Installation Manual

Portable Platform Scale

Models: 1124, 1124-1 and 1124-5

50595
Revision. 14 04/25

Amendment Record

Portable Platform Scale

1124, 1124-1 and 1124-5

Document 50595

Manufactured by Fairbanks Scales Inc.

Revision #	Date	Upate
Issue #1	06/1988	Released document
Issue #2	05/2001	Updated assembly instructions and part numbers
Issue #3	11/2009	Revised Assembly Instructions
Revision 4	08/2010	Add information for item 46 in parts lists
Revision 5	03/2011	Revised Parts list
Revision 6	03/2013	Revised Parts list
Revision 7	09/2015	Changed part #96853 to 95853
Revision 8	05/2018	Revised Parts list
Revision 9	02/2019	Revised Parts list; Added Digital Utility Kits
Revision 10	04/2019	Updated model 1124 (no beam)
Revision 11	08/2019	Revised Parts list
Revision 12	10/2019	Revised Parts list
Revision 13	08/2024	Updated: All Sections
Revision 14	04/2025	Updated: Parts

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Table of Contents

Section 1: General Information

1.1. Introduction

This manual provides information on installation, adjustment, and parts list for models 1124, 1124-1 and 1124-5 for portable platform scales. Please read carefully while assembling the scale. The scale is factory calibrated and supplied ready to be assembled and placed into service. For commercial applications, scale must be installed by a certified scale technician.

NOTE: *Adjustments to the weighing accuracy should only be made by trained scale personnel. No modifications are to be made to this equipment.*

Upon receipt, ensure that no shipping damage has occurred. Damage to the shipping carton must be noted by the receiving party and made known to the shipper. Claims for shipping damage are made by the receiving party to the shipper.

It is the customer's/owner's responsibility to maintain the scale in good operating condition and to protect the scale from accidental damage.

1.1.1. Description

The 1124, 1124-1 and 1124-5 portable platform scales are constructed with cast iron bases and cast-iron lever systems. The indicating devices are a mechanical beam (in lbs. or kgs.) or, with accessories, an electronic instrument for displaying the weight.

NOTE: *The 1124's shipping weight is approximately 185 lbs.* ***PLEASE USE CAUTION TO PREVENT INJURY, AND OR DAMAGE TO THE PRODUCT****.*

1.1.2. Models and Accessories

Model #	Ref #	Description	Shpg Wt
55652	1124	18" x 24" Port platform, 1000 lb. cap, lbs. beam indicator	185 lbs.
55653	1124-1	18" x 24" Port platform 500 kg cap, kg. beam indicator	185 lbs.
184054	1124-5	18” x 24” Port platform 500 lb. cap, lbs. beam indicator	185 lbs.

Section 2: Installation

2.1. Unpacking

First, remove the packing slip from the plastic pocket on the box. Open the box, then carefully unpack the contents. Retain the packaging in case the scale needs to be returned for repair or maintenance.

Please remember that the scale's frame weighs over 100 pounds. Use proper lifting techniques and seek assistance to prevent injury.

Place the Frame Assembly upside down on the floor. Inspect the components for any damage that may have occurred during shipping and verify the under-structure of the Frame is fully assembled with all levers in their proper positions.

Figure 1: Frame assembly removed from packaging

NOTE: It is recommended to use two people when removing from packing and placing on its wheels.

Refer to the parts list to ensure all parts are enclosed. The following should be included:

- ☐ 1 Frame Assembly
- ☐ 1 Pillar
- ☐ 2 Pillar Rods
- ☐ 1 Steel Yard Rod Assembly with a Swivel Hook on one end
- ☐ 2 Axles
- ☐ 1 Beam Cap
- ☐ 1 Beam Support
- ☐ 1 Beam Assembly
- ☐ 1 Beam Lock Assembly
- ☐ 1 Counter Poise Stem Assembly
- ☐ 4 Weights
- ☐ 4 Wheels
- ☐ 4 Larger Washers
- ☐ 2 Acorn Nuts
- ☐ 2 Smaller Washers
- ☐ 2 Larger Hex Bolts
- ☐ 4 Cotter Pins
- ☐ 4 Smaller Hex Bolts

