



**Instruction Manual**



# Portable Utility Scale

**WITH BATTERY POWERED  
2300 INSTRUMENT**

**MODEL 1127**



**Amendment Record**

**PORTABLE UTILITY SCALE**  
**WITH BATTERY POWERED**  
**2300 INSTRUMENT**  
**MODEL 1127**

**DOCUMENT 50600**

Manufactured by Fairbanks Scales Inc.  
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Created	6/01	
Issue 1	6/01	New Product
Issue 2	9/01	Added new part numbers and changed assembly process
Issue 3	7/02	Updated to new engineering changes.
Revision 4	1/07	Reformatted images and document template



*Early Model*



*Current Model*

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## Section 1: Introduction

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The **1127 Series Scale** is a combination of a roll-around cast iron base and a battery/AC powered digital indicator. The resulting scale is durable, movable, and provides a bright and accurate weight display. This manual provides information on assembly and setup for the **1127 Series Scale**. NTEP and CWM approved for “**Legal for Trade**” applications.

### **APPLICATIONS**

- Material handling
- Parts distribution
- Auditing
- Inventory management
- Warehousing
- Bag filling

### **GETTING STARTED RIGHT**

- Power supply must be used with a correctly **grounded** outlet.
- Place the scale on a solid and level floor.
  - *Keep the unit off of soft, wet or slippery floors.*
- Avoid extremes in temperature, humidity, shock, moisture and dust.
- Make sure the user’s feet are completely dry to prevent slipping.
- The scale is factory calibrated and supplied ready to be assembled and used.
- Service the **1127 Series Scale** by qualified technician **only**.
  - *Failure to do so may void all implied and/or written warranties.*

**A T T E N T I O N !**

**DO NOT pack or ship an instrument with batteries installed.**

***If batteries are expected to be left for an extended period of non-use, remove them all from their holder.***

## GETTING STARTED RIGHT, CONTINUED

- Upon receipt, ensure that no shipping damage has occurred.
  - *Damage to the shipping carton must be noted by the receiving party.*
  - *Damage must be 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.

## POWER SETTINGS

AC Power

- 110/120VAC
- 220/240VAC via jumpers @ JP1 on Power PCB # 21514
- **For 110/120VAC** = Place Jumpers in both end positions "**A**" and "**C**".
- **For 220/240VAC** = Place a Jumper in center position "**B**".



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## Section 2: Description

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- The **1127 Portable Platform Scale Base** is constructed of cast iron with cast iron levers.
- The weight display is either a battery or AC powered **2300 Series Indicator**.
- It is equipped with communication ports for connecting printers, displays, and/or computers.
- The scale is rated at **1000 pounds** capacity.
- The interval, or graduation size is 0.2 pounds.
- Although the unit is factory calibrated, some assembly is required.

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**Note:** *For commercial weighing applications the scale must be 'placed-in-service' by a licensed scale technician.*

*For product solutions, please call **Fairbanks Scales Technical Services.***

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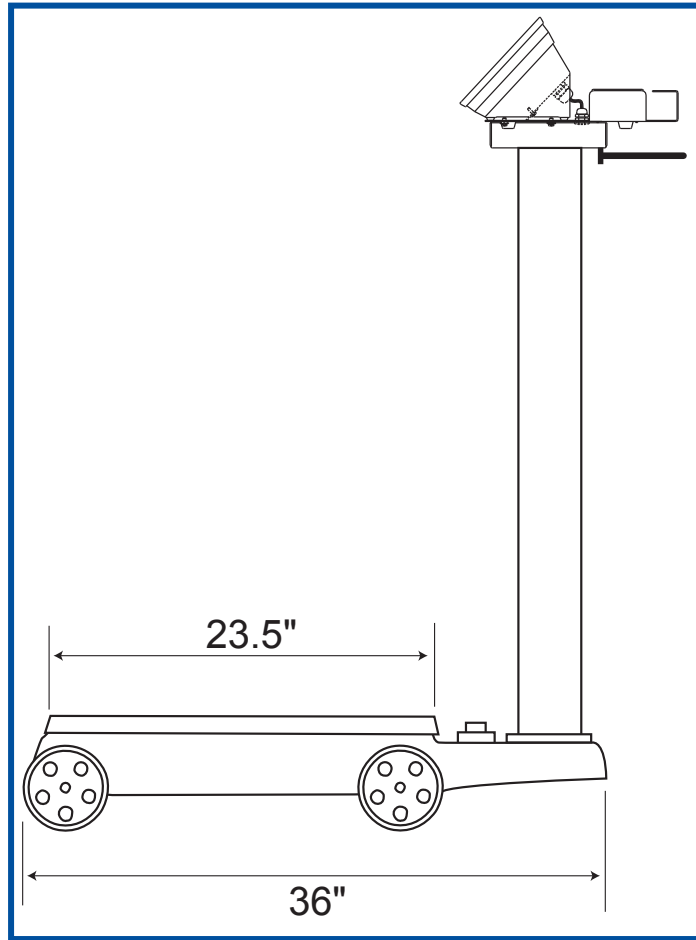
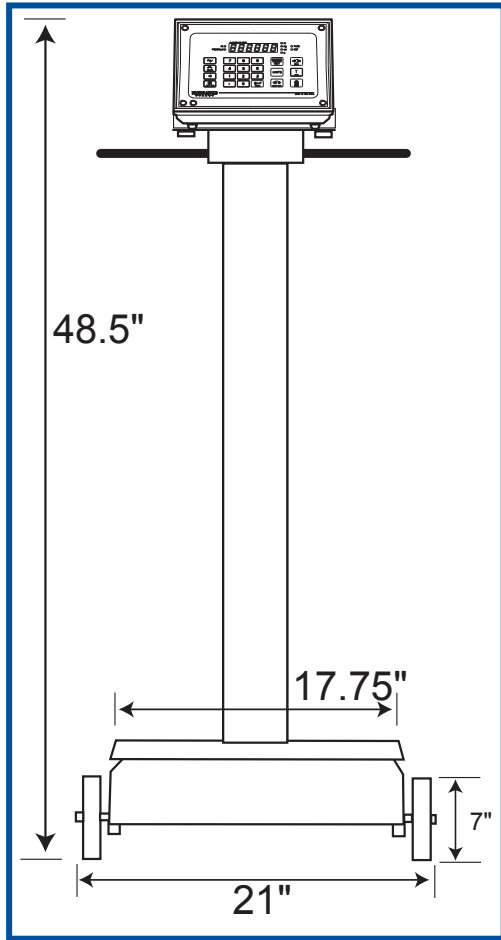


