2888

DECKMATE®
Floor Scales
Installation and Service Manual

A14859700A
(2/01).00

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METTLER TOLEDO

Publication Revision History

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A14859700A	2/01	Reformatted manual. Added new scale sizes/capacities and new ramps. Added swivel caster replacement instructions.

INTRODUCTION

This publication is provided solely as a guide for individuals who have received Technical Training in servicing the METTLER TOLEDO product.

Information about METTLER TOLEDO Technical Training can be obtained by writing, calling, or faxing:

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www.mt.com

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Models: 744, 745 and 745A

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89/336/EU EMC Directive / EMU-Richtlinie / Directive concernant la CEM
EN55 022, B: 1987 Emissions / Funkstörungen
EN50 082-2: 1995 Immunity
73/23/EU Low Voltage / Niederspannung / basse tension
EN61010-1 el. Safety / el. Sicherheit / sécurité el.
94/9/EC concerning equipment and protective systems intended for use in potentially explosive atmospheres
EN 50 014 : 1977 + A1…A5, General requirements
EN 50 020 : 1977 + A1…A5, Intrinsic safety "i"

Other Directives and Standards / Andere Richtlinien und Normen / Autres documents
corresponding to local requirements / entsprechend lokalen Anforderungen / correspondant aux exigences locales

R60	OIML International Recommendation, Metrological regulation for load cells
EEx ib IIC T4	el. Safety / el. Sicherheit / sécurité el. (PTB Nr. Ex-95.D.2051, for models 744 and 745)
EEx ib IIC T4	el. Safety / el. Sicherheit / sécurité el. (KEMA No. Ex-98.D.0965, for model 745A)

Darrell Flocken, Manager - Weights & Measures
Office of Weights and Measures
Worthington, Ohio USA
~~**September, 1996**~~
Revised January 1999 **(Added: model 745A, conformity to 89/336/EU – 73/23/EU – 94/9/EC)**

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APPLICATION GUIDES

The only warranty of METTLER TOLEDO is for the product it supplies under the Product Warranty Statement listed above. Weighing application guidelines pertain to METTLER TOLEDO products.

Precautions

READ this manual BEFORE operating or servicing this equipment.

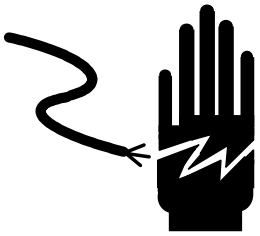
FOLLOW these instructions carefully.

SAVE this manual for future reference.

DO NOT allow untrained personnel to operate, clean, inspect, maintain, service, or tamper with this equipment.

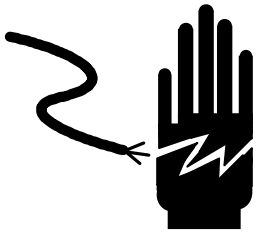
ALWAYS DISCONNECT this equipment from the power source before cleaning or performing maintenance.

CALL METTLER TOLEDO for parts, information, and service.



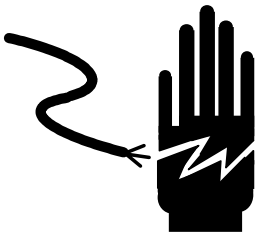
⚠ WARNING

PERMIT ONLY QUALIFIED PERSONNEL TO SERVICE THIS EQUIPMENT. EXERCISE CARE WHEN MAKING CHECKS, TESTS, AND ADJUSTMENTS THAT MUST BE MADE WITH POWER ON. FAILING TO OBSERVE THESE PRECAUTIONS CAN RESULT IN BODILY HARM.



⚠ WARNING

FOR CONTINUED PROTECTION AGAINST SHOCK HAZARD, CONNECT TO PROPERLY GROUNDED OUTLET ONLY. DO NOT REMOVE THE GROUND PRONG.



⚠ WARNING

DISCONNECT ALL POWER TO THIS UNIT BEFORE INSTALLING, SERVICING, CLEANING, OR REMOVING THE FUSE. FAILURE TO DO SO COULD RESULT IN BODILY HARM AND/OR PROPERTY DAMAGE.

⚠ CAUTION

BEFORE CONNECTING/DISCONNECTING ANY INTERNAL ELECTRONIC COMPONENTS OR INTERCONNECTING WIRING BETWEEN ELECTRONIC EQUIPMENT, ALWAYS REMOVE POWER AND WAIT AT LEAST THIRTY (30) SECONDS. FAILURE TO OBSERVE THESE PRECAUTIONS COULD RESULT IN BODILY HARM OR DAMAGE TO OR DESTRUCTION OF THE EQUIPMENT.

CAUTION

OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES.

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1 Introduction

General Description

The Model 2888 DECKMATE® floor scale is a fully electronic scale for top-of-floor weighing applications. It is available as a static scale or as a portable scale equipped with wheels. The load cell power supply is provided by the METTLER TOLEDO digital indicator.

Model Numbers

The following table shows how standard model numbers are determined for DECKMATE floor scales.

XXXX	X	X	X	X	X	X
Model	**Type**	**Platform**	**Load Cell Metrology**	**Junction Box**	**Size**	**Scale Capacity**
2888	0 = Static P = Portable	0 = Mild steel, tread plate 1 = Mild steel, smooth plate 2 = Stainless steel, tread plate 3 = Stainless steel, smooth plate	0 = 744 H44 5Kd 2 = 745 H44 5Kd 4 = 745 R60 3Kd	0 = Analog	0 = 30" x 30" 1 = 36" x 36" 2 = 42" x 42"	0 = 500 lb 1 = 1,000 lb 2 = 2,500 lb A = 600 kg B = 1,500 kg

Model/Ram Numbers

Model	Static Scale (Mild Steel)	Shipping Weight
2888000000	30" x 30" (76.2 x 76.2 cm), 500-lb Capacity, Tread Plate	125 lb
2888010000	30" x 30" (76.2 x 76.2 cm), 500-lb Capacity, Smooth Plate	125 lb
2888002001	30" x 30" (76.2 x 76.2 cm), 1,000-lb Capacity, Tread Plate	125 lb
2888012001	30" x 30" (76.2 x 76.2 cm), 1,000-lb Capacity, Smooth Plate	125 lb
2888002011	36" x 36" (91.4 x 91.4 cm), 1,000-lb Capacity, Tread Plate	250 lb
2888012011	36" x 36" (91.4 x 91.4 cm), 1,000-lb Capacity, Smooth Plate	250 lb
2888002012	36" x 36" (91.4 x 91.4 cm), 2,500-lb Capacity, Tread Plate	250 lb
2888012012	36" x 36" (91.4 x 91.4 cm), 2,500-lb Capacity, Smooth Plate	250 lb
2888002021	42" x 42" (106.7 x 106.7 cm), 1,000-lb Capacity, Tread Plate	350 lb
2888012021	42" x 42" (106.7 x 106.7 cm), 1,000-lb Capacity, Smooth Plate	350 lb
2888002022	42" x 42" (106.7 x 106.7 cm), 2,500-lb Capacity, Tread Plate	350 lb
2888012022	42" x 42" (106.7 x 106.7 cm), 2,500-lb Capacity, Smooth Plate	350 lb

Model	Portable Scale (Mild Steel)	Shipping Weight
2888P00000	30" x 30" (76.2 x 76.2 cm), 500-lb Capacity, Tread Plate	325 lb
2888P10000	30" x 30" (76.2 x 76.2 cm), 500-lb Capacity, Smooth Plate	325 lb
2888P02001	30" x 30" (76.2 x 76.2 cm), 1,000-lb Capacity, Tread Plate	325 lb
2888P12001	30" x 30" (76.2 x 76.2 cm), 1,000-lb Capacity, Smooth Plate	325 lb
2888P02011	36" x 36" (91.4 x 91.4 cm), 1,000-lb Capacity, Tread Plate	430 lb
2888P12011	36" x 36" (91.4 x 91.4 cm), 1,000-lb Capacity, Smooth Plate	430 lb
2888P02012	36" x 36" (91.4 x 91.4 cm), 2,500-lb Capacity, Tread Plate	430 lb
2888P12012	36" x 36" (91.4 x 91.4 cm), 2,500-lb Capacity, Smooth Plate	430 lb
2888P02021	42" x 42" (106.7 x 106.7 cm), 1,000-lb Capacity, Tread Plate	540 lb
2888P12021	42" x 42" (106.7 x 106.7 cm), 1,000-lb Capacity, Smooth Plate	540 lb
2888P02022	42" x 42" (106.7 x 106.7 cm), 2,500-lb Capacity, Tread Plate	540 lb
2888P12022	42" x 42" (106.7 x 106.7 cm), 2,500-lb Capacity, Smooth Plate	540 lb