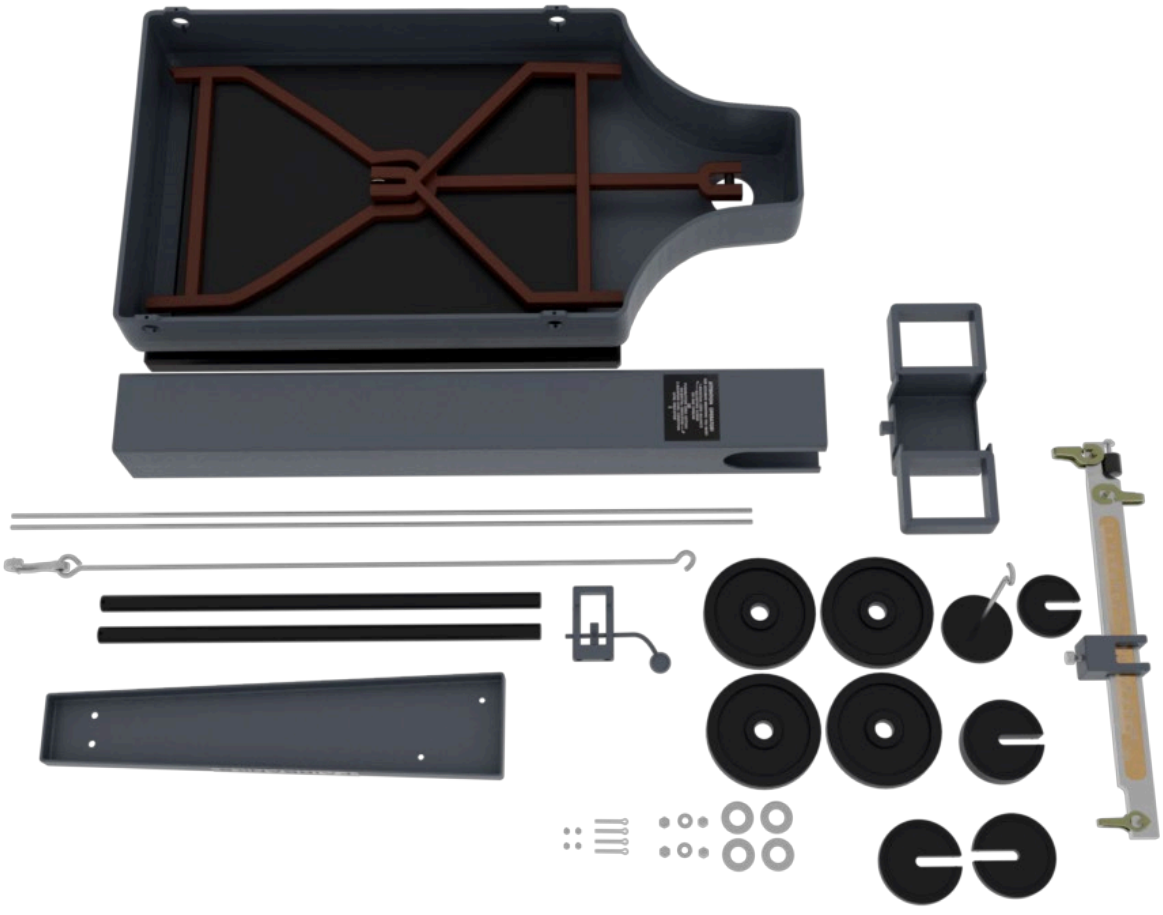


Figure 2: Portable Platform scale parts

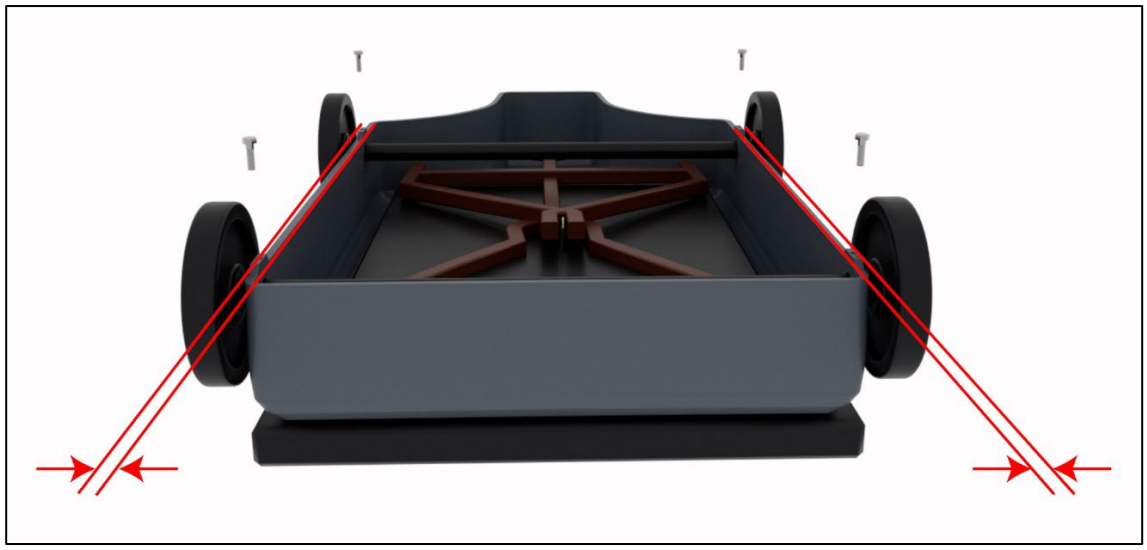
2.2. Assembly

The following tools are recommended to complete the assembly:

- ☐ Needle Nose Pliers
- ☐ Adjustable Wrench
- ☐ Gloves
- ☐ Flathead Screwdriver
- ☐ Box Cutter

1. **Assemble Wheels and Axles**
   - Begin by assembling the Wheels into the Frame.
   - Insert a Cotter Pin into the hole at the end of one Axle.
   - Using needle nose pliers, bend back both halves of the Cotter Pin.
   - Slide a Washer onto the Axle from the other end. Then, slide a Wheel onto the Axle.
   - Insert the Axle through two of the Axle holes on the Frame.

   - Repeat this process for the second Axle.
   - Insert the second Axle through the Frame, slide a Wheel on, then a Flat Washer, and finally insert a Cotter Pin into the hole on the end.
   - Use needle nose pliers to bend back both halves of each Cotter Pin, securing the Wheel assemblies onto the Frame.
   - Center the Axles in the Frame, ensuring there is space between the Wheels and the Frame on both sides.



- Insert a Set Screw into each of the four tapped holes, then tighten the Set Screws to hold the Axles in place.

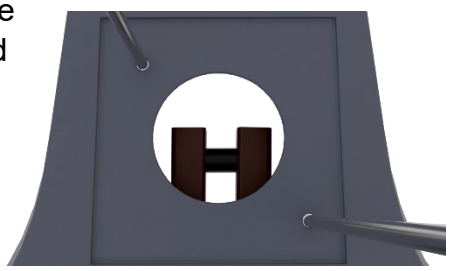
2. Turn Over and Install Pillar Rods

- With assistance from a second person, turn the Frame over so it rests on the Wheels.

  The Frame weighs over 100 pounds. Use good lifting techniques to avoid injury.

- Locate the two long Pillar Rods.
- Screw each Pillar Rod into the Frame 3 or 4 turns. It is normal for the Pillar Rods to be loose and wobbly at this stage.

- Notice the large hole in the Frame between the Pillar Rods. You should be able to see the end of the Lever Tip Pivot through this hole. Remember this setup, as you will soon install a Swivel Hook onto this Pivot.



3. Install Steel Yard Rod Assembly and Pillar

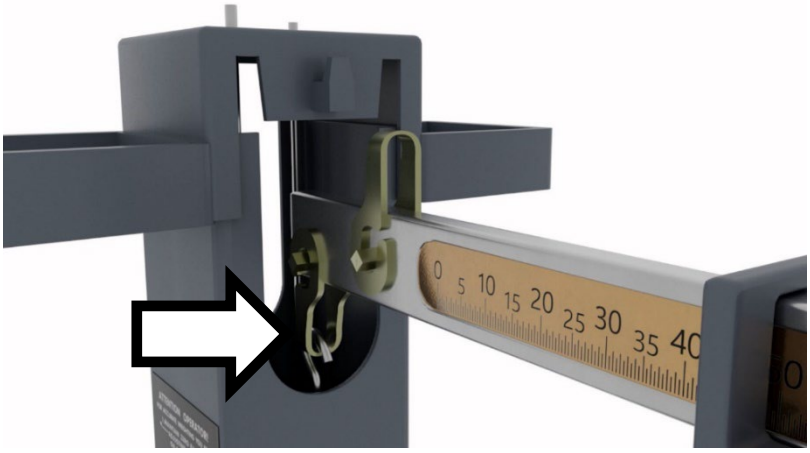
- Place the Pillar over the Pillar Rods with the Pillar's cutouts facing the sides.

- Insert the Steel Yard Rod Assembly down the Pillar so that the Swivel Hook is on the bottom and pointed toward the front of the scale.
- Catch the Swivel Hook onto the Lever Tip Pivot. It may be helpful to hold the top of the Steel Yard Rod Assembly with one hand while assisting at the bottom with the other hand.

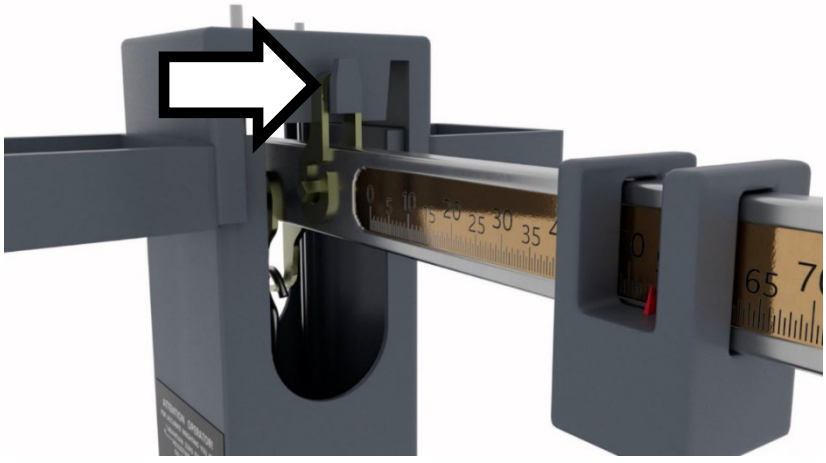
- Temporarily rest the Top Hook of the Steel Yard Rod Assembly on the Pillar's right cutout.