# WARNING!

*The 1127's shipping weight is approximately **185 pounds.**  
Use caution to prevent personal injury and/or damage to the product when lifting or moving it.*



## SECTION 2: DESCRIPTION, CONTINUED



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## Section 3: Assembly

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### NECESSARY TOOLS

- #1 or Small Slotted Screwdriver
- #2 Phillips Screwdriver
- 10" Adjustable Wrench
- Common Pliers

### WHEEL & PILLAR ASSEMBLY

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**Note:** Use the parts list in **Section 6: Parts** to identify the following assembly instructions.

---

1. Set the **Scale Base Assembly (#4)** sideways on the floor.
2. Insert a **cotter pin (#17)** through the small hole in one end of the **first axle (#19)**.
3. Place a **flat washer (#18)** and a **wheel (#16)** onto the open end of the axle.
4. Insert the axle's other end through **both** holes in the base.
5. Place the **second wheel (#16)** onto the axle.
6. Place a **flat washer** over the axle, and then insert a **cotter pin** through the axle's small hole.
7. **Repeat steps 2-4 for the second axle.**
8. With the scale in its upside-down position, center the axles in the base.
9. Insert the **locking screws (#15)** into the tapped holes in the bottom of the base, tightening the axle into place with the screws.
  - Directly under the axle holes.
10. Secure the **lock nuts (#14)**.

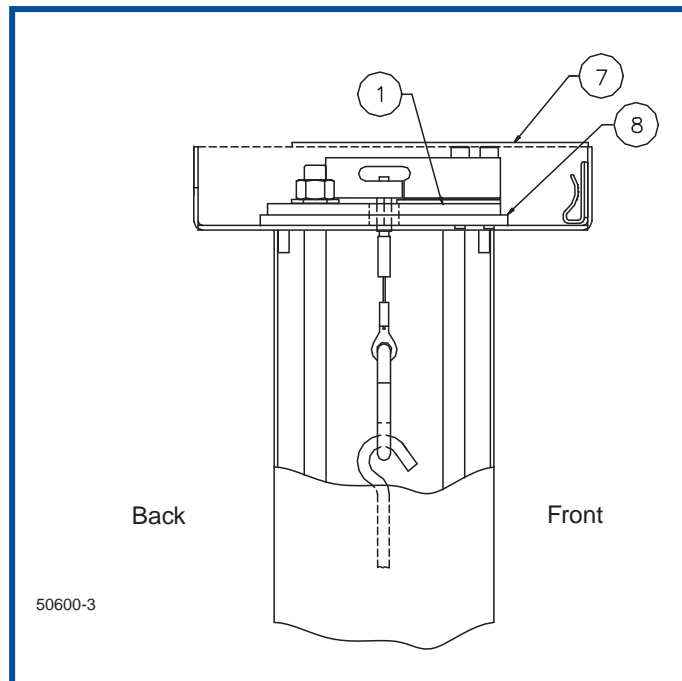
## WHEEL & PILLAR ASSEMBLY, CONTINUED

11. Screw the two (2) **pillar rods (#1)** into the two (2) tapped holes of the base.
12. Place the **pillar (#2)** over the pillar rods.
  - The cutouts face to the left and right of the platform
13. Insert the **steelyard rod (#35)** down through the pillar.
  - The bent hook is on top, and the loose swivel hook is on the bottom.

## MOUNTING BRACKET KIT ASSEMBLY

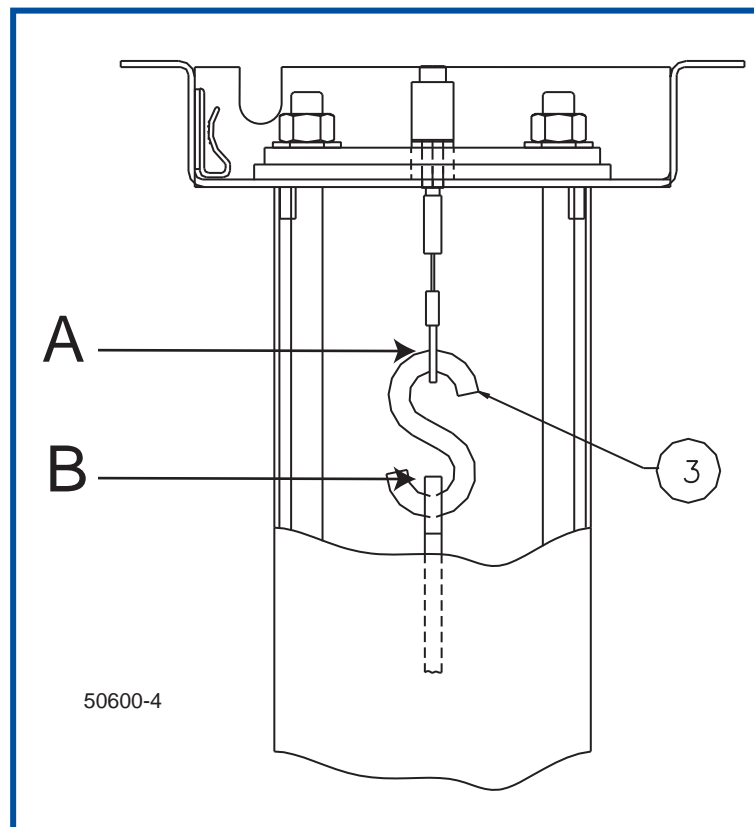
**Note:** *The Adapter is partially assembled and packed with bubble-wrap. The adapter bracket (#7), stiffener plate (#8), and load cell mounting plate (#1) are in correct orientation within the box.*

