

DeckHand™

Portable Floor Scale

Installation and Service Manual



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1.0 Introduction

DeckHand™ Portable Floor Scales are fully electronic, NTEP-certified scales. Available in painted steel or stainless steel construction, these rugged scales come in 500 lb, 1000 lb, and 2000 lb capacities and allow for one-person portability on large rubber wheels.

The heavy diamond-tread platform is 30-1/2 in x 24-1/4 in (77 cm x 62 cm) with an overall base height of only 4 1/2 in (11 cm). The addition of an optional low-angle ramp allows one person to easily roll on a barrel or wheel on a hand truck. The free-floating ramp pivots back over the deck and rests on the mast for compact storage or balanced portability.



Figure 1-1. Optional Pivoting Ramp and Indicator

An efficient off-center arrangement of two high-capacity, single-point load cells yields Legal for Trade accuracy. Electronic components are double-protected from rough use. A RoughDeck™ stainless steel NEMA 4X junction box is further protected by mounting within the mast. The optional indicator mounts on a swivel bracket high enough on the 59 in (1.50 m) mast to clear the tallest loads.

In addition to ramps, available options include indicator brackets for the 480/480 Plus, 482/482 Plus, 880/880Plus, and 680 Synergy series indicators. Other indicators can be readily mast-mounted with slight modifications.



Manuals and additional resources are available from the Rice Lake Weighing Systems website at www.ricelake.com

Warranty information can be found on the website at www.ricelake.com/warranties

1.1 Safety

Safety Signal Definitions:



DANGER Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. Includes hazards that are exposed when guards are removed.



WARNING Indicates a potentially hazardous situation that, if not avoided, could result in serious injury or death. Includes hazards that are exposed when guards are removed.



CAUTION Indicates a potentially hazardous situation that, if not avoided, could result in minor or moderate injury.



IMPORTANT Indicates information about procedures that, if not observed, could result in damage to equipment or corruption to and loss of data.

General Safety



Do not operate or work on this equipment unless this manual has been read and all instructions are understood. Failure to follow the instructions or heed the warnings could result in injury or death. Contact any Rice Lake Weighing Systems dealer for replacement manuals.



Failure to heed could result in serious injury or death.

Before attempting to operate this unit, make sure every individual who operates or works with this unit has read and understands the following safety information.

Failure to heed may result in serious injury or death.

DO NOT allow minors (children) or inexperienced persons to operate this unit.

DO NOT operate without all shields and guards in place.

DO NOT jump on the scale.

DO NOT use for purposes other than weight taking.

DO NOT place fingers into slots or possible pinch points.

DO NOT use any load bearing component that is worn beyond 5% of the original dimension.

DO NOT use this product if any of the components are cracked.

DO NOT exceed the rated load limit of the unit.

DO NOT make alterations or modifications to the unit.

DO NOT remove or obscure warning labels.

DO NOT use near water.

Before opening the unit, ensure the power cord is disconnected from the outlet.

Keep hands, feet and loose clothing away from moving parts.

1.2 Operating Requirements

Electrical Grounding

Rolling or wheeling loads onto the scale can build up large static charges that may damage the attached indicator unless it is properly grounded to prevent ESD. This is especially true in dry environments where charges drain off slowly, or if wheeling on materials which already contain a static charge, like rolls of paper or plastic film material that have been recently spooled.

IMPORTANT

To prevent ESD damage, the indicator requires a three-prong 120 VAC outlet plug with continuous earth ground. Do not attempt to use the scale with two-prong 120 VAC power without a ground.

Load Cell Excitation

Rated Excitation: 10 VDC

Maximum Excitation: 15 VDC

mV/V Signal Output: 2 mV/V

Grade Level Requirements

The bubble level built into the platform should indicate a level condition in use. On uneven floors, place temporary shims under feet not contacting the floor.

Safe Static Overloading Capacity

Maximum: 150% of scale capacity

2.0 Installation

2.1 Overview

Assembly of the scale consists of the following steps:

1. Unpacking ([Section 2.2](#))
2. Installing optional pivoting ramp ([Section 2.3](#))
3. Mounting and wiring the mast and indicator ([Section 2.4 on page 5](#))
4. Configuring the indicator ([Section 2.5 on page 6](#))
5. Calibrating the unit with test weights. ([Section 2.6 on page 6](#))

2.2 Unpacking

The standard scale, with no added options, is shipped with load cells and indicator cable pre-wired into the junction box on the mast. The indicator can be mounted and wired after the mast is in place.

Remove all packing material and inspect base and mast components for visible damage caused during shipment.