Model	Static Scale (Stainless Steel)	Shipping Weight
2888020000	30" x 30" (76.2 x 76.2 cm), 500-lb Capacity, Tread Plate	125 lb
2888030000	30" x 30" (76.2 x 76.2 cm), 500-lb Capacity, Smooth Plate	125 lb
2888022001	30" x 30" (76.2 x 76.2 cm), 1,000-lb Capacity, Tread Plate	125 lb
2888032001	30" x 30" (76.2 x 76.2 cm), 1,000-lb Capacity, Smooth Plate	125 lb
2888022011	36" x 36" (91.4 x 91.4 cm), 1,000-lb Capacity, Tread Plate	250 lb
2888032011	36" x 36" (91.4 x 91.4 cm), 1,000-lb Capacity, Smooth Plate	250 lb
2888022012	36" x 36" (91.4 x 91.4 cm), 2,500-lb Capacity, Tread Plate	250 lb
2888032012	36" x 36" (91.4 x 91.4 cm), 2,500-lb Capacity, Smooth Plate	250 lb
2888022021	42" x 42" (106.7 x 106.7 cm), 1,000-lb Capacity, Tread Plate	350 lb
2888032021	42" x 42" (106.7 x 106.7 cm), 1,000-lb Capacity, Smooth Plate	350 lb
2888022022	42" x 42" (106.7 x 106.7 cm), 2,500-lb Capacity, Tread Plate	350 lb
2888032022	42" x 42" (106.7 x 106.7 cm), 2,500-lb Capacity, Smooth Plate	350 lb

Model	Portable Scale (Stainless Steel)	Shipping Weight
2888P20000	30" x 30" (76.2 x 76.2 cm), 500-lb Capacity, Tread Plate	325 lb
2888P30000	30" x 30" (76.2 x 76.2 cm), 500-lb Capacity, Smooth Plate	325 lb
2888P22001	30" x 30" (76.2 x 76.2 cm), 1,000-lb Capacity, Tread Plate	325 lb
2888P32001	30" x 30" (76.2 x 76.2 cm), 1,000-lb Capacity, Smooth Plate	325 lb
2888P22011	36" x 36" (91.4 x 91.4 cm), 1,000-lb Capacity, Tread Plate	430 lb
2888P32011	36" x 36" (91.4 x 91.4 cm), 1,000-lb Capacity, Smooth Plate	430 lb
2888P22012	36" x 36" (91.4 x 91.4 cm), 2,500-lb Capacity, Tread Plate	430 lb
2888P32012	36" x 36" (91.4 x 91.4 cm), 2,500-lb Capacity, Smooth Plate	430 lb
2888P22021	42" x 42" (106.7 x 106.7 cm), 1,000-lb Capacity, Tread Plate	540 lb
2888P32021	42" x 42" (106.7 x 106.7 cm), 1,000-lb Capacity, Smooth Plate	540 lb
2888P22022	42" x 42" (106.7 x 106.7 cm), 2,500-lb Capacity, Tread Plate	540 lb
2888P32022	42" x 42" (106.7 x 106.7 cm), 2,500-lb Capacity, Smooth Plate	540 lb

Load Cells

Each DECKMATE floor scale includes four hermetically sealed, stainless steel load cells. They allow 100% end loading across any end of the scale. Each load cell is complete with an integral four-conductor, shielded, color-coded cable attached to a stainless steel junction box. The load cell suspension uses a stainless steel rocker pin between the cell and a fixed receiver in the frame (see Figure 1-1).

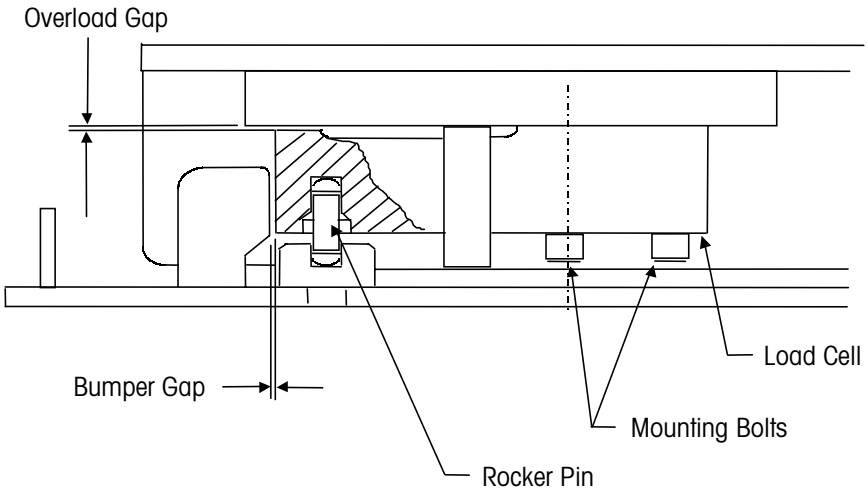


Figure 1-1: Load Cell Suspension Detail

Load Cell Specifications

Model number: 745/745A (744/744A for 250-lb load cells)

NTEP certificate of conformance number: 92-108 (91-030) for 500-/1250-lb load cells
91-089 (88-278) for 250-lb load cells

Maximum excitation voltage: 15 VDC or VAC rms

Recommended excitation voltage: 15 VDC

Full scale output: 2 mV/V

Input terminal resistance: 385 ohms minimum

Output terminal resistance: 350 $\pm$ 2 ohms

Temperature range compensation: -10°C to +40°C (+14°F to +104°F)

Safe side load: 100% of full load cell rating

Safe overload: 150% of full load cell rating

Scale Accuracy

Model 2888 DECKMATE floor scales meet or exceed the National Institute of Standards and Technology (NIST) Handbook 44 requirements for Class III 5,000 divisions.

Model 2888 DECKMATE floor scales are Measurement Canada approved for 5,000 divisions.

Platform Assembly

DECKMATE floor scales have a channel-reinforced deck with "live" side rails that are part of the weighing platform. This platform provides mounting for the four load cells, protection for the load cell cables, and mounting for the junction box (see Figure 1-2). It is available in mild steel or stainless steel with either a tread-plate or smooth-plate deck. The stainless steel platform with smooth-plate deck has a glass bead blast finish.

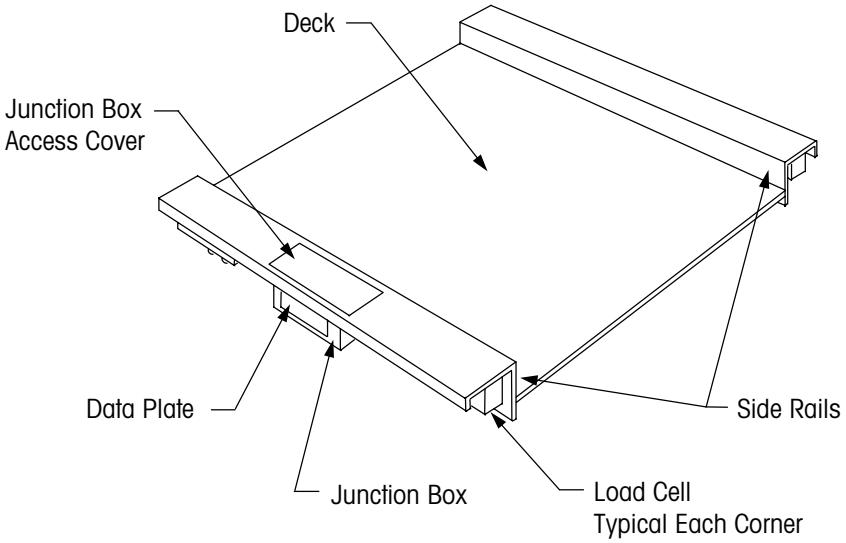


Figure 1-2: Platform Assembly

Support Frames for Standard Platform

Each standard DECKMATE platform has a support frame under it for maintaining the position of the platform (see Figure 1-3). The frame provides bars for mounting ramps at one or both ends of the scale.

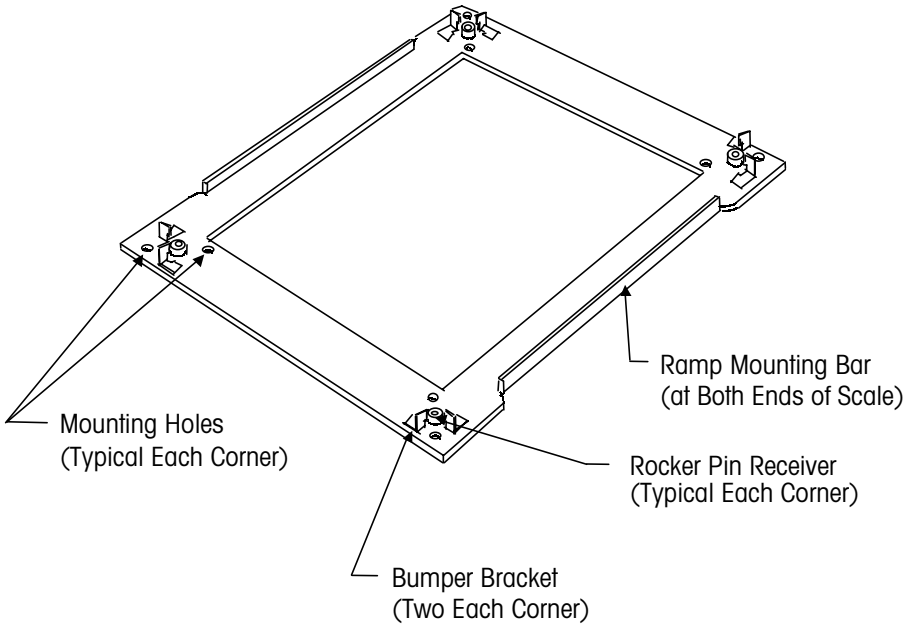


Figure 1-3: Support Frame

Portable Assembly

The support frame for the portable assembly is designed to make the scale easy to move from one weighing location to another (see Figure 1-4).