4. Install Beam Support and Beam Assembly

- Place the Beam Support on top of the Pillar, sliding the top of the two Pillar Rods through the holes. Ensure the Hook on the Beam Support points to the right.
- Position the Beam Assembly so that the numbers are right side up. Move the Poise to the center of the Beam and then tighten the Set Screw to hold it in place.
- Hold the Beam Assembly so the end with two metal loops is near the top of the Pillar. Connect the loop on the bottom of the Beam to the hook at the top of the Steel Yard Rod Assembly.



- Hang the loop on the top of the Beam onto the hook on the Beam Support, ensuring the Steel Yard Rod's Swivel Hook stays on the Lever Tip Pivot.



5. Final Assembly and Adjustment

- Install the Beam Cap over the Rod ends at the top of the Beam Support.
- Slip a Flat Washer over each Rod and start installing the Acorn Nuts but leave them loose for now.
- Slip the Beam Lock Assembly over the right end of the Beam, with the Lever facing forward.

- Start two Hex Bolts on top of the cap but leave them loose for now.

- Check the end of the Beam to ensure it is centered within the Beam Lock Assembly.

6. Secure and Finalize

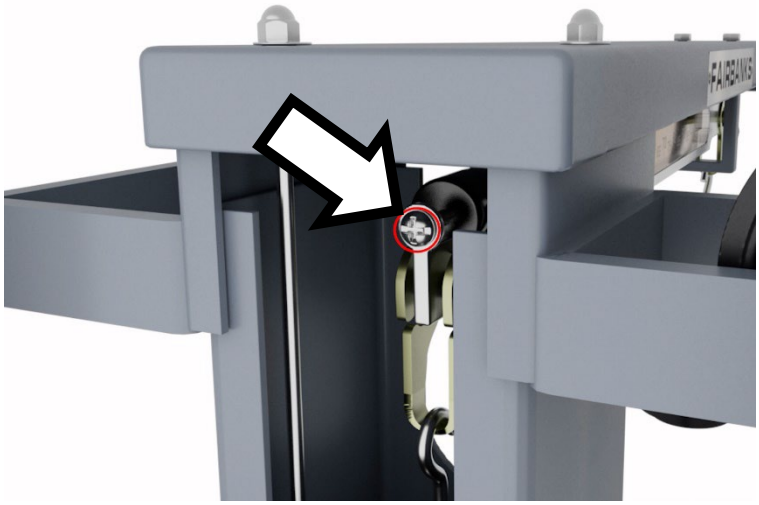
- Tighten the Acorn Nuts onto the Pillar Rods and continue turning the wrench to also tighten the Pillar Rods into the Frame below.
- Tighten the Hex Bolts on the Beam Lock Assembly.
- Hang the Counter Poise Stem Assembly from the loop on the right end of the Beam.
- Place the Counterpoise Weights on the Beam Support.

2.3. Balancing the Scale

1. **Set the Poise to Zero**
    - On the Beam, locate and loosen the Set Screw on the Poise.

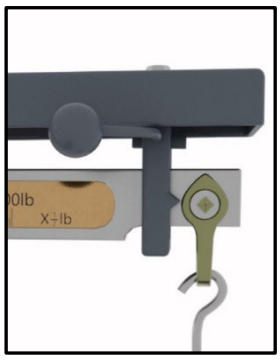
    - Slide the Poise all the way to the left so that it is at the zero position.

2. **Check and Adjust the Beam Position**
    - Disengage the Beam Lock. The Beam should move up and down freely coming to rest in the center of the Beam Lock Assembly.
    - If the Beam is not centered, adjust its position by turning the Bolt. Turn the Bolt counterclockwise to lower the end of the Beam or clockwise to raise the end of the Beam.



3. Final Zero Balance

- Ensure that the Poise is set to zero and that the Beam floats correctly in the center of the Beam Lock Assembly.
- When these conditions are met, you have successfully assembled your 1124 Portable Platform Scale.



2.4. Troubleshooting Beam Balance

1. Initial Checks

- Ensure that the Poise is set to "0" and the Set Screw is snug.
- Confirm that the platform is 'free' and 'floating' without obstruction.
- Verify that the Beam Assembly is properly connected at both ends.
- Check for any debris under the platform that might obstruct the levers.
- Make sure the Counterpoise Stem Assembly, with no weights, is properly positioned.
- Ensure that the Beam is hanging from the middle loop and that the Beam Lock is open.
- Apply slight pressure to the scale platform and observe if the Beam rises.