2.3 Installing Optional Pivoting Ramp

If the optional ramp is to be installed, set it flat on the floor in position in front of the scale so the holes in the base align with the holes in the ramp pivot arms.

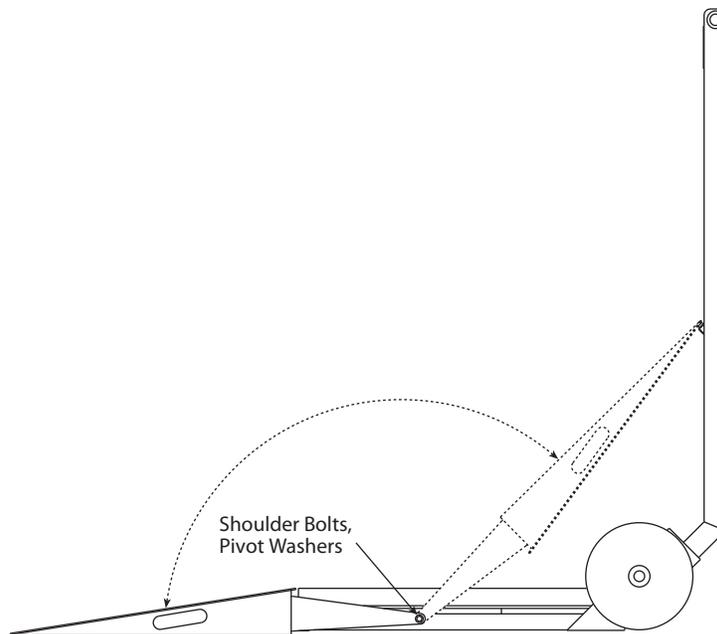


Figure 2-1. Pivoting Ramp

Insert a shoulder bolt with a single washer through an arm pivot hole. Slide three plastic pivot washers onto the bolt for clearance between the arm and the base (See [Figure 3-5 on page 11](#)). After the bolt engages the threads in the base, tighten the shoulder bolt snugly. Repeat for the other side.

2.4 Mounting and Wiring the Mast and Indicator

Reference [Figure 4-1 on page 12](#) for graphic of DeckHand parts.

2.4.1 Assembling Mast to Base

Remove back plate from mast. Carefully insert mast into window in base. Align holes and secure with fasteners. Wrap excess cable around hooks in mast. Re-assemble back plate to mast.

2.4.2 Attaching Indicator Bracket to Mast

The DeckHand is supplied with a swivel bracket for a variety of RLWS indicators. If using a different bracket, bolt it onto the mounting plate on the mast with the bolts, washers, and nuts provided.

Set the two large plastic pivot washers provided near the thumbscrew bolts used to hold the indicator in the bracket. Put the bolts and washers within close reach of the bracket—they are needed for the next step.

2.4.3 Mounting the Indicator

Spread the bracket arms enough to slide the indicator between the bracket arms. Line up the bracket holes with the threaded enclosure holes as in [Figure 2-2](#). Slide a plastic pivot washer between each arm and the indicator enclosure at the holes.

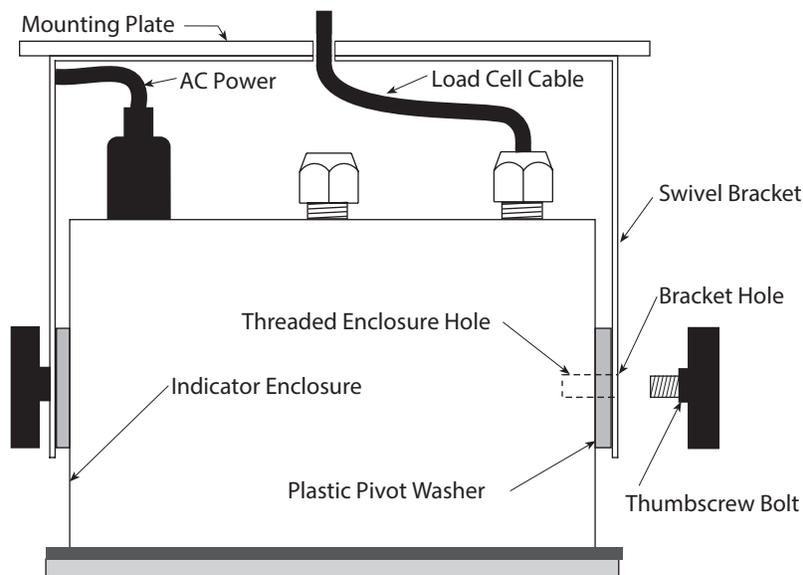


Figure 2-2. Top View of Indicator and Bracket

Insert the thumbscrew bolts through the bracket arms, through the washers, and into the threaded holes of the indicator enclosure. Tighten bolts snugly so the indicator remains at the desired viewing angle.