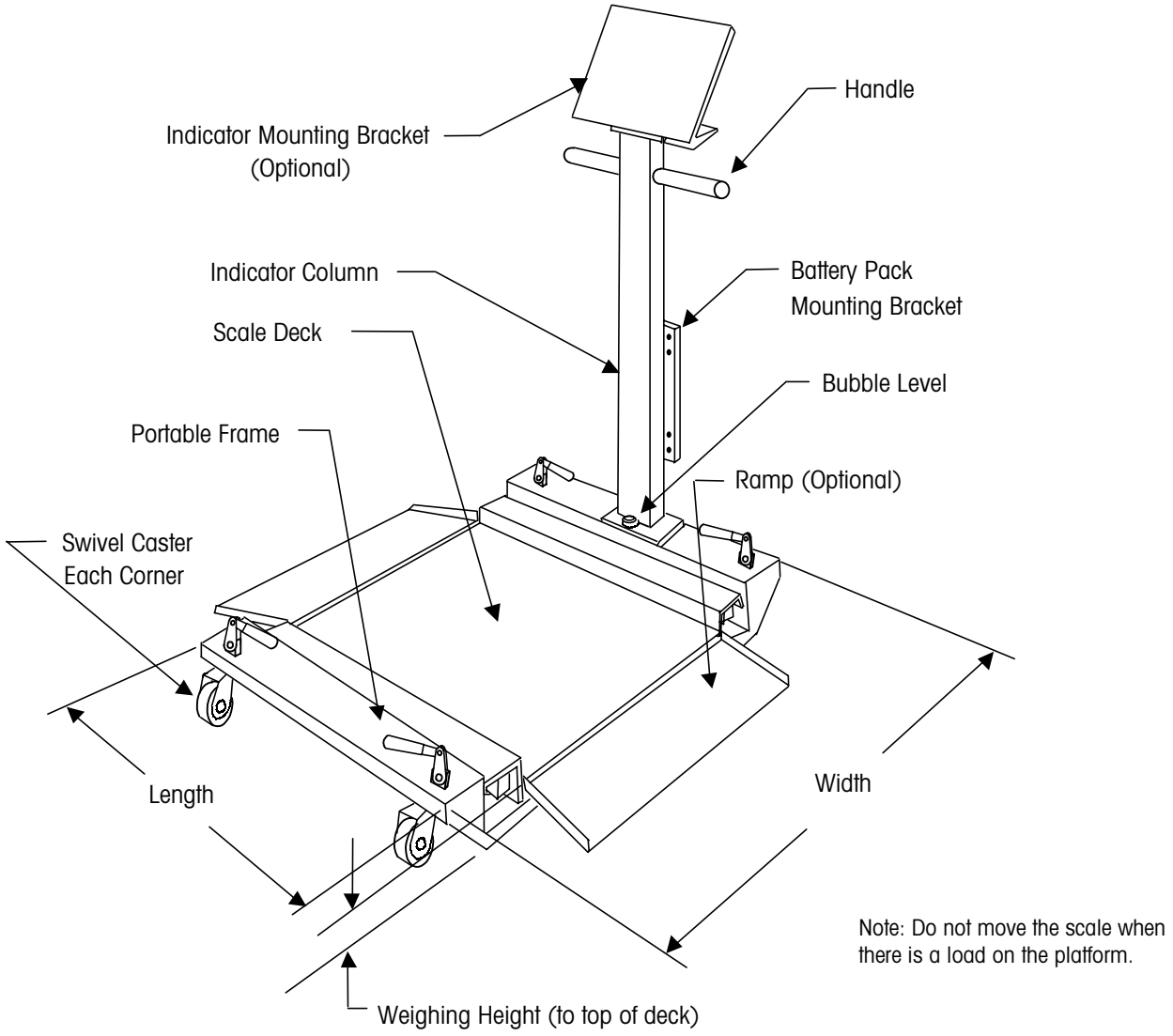


Figure 1-4: Portable Platform Assembly

Scale Deck	Length	Width	Weighing Height
30" x 30" (76.2 x 76.2 cm)	33.6" (85.4 cm)	46.1" (117.2 cm)	1.3" (3.3 cm)
36" x 36" (91.4 x 91.4 cm)	39.6" (100.6 cm)	53.4" (135.6 cm)	1.8" (4.7 cm)
42" x 42" (106.7 x 106.7 cm)	45.6" (115.9 cm)	59.4" (150.8 cm)	1.8" (4.7 cm)

Access Ramps

Mild steel and stainless steel access ramps are available for DECKMATE floor scales. These ramps provide access to the scale from one or both ends of the platform. The ramps for the static scale platform are attached to mounting bars located at the ends of the platform. The ramps for the portable assembly are hinged so that they can be folded up over the deck when the scale is being moved.

Model Number	Static Scale Ramp (Mild Steel)	Ramp Angle	Shipping Weight
88-110001	30" x 6" (76.2 x 15.2 cm) Tread Plate	9.8°	15 lb
88-110002	30" x 6" (76.2 x 15.2 cm) Smooth Plate	9.8°	15 lb
88-110003	30" x 12" (76.2 x 30.5 cm) Tread Plate	4.9°	25 lb
88-110004	30" x 12" (76.2 x 30.5 cm) Smooth Plate	4.9°	25 lb
88-110007	36" x 12" (91.4 x 30.5 cm) Tread Plate	7.0°	48 lb
88-110010	36" x 12" (91.4 x 30.5 cm) Smooth Plate	7.0°	48 lb
88-110012	36" x 18" (91.4 x 45.7 cm) Tread Plate	4.7°	53 lb
88-110014	36" x 18" (91.4 x 45.7 cm) Smooth Plate	4.7°	53 lb
88-110015	42" x 12" (106.7 x 30.5 cm) Tread Plate	7.0°	42 lb
88-110017	42" x 12" (106.7 x 30.5 cm) Smooth Plate	7.0°	42 lb
88-110019	42" x 18" (106.7 x 45.7 cm) Tread Plate	4.7°	61 lb
88-110204	42" x 18" (106.7 x 45.7 cm) Smooth Plate	4.7°	61 lb

Model Number	Portable Scale Ramp (Mild Steel)	Ramp Angle	Shipping Weight
88-130001	30" x 12" (76.2 x 30.5 cm) Tread Plate	5.8°	31 lb
88-130002	30" x 12" (76.2 x 30.5 cm) Smooth Plate	5.8°	31 lb
88-130003	30" x 18" (76.2 x 45.7 cm) Tread Plate	3.8°	45 lb
88-130004	30" x 18" (76.2 x 45.7 cm) Smooth Plate	3.8°	45 lb
88-130013	36" x 12" (91.4 x 30.5 cm) Tread Plate	8.0°	38 lb
88-130015	36" x 12" (91.4 x 30.5 cm) Smooth Plate	8.0°	38 lb
88-130017	36" x 18" (91.4 x 45.7 cm) Tread Plate	5.3°	55 lb
88-130019	36" x 18" (91.4 x 45.7 cm) Smooth Plate	5.3°	55 lb
88-130021	42" x 12" (106.7 x 30.5 cm) Tread Plate	8.0°	43 lb
88-130022	42" x 12" (106.7 x 30.5 cm) Smooth Plate	8.0°	43 lb
88-130024	42" x 18" (106.7 x 45.7 cm) Tread Plate	5.3°	62 lb
88-130025	42" x 18" (106.7 x 45.7 cm) Smooth Plate	5.3°	62 lb

Model Number	Static Scale Ramp (Stainless Steel)	Ramp Angle	Shipping Weight
88-110101	30" x 6" (76.2 x 15.2 cm) Tread Plate	9.8°	15 lb
88-110102	30" x 6" (76.2 x 15.2 cm) Smooth Plate	9.8°	15 lb
88-110103	30" x 12" (76.2 x 30.5 cm) Tread Plate	4.9°	25 lb
88-110104	30" x 12" (76.2 x 30.5 cm) Smooth Plate	4.9°	25 lb
88-110008	36" x 12" (91.4 x 30.5 cm) Tread Plate	7.0°	48 lb
88-110009	36" x 12" (91.4 x 30.5 cm) Smooth Plate	7.0°	48 lb
88-110011	36" x 18" (91.4 x 45.7 cm) Tread Plate	4.7°	53 lb
88-110013	36" x 18" (91.4 x 45.7 cm) Smooth Plate	4.7°	53 lb
88-110203	42" x 12" (106.7 x 30.5 cm) Tread Plate	7.0°	42 lb
88-110016	42" x 12" (106.7 x 30.5 cm) Smooth Plate	7.0°	42 lb
88-110018	42" x 18" (106.7 x 45.7 cm) Tread Plate	4.7°	61 lb
88-110200	42" x 18" (106.7 x 45.7 cm) Smooth Plate	4.7°	61 lb

Model Number	Portable Scale Ramp (Stainless Steel)	Ramp Angle	Shipping Weight
88-130101	30" x 12" (76.2 x 30.5 cm) Tread Plate	5.8°	31 lb
88-130102	30" x 12" (76.2 x 30.5 cm) Smooth Plate	5.8°	31 lb
88-130103	30" x 18" (76.2 x 45.7 cm) Tread Plate	3.8°	45 lb
88-130104	30" x 18" (76.2 x 45.7 cm) Smooth Plate	3.8°	45 lb
88-130012	36" x 12" (91.4 x 30.5 cm) Tread Plate	8.0°	38 lb
88-130009	36" x 12" (91.4 x 30.5 cm) Smooth Plate	8.0°	38 lb
88-130016	36" x 18" (91.4 x 45.7 cm) Tread Plate	5.3°	55 lb
88-130018	36" x 18" (91.4 x 45.7 cm) Smooth Plate	5.3°	55 lb
88-130020	42" x 12" (106.7 x 30.5 cm) Tread Plate	8.0°	43 lb
88-110202	42" x 12" (106.7 x 30.5 cm) Smooth Plate	8.0°	43 lb
88-130023	42" x 18" (106.7 x 45.7 cm) Tread Plate	5.3°	62 lb
88-110201	42" x 18" (106.7 x 45.7 cm) Smooth Plate	5.3°	62 lb

2 Inspection and Site Selection

Inspection

When the DECKMATE floor scale is delivered, visually inspect it for any damage that might have occurred during shipment and handling. Inspect the following areas:

1. Platform assembly
2. Load cell and suspension assemblies
3. Load cell cables
4. Load cell summing junction box
5. Overall platform assembly

If any damage is noted, contact your freight carrier immediately.

