OnBoard

Low Profile Weighing System

Operator's Manual





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Technical training seminars are available through Rice Lake Weighing Systems. Course descriptions and dates can be viewed at **www.ricelake.com/training** or obtained by calling 715-234-9171 and asking for the training department.

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1.0 Introduction

Congratulations on your purchase of the On-Board Weighing System. This system is manufactured with top quality components and is engineered using the latest technology to provide operating features and reliability unmatched for years to come.

Please take the time to read this manual completely through before attempting to use the system. Although the On-Board system has been designed for easy set up and use, a thorough understanding of this manual will ensure that you receive the maximum benefit from the system.

The On-Board Weighing System can be used to turn almost any truck or trailer into a weighing unit. This manual deals specifically with the operation of the On-Board Low Profile Weighing System. However, the installation and operation of the On-Board for other applications is very similar.

If you have any questions or comments please contact

Rice Lake Weighing Systems: Phone (toll free): 1-800-472-6703



Authorized distributors and their employees can view or download this manual from the Rice Lake Weighing Systems distributor site at: www.ricelake.com.

Notes: Size / Model #	
Serial #	
Date Purchased	
Unit ID #	

1.1 Safety Section



Safety Symbol Definitions:

Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.



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



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



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 you have read and understand the instructions and warnings in the Installation, Operation and Maintenance Manual. Failure to follow the instructions or heed the warnings could result in injury or death. Contact any Rice Lake Weighing System dealer for replacement manuals. Proper care is your responsibility.



Failure to heed may result in serious injury of 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 up and down on the scale.

DO NOT use for purposes other then weight taking.

DO NOT place fingers into slots or possible pinch points.

DO NOT place hands or any body part underneath the scale at any time. the scale could be lowered at any time, crushing body parts.

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.

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

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

Some procedures described in this manual require work inside the indicator enclosure. These procedures are to be performed by qualified service personnel only.

Always obey the standards and regulations placed on the transportation and handling of the product you are delivering for your jurisdiction.

1.2 Overview



DO NOT place any tools under the scale, when lowered the scale could be damaged.

DO NOT overload the scale system this can cause damage to the scale and the vehicle. Always obey the weight restrictions placed on the vehicle and roads.

1.2.1 Control Box



Figure 1-1 Control Box

The Control Box houses the 920i indicator and ticket printer. Figure 1-1 shows the layout of the control box. Figure 1-2 shows a close up of the 920i indicator.

The LED's on the outside of the control box flash when unit is in weigh mode.

To transport ensure the LED's are NOT flashing.

Throughout this section, you will be asked to press the start or stop buttons, enter keystrokes into the indicator, or read the display.

A description of the important keys and buttons are shown on the following pages.



Figure 1-2 920i Indicator

Item	Key/Display	Description	
Α	Directional Arrows	Move curser to needed area and update values.	
В	Enter	Enters data put in from keypad.	
С	Keypad	Allows input of numbers and text.	
D	Clear Key	Clears last entry from keypad.	
E	Softkeys	See Section 2.2.	
F	Zero Key	Zero the scale	
G	Gross/Net Key	Toggle between Gross and Net when tare is present	
Н	Tare Key	Non-Functional	
I	Print Key	Print summary report, if reports are enabled, non functional.	
J	Units	Non functional.	
K	Display Area	Data input field and messages.	
L	pT	Preset Tare indication.	
	→ ()+	Center of zero Indication.	
	Standstill indication, no motion.		
М	Start Button	Begins weighing transaction, prints ticket header	
Ν	End Button	Ends weighing transaction, prints ticket details	
0	Power Switch	Turns weigh center on or off	
Р	SN Label	Contains serial number and other important information about scale,	
Q	Setup Switch	Remove screw to access the configuration switch for calibration and seal for weights and measures approval.	