2.4.4 Wiring Load Cell Cable to Indicator

The load cell cable from the J-box is pre-wired to the indicator terminal inside the j-box. Attach the loose end of this cable to the indicator's load cell input terminal according to the corresponding pin functions on the j-box indicator terminal. When completed, tighten the cord grip around the cable where it passes through the indicator case.

2.5 Configuring the Indicator

Refer to the indicator manual for information on configuring the indicator for your application.

If using the DeckHand for a Legal for Trade application, do not configure the indicator for more divisions than the NTEP Class III maximums below:

Scale Capacity	NTEP Maximum Divisions
500 lb	2500 divisions
1000/2000 lb	2000 divisions

Table 2-1. NTEP Class III Maximum Divisions

The following sample configuration parameters will yield those maximum divisions:

Scale Capacity	500 lb	1000 lb	2000 lb
Grads	25,000	20,000	20,000
Decimal Point	0.00	0.00	0.0
Display Divisions	2	5	1
Units	Pounds (lb)	Pounds (lb)	Pounds (lb)

Table 2-2. Sample Configuration

2.6 Calibrating with Test Weights

Refer to the indicator operating manual to determine correct calibration procedure. Before beginning calibration, put the scale in the same temperature environment where it will be used. Power up the indicator so it can warm up for at least 20 minutes before starting calibration. The scale should be “exercised” before calibration to be certain that everything is seated. Load the scale to near capacity two or three times.

The following test weights are recommended for the most accurate calibration of the various models:

Scale Capacity	500 lb	1000 lb	2000 lb
Test Weights (75%)	375 lb	750 lb	1500 lb

Table 2-3. Sample Configuration

2.6.1 Calibration Procedure

1. Place scale on level surface and remove all load from scale.
2. Place the indicator in calibration mode and do a zero calibration according to the indicator manual.
3. Place test weights on the platform equal to the value shown in [Table 2-3](#) (75% of the scale's capacity).
4. Do a span calibration according to the indicator manual.
5. Remove the test weights and check the zero reading.
6. Repeat the calibration process if necessary.

The calibrated DeckHand scale is now ready for operation.

3.0 Service Information

3.1 Troubleshooting Guide

Symptom	Possible Problem	Solution
System does not operate—no display	Power disconnected	Check and reconnect
	Indicator fuse blown	Check for cause. Replace
	Interface cable cut or disconnected	Repair
	Signal leads incorrectly connected at indicator	Install according to indicator installation manual
Display stays at zero	Indicator faulty	Service indicator
	Load cell connections faulty	Check cable connections in junction box and at indicator
	Load cell overload screws turned fully in	Loosen overload screws to 0.020" gap
Erratic weights	Vibration near scale	Remove source of vibration or increase digital filtering
	Platform not level	Level scale by shimming if necessary
	Load cell or cable water damage	Replace
	Debris under load cells or platform	Clean
	Indicator faulty	Use simulator to test indicator for stability; Service indicator
Consistently high or low weights	Indicator not properly adjusted to zero	Zero the indicator according to operating manual
	Platform binding	Obtain adequate clearance for free platform movement
	Indicator not calibrated	Calibrate according to indicator manual and Section 2.6 on page 6
	Load cells cables pinched between platform and base	Reroute cables to provide clearance
	Load cells faulty	Test and replace load cells if necessary

Table 3-1. Troubleshooting

3.2 Periodic Maintenance

Two important spaces – between the platform side and frame, and beneath the platform – should be periodically cleaned to prevent debris build up.

The platform can be removed for periodic cleaning by unscrewing the lock nuts from the four welded studs on the underside of the platform. The platform can then be lifted off the load cell channels for cleaning.

When cleaning beneath the platform, be careful not to move the load cell cables to a new position where they can be pinched by the platform in operation.

IMPORTANT

Do not attempt to spray wash scales with non-hermetically sealed load cells. Water damage is a common cause of failure in non-hermetically sealed load cells.

Use care with hot water wash downs for hermetically-sealed load cells. The hot water may not damage the load cells, but the elevated temperatures can cause incorrect readings until the unit cools to room temperature.

When replacing the platform, tighten the four locknuts on the welded studs only until the flat washers beneath them contact the channel surface. Do not tighten the nuts further and compress the cushion pads between platform and channels. The platform must be free-floating on resilient pads for continued accuracy.