Site Selection

Many problems associated with floor scale installations are caused by improper site conditions. Before installing the scale, check the proposed location for the following conditions:

1. Is the floor or support at the location of the scale level?
2. Is the floor/support at each corner of the scale strong enough to maintain support throughout the entire weighing capacity of the scale?
3. Is there proper drainage away from the scale?
4. Are there any heavy vibrations or wind currents at or near the scale?
5. Will the scale be subjected to excessive or unusual loading due to the location or type of equipment used?

If the site is acceptable, proceed with the installation. If not, choose a new location or select another scale.

3 Installation

To install a 2888 DECKMATE portable scale, simply bolt the indicator mounting column to the scale frame, attach the indicator to the mounting bracket at the top of the column, and connect the indicator cable to the scale's junction box (see Figure 3-3 and Table 3-1 for wiring information).

Installation instructions for a 2888 DECKMATE static scale are given below.

Locate Scale

After inspecting the site, place the DECKMATE floor scale in the desired location.

Remove Platform

Remove the scale platform from the frame by lifting the platform straight up.

Anchor Frame

1. Locate the anchor holes in all four corners of the frame. There are a total of eight anchor holes, two holes per corner (see Figure 3-1).
2. Drill the anchor holes into the floor, using the frame as a guide. Eight flat head socket cap screws (1/2-13 UNC x 1.5" long) are required to secure the frame to the floor. The 1/2" anchors and 1/2-13 flat head screws are to be provided by others or can be purchased from METTLER TOLEDO. Drill anchor holes to the diameter and depth specified by the supplier.
3. All corners of the frame must be in contact with the floor and must be level within ±1/16". If the scale is out of level or if gaps exist between the frame and floor, shimming is required. Corner shims (1/16" thick) can be purchased from METTLER TOLEDO or fabricated using Figure 3-2 as a guide.
4. Secure the frame to the floor using the eight flat head anchor screws.

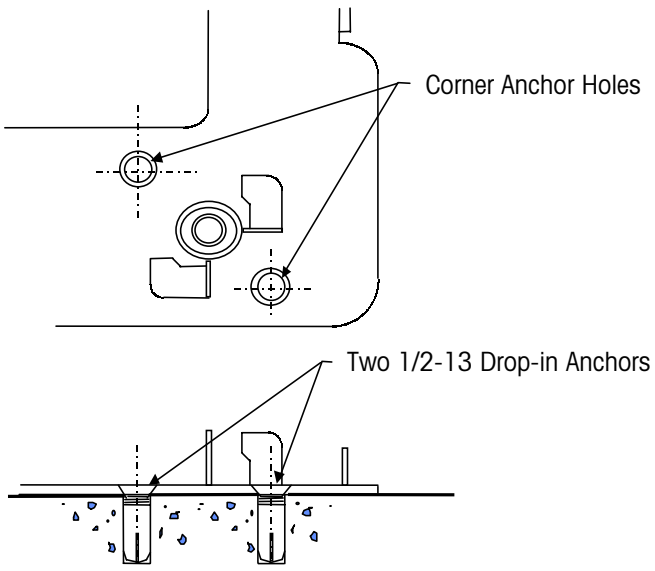


Figure 3-1: Frame Anchoring (Typical Each Corner)

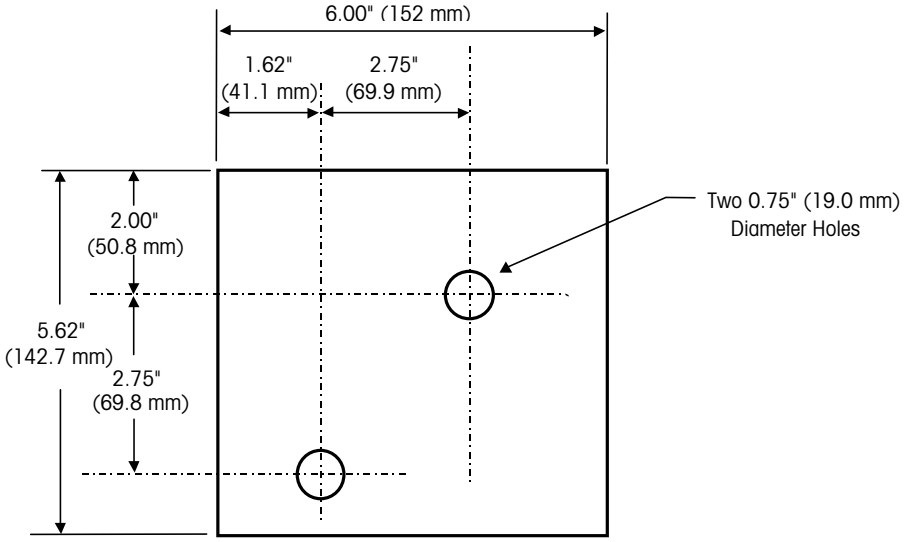


Figure 3-2: Leveling Shim Detail

Junction Box Wiring

The DECKMATE floor scale uses an analog junction box for summing the load cell outputs. Only analog-compatible indicators will work with the scale.

1. Remove the junction box cover from the top of the side rail on the platform.
2. Thread the instrument cable through the connector at the end of the junction box. Wire the cable to the seven-position terminal strip (see Figure 3-3 and Table 3-1).
3. Check all connections and place a desiccant bag inside the junction box.
4. Reinstall the junction box cover. Make sure the rubber gasket is clean and positioned correctly.
5. Tighten all screws and make sure all cord grip caps are tight.

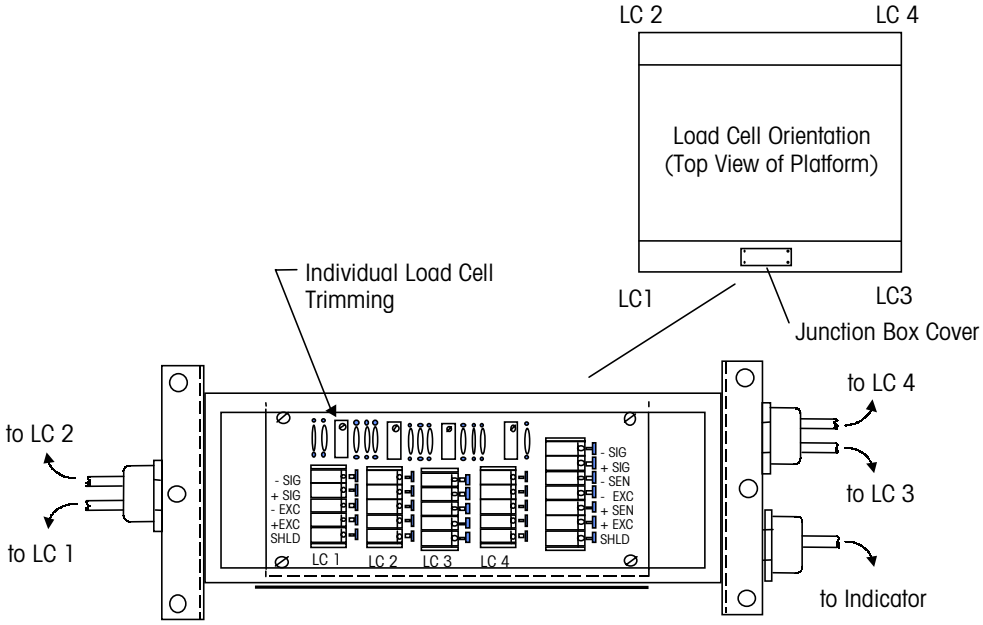


Figure 3-3: 2888 Analog Junction Box Detail

Load Cell Wiring		Analog Instrument Cable*	
Function	**Color**	**Function**	**Color**
+Excitation	Green	+Excitation	White
—	—	+Sense	Yellow
+Signal	White	+Signal	Green
Shield	Yellow	Shield	Orange
-Signal	Red	-Signal	Black
—	—	-Sense	Red
-Excitation	Black	-Excitation	Blue
*Instrument cable color code based on METTLER TOLEDO cable no. 510624370.			