1. Lift the entire assembly out of the box and remove the bubble-wrap.
2. Allowing the small cable to go through the hole and the **load cell plate (#1)**, set it flush on top of the **stiffener plate (#8)**.
3. With the slot in the back (as viewed from the platform), place the assembly on over the **two pillar rods** so it rests on top of the **pillar**.
  - Ensure that the assembly is setting flush and aligned.
  - Looking up from the bottom of the assembly is two (2) small studs in opposite corners on the **inside** of the pillar.
4. Fasten the two (2) **pillar rods** to the **top of the pillar** with the two (2) washers and nuts.



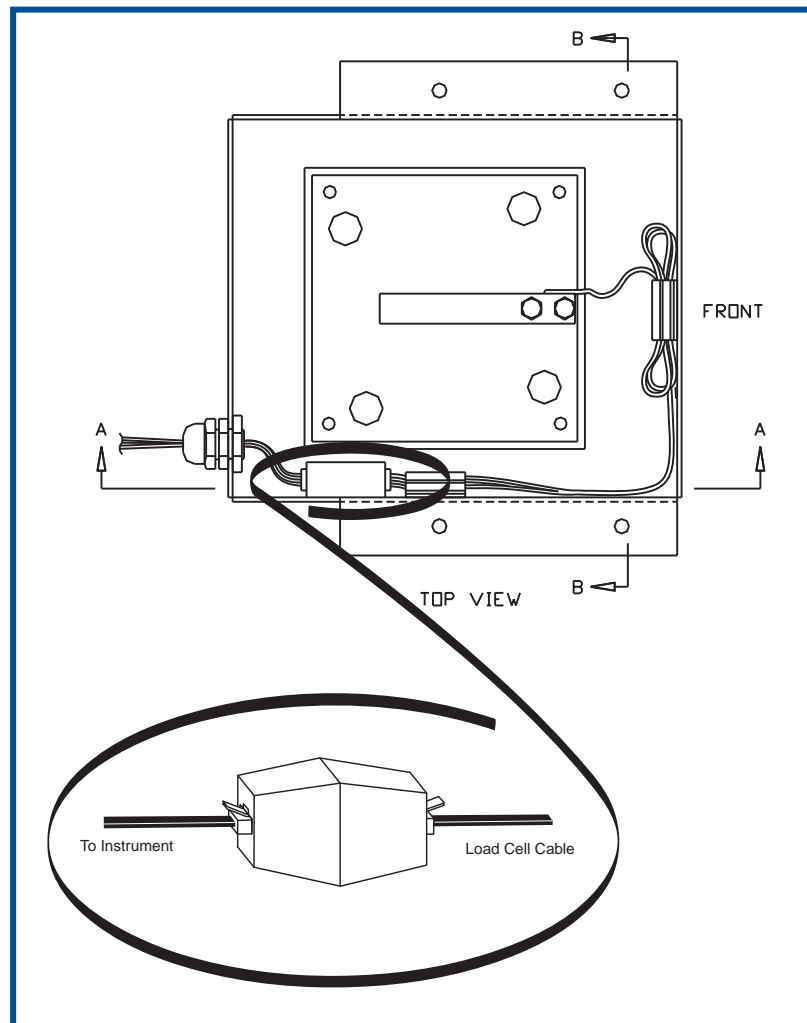
## MOUNTING BRACKET KIT ASSEMBLY, CONTINUED

5. Tighten the pillar rod nuts using an adjustable wrench
  - **Do not** touch the load cell while tightening each one.
6. On the bottom back-side of the scale's base, lift up the **lever end (#34)** while placing the hook under the lever's pivot.
  - Do this while holding the hook on top of the pull rod.
7. Inserting the "S" hook:
  - a. Insert the "S" hook (#3) through the eyelet of the load cell linkage cable adapter.
  - b. Slide the "S" hook **bottom** into the top hook on the **pull rod**.