3.3 Load Cell Replacement

3.3.1 Disassembly

1. Remove the four locknuts and washers that secure the platform to load cell channels. Lift off the platform. Remove the column back plate to gain access to the j-box.
2. Determine which load cell is defective. Use a hardened hex-drive bit and large ratchet wrench to remove the four hex-drive countersunk machine screws holding the channel to the defective load cell underneath. Lift off the channel and the spacer on top of the load cell. Note how the load cell cable is routed on its cable hold downs.
3. Cut the plastic tie at each hold-down to free the cable. Remove the load cell wires from the load cell terminal in the J-box. Loosen the cord grip and pull the cable out of the J-box. Unwind the excess cable from the cable-storage studs and pull it out of the mast cavity.
4. Turn the scale on its side to remove the lower load cell screws. With the hex-drive bit and ratchet wrench, remove the four cap screws and lock washers that hold the cell to the mounting plate. Lift off the cell and spacer plate beneath.

3.3.2 Reassembly

Tilt and block the scale base enough to have comfortable access to the load cell screws from underneath the base. Position the new load cell with the cable to the inside and the label readable from the outside. Be sure the load cell body is not contacting the overload stop screw. Back the screw off if necessary (it was secured with Loctite at the factory and will turn hard).

1. Set the spacer block and load cell into position. Insert the four load cell screws from the bottom finger-tight only; final adjustments in load cell position are necessary before the screws are torqued down.
2. Run the new load cell cable to the J-box using exactly the path dictated by the cable existing ties. The existing cable hold downs keep the cables under the middle of each load cell channel, where they are protected from accidental crimping between the flexing channels and the frame. When new cable ties are attached, feed the cable through the cutout in the frame and into the mast cavity. Do not shorten the load cell cable; it is temperature-compensated for the supplied cable length. Wind the excess cable around the cable-storage studs, leaving enough free to wire into the junction box.
3. With the load cell still loose enough for final adjustment, set the top spacer block and load cell channel on the cell and insert the self-centering countersunk load cell screws. Tighten these screws alternately with a hex-drive bit and ratchet wrench to a final torque of 20 ft-lb for mild steel models and 12 ft-lb for stainless steel models.
4. Adjust the load cell/channel assembly so it is parallel with the other channel. Measure across the holes in the front and rear of the channels. Adjust the new cell so that distance is equal, then tighten the load cell cap screws from underneath to a final torque of 20 ft-lb for mild steel models and 12 ft-lb for stainless steel models. Check again to be certain the cable will not be pinched by the flexing channel in operation.
5. Finally, put a drop of Loctite on the overload stop screw and set it for a 0.020" gap with the load cell.

3.3.3 Wiring Load Cells into J-Box

Feed the load cell cable into the j-box cord grip closest to its terminal. When facing the scale, the left load cell is wired to terminal 4 of the j-box, and the right load cell is wired to terminal 1.



Note *The wire traces for cells 2 and 3 (JU-2, JU-3) have been cut, making those unused channels inactive.*

Connect wires according to [Table 3-2](#). Pull excess cable out of the J-box and tighten the cable cord grip snugly. The rubber seal will protrude slightly from the cord grip when tightened enough to be waterproof.

Load Cell Cable Color Code	J-Box Terminal	Load Cell Cable Color (load cells to j-box)
Green	+ Excitation	Green/Blue
Black	- Excitation	Black/Brown
Red	+ Signal	Red
White	- Signal	White
Bare	Shield	Yellow