Table 3-1: Analog Junction Box Wiring Codes

Reinstall Platform

1. Clear all debris from the scale area. Make sure that all four load pin receivers in the frame are clean and free of all foreign material.
2. Replace the platform into the frame. Make sure there is slack in the cable between the frame and platform and that no cable pinching occurs.
3. Move the platform back and forth in both directions to make sure that the rocker pins are seated in the receivers and there is no binding.
4. Calibrate the scale according to the METTLER TOLEDO indicator manual.

4 Optional Ramp Installation

Model 2888 DECKMATE ramps provide access from one or both ends of the scale. Select which end(s) of the platform will have a ramp attached to it, and install the ramps as described below.

Static Scales

1. Anchor the support frame to the floor before installing ramps on a static platform.
2. To install a ramp, place the mating end of the ramp over the ramp mounting bar (see figure 4-1).
3. Make sure that the ramp is stable. Shim under the corners of the ramp if required.

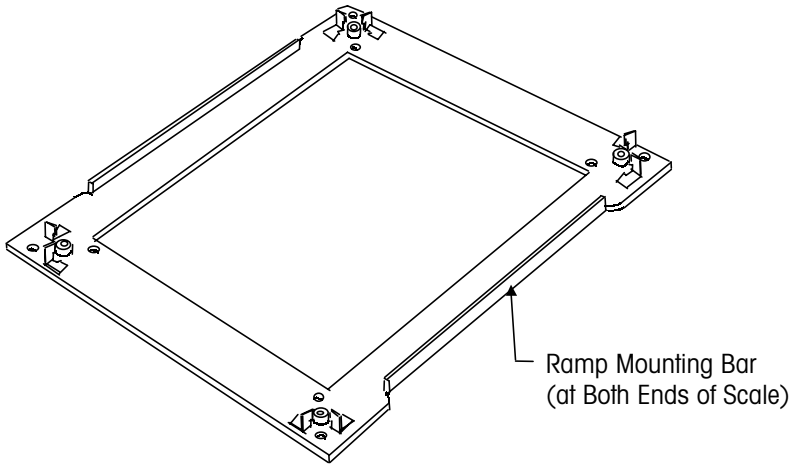


Figure 4-1: Support Frame

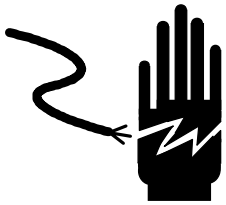
Portable Scales

The ramps for portable scales are hinged to the support frame. This allows you to fold the ramps on top of the deck when moving the scale from one location to another.

1. With the platform in the weighing position, fold the ramps down into place.
2. Make sure that the ramps are stable. Shim under the corners of the ramp if required.

5 Calibration

Shift Adjust



⚠ WARNING

PERMIT ONLY QUALIFIED PERSONNEL TO SERVICE THIS EQUIPMENT. EXERCISE CARE WHEN MAKING CHECKS, TESTS, AND ADJUSTMENTS THAT MUST BE MADE WITH POWER ON. FAILING TO OBSERVE THESE PRECAUTIONS CAN RESULT IN BODILY HARM.

When you shift adjust a scale, you are adjusting the output voltage (signal) of each load cell so that all load cells in the system produce a consistent signal. A correctly adjusted scale will give the same weight reading no matter where on the platform you place a test weight. Each DECKMATE floor scale is shift adjusted at the factory. For a new installation, the only adjustment that should be needed is minor load cell trimming.

After the scale has been installed and shimmed, check all mechanical parts to make sure that they work properly. Then check the scale's repeatability by placing a test weight on the same location on the platform several times to make sure that you get the same weight reading each time. After checking for repeatability, adjust the load cell trimming potentiometers as needed.

Analog Junction Box Shift Adjustment

Use the following procedure to trim the load cells:

1. Remove the junction box cover from the scale platform.
2. Figure 5-1 shows test weight locations at the centers of the four quadrants of the scale. Place a test weight equal to 1/2 of the rated scale capacity at location A and record the weight reading. Then move the test weight to location B and record the weight reading. Continue until you have taken a weight reading at each of the four locations.

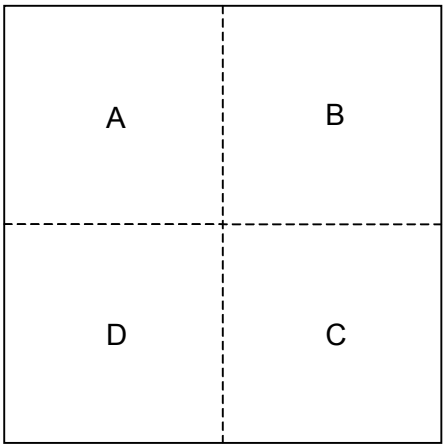


Figure 5-1: Test Weight Locations

3. Place the test weight at the location immediately clockwise from the location at which you got the lowest weight reading. Then adjust the trimming potentiometer for the load cell that corresponds to the corner of the scale where the test weight is positioned (see Figure 5-2). Make the adjustment by turning the potentiometer until the weight reading matches the lowest reading.

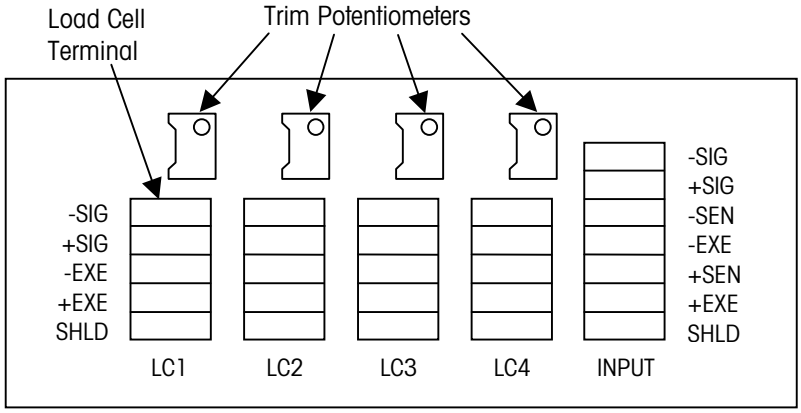


Figure 5-2: Load Cell Trimming Potentiometers

4. Proceeding clockwise, repeat the adjustment described in Step 3 for the next two test weight locations.

NOTE: Because the trimming potentiometers interact with each other, any adjustment will affect the weight readings at all four corners of the scale.

5. Repeat Steps 2 to 4 until the weight readings at all corners of the platform are the same or are within the specified National Institute of Standards and Technology (NIST) Handbook 44 Scale Accuracy Requirements.

6. Replace the junction box cover.

Scale Calibration

METTLER TOLEDO recommends calibrating the scale using test weights equal to the scale's capacity. Follow the calibration instructions in the manual provided with the digital indicator.

6 Routine Care and Maintenance

General

Once the scale has been installed, it should be inspected and calibrated periodically by an authorized METTLER TOLEDO representative. If the scale is used for legal-for-trade purposes, consult the local weights and measures authorities for minimum inspection requirements. Contact your local authorized METTLER TOLEDO service representative for information about periodic inspection and calibration services.

Site Inspection

Make sure that the scale site remains in good condition. Check for alterations in the surrounding floor, excessive vibrations, and possible overloading conditions.

Platform Inspection

During periodic inspections of the scale, check the following:

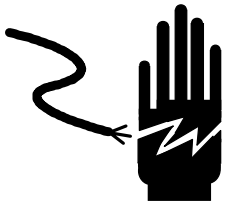
1. Are there any unusual wear points, paths, or marks on the weighing platform?
2. Is the scale frame bent or damaged?
3. Is the junction box lid properly sealed and all cable connectors tight against the enclosure?
4. Is there any moisture or foreign material around or inside the junction box assembly?
5. Is the instrument cable damaged or binding the scale?
6. Is there any debris or material build-up under or around the platform that could prevent the platform from moving freely?
7. Visually inspect the load cells, rocker pins, and fixed bumpers for signs of unusual wear.
8. Check repeatability and shift of the scale.

7 Troubleshooting

General

If the scale does not operate properly, find out as much about the problem as possible. Try to determine whether the problem is constant or intermittent. Mechanical and electrical influences can cause malfunctions, so be patient and use sound logic when troubleshooting.

When troubleshooting a DECKMATE floor scale, examine the scale's physical location. Check for the presence of water, corrosive materials, unlevel floors, high vibrations, air currents, or physical damage to the scale platform or frame. Also check the instrument cable for damage, and all connections for loose or improper wiring.



⚠ WARNING

PERMIT ONLY QUALIFIED PERSONNEL TO SERVICE THIS EQUIPMENT. EXERCISE CARE WHEN MAKING CHECKS, TESTS, AND ADJUSTMENTS THAT MUST BE MADE WITH POWER ON. FAILING TO OBSERVE THESE PRECAUTIONS CAN RESULT IN BODILY HARM.

⚠ CAUTION

BEFORE CONNECTING/DISCONNECTING ANY INTERNAL ELECTRONIC COMPONENTS OR INTERCONNECTING WIRING BETWEEN ELECTRONIC EQUIPMENT, ALWAYS REMOVE POWER AND WAIT AT LEAST THIRTY (30) SECONDS. FAILURE TO OBSERVE THESE PRECAUTIONS COULD RESULT IN BODILY HARM OR DAMAGE TO OR DESTRUCTION OF THE EQUIPMENT.