## INSTALLING THE INSTRUMENT

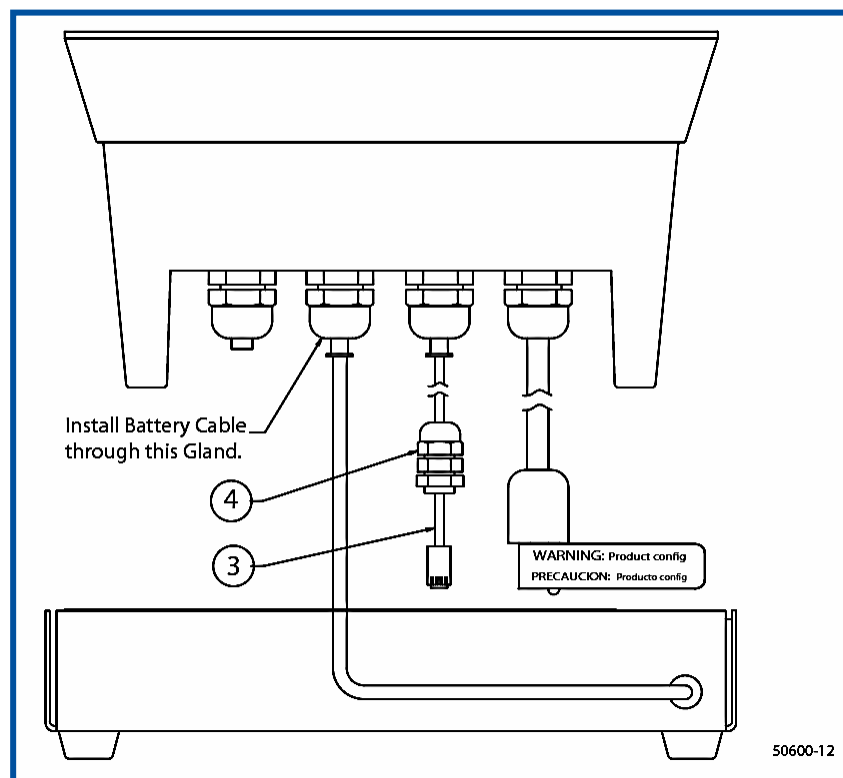
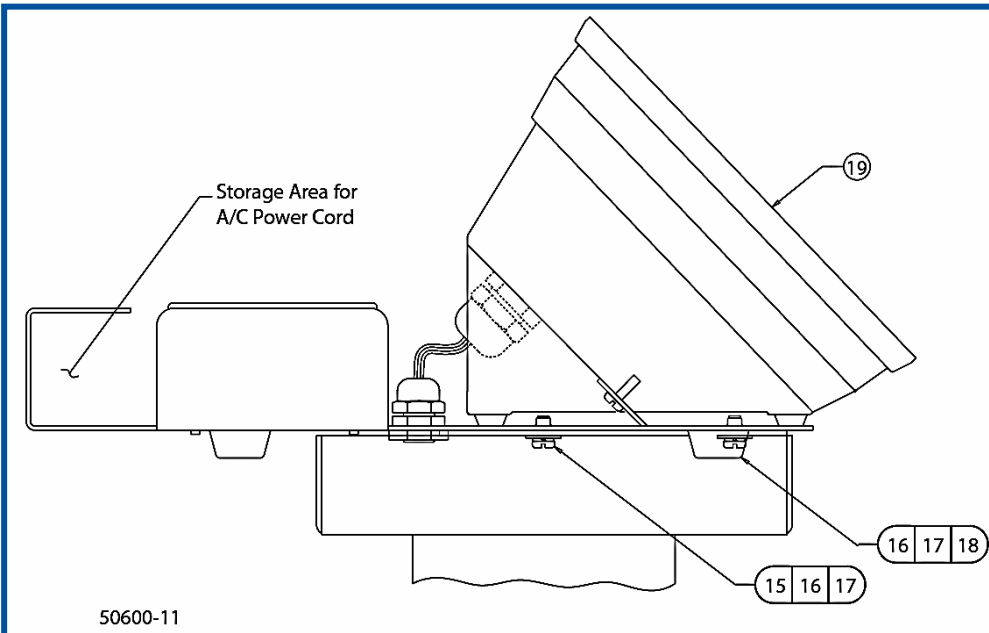
1. Connect the in-line phone plug adapter to the telephone plug, and then to the load cell cable.



2. Plug the end of the instrument cable into the adapter.
3. Slide the **plastic gland bushing** on the instrument section of cable into the slot on the rear of the adapter plate.
4. Tighten-down the large plastic nut.
5. Tuck the cable into the large plastic clips so it does not contact the load cell or become damaged.

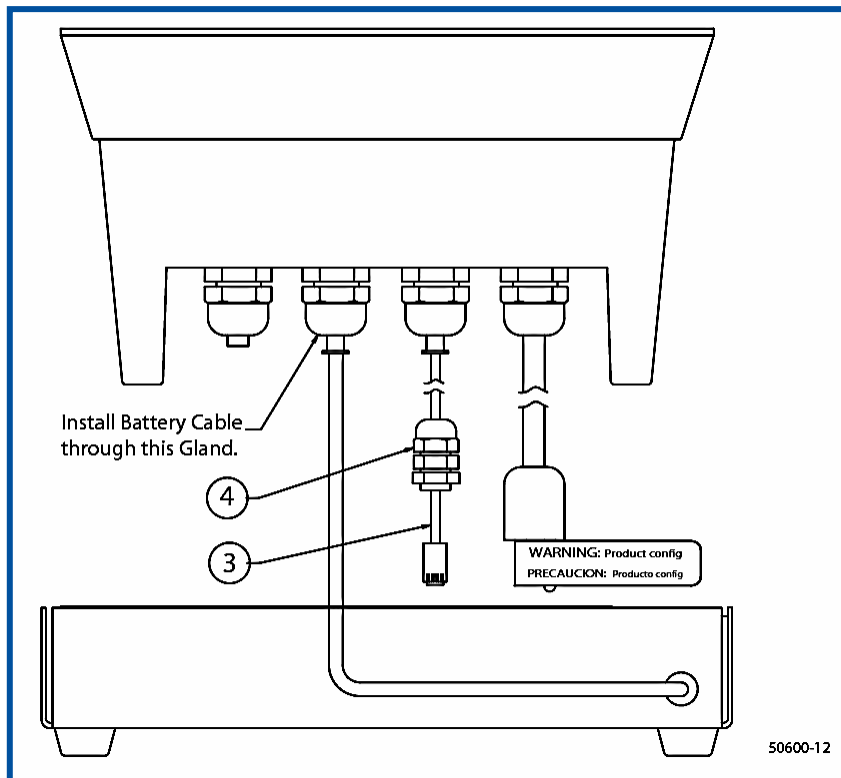
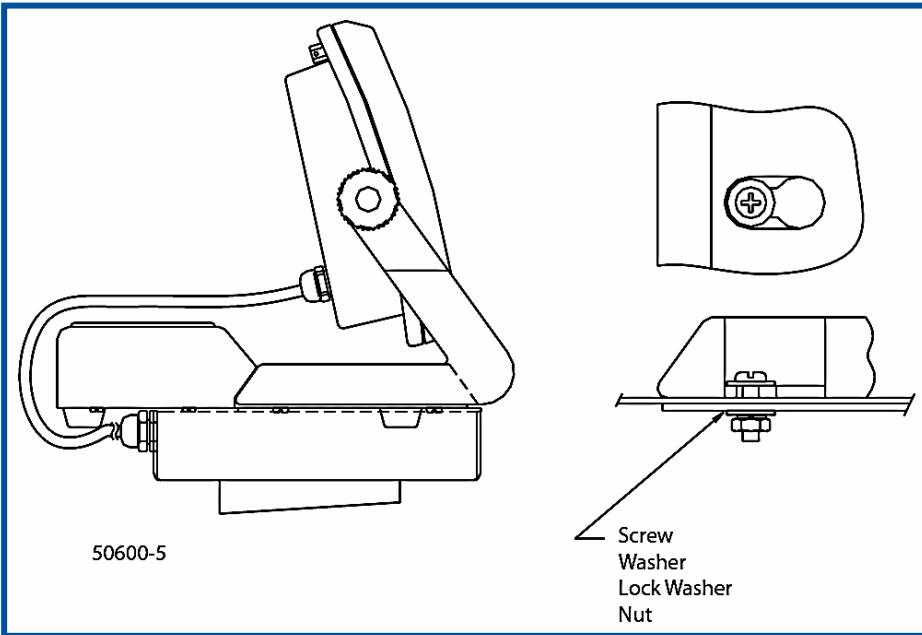
### Installation for the **Current 2300 Series Models**