2. Finetuning the Counterpoise Stem Assembly

The Counterpoise Stem Assembly contains BBs that enable precise adjustments to the counterpoise weight, allowing for fine-tuning of the scale's balance and achieving accuracy.

- If the Beam is elevated on one end:
  - Remove the Counterpoise Stem Assembly.
  - Loosen the Hanger Rod by turning and holding the Bottom Nut.
  - Add a few BBs to the Counterpoise Stem Assembly.
  - Reattach the Counterpoise Stem Assembly.
- If the Beam is lowered on one end:
  - Remove the Counterpoise Stem Assembly.

- Loosen the Hanger Rod by turning and holding the Bottom Nut.
- Remove a small number of the BBs inside.
- Reattach the Counterpoise Stem Assembly.

- Continue adding or removing BBs as necessary until the Beam is level.
- Once the Beam is balanced, tighten the Hanger Rod and securely hang the Counterpoise Stem Assembly.

2.5. Weighing Procedure

1. **Prepare the Scale**
   - Ensure the Beam Lock is set to 'ON' by flipping the lever to the left.
2. **Place the Object**
   - Carefully position the object to be weighed in the center of the platform.
3. **Adjust the Poise**
   - Move the sliding Poise to the right end of the Beam.
   - Slowly release the Beam Lock.
4. **Balance the Beam**
   - If the Beam stays at the bottom of the Beam Lock Loop:
     - Gradually slide the Poise to the left (decreasing) until the Beam balances in the center.
     - Read the weight on the Beam at the Poise's pointer.
   - If the Beam stays at the top of the Beam Lock Loop:
     - Add Counterpoise Weights to the Counterpoise Stem Assembly until the Beam 'bottoms out' in the Beam Lock Loop.
     - Slowly slide the Poise to the left (decreasing) until the Beam balances in the center.
     - Read the weight on the Beam at the Poise's pointer and add the total weight of all Counterpoise Weights to the reading.