Isolate the Problem

Determine whether the problem is in the scale or the digital indicator.

1. Remove power from the system, and then disconnect the digital indicator from the scale.
2. Connect the digital indicator to a load cell simulator (analog simulator available from METTLER TOLEDO).
3. Reapply power and test the indicator. If the problem persists, consult the digital indicator manual for further troubleshooting assistance.
4. If the problem is NOT present with the load cell simulator attached to the indicator, remove power, disconnect the simulator, and reconnect the scale. If the problem persists, continue troubleshooting the scale.

Check Wiring

1. Remove power from the system.
2. Remove the junction box cover and check inside the junction box for moisture or foreign material.
3. Make sure that all wiring connections are tight and that no insulation material is touching the terminal contacts.
4. Check all cable connections for correct wiring. The wiring color codes are given in Table 7-1:

Load Cell Wiring		Analog Instrument Cable*	
Function	**Color**	**Function**	**Color**
+Excitation	Green	+Excitation	White
—	—	+Sense	Yellow
+Signal	White	+Signal	Green
Shield	Yellow	Shield	Orange
-Signal	Red	-Signal	Black
—	—	-Sense	Red
-Excitation	Black	-Excitation	Blue
*Instrument cable color code based on METTLER TOLEDO cable no. 510624370.			

Table 7-1: Load Cell Wiring Color Codes

5. Check all cable connectors and cord grip caps on the junction box.
6. Tighten any loose connectors.

Check Load Cells

1. Remove power from the system. Fully disconnect each load cell and check for proper input/output resistances (see Table 7-2).

Measuring Points	Resistance
Any lead to shield or ground	Infinity
+Exc (Green) to -Exc (Black)	385 ohms minimum
+Sig (White) to –Sig (Red)	348-352 ohms

Table 7-2: Load Cell Measuring Points

2. If resistance is within specification, perform a shorted-signal symmetry test.
   - Short the signal leads together and place one multimeter lead on the shorted signals and one lead on the +Excitation wire. Note the resistance value.
   - Remove the lead from the +Excitation wire and place it on the –Excitation wire. The two resistance values should be approximately equal.
3. If the load cells pass the shorted-signal test, reconnect them and reapply power to the scale. Confirm that the proper excitation voltage is reaching the load cells by placing multimeter leads on the excitation positions of each load cell terminal.
4. If proper excitation voltage is reaching the load cells, check the output signal from each cell by disconnecting the signal leads and measuring voltage output. If one cell has a particularly high or low dead-load output, it is suspect. The maximum output possible from any cell is 30 mV at 15 VDC excitation and loaded to gross capacity.
5. If any load cell has an unusual signal, remove all load from that cell.

   Note: Remove signal leads from terminals to measure output.

   - With the power on, measure the output from the suspect load cell. The no-load zero output should be ± 1.5% of the full scale output. For example, if the excitation voltage is 15 VDC, then the full scale output would be 30 mV and the no-load zero output should be within ± 0.45 mV.
6. If a load cell fails any of the above tests, replace it.

Check Mechanical Components

Because the DECKMATE design is so simple, there are only a few mechanical components to troubleshoot. Make sure that the platform can move freely and that the load cells are not resting against the fixed bumpers. If the load cells touch the fixed bumpers when there is no motion in the scale platform, check the following:

1. The platform should be level and should not rock. Otherwise, shimming may be required.
2. Check the rocker pins for unusual wear. Replace any rocker pins that are unevenly worn or have flattened bearing surfaces.
3. Examine the rocker pin receivers in the frame. If the bearing surface is sunken, depressed, or unevenly worn, replace the frame.
4. If the fixed bumpers on the frame are excessively worn or damaged, the entire frame should be replaced.
5. Inspect the platform and frame for physical damage. Replace any platform or frame that is bent or has broken welds.
6. Verify that the load cell overload stop gap is set properly:

Load Cell Capacity	Overload Stop Gap
250 lb	0.009" to 0.012"
500 lb	0.009" to 0.015"
1,250 lb	0.012" to 0.018"

Load Cell Replacement

1. Remove power to the digital indicator and disconnect the instrument cable.
2. Remove the junction box cover and locate the defective load cell terminal.
3. Disconnect the defective load cell cable from its terminal on the summing PCB.
4. Loosen the cable connector on the junction box and remove the cable from the enclosure.

Note: The instrument cable may need to be removed from the junction box to allow the platform to be removed.

5. Carefully remove the deck from the support frame. Position the deck upside down on a stable surface that allows access to the defective load cell and cable as well as offering protection to the other load cells during disassembly.
6. Attach a string to the end of the defective load cell's cable. The string should be long enough and strong enough to pull the new load cell's cable through the platform structure.
7. Remove the two load cell mounting screws and keep them for reinstalling the new load cell. Use a 3/8" hex Allen socket wrench to remove the 1/2-13 UNC load cell mounting screws. Then lift the load cell from the mounting surface.

8. Carefully pull the defective load cell's cable through the platform while feeding the string in at the junction box opening. Once the string is at the load cell location, detach it from the load cell cable.
9. Remove the rocker pin with O-rings from the defective load cell. Reinstall it in the new load cell.
10. Attach the new load cell's cable to the pulling string and carefully thread it through the platform into the junction box opening. Coil any excess cable and store it within the platform side channel.

Note: Make sure load cell and platform mounting surfaces are free of grease and other foreign materials.

11. Mount the new load cell to the platform. Apply an anti-seize compound such as Never-Seez to the threads of the mounting screws and tighten with a calibrated torque wrench to 100 ft-lb (mild steel scales) or 75 ft-lb (stainless steel scales).
12. Verify that the load cell overload stop gap is set properly:

Load Cell Capacity	Overload Stop Gap
250 lb	0.009" to 0.012"
500 lb	0.009" to 0.015"
1,250 lb	0.012" to 0.018"

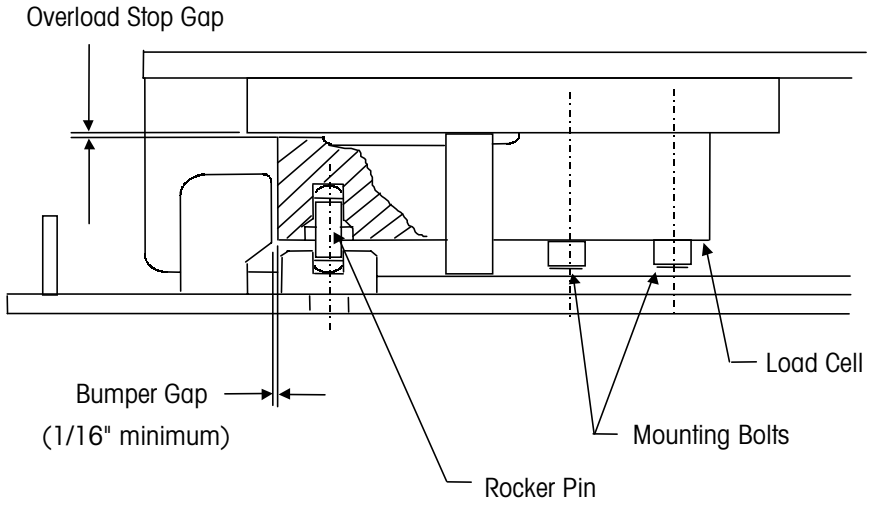


Figure 7-1: Load Cell Installation

Note: It might be necessary to apply a small amount of lubricant to the cable so that it passes easily through the double-hole cord grip.

13. Thread the load cell cable through the connector on the junction box. When enough cable is inside the box, tighten the connector.
14. Wire the new load cell cable to the proper terminal on the PCB according to the wiring codes shown in Chapter 3.
15. Reinstall the deck in the frame. Make sure that the rocker pins are properly seated and aligned with the receivers in the frame.
16. Reconnect the instrument cable and power-up the indicator. Perform a shift adjust and recalibrate the scale.

Swivel Caster Replacement

1. Remove the defective caster by unscrewing it from the clamp assembly.
2. Apply Loctite 262 to the threads of the new caster.
3. Screw the new caster into the clamp assembly and tighten it.