Table 3-2. Load Cell Cable Wiring Code

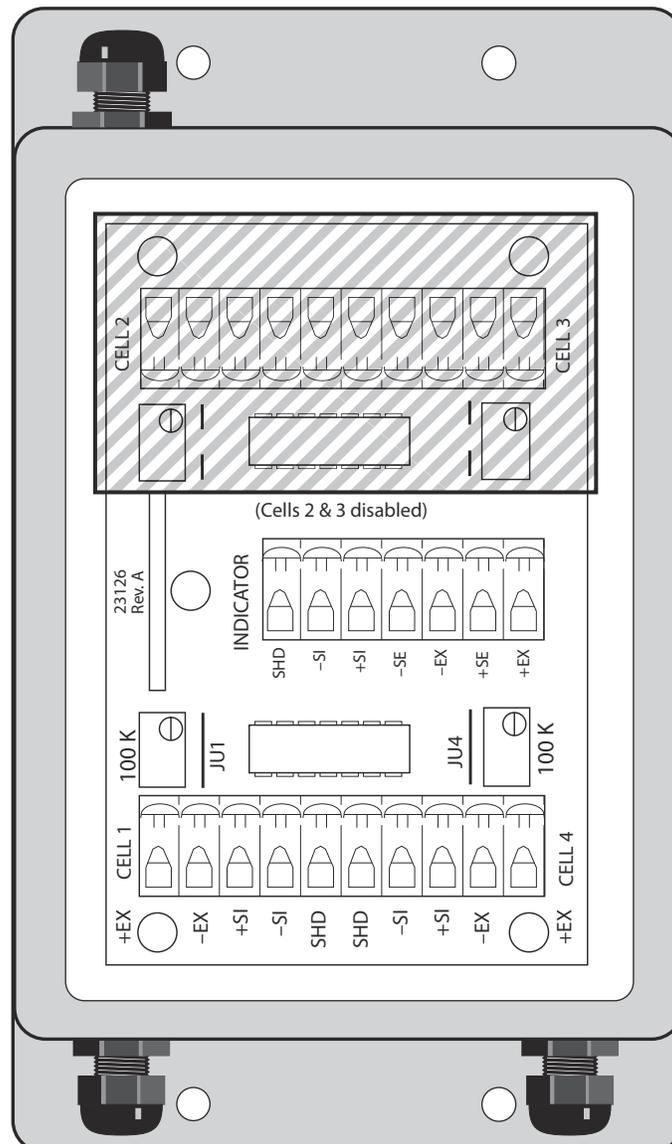


Figure 3-1. DeckHand Junction Box Cutaway

3.3.4 Replacing Deck Platform

Put the scale flat on the floor and set the platform on the channels so the welded studs drop into the channel holes. Tilt and block the scale up again and install a flat washer and locknut on each stud. Turn the lock nut onto each stud until the washer just contacts the channel underside. Do not tighten the lock nuts so the cushioning pads are compressed. The platform must be free floating for accuracy; the lock nuts merely serve as lift off protection.

3.3.5 Corner Trimming

All DeckHand scales are delivered with the junction box trimmed, but re-trimming to equalize loading is necessary after replacing a load cell.

To trim the scale, the output from each load cell must be matched by adjusting the signals with potentiometers at the junction box—a process known as trimming.

The indicator must be connected and approximately calibrated, but it need not indicate the exact weight value. An exact calibration will be done after trimming.

A test weight is required for corner trimming. The recommended minimum test weight for all DeckHand models is 25% of scale capacity.

1. Remove the junction box cover and identify the correct load cell terminal corresponding to each side of the scale (labeled CELL 1, and CELL 4).

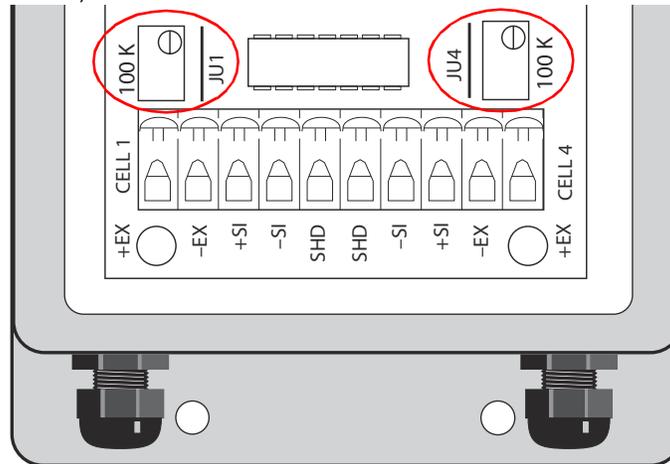


Figure 3-2. Cell 1 and Cell 4 Potentiometers

2. With scale level and no weight on the scale, zero the indicator. Then turn potentiometers for cells 1 and 4 fully clockwise to get the maximum signal from each load cell. A clicking sound can be heard when full signal is reached.
3. With both potentiometers at full signal, place the test weight over left or right side of platform and record the indicated weight reading. Repeat the process for the other side. The load cell with the lowest reading will be used as the reference cell and will not be trimmed.
4. Place the test weight over the side reading high and turn that cell's potentiometer to adjust the cell output down to the reference cell output.
5. Rezero the indicator and repeat the test until both sides are within $\pm 0.1\%$ of the test weight being used. Adjustments are somewhat interactive, so adjusting the higher output may affect the reference cell output.
6. Secure extra cable length by wrapping it around the cable storage pegs inside the mast.
7. When corner trimming is complete, pull any excess cable out of the junction box enclosure and tighten the strain relief hubs snugly with a wrench. To be watertight, the hubs must be tightened to the point where the rubber sleeving begins to protrude out of the hub (SST models).
8. Replace the J-box cover and column back plate.
9. Recalibrate per [Section 2.6 on page 6](#).