1.2.2 Weigh Mode Alarms

Your Onboard Weighing System is equipped with both a hardware and software alarm to alert the operator when the scale is in the weigh position. When the 920i is ON the system automatically monitors the weight on the scale. When the scale is up the system software will automatically flash the alarm light located in the cab of the truck, on truck mounted models. The alarm light is located on the side of the control box on trailer mounted units. When the scale is lowered into the transport position the software automatically turns the alarm lamp off.

As a backup to the software alarm, the Rice Lake system also uses a hardware alarm that will function even when the power switch is in the OFF position. When the 920i is off the system can no longer monitor the weight on the scale. Instead a hardware alarm monitors the position of the scale. If you cut the power to the system with the scale in the weigh position, the alarm light will turn on solid. The alarm light will remain on until the scale is lowered into the transport position.

An optional in-cab alarm LED with 35 foot cable that can be mounted in the cab is available from Rice Lake, part number 131811.



Figure 1-3 Alarm Light Locations on Weigh Center

2.0 Control Box Setup



Note The control box should be given at least 15 minutes to warm up in cold weather before using.

2.1 Menu Layouts

2.1.1 Start Menu

Start		More
End Abort		Setup Menu (Main Menu)

Figure 2-2	. Softkey -	Start Menu
------------	-------------	------------

Softkey	Options	Description	
Start		Press to begin weighing.	
	End	Ends weighing cycle and return to main menu.	
	Abort	Cancels weighing cycle and return to main menu.	
More		Forwards to setup menu	
	Setup Menu	See Setup Menu, Section 2.1.2	
	Main Menu	Returns display to main menu	



te Start Softkey will not work in Transport Mode.

2.1.2 Setup Menu



Figure 2-3 Setup Menu Layout

Softkey	Options	Description	
Time and Date Section 2.2.4	00:00am/pm 00/00/0000	Setting the system time & date.	
	Cancel	Returns to setup menu without saving changes	
Setup Headers	Header 1-4	Set up headers that print to ticket	
Section 2.2.6	Exit	Returns display to previous menu	
Ticket ID Section 2.2.7	ON/OFF	Prints "Ticket ID field" when ON. Increments by one number.	
	Current Ticket	Use keypad to enter a starting ticket number,	
	Exit	Returns display to previous menu.	
Truck ID	ON/OFF	Prints "Truck ID field" when ON.	
Section 2.2.8	Set Current	Input an ID number for vehicle using keypad to enter current truck number, up to 25 characters.	
	Exit	Returns display to previous menu.	

Softkey	Options	Description	
Setup	ON/OFF	Displays and prints "Customer ID field" when ON.	
Customers Section 2.2.9	New	Allows the supervisor to add a new customer, up to 25 characters.	
	Delete	Data base of saved customer ids will prompt selection of one to delete.	
	Exit	Returns display to previous menu.	
Setup	ON/OFF	Displays and prints "Product ID field" when ON.	
Section 2.2.10	New	Allows the supervisor to add a new product.	
	Delete	Data base of saved product ids will prompt selection of one to delete.	
	Exit	Returns display to previous menu.	
Setup	ON/OFF	Displays and prints "Operator ID field" when ON.	
Operators Section 2.2.11	New	Allows the supervisor to add a new operator, up to 25 characters.	
	Delete	Data base of saved operator ids will prompt selection of one to delete.	
	Exit	Returns display to previous menu.	
Setup	ON/OFF	Displays and prints "Container ID field" when ON.	
Section 2.2.12	New/Edit	Allows the supervisor to add/edit Container and tare weight.	
	Delete	Data base of saved operator ids will prompt selection of one to delete.	
	Exit	Returns display to previous menu.	
Select Mode	Program or We	ighing Mode that scale will weigh in.	
Section 2.2.13	Single	Select when weighing one product at a time	
	Batch	Select when more than one product will be weighed per load.	
	Pickup Tare	Allows a tare to be set prior to weighing.	
	Target Option	Used with Single Mode, allow for a target amount to be set when weighing.	
Setup	Select a passw	ord for setup menu.	
Password Section 2 2 14	Home	Places cursor at the beginning of the line of digits.	
	Cancel	Returns to previous menu without saving changes.	
	End	d Places cursor at the end of the line of digits.	
USB	Only operates with USB device installed.		
Pitch & Roll	Not for use during operation.		
Back		Returns to previous screen	
More		Advances to next screen	
Exit		Returns to main menu.	