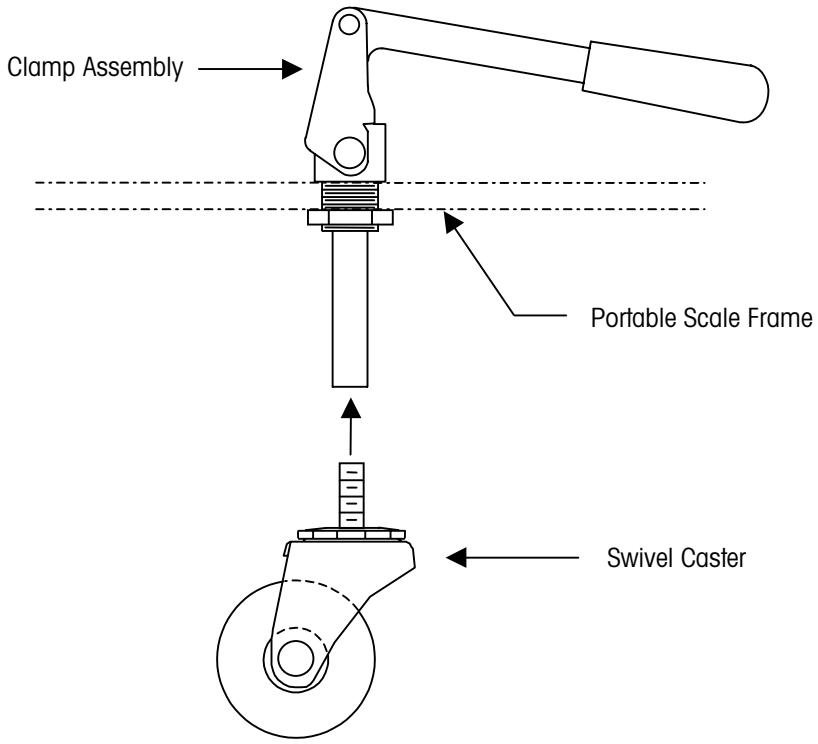


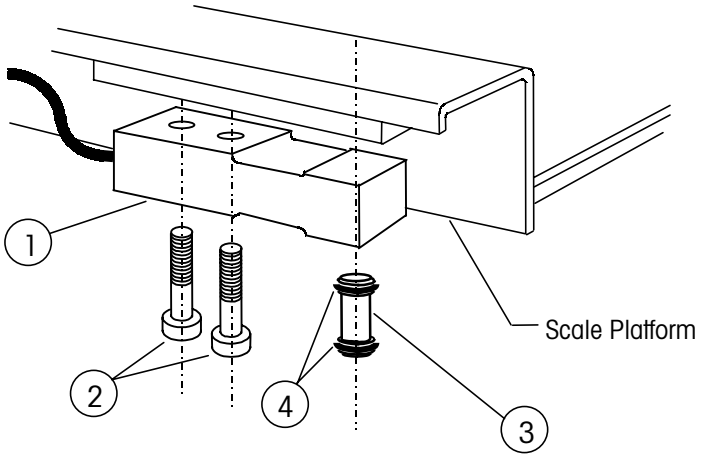
Figure 7-2: Swivel Caster and Clamp Assembly

8 Service Parts

Load Cell and Suspension Parts

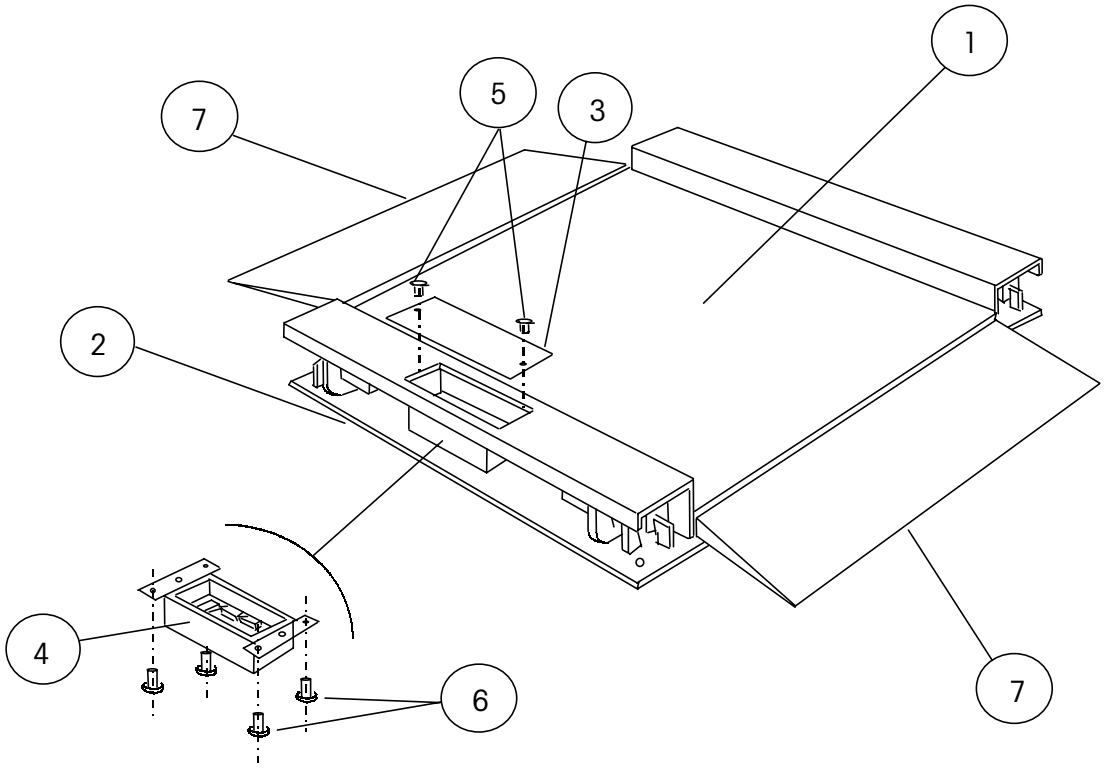
Note: Proper overload gap:
250-lb cell - 0.009" to 0.012"
500-lb cell - 0.009" to 0.015"
1,250-lb cell - 0.012" to 0.018"

Note: Torque load cell bolts to 100 ft-lb (1K-5K cells) or 250 ft-lb (10K cells).



Ref. No.	Part Number	Description	Qty.
1	TB600488-3 TB600529-1 TB600529-2 TB600363-1	250-lb load cell (5,000d) with 7.5-foot cable 500-lb load cell (5,000d) with 4-foot cable 500-lb load cell (5,000d) with 7.5-foot cable 1250-lb load cell (5,000d) with 7.5-foot cable	4
2	TN800647 TN800646	1/2-13 bolt x 1.75" long, black oxide 1/2-13 bolt x 1.75" long, stainless steel	8
3	TN200050	Rocker pin	4
4	MZ0909000005	O-ring	8