6. Place the instrument on top of the bracket with the keypad/display facing the scale platform.
7. Fasten the instrument to the adapter using the screws, washers, lock washers and nuts (as shown below).



### Installation for the **Early 2300 Series Models**

6. Place the instrument on top of the bracket with the keypad/display facing the scale platform.
7. Fasten the instrument to the adapter using the screws, washers, lock washers and nuts (as shown below).



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## Section 4: Operations

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### INSTRUMENT POWER-UP

- The **1127** can be powered by 6-D size batteries or AC power.
- Anytime the AC power cord is plugged into a 'live' outlet, the instrument will be powered by AC power, even if batteries are installed.

#### *Using Batteries*

1. Remove the battery cover by lifting up on the case.
2. Insert 6 **new** alkaline **D-sized batteries** into the battery holder, observing polarity.
3. Replace the battery cover.
4. Press the **ON/OFF** switch on the keypad.

#### *Using AC Power*

1. Plug the power cord into a receptacle with the correct voltage.
  - See **Section 1** for AC voltage settings.
2. Press the ON / OFF switch on the keypad.

The **Power-up** display will sequence as follows:

<b>LL.LLLL</b>	(digit test)
<b>777.777</b>	(digit test)
<b>----. --</b>	(digit test)
<b>init.</b>	(initialization)
<b>P21579</b>	(current Prom # )
<b>Rev 2</b>	(current Rev #)
<b>X.X U</b>	(battery voltage)
<b>XX.XCs</b>	(temperature)
<b>XX.XCn</b>	(temperature)
<b>Adinit</b>	(A-D Initialization)
<b>Stby 25-1</b>	(Countdown for A-D Initialization)
<b>XXX.X</b>	(weight display)

- A properly connected instrument will display **“0.0”** or **a weight**.



## BASIC OPERATIONS

1. Press the ZERO key to set the scale display to "0.0".
  - If the display shows something other than a weight reading, refer to the **Troubleshooting Guide** in **Section 4**.
2. Place an item on the scale platform, read the weight, then remove the item.
  - The indicator should return to a "0.0" display.
3. Place the item on the platform again; the reading should be the same for both weighments.
  - If the instrument indicates different weights or does not return to "0.0", refer to the **Troubleshooting Guide** on the next page.
  - Please use **Publication 50202, 2300 Series Operator's Manual** enclosed with your scale for detailed instructions regarding indicator features and usage.

## Section 5: Troubleshooting Guide

Symptom	Cause	Solution
<b>ON/OFF</b> does NOT operate	<ul style="list-style-type: none"> <li>Switch not pressed firmly</li> <li>No power at outlet</li> <li>Batteries dead</li> <li>Faulty instrument</li> </ul>	<ul style="list-style-type: none"> <li>✓ Press the <b>ON/OFF</b> switch <i>firmly</i> and <i>slowly</i></li> <li>✓ Check AC outlet; check circuit box</li> <li>✓ Replace <b>all</b> six (6) batteries</li> <li>✓ Call for service</li> </ul>
<b>“no rEF”</b>	<ul style="list-style-type: none"> <li>Load cell connection bad</li> <li>No pull on the load cell</li> </ul>	<ul style="list-style-type: none"> <li>✓ Check the in-line adapter</li> <li>✓ Check the “S” hook attachment</li> <li>✓ Check that the hook is under the lever’s end at the bottom of the scale</li> <li>✓ Check for proper platform assembly</li> </ul>
<b>“LoLoAd”</b>	<ul style="list-style-type: none"> <li>Below <b>ZERO</b></li> </ul>	<ul style="list-style-type: none"> <li>✓ Check for platform bind</li> <li>✓ Check that the “S” hook is attached</li> <li>✓ Check that the hook is under the lever’s end at the bottom of the scale</li> <li>✓ Check for proper platform assembly</li> </ul>
<b>“HiLoAd”</b>	<ul style="list-style-type: none"> <li>Over Capacity</li> </ul>	<ul style="list-style-type: none"> <li>✓ Check platform, then press <b>ZERO</b></li> <li>✓ Check for platform bind</li> </ul>
Does not return to <b>“0.0”</b>	<ul style="list-style-type: none"> <li>Bind</li> </ul>	<ul style="list-style-type: none"> <li>✓ Check for platform bind</li> <li>✓ Check that the “S” hook is attached</li> <li>✓ Check that the hook is under the lever’s end at the bottom of the scale</li> <li>✓ Check for proper platform assembly</li> </ul>
Eratoc weights	<ul style="list-style-type: none"> <li>Bind</li> </ul>	<ul style="list-style-type: none"> <li>✓ Check for platform bind</li> <li>✓ Check that the “S” hook is attached</li> <li>✓ Check that the hook is under the lever’s end at the bottom of the scale</li> <li>✓ Check for proper platform assembly</li> </ul>
Blank display	<ul style="list-style-type: none"> <li>Batteries <b>below 6.2 VDC</b></li> </ul>	<ul style="list-style-type: none"> <li>✓ Replace <b>all</b> six (6) batteries</li> </ul>
<b>“LoBAtt”</b>	<ul style="list-style-type: none"> <li>Batteries <b>at 6.4 VDC</b></li> </ul>	<ul style="list-style-type: none"> <li>✓ Replace <b>all</b> six (6) batteries</li> </ul>
<b>“LoBAtt”</b> (flashing)	<ul style="list-style-type: none"> <li>Batteries <b>below 6.4 VDC</b></li> </ul>	<ul style="list-style-type: none"> <li>✓ Replace <b>all</b> six (6) batteries</li> </ul>