2.1.3 Printed Tickets

he 920i OnBoard system can be set up to print the information below on each ticket using the TM-U295 printer. Configuration of the ticket is performed in the set up menu.



Figure 2-4 Ticket Specifications

A - If turned on in the set up menu, header 1,2,3 and 4 information.

- B If turned on in the set up menu, Truck ID.
- C If turned on in the set up menu, Operator ID.
- D If turned on in the set up menu, Sequential Ticket Number.
- E Time and date always print.
- F If turned on in the set up menu, Product ID.
- G If turned on in the set up menu, Customer ID.

2.2 Setup Menu Options



Figure 2-5 Startup Screen

1. Turn Control Box on by pressing power switch up (see Figure 2-5).



2.2.4 Date and Time

The 920i has a built in time and date clock that automatically adjusts for leap years. The real time clock will run even if power is removed from the indicator. There is a battery inside the indicator that will keep the clock running continuously while there is no power to the indicator.

Setting Time/Date



1.

2. Use the directional arrows to enter current time and date.



2.2.5 Entering Letters And Symbols Into The Following Settings

- 1. Press the Up directional arrow to enter the alphabetical display. There will be a cursor highlighting a symbol.
- 2. Using directional arrows move the cursor to select letters and symbols. Press

enter to place letter/symbol into header line.



Numbers can be added at the same time using the numerical keypad. Pressing use will clear the letter/number before the cursor, to move the cursor use left/right directional arrows.

3. When header line is complete, arrow down until cursor is in header line and press enter to save information.



Figure 2-7 Enter Header Information



2.2.6 Setup Headers

Up-to 4 headers can be added to your printed ticket. Headers typically are used for customer name, address, city/state & zip code and phone number

Exit

- 1. Press Setup Headers . Display will show
- 2. Press desired header softkey and enter information (see Section 2.2.5).
- 3. Repeat for each header line that requires information.
- 4. When all rows are done, press to return to setup menu.

2.2.7 Ticket ID

When printing ticket, a sequential ticket ID number can be assigned.



228 Truck ID

2.2.8 Truck ID

A truck ID number can be assigned and printed on each ticket.



2.2.9 Customer Setup

With the customer database turned on, the 920i will allow you to select a customer name or number, up-to 25 alpha numeric characters, during a weighing transaction. You can store up to 50 customers in the standard 920i Onboard weight center.



2.2.10 Product Setup

With the product id database turned on, the 920i will allow you to select a product name or number, up to 25 alpha numeric characters, during a weighing transaction. You can store up-to 50 products in the standard 920i Onboard weight center.



2.2.11 Operator Setup

With the Operator database turned on, the 920i will allow you to select a operator name or number, up-to 25 alpha numeric characters, during a weighing transaction. You can store up-to 50 operators in the standard 920i Onboard weight center.



2. Press to return to setup menu.

2.2.12 Container Setup

With the Container database turned on and used in the Pick-up Tare Mode, the 920i will allow you to select a container name or number with an associated tare weight value, up-to 25 alpha numeric characters, during a weighing transaction. You can store up-to 50 containers in the standard 920i Onboard weight center.





2. Press to return to setup menu.

2.2.13 Select Mode

The 920i Onboard System provides 4 programs to choose from as the selected mode.

- **Single** Standard Weighing, pick-up or deliver a single product and print weight ticket
- **Batch** Multi-Product Weighing, pick-up or delivery multiple products and print weight ticket.
- **Pick-up Tare** Container Pick-up, using keyboard or stored tare weights to pick-up "skip" type containers and print weight ticket of container contents.
- **Target Option** Single Set-Point Weighing, identify single target weight for delivery of product, the relay sends a signal to turn off the pump when the target weight has been achieved.



Note Target Option is only available in Single Mode.