Section 3: Parts

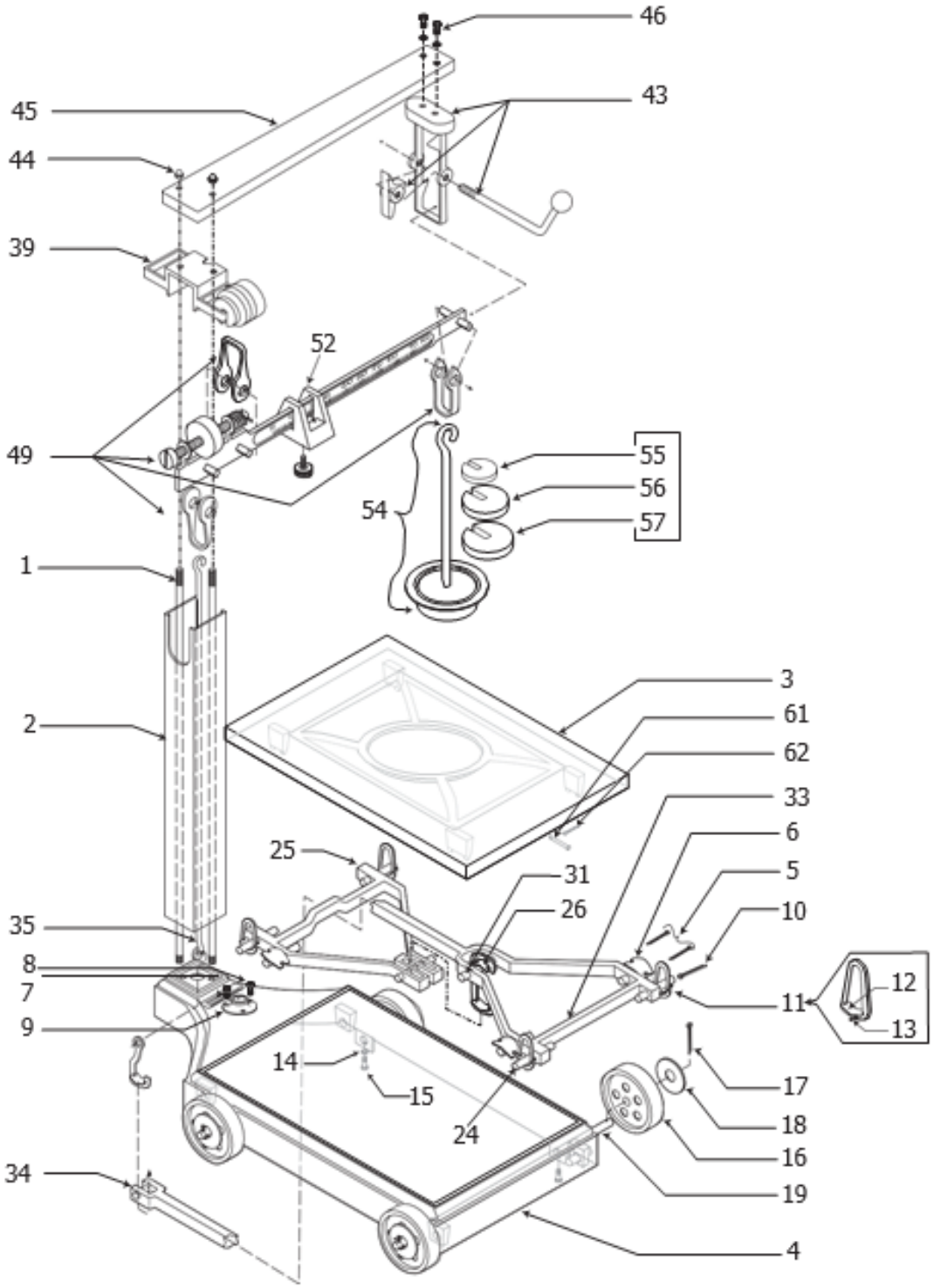
3.1. 1124 (lbs) Parts List

Item No.	Part No.	Description
1	71622	Pillar rod, long
2	58933	Pillar
3	95847	Platform cover
4	95848	Frame
5	95855	Cotter pin
6	58937	Bearing, platform
7	95856	Screw, Phillips Head
8	95857	Screw Allen
9	95858	Level, bubble
10		Pin, corner loop
11		Loop, corner
12		Bearing, corner loop
13		Cotter pin
10,11,12,13	58938	Corner loop assembly
14	95867	Hex nut
15	95868	Hex head bolt
16	95869	Wheel, 5" diameter
17	71628	Cotter pin
18	71629	Washer, flat
19	95870	Axle
24	95861	Pivot, load & fulcrum
25	72948	Short lever assy
26	58939	Center connection assembly
31	95863	Center pivot, long lever
33	72947	Long lever assy
34	95864	Long lever tip pivot
35	58934	Steelyard rod assembly
39	95839	Beam support
43	95840	Beam lock assembly
44	71592	Acorn nuts (2)
45	95841	Cap assembly

46	71593	Set of hex bolts
49	95843	Beam assembly (lb), includes: (beam, beam insert, beam pivots, loops, poise w/screw, balance ball)
52	95842	Poise assembly
54	58935	Counterpoise assembly
55	58936	1 lb (100 lb) counterpoise weight
56	95853	2 lb (200 lb) counterpoise weight
57	95854	4 lb (400 lb) counterpoise weight
55, 56, 57	71596	1 Set of (lb) weights (1-58936, 2-95853, 1-95854)
61	95865	Platform locking pin
62	95866	Cotter pin, platform locking pin
NS	95845	Replacement brass insert for beam. Unit = lbs Includes insert for each side of the beam.

