INSTRUCTION MANUAL

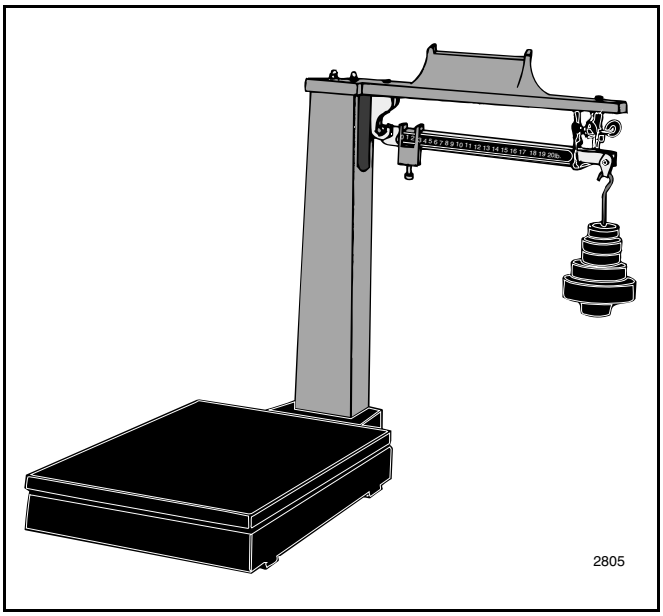
FAIRBANKS SCALES

SCALE STORE

General Industrial Scale
Bench Beam, BPB Series

SJ4751 / Issue #1

PRINTED IN U.S. 8/97



Introduction

The Scale Store BPB Series of Bench Beam Scales are built to last for years. They are virtually maintenance free even in hostile environments. The rugged, heavy duty construction helps prevent tipping when weighing top-heavy or unbalanced items, virtually eliminates deflection, and offers superior scale stability.

Always simple to operate, the Scale Store BPB Series has large, easy-to-read numbers on the front and back of its brass beam for accurate readings.

This scale is intended for use in non-commercial applications and is not legal-for-trade.

Description

- Durable cast iron lever system
- Strong 12' x 16' x 4'H cast iron platform
- Heavy duty cast iron base
- Contemporary styled pillar
- Coordinated gray and black finish
- Large engraved double sided viewing brass beam

Capacities

Scale Capacities

BPB120	120 lb x 1 oz
BPB240	240 lb x 2 oz
BPB360	360 lb x 4 oz

Beam Capacities

BPB120	5 lb x 1 oz
BPB240	10 lb x 2 oz
BPB360	20 lb x 4 oz

Platform Size

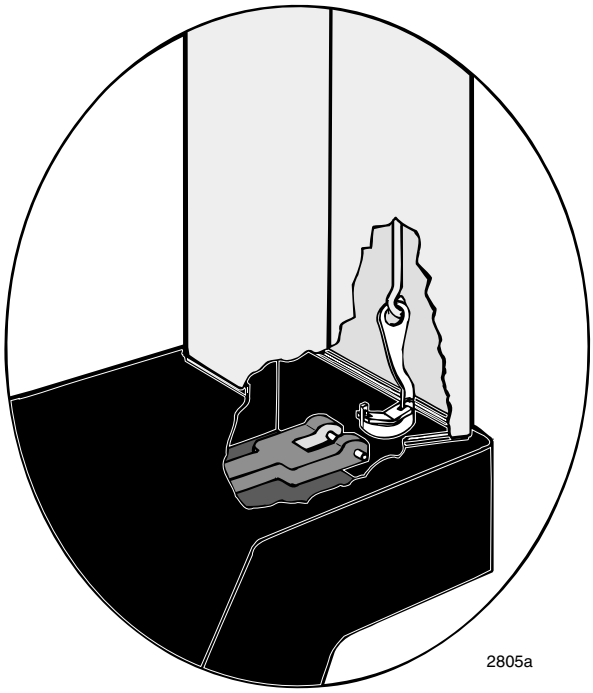
12'W x 16'D x 4'H

Shipping Weight

60 lb (UPS shippable)

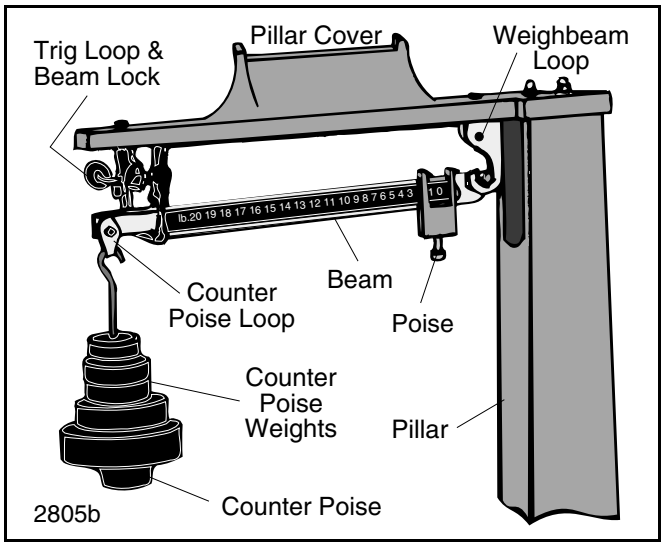
Assembly

1. Remove the platform and all of the parts from the shipping carton.
2. Place the platform on a bench.
3. Locate the two pillar rods and screw them into the two tapped holes in the pillar end of the platform. Screw the pillar rods 4 or 5 turns into the holes.
4. Place the pillar down over the pillar rods, with the cut-outs to the sides.
5. Hook the large hook on the steelyard into the pivot at the end of the long lever in the platform. Temporarily hook the small hook over the side of the pillar. This operation can best be accomplished if the pillar end of the platform is positioned over the edge of the bench. This will allow access to the under side of the platform to attach the large hook.