2. Press softkey for desired mode. Display will show:

Run Mode: Mode Selected

3. Press to return to setup menu.

2.2.14 Password Setup

The password setup allow you to create a unique password to enter into the setup menu.

- 1. Press Password
 - To enter a Password, enter information (see Section 2.2.5).

3.0 Operation



Note The control box should be given at least 15 minutes to warm up in cold weather before using.

When the truck is going to be shutdown, power down the control box prior to turning off the truck.

Important Raise the platform prior to turning system on. The indicator may reset itself if turned on prior to raising the platform and using hydraulics.

Turn off system prior to lowering the platform, the indicator may reset itself.



Figure 3-2 Pitch and Roll, Max 5.9°

- 1. Park truck on a level surface.
- 2. Raise scale platform into weighing position. LED's on each side of control box should flash when in weighing position.
- 3. Turn Control Box on by pressing power switch up (see Figure 3-1). See following sections for weighing modes.

3.1 Single Weigh Mode

Standard Weighing, pick-up or deliver a single product and print weight ticket.

- 1. Select single weigh mode, see Section 2.2.13.
- 2. Enter product ID and customer ID if being used.

Note Operator can be changed at any time, see Section 2.2.11.

3. Insert ticket into the ticket printer.

Start

4. Press

The 920i will print

Rice Lake Weig 230 W Coleman Rice Lake, WI 5 715- 234-9171	hing Systems a St 54822	
Truck Id: 12345 Operator Id: AB Ticket Id: 00000	67890 9C123DEF123 901	
05/14/2012	04:12 PM	
Product ID: 1234567890 Customer ID:1234567890		
Start at	11802 lb GROSS 0 lb NET	

Figure 3-3 Initial Ticket Printout

- 5. The 920i will go into net mode automatically when the start button is pressed. The 920i display will show "0" weight with the NET mode illuminated.
- 6. Unload or load the amount as desired.



The delivery hoses, chutes, conveyors, etc. should be in the storage position before pushing the end button.

7. When the displayed weight has stabilized, press the amount unloaded or loaded.





The printer will print out

Rice Lake Weig 230 W Coleman Rice Lake, WI 715-234-9171	ghing Systems 1 St 54822
Truck Id: 12345 Operator Id: AE Ticket Id: 0000 05/14/2012	567890 3C123DEF123 001 04:12 PM
Product ID: 123 Customer ID:12	94567890 234567890
Start at	11802 lb GROSS 0 lb NET
Amount loaded	
	5670 lb

Figure 3-4 Unloaded and Loaded Ticket Printout

8. Lower the platform to disengage the scale, visually check to see that the scale is down completely. The Cab alarms light will turn off, when the scale is in transport mode.

3.1.1 Target Option

Single Set-Point Weighing, identify single target weight for delivery of product, the relay sends a signal to turn off the pump when the target weight has been achieved.



When selected a target amount can be set to be loaded/unloaded.

- 1. Select single weigh mode, see Section 2.2.13.
- 2. Enter product ID and customer ID if being used.
- 3. Insert ticket into the ticket printer.
- 4. When start is pressed indicator will prompt for a target amount to be entered.
- 5. Using the numerical keypad, enter required weight and press enter to return weigh screen.
- 6. Unload or load the target amount.
- 7. Display will prompt "Press [End] Softkey. Press End to complete ticket.

3.2 Batch Weighing Mode

Multi-Product Weighing, pick-up or delivery multiple products and print weight ticket.



Requires Product ID's for product being loaded or unloaded.

- 1. Select Product ID and Customer ID, if being used.
- 2. Insert ticket into the ticket printer.
- Press Start Product ID has been selected the 920i will prompt, "Enter Product ID to continue".
- 4. The 920i will then go into net weighing mode showing "0" weight.
- 5. Connect the delivery hoses. Unload or load the amount as desired. Then disconnect the hoses and place into storage.



The delivery hoses, chutes, conveyors, etc. should be in the storage position before pushing the end button.