Item No. "NS" = not shown

3.2. 1124 (lbs) Parts Diagram



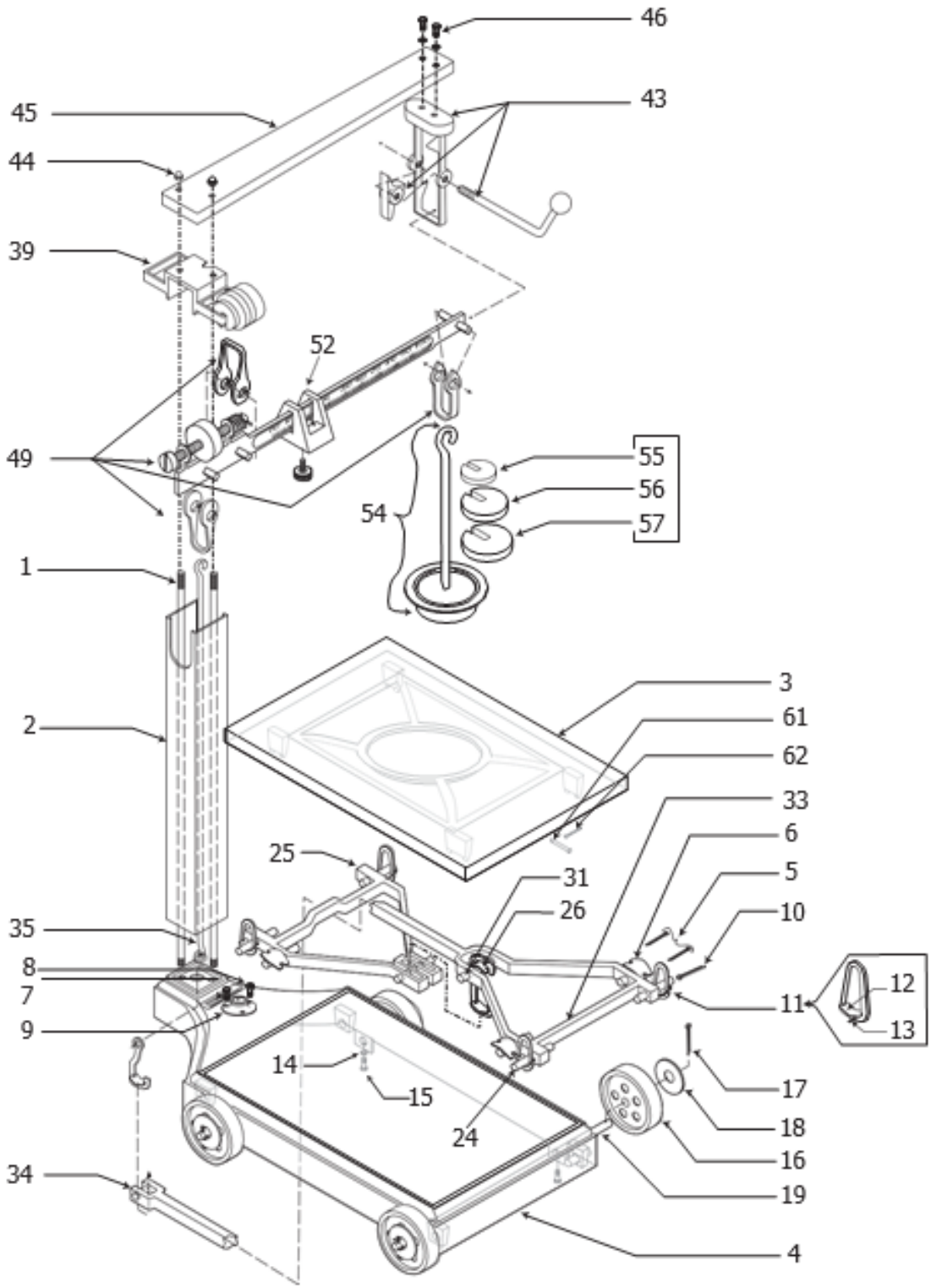
3.3. 1124-1 (kg) Parts List

Item No.	Part No.	Description
1	71622	Pillar rod, long
2	58933	Pillar
3	95847	Platform cover
4	95848	Frame
5	95855	Cotter pin
6	58937	Bearing, platform
7	95856	Screw, Phillips head
8	95857	Screw Allen
9	95858	Level, bubble
10		Pin, corner loop
11		Loop, corner
12		Bearing, corner loop
13		Cotter pin
10,11,12,13	58938	Corner loop assembly
14	95867	Hex nut
15	95868	Hex head bolt
16	95869	Wheel, 5" diameter
17	71628	Cotter pin
18	71629	Washer, flat
19	95870	Axle
24	95861	Pivot, load & fulcrum
25	72948	Short lever assy
26	58939	Center connection assembly
31	95863	Center pivot, long lever
33	72947	Long lever ssy
34	95864	Long lever tip pivot
35	58934	Steelyard rod assembly
39	95839	Beam support
43	95840	Beam lock assembly
44	71592	Acorn nuts (2)
45	95841	Cap assembly
46	71593	Set of hex bolts
49	72089	Beam assembly (kg), includes: (beam, beam insert, beam pivots, loops, poise w/screw, balance ball)

52	95842	Poise assembly
54	58935	Counterpoise assembly
55	72084	.5kg (50kg) counterpoise weight
56	72085	1kg (100kg) counterpoise weight
57	72086	2kg (200kg) counterpoise weight
55, 56, 57	72087	1 set of kg weights (1-72084, 2-72085, 1-72086)
61	95865	Platform locking pin
62	95866	Cotter pin, platform locking pin
NS	72088	Replacement brass insert for beam. Unit = kg Includes insert for each side of the beam.

