 00.

5. All summed registers are reset to zero (0) and cleared.

Section 5: Service and Maintenance

5.1. CLEANING

- Wipe the scale assembly with a damp cloth using water *only*.
- ― **Do not** spray cleaners onto scale indicator.
- ― **Do not** wash-down with a pressure cleaner or water hose.
- ― **Do not** allow water or liquids to drip onto scale indicator.

5.2. ERROR MESSAGES

Error	Description	Solution
HELP 1	Weight exceeds scale capacity	Remove weight from scale.
HELP 2	Scale is Overloaded.	Remove weight from scale. If no weight is on scale contact Fairbanks Service.
HELP 3 or 7	Load cell signal is too low or too high.	Contact Fairbanks Service.
HELP 4	Out of Zero range.	Zero calibration required.
~	Weight is unstable.	Stabilize the weight on the scale. Excessive vibration on floor.
LobA	Battery voltage is low.	Replace 4-AA batteries.

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