★ For all errors not listed or for help, please call your local **Fairbanks Service Representative**.

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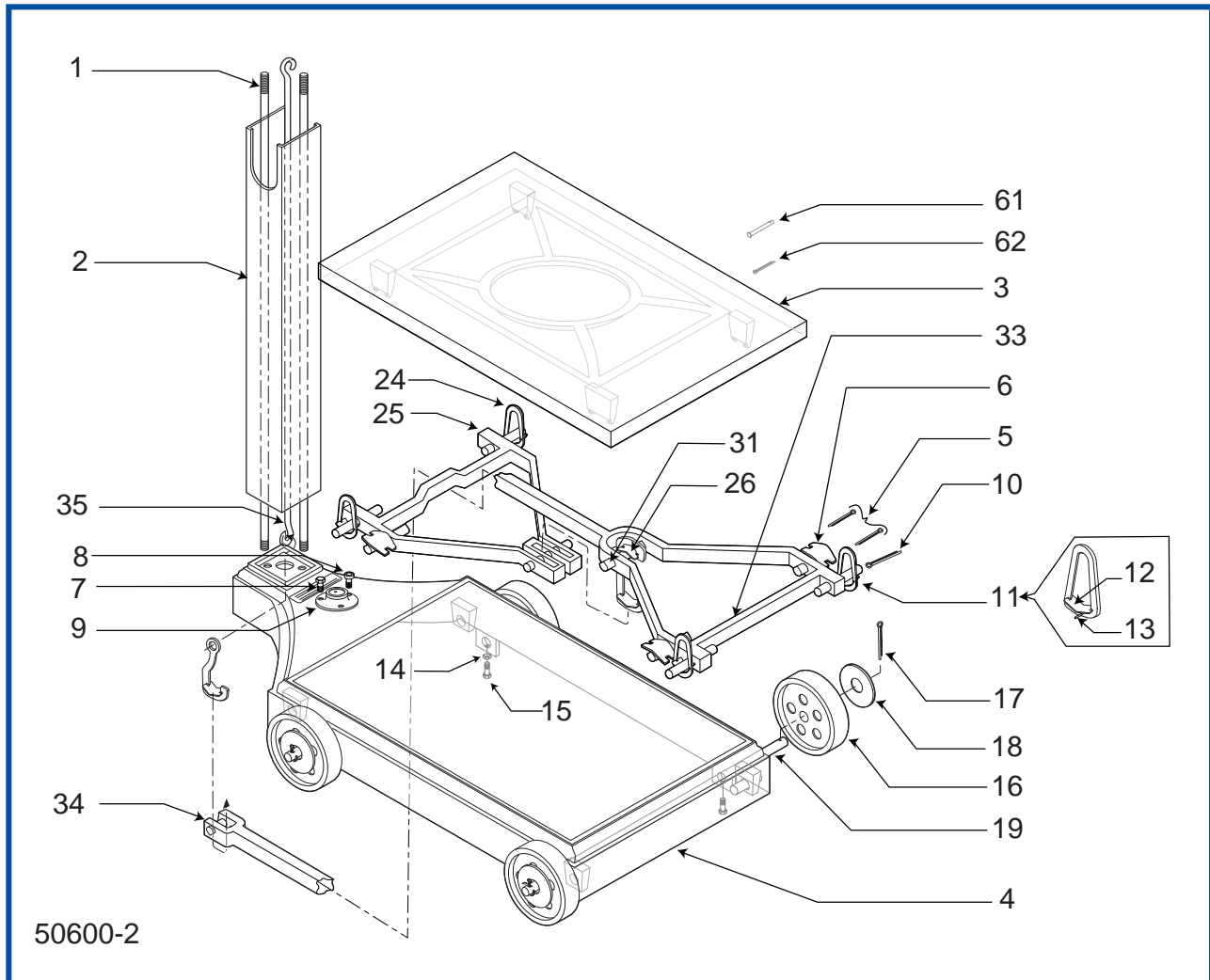
## Section 6: Parts

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### PLATFORM & PILLAR ASSEMBLY, PARTS LIST