Item No. "NS" = not shown

3.4. 1124-1 (kg) Parts Diagram

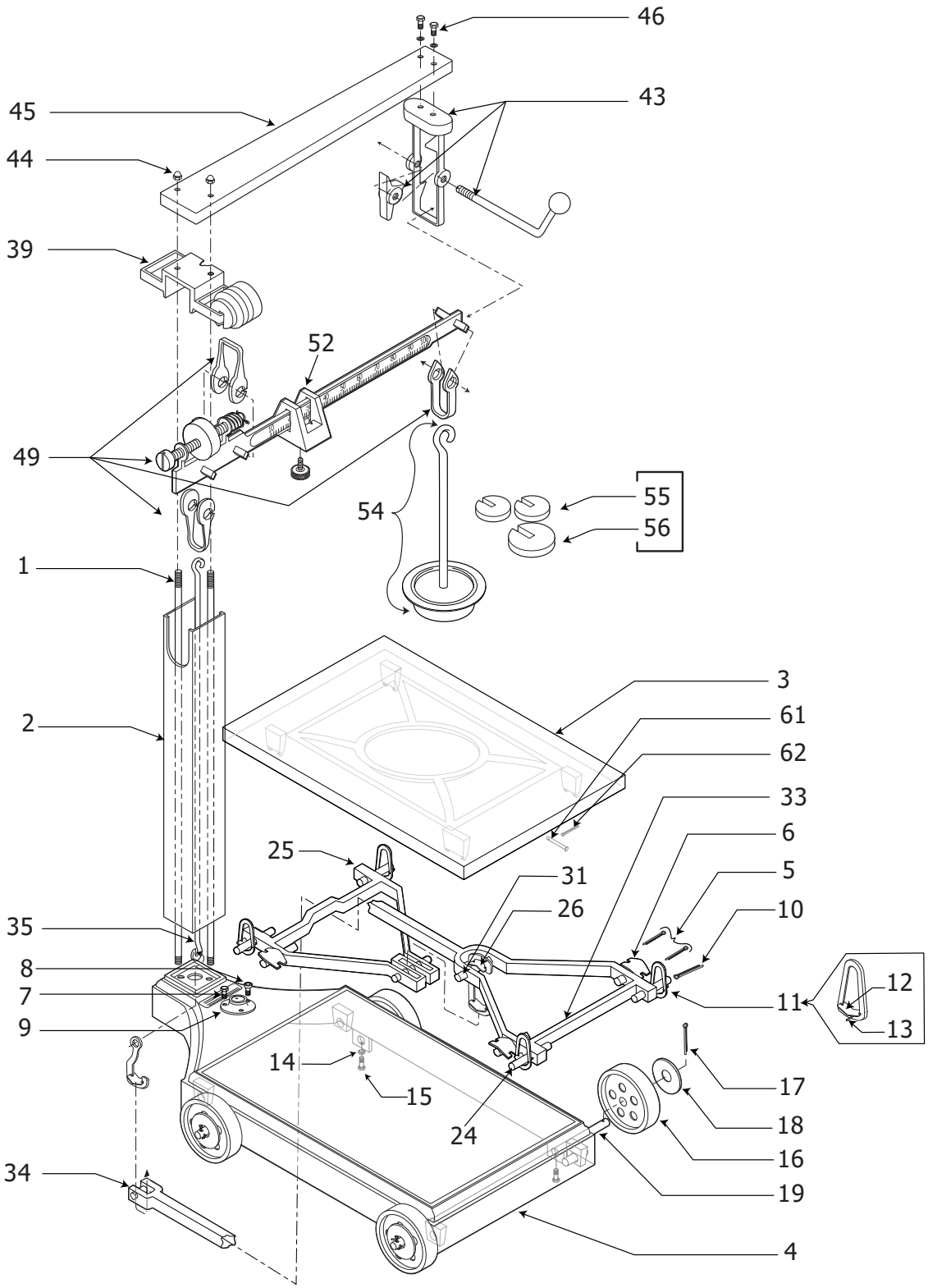


3.5. 1124-5 (lbs) Parts List

Item No.	Part No.	Description
1	71622	Pillar rod, long
2	58933	Pillar
3	95847	Platform cover
4	95848	Frame
5	95855	Cotter pin
6	58937	Bearing, platform
7	95856	Screw, Phillips Head
8	95857	Screw Allen
9	95858	Level, bubble
10		Pin, corner loop
11		Loop, corner
12		Bearing, corner loop
13		Cotter pin
10,11,12,13	58938	Corner loop assembly
14	95867	Hex nut
15	95868	Hex head bolt
16	95869	Wheel, 5" diameter
17	71628	Cotter pin
18	71629	Washer, flat
19	95870	Axle
24	95861	Pivot, load & fulcrum
25	72948	Short lever assy
26	58939	Center connection assembly
31	95863	Center pivot, long lever
33	72947	Long lever assy
34	95864	Long lever tip pivot
35	58934	Steelyard rod assembly
39	95839	Beam support
43	95840	Beam lock assembly
44	71592	Acorn nuts (2)
45	95841	Cap assembly
46	71593	Set of hex bolts
49	95843	Beam assembly (lb), includes: (beam, beam insert, beam pivots, loops, poise w/screw, balance ball)

52	95842	Poise assembly
54	58935	Counterpoise assembly
55	58936	1 lb (100 lb) counterpoise weight
56	95853	2 lb (200 lb) counterpoise weight
61	95865	Platform locking pin
62	95866	Cotter pin, platform locking pin
NS	95845	Replacement brass insert for beam. Unit = lbs Includes insert for each side of the beam.

3.6. 1124-5 (lbs) Parts Diagram



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