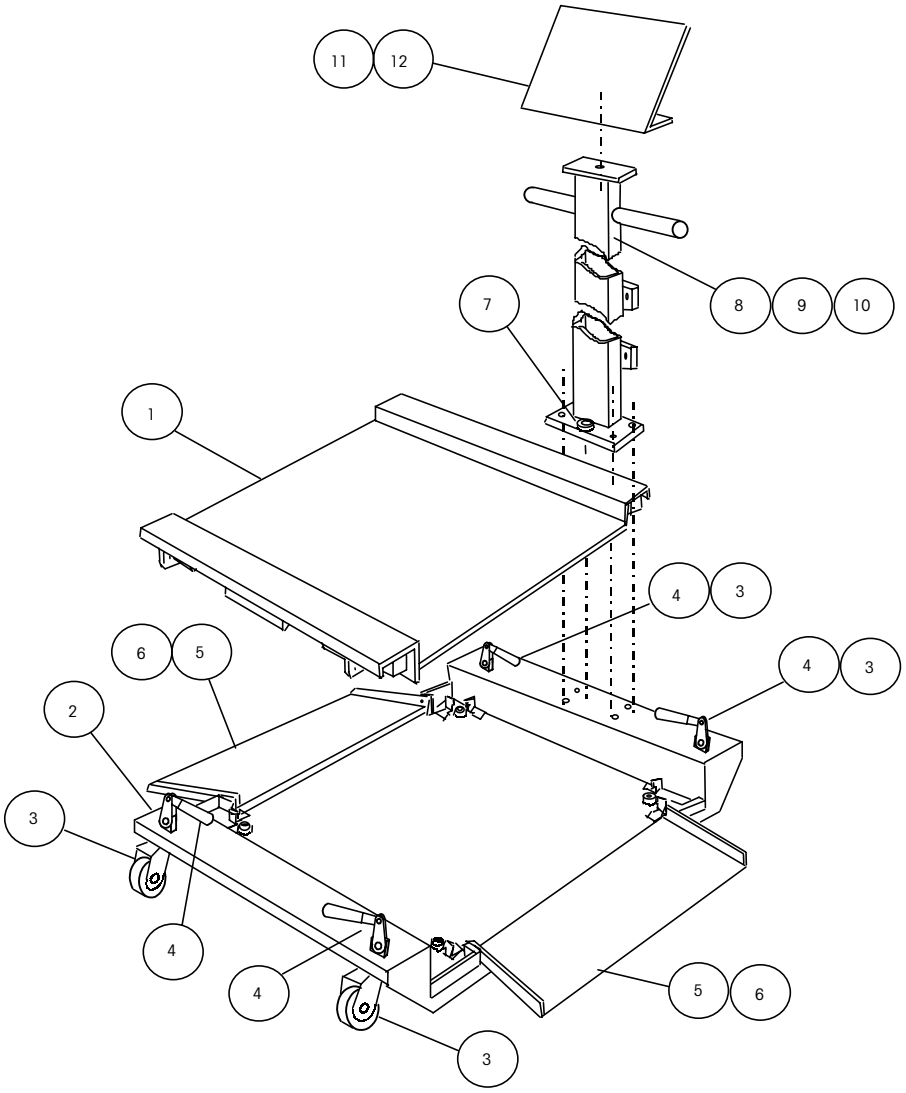
Static Scale Parts



Ref. No.	Part Number	Description	Qty.
1	TC202770-1	Platform, Mild Steel Tread Plate (30" x 30")	1
	TC202770-2	Platform, Mild Steel Smooth Plate (30" x 30")	
	TC202780-1	Platform, Stainless Steel Tread Plate (30" x 30")	
	TC202780-2	Platform, Stainless Steel Smooth Plate (30" x 30")	
	TB204328-1	Platform, Mild Steel Tread Plate (36" x 36")	
	TB204328-2	Platform, Mild Steel Smooth Plate (36" x 36")	
	TB204327-1	Platform, Stainless Steel Tread Plate (36" x 36")	
	TB204327-2	Platform, Stainless Steel Smooth Plate (36" x 36")	
	TB203677-1	Platform, Mild Steel Tread Plate (42" x 42")	
	TB203677-2	Platform, Mild Steel Smooth Plate (42" x 42")	
	TB203809-1	Platform, Stainless Steel Tread Plate (42" x 42")	
	TB203809	Platform, Stainless Steel Smooth Plate (42" x 42")	
2	TB202771	Frame, Mild Steel (30" x 30")	1
	TB202781	Frame, Stainless Steel (30" x 30")	
	TB204340-CS	Frame, Mild Steel (36" x 36")	
	TB204340-SS	Frame, Stainless Steel (36" x 36")	
	TB203595-CS	Frame, Mild Steel (42" x 42")	
	TB203595-SS	Frame, Stainless Steel (42" x 42")	
3	TN203054	Junction Box Lid, Mild Steel Scale (30" x 30")	1
	TN203055	Junction Box Lid, Stainless Steel Scale (30" x 30")	
	TN203588-CS	Junction Box Lid, Mild Steel Scale (36" x 36", 42" x 42")	
	TN203588-SS	Junction Box Lid, Stainless Steel Scale (36" x 36", 42" x 42")	
4	TB100520	Junction Box Assembly Consists of: *14378800A Analog PCB TA800218 Desiccant Pack	1
5	TN100524	10-32 Flat Head Screw x 5/8" long, SS	2
6	MZ0901010407	10-32 Phillips Head Screw x 3/16" long, SS	4
7	TA204424-MT	Ramp 30" x 6" (Optional), Mild Steel Tread Plate	varies
	TA204424-MS	Ramp 30" x 6" (Optional), Mild Steel Smooth Plate	
	TA204427-ST	Ramp 30" x 6" (Optional), Stainless Steel Tread Plate	
	TA204427-SS	Ramp 30" x 6" (Optional), Stainless Steel Smooth Plate	
	TA204425-MT	Ramp 30" x 12" (Optional), Mild Steel Tread Plate	
	TA204425-MS	Ramp 30" x 12" (Optional), Mild Steel Smooth Plate	
	TA204428-ST	Ramp 30" x 12" (Optional), Stainless Steel Tread Plate	
	TA204428-SS	Ramp 30" x 12" (Optional), Stainless Steel Smooth Plate	
	TA204357-MT	Ramp 36" x 12" (Optional), Mild Steel Tread Plate	
	TA204357-MS	Ramp 36" x 12" (Optional), Mild Steel Smooth Plate	
	TA204356-ST	Ramp 36" x 12" (Optional), Stainless Steel Tread Plate	
	TA204356-SS	Ramp 36" x 12" (Optional), Stainless Steel Smooth Plate	
	TA204355-MT	Ramp 36" x 18" (Optional), Mild Steel Tread Plate	
	TA204355-MS	Ramp 36" x 18" (Optional), Mild Steel Smooth Plate	
	TA204354-ST	Ramp 36" x 18" (Optional), Stainless Steel Tread Plate	
	TA204354-SS	Ramp 36" x 18" (Optional), Stainless Steel Smooth Plate	
	TA204392-MT	Ramp 42" x 12" (Optional), Mild Steel Tread Plate	
	TA204392-MS	Ramp 42" x 12" (Optional), Mild Steel Smooth Plate	
	TA204391-ST	Ramp 42" x 12" (Optional), Stainless Steel Tread Plate	
	TA204391-SS	Ramp 42" x 12" (Optional), Stainless Steel Smooth Plate	
	TA204390-MT	Ramp 42" x 18" (Optional), Mild Steel Tread Plate	
	TA204390-MS	Ramp 42" x 18" (Optional), Mild Steel Smooth Plate	
	TA204389-ST	Ramp 42" x 18" (Optional), Stainless Steel Tread Plate	
	TA204389-SS	Ramp 42" x 18" (Optional), Stainless Steel Smooth Plate	

* May have an alpha prefix.

Portable Scale Parts



Ref. No.	Part Number	Description	Qty.
1	----------	Same as Static Platform	
2	*TC202772	Portable Frame, Mild Steel (30" x 30")	1
	*TC202782	Portable Frame, Stainless Steel (30" x 30")	
	*TB204336	Portable Frame, Mild Steel (36" x 36")	
	*TB204335	Portable Frame, Stainless Steel (36" x 36")	
	*TC204110	Portable Frame, Mild Steel (42" x 42")	
	*TC203911	Portable Frame, Stainless Steel (42" x 42")	
3	TN202939	Swivel Caster	4
4	TN202579	Straight-Line Action Clamp	4
	TN202630	Straight-Line Action Clamp, SS	
5	TA204415-MT	Ramp 30" x 12" (Optional), Mild Steel Tread Plate	Varies
	TA204415-MS	Ramp 30" x 12" (Optional), Mild Steel Smooth Plate	
	TA204414-ST	Ramp 30" x 12" (Optional), Stainless Steel Tread Plate	
	TA204414-SS	Ramp 30" x 12" (Optional), Stainless Steel Smooth Plate	
	TA204413-MT	Ramp 30" x 18" (Optional), Mild Steel Tread Plate	
	TA204413-MS	Ramp 30" x 18" (Optional), Mild Steel Smooth Plate	
	TA204412-ST	Ramp 30" x 18" (Optional), Stainless Steel Tread Plate	
	TA204412-SS	Ramp 30" x 18" (Optional), Stainless Steel Smooth Plate	
	TA204348-MT	Ramp 36" x 12" (Optional), Mild Steel Tread Plate	
	TA204348-MS	Ramp 36" x 12" (Optional), Mild Steel Smooth Plate	
	TA204347-ST	Ramp 36" x 12" (Optional), Stainless Steel Tread Plate	
	TA204347-SS	Ramp 36" x 12" (Optional), Stainless Steel Smooth Plate	
	TA204344-MT	Ramp 36" x 18" (Optional), Mild Steel Tread Plate	
	TA204344-MS	Ramp 36" x 18" (Optional), Mild Steel Smooth Plate	
	TA204343-ST	Ramp 36" x 18" (Optional), Stainless Steel Tread Plate	
	TA204343-SS	Ramp 36" x 18" (Optional), Stainless Steel Smooth Plate	
	TA204399-MT	Ramp 42" x 12" (Optional), Mild Steel Tread Plate	
	TA204399-MS	Ramp 42" x 12" (Optional), Mild Steel Smooth Plate	
	TA204400-ST	Ramp 42" x 12" (Optional), Stainless Steel Tread Plate	
	TA204400-SS	Ramp 42" x 12" (Optional), Stainless Steel Smooth Plate	
	TA204397-MT	Ramp 42" x 18" (Optional), Mild Steel Tread Plate	
	TA204397-MS	Ramp 42" x 18" (Optional), Mild Steel Smooth Plate	
	TA204398-ST	Ramp 42" x 18" (Optional), Stainless Steel Tread Plate	
	TA204398-SS	Ramp 42" x 18" (Optional), Stainless Steel Smooth Plate	
6	TA202918-1	Ramp Mounting Kit (per Ramp)	1
7	TN201817	Bubble Level	1
8	TB202616	Instrument Column, Mild Steel	1
	TB202618	Instrument Column, Stainless Steel	
9	----------	Column Mounting Hardware:	
	MZ0901010076	3/8-16 Hex Head Screw x 1.25" long, SS	4
	MZ0901030060	3/8 Flat Washer, SS	8
	MZ0901030076	3/8 Lock Washer, SS	4
	MZ0901020016	3/8-16 Hex Nut, SS	4
10	----------	Battery Pack Mounting Hardware	
	MZ0901010250	1/4-20 Hex Head Screw x 0.38" long, SS	4
	MZ0901030069	1/4 Lock Washer, SS	4
11	----------	Instrument Bracket	
12	TN202610	Black Thermoplastic Knob	1

* TN800569 Safety Label must be attached to portable frames.

9 Reference Material

Reference Drawings

Scale Capacity	Static Scale	Portable Scale
500, 1000, and 2500 lb 600 and 1500 kg	TC202768	TC202769

Recommended Spare Parts

For part numbers refer to Chapter 8.

Quantity	Description
1	Load cell (capacity of load cell depends on scale capacity)
1	Junction box circuit board
1	Junction box desiccant bag
1	Rocker pin
2	Rocker pin O-ring
1	Swivel caster

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Publication Suggestion Report

If you have suggestions concerning this publication, please complete this form and fax it to (614) 841-7295

Publication Name: 2888 DECKMATE Floor Scales Installation and Service Manual

Publication Part Number: A14859700A **Publication Date: 2/01**

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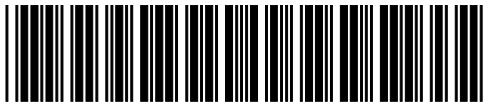

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