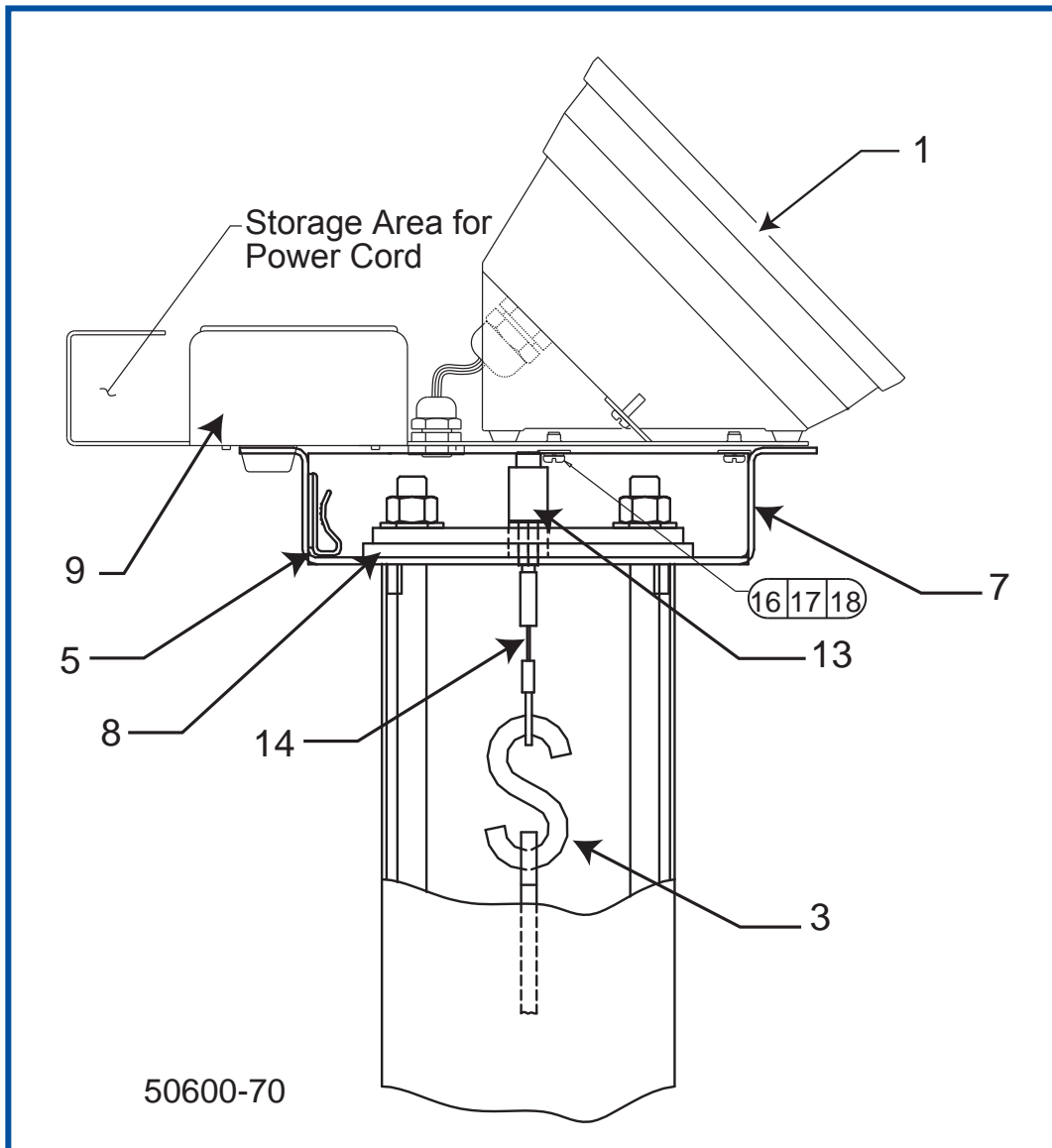
Item No.	Part No.	Description
1	71622	Pillar Rod, Long
2	58933	Pillar
3	95847	Platform Cover
4	95848	Frame
5	95855	Cotter Pin
6	58937	Bearing, Platform
7	95856	Screw, Ph Hd
8	95857	Screw, Allen
9	95858	Level, Bubble
10	95859	Pin, Corner Loop
11	71623	Loop, Corner
12	71624	Bearing, Corner Loop
13	71625	Cotter Pin
10, 11	58938	Loop, Corner Assembly
12, 13	58938	Loop, Corner Assembly
14	95867	Hex Nut
15	95868	Hex Head Bolt
16	95869	Wheel, 5" Diameter
17	71627	Cotter Pin
18	71629	Washer, Flat
19	71630	Axle
24	95861	Pivot, Load & Folcrum
25	72948	Short Lever Assy
26	58939	Center Connection Assy
31	95863	Center Pivot, Long Lever
33	72947	Long Lever Assy
34	95864	Long Lever Tip Pivot
35	58934	Steelyard Rod Assy
44	71592	Acorn Nuts (2)
61	95865	Platform Locking Pin
62	95866	Cotter Pin, Platform Locking Pin