6. Place the pillar cover on top of the pillar, with the pillar rods extending through the holes in the cover. THE COVER CAN BE INSTALLED SO IT EXTENDS TO THE RIGHT OR THE LEFT.

7. Place the acorn nuts on the pillar rods and tighten. The acorn nuts will bottom out and then turn the pillar rods into the platform casting, pulling the whole assembly together.



8. Attach the weight beam loop to the pillar cover near the pillar. The loop is held in place with one 3⁄8 inch bolt and a nut. The loop opening should face away from the pillar. Tighten the bolt into the nut.

9. Place the steelyard loop on the end of the weighbeam assembly.

10. Slide the weighbeam assembly into the opening on the side of the pillar, so that the steelyard hook can hook into the steelyard loop.

11. With the steelyard hook in the steelyard loop, slide the whole assembly out of the pillar and up, so the weighbeam fulcrum slides into the weighbeam loop.

12. Slide the trig loop and beam lock assembly onto the end of the weighbeam, with the beam lock handle on the platform side of the pillar cover.

13. Install the 3⁄8 inch bolt through the pillar cover into the trig loop assemble. The hole in the trig loop is tapped, so no nut is required.

14. Tighten the bolt, keeping the trig loop aligned with the weighbeam.

15. Hang the counter poise on the counter poise loop at the end of the weighbeam.

16. Place the counter weights on the counter weight holder on top of the pillar cover.

Zero Adjustment

The "ZERO ADJUSTMENT" assembly is located on the top of the weighbeam, inside the pillar. A lead screw, on top of the weighbeam is visible when looking into the pillar from the side opposite the weighbeam. Turning this lead screw moves a weight along the top of the weighbeam. The scale is "ZEROED" when the weighbeam is centered in the trig loop and beam lock assembly. To "zero" the scale:

1. Release the beam lock by rotating the beam lock handle to the horizontal position.

2. Wait for the beam to stop moving.

3. Turn the lead screw, located inside the pillar one or two turns. Let the beam come to rest. If it is centered in the trig loop, the adjustment is complete. If it is not centered, turn the lead screw one or two more turns. Repeat this process until the beam is centered in the trig loop.

Operations

For weights less than 20 pounds:

1. Lock the weighbeam in place by turning the locking handle on the trig loop to the UP position.

2. Place an object on the platform that weighs less than 20 pounds.

3. GENTLY release the weighbeam lock by rotating the handle to the horizontal position.

4. Slide the poise out along the weighbeam until the weighbeam is centered in the trig loop. When the weighbeam is centered in the trig loop, read the weight at the red pointer in the poise.

For weight over 20 pounds:

1. Lock the weighbeam in place by turning the locking handle on the trig loop to the UP position.

2. Place an object on the platform that weighs more than 20 pounds.

3. GENTLY release the weighbeam lock by rotating the handle to the horizontal position.

4. Slide the poise all the way to the end of the weighbeam. The weighbeam will stay at the top of the trig loop.

5. Place the smallest counter weight on the counter poise.

   a. If the weighbeam falls to the bottom of the trig loop, slide the poise back toward the pillar until the beam balances.

b. If the weighbeam stays at the top of the trig loop, add another weight to the counter poise. Keep adding weights until the weighbeam falls to the bottom of the trig loop.

6. To read the weight of the object on the platform, read the weight shown by the red pointer on the poise. Add to this the lb value found on each of the counter poise weights. For example, if the poise reads 19 pounds and there is a 120lb weight on the counter poise, the total weight is 139 pounds. With capacity on the platform, 360 pounds, all five counter weights will be on the counter poise and the poise will be at 20 pounds. Add the values of the counter weights plus the 20 on the weighbeam and the total will be 360.

Parts Lists

A. Major Parts

Key #	Part #	Description
1	BPB-ALL-1	Rod/Pillar
2	BPB-ALL-2	Pillar
3	BPB-ALL-3	Cover Assy/Platform
4	BPB-ALL-4	Frame
6	BPB-ALL-6	Bearing
10	BPB-ALL-10	Pin/Corner Loop
24	BPB-ALL-24	Pivot
25	BPB-ALL-25	Lever Assembly/Short
30	BPB-ALL-30	Lower Pivot
32	BPB-ALL-32	Upper Brg/Center Connection
33	BPB-ALL-33	Lever Assembly/Long
34	BPB-ALL-34	Pivot
35	BPB-ALL-35	Steelyard Rod Assembly
36	BPB-ALL-36	Beam Load Loop
40	BPB-ALL-40	Beam Hanger Assembly
43	BPB-ALL-43	Trig Loop/Beam Locking Assembly
44	BPB-ALL-44	Acorn Nuts
45	BPB-ALL-45	Beam Cap
49	BPB-120-49	Beam Assembly/5 lb x 1 oz
50	BPB-240-50	Beam Assembly/10 lb x 2 oz
51	BPB-360-51	Beam assembly/20 lb x 4 oz
53	BPB-120-53	Counterpoise Assembly
54	BPB-240360-54	Counterpoise Assembly
55	BPB-ALL-55	Weight/5 lb
56	BPB-ALL-56	Weight/10 lb
57	BPB-ALL-57	Weight/20 lb
58	BPB-ALL-58	Weight/60 lb
59	BPB-ALL-59	Weight/120 lb
61	BPB-ALL-61	Pin/Uplift Check

B. Counter Weights

BPB120		BPB240		BPB360	
Qty	Size	Qty	Size	Qty	Size
1	60 lb	1	120 lb	2	120 lb
2	20 lb	2	20 lb	1	60 lb
1	10 lb	1	60 lb	2	20 lb
1	5 lb	1	10 lb		

Exploded View