3.4 Mounting Indicator Brackets

A universal mount plate is welded to the DeckHand mast. The plate is predrilled to match the bracket of most indicators and are supplied with the appropriate painted or stainless steel mounting hardware.

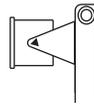


Figure 3-3. Indicator Bracket

3.5 Ramps and Replacement Load Cells

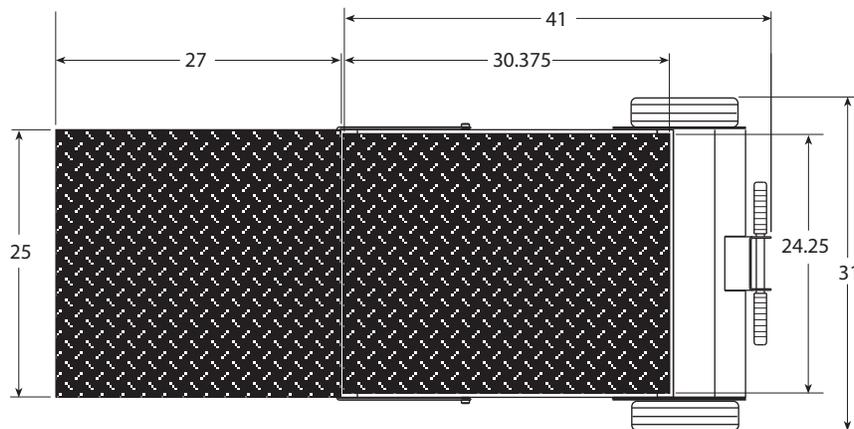


Figure 3-4. Scale and Ramp Dimensions (Inches)

When attaching a ramp to a DeckHand scale, place one plastic pivot washer under the head of the shoulder bolt and three washers on the bolt in the space between the ramp arm and the scale deck.

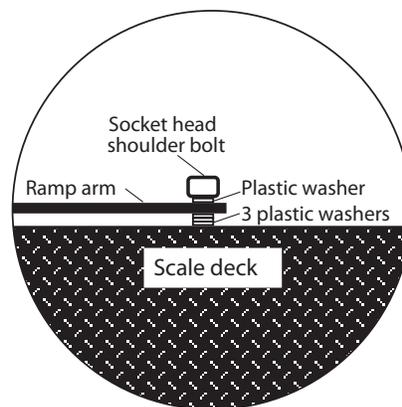


Figure 3-5. Ramp Pivot Bolt

DeckHand Model	Scale PN	Overall Size	Platform Deck Size	Load Cell PN	Load Cell Capacity	Scale Weight	Ramp PN	Ramp Deck Size	Ramp Weight
DH-500	41293	31"W x 41"L	24.25"W x 30.375"L	188687	250 kg (550 lb)	336 lb	43376	25"W x 27"L	44 lb
DH-1000	41294	31"W x 41"L	24.25"W x 30.375"L	188689	500 kg (1100 lb)	356 lb	43376	25"W x 27"L	44 lb
DH-2000	41295	31"W x 41"L	24.25"W x 30.375"L	188690	635 kg (1397 lb)	373 lb	43378	25"W x 27"L	57 lb
DH-500SS	41296	31"W x 41"L	24.25"W x 30.375"L	188687	250 kg (550 lb)	336 lb	43377	25"W x 27"L	44 lb
DH-1000SS	41297	31"W x 41"L	24.25"W x 30.375"L	188689	500 kg (1100 lb)	356 lb	43377	25"W x 27"L	44 lb
DH-2000SS	41298	31"W x 41"L	24.25"W x 30.375"L	188690	635 kg (1397 lb)	373 lb	43379	25"W x 27"L	57 lb