# PLATFORM & PILLAR ASSEMBLY, DIAGRAM

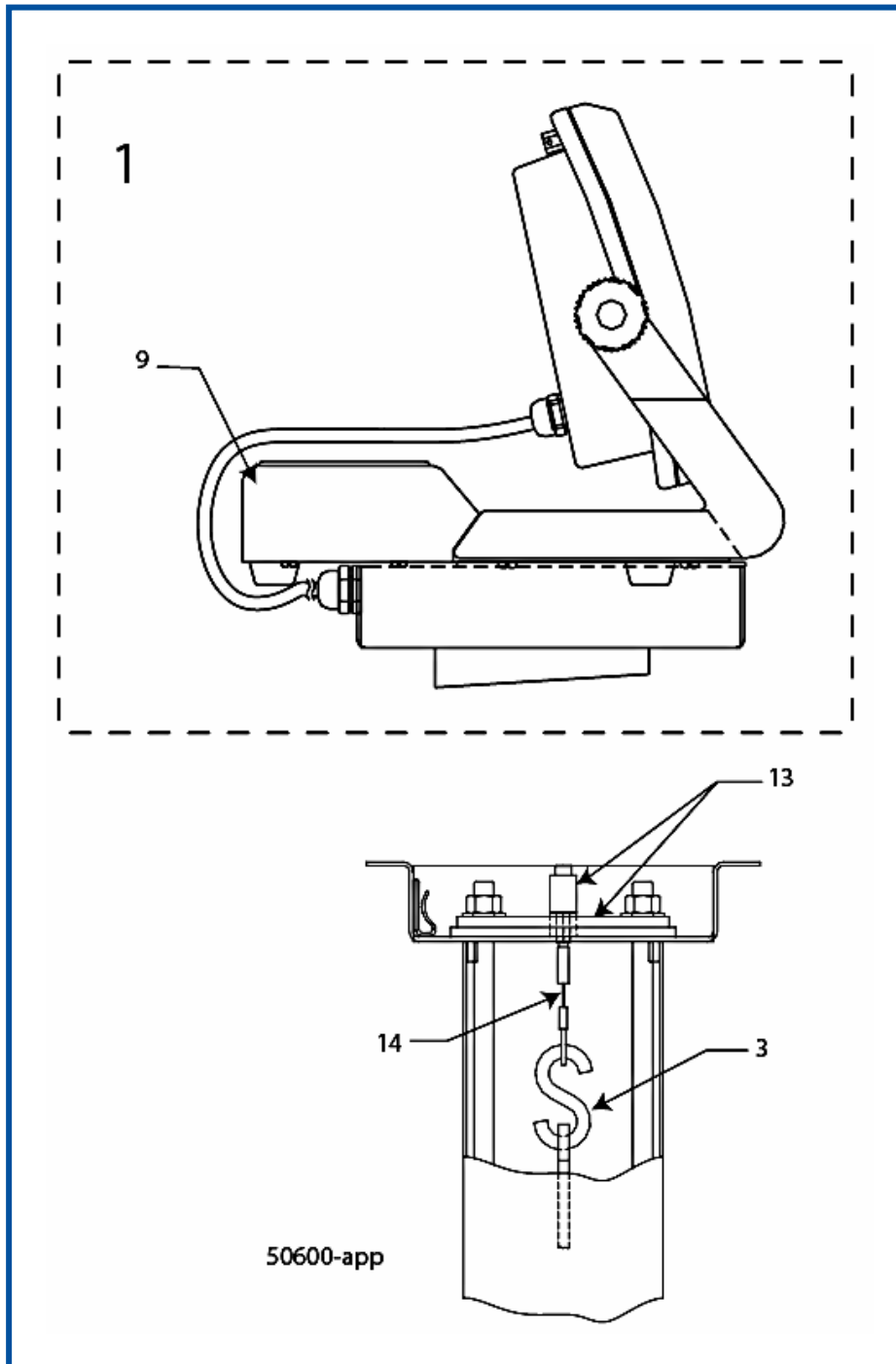


## PARTS FOR THE **CURRENT** 2300 SERIES MODELS

Item No.	Part No.	Description
1	23471	Instrument, Assy
3	12643	"S" Hook
5	17622	Cable Clamp
7	20176	Bracket, 2300 Line Scale
8	14340	Plate, Stiffener
9	20489	Battery Cover
13	14230	Load Cell Assy
14	13099	Linkage (Cable)
16	10902	Screw, 8-32 x .38
17	10312	Washer, Plain, Flat
18	10921	Washer

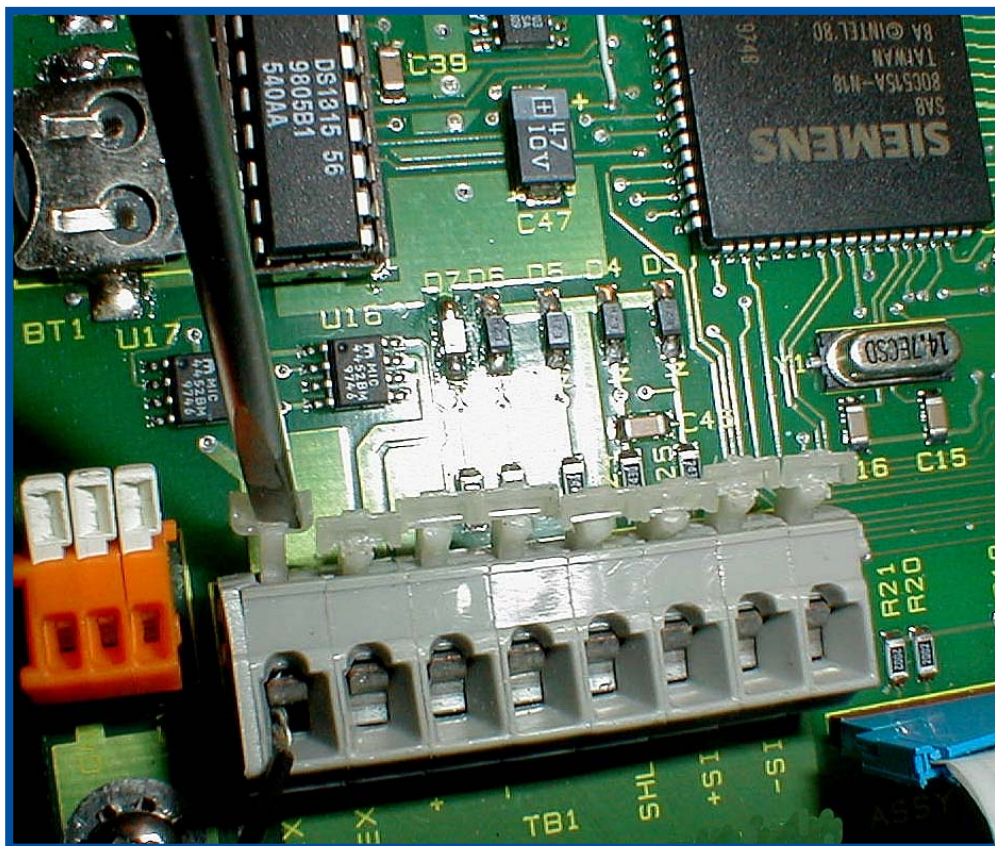


# DIAGRAM FOR THE **EARLY** 2300 SERIES MODELS (PART NUMBERS ARE THE SAME)



# Appendix I: Wiring Information

Load Cell	Color Code	Instrument
(-) EXC	Black	TB1 - 1
(+) EXC	Green	TB1 - 2
(+) SIG	White	TB1 - 7
(-) SIG	Red	TB1 - 8





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