Table 3-3. DeckHand Specifications

4.0 Replacement Parts

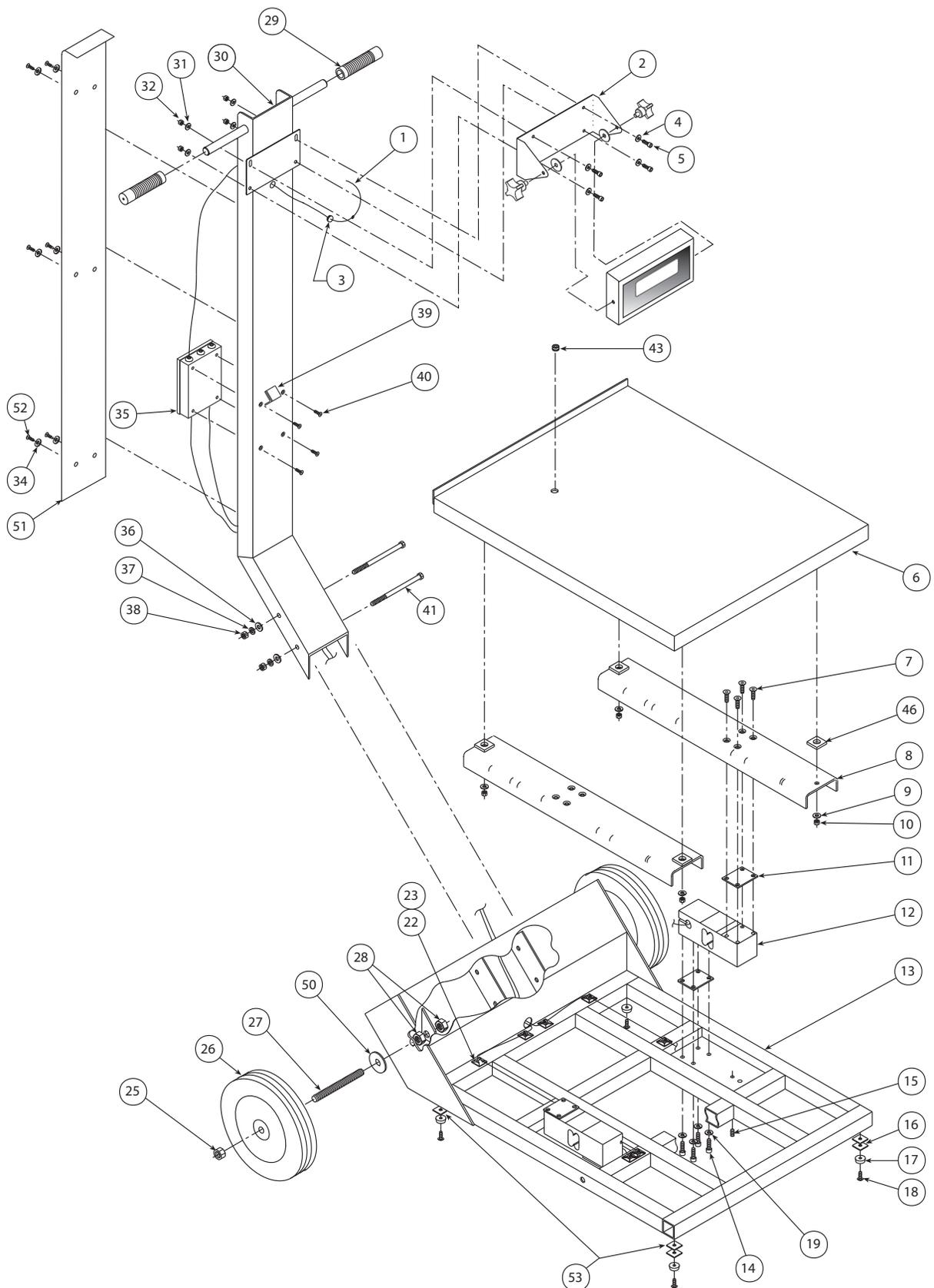


Figure 4-1. Replacement Parts Illustration

Ref.	Description	Part No. Mild Steel	Part No. Stainless
1	Cable, 6-Conductor, 3 1/2 ft	15494	44187
2	Mount, Indicator, 310A	41011	41206
3	Grommet, Rubber 1/2 x 1/4	15398	15377
4	Flat Washer, 1/4	15145	15149
5	Cap Screw, 1/4-20NC x 3/4	14965	41251
6	Upper Platter (DH-500, DH-1000)	40986	41181
	Upper Platter (DH-2000)	42654	42655
7	Cap Screw, 5/16-18 NC x 1	14996	41250
8	Load Cell Channels (DH-500)	41002	41197
	Load Cell Channels (DH-1000)	41002	42665
	Load Cell Channels (DH-2000)	42664	42653
9	Flat Washer, 5/16	21939	44237
10	Lock Nut, 5/16-18 NC, Hex	14646	35170
11	Shim, Load Cell	41003	41198
12	Load Cell	See Table 3-3 on page 11	
13	Base Platform (DH-500, DH-1000)	40983	41178
	Base Platform (DH-2000)	42616	42617
14	Cap Screws, 5/16-18NC x 1	26667	26670
15	Overload Stop Set Screw, 5/16 x 18NC x 1/2	14989	21933
16	Base Shim, Ramp End	41004	41199
17	Scale Base Bumper, 3/4	41267	41267
18	Cap Screw, 1/4-20NC x 3/4	14964	41251
19	Lock Washer, 5/16	15153	15154
22	Cable Tie Mount	15658	15658
23	Cable Tie, 3"	15631	15631
25	Lock Nut, 5/8-11NC	40181	41249
26	Wheel, 10 Dia. x 5/8 Bore	41268	41268
27	Axle, 5/8-11 x 6	41005	41200
28	Jam Nut, 5/8-11NC	14676	14680
29	Handle Grip, 3/4 I.D.	41266	41266
30	Mast, 57-13/16 x 15	40987	41182
31	Lock Washer, 1/4	15147	15148
32	Hex Nut, 1/4-20NC	14641	14642
35	Junction Box, Four Channel	43612	23127
36	Flat Washer, 3/8	21938	15161
37	Lock Washer, 3/8	15159	15160
38	Hex Nut, 3/8-16NC	14656	14655
39	Dampener Strip, Ramp Stop	41108	41108
40	Cap Screw, 10-32NF x 3/4	14908	41253
41	Cap Screw, 3/8-16NC x 6	41254	41257
43	Bubble Level	15410	15410
46	Bumper Cushion, Self-Adhesive	44149	44149
50	Nylon Washer, 5/8	15176	15176
51	Column Back Plate	46259	46260
52	Cap Screw, 10-32NF x 3/8	14932	46337
53	Base Shim, All Corners	47726	47727

Table 4-1. Replacement Parts List

5.0 DeckHand Limited Warranty

Rice Lake Weighing Systems (RLWS) warrants that all RLWS equipment and systems properly installed by a Distributor or Original Equipment Manufacturer (OEM) will operate per written specifications as confirmed by the Distributor/OEM and accepted by RLWS. All systems and components are warranted against defects in materials and workmanship for one year. RLWS warrants that the equipment sold hereunder will conform to the current written specifications authorized by RLWS. RLWS warrants the equipment against faulty workmanship and defective materials. If any equipment fails to conform to these warranties, RLWS will, at its option, repair or replace such goods returned within the warranty period subject to the following conditions:

- Upon discovery by Buyer of such nonconformity, RLWS will be given prompt written notice with a detailed explanation of the alleged deficiencies.
- Individual electronic components returned to RLWS for warranty purposes must be packaged to prevent electrostatic discharge (ESD) damage in shipment. Packaging requirements are listed in a publication, Protecting Your Components From Static Damage in Shipment, available from RLWS Equipment Return Department.
- Examination of such equipment by RLWS confirms that the nonconformity actually exists, and was not caused by accident, misuse, neglect, alteration, improper installation, improper repair or improper testing; RLWS shall be the sole judge of all alleged non-conformities.
- Such equipment has not been modified, altered, or changed by any person other than RLWS or its duly authorized repair agents.
- RLWS will have a reasonable time to repair or replace the defective equipment. Buyer is responsible for shipping charges both ways.
- In no event will RLWS be responsible for travel time or on-location repairs, including assembly or disassembly of equipment, nor will RLWS be liable for the cost of any repairs made by others.

THESE WARRANTIES EXCLUDE ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NEITHER RLWS NOR DISTRIBUTOR WILL, IN ANY EVENT, BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

RLWS AND BUYER AGREE THAT RLWS'S SOLE AND EXCLUSIVE LIABILITY HEREUNDER IS LIMITED TO REPAIR OR REPLACEMENT OF SUCH GOODS. IN ACCEPTING THIS WARRANTY, THE BUYER WAIVES ANY AND ALL OTHER CLAIMS TO WARRANTY.

SHOULD THE SELLER BE OTHER THAN RLWS, THE BUYER AGREES TO LOOK ONLY TO THE SELLER FOR WARRANTY CLAIMS.

NO TERMS, CONDITIONS, UNDERSTANDING, OR AGREEMENTS PURPORTING TO MODIFY THE TERMS OF THIS WARRANTY SHALL HAVE ANY LEGAL EFFECT UNLESS MADE IN WRITING AND SIGNED BY A CORPORATE OFFICER OF RLWS AND THE BUYER.

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6.0 Specifications

End Load Capacity

100% end loading

mV/V Output

2mV/V

Cable Length

9 ft 10 in (3 m)

Height

Weighing platter: 4.5 in height when in weigh mode

Column Height

59 in

Warranty

DeckHand weldment five years

Load cells two years

All other components one year

Approvals



Certificate Number: 98-004

Accuracy Class: III; $n_{\max} = 2500$



Approval Number: AM-5218





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