- 6. Stop loading or unloading and return the delivery system to the storage position and wait for the weight to stabilize.
- 7. Press . Indicator will ask "Do You Want To Do Another Product".
- Press Yes to enter a new product. The product ID field is cleared, if customer ID is selected it will remain stored.
- 9. Press and select the product to load.
- 10. To continue weighing, press
- 11. Repeat steps 5-10 to load all required product.
- 12. When last product has been loaded/unloaded, press
- 13. When indicator prompts "Do You Want To Do Another Product". Press



14. The 920i will print the following and return to normal weigh mode, removing product id and customer id from memory.

Rice Lake Weighing Systen 230 W Coleman St Rice Lake, WI 54822 715- 234-9171	15
Truck Id: 1234567890 Operator Id: ABC123DEF1 Ticket Id: 0000001	23
05/14/2012 Customer ID:1234567890	04:12 PM
Product ID: XXXXXX Product ID: YYYYYY Product ID: ZZZZZZZ	10000 LB 12000 LB 15000 LB
Total Product:	37000 LB

Figure 3-5 Batch Ticket Printed

Important Steps must be followed exactly as shown in this manual.

3.3 Pickup/Tare Mode

Container Pick-up, using keyboard or stored tare weights to pick-up "skip" type containers and print weight ticket of container contents.



If using a stored tare the container function must be turned on prior to weighing product. See Section 2.2.12.

- 1. Select Product ID and Customer ID, if being used.
- 2. Insert ticket into the ticket printer.
- 3. Once the scale is level, enter a tare with one of the following methods:
 - Keyboard tare manually enter the tare value via numeric keypad, then press . Display will show a minus net weight.
 - Stored tare press ontainer, and using the directional arrows choose a stored tare

value from the database. Press enter to return weigh screen. Display will show Container and a minus net weight.

Gross weight will display.

- 4. Load the container.
- 5. Press or the start button.
- 6. The amount loaded will print out as NET weight.

```
Rice Lake Weighing Systems
230 W Coleman St
Rice Lake, WI 54822
715-234-9171
Truck Id: 1234567890
Operator Id: ABC123DEF123
Ticket Id: 0000001
05/14/2012
                          04:12 PM
Product ID: 1234567890
Customer ID:1234567890
Tare: Keyboard or "Id #"
Start at
                11802 lb GROSS
                 5000 lb TARE
Amount loaded
                 6802 lb
```

Figure 3-6 Ticket Printout with Tare - End

4.0 Maintenance

4.1 Weekly

- Check entire scale for build up of debris. If any debris is found under the scale frame or around the Load Cells remove it immediately.
- Visually check all external cables and conduit for damage. Check and ensure the load cell cables are free to move with the load cell.
- Check hydraulic cylinders and lines for leakage and ensure they will not prevent the scale from moving freely. If a cylinder or hose is leaking replace it as soon as possible. A leaking cylinder may cause the scale to settle and give inaccurate readings during a transaction.
- Raise and lower the scale to ensure the up/down alarm is working properly.
- Check the lock down bolt adjustment.
- The lockdown bolts should be adjusted so that the hydraulic cylinders are extended minimum 1/8" to maximum 1/4" when the system is locked down. As well, the load cells should be loose in the lock down position.
- To adjust the lock downs, loosen the jam nut on the lock down bolt. With the jam nut loose adjust the lock down bolts so that the cylinders are extended between 1/8" and 1/4". Check the load cell and ensure it is loose. If you are unable to achieve an adjustment where the cylinder is slightly extended and the load cell is loose contact you scale dealer.



Figure 4-1 Adjust Lockdowns

4.2 Yearly

- Do all required weekly services checking all components of the system.
- Park system on a slope greater then seven degrees and raise the scale. (For example a steep approach.) Turn on the indicator and check to see if it shuts off in 10 seconds. If the indicator does not shut off you may have a faulty tilt sensor, consult you local scale dealer. You must do this test in all four directions, front low, rear low, right side low and left side low.
- Disassemble each load cell location. Check all bushings for excessive wear and replace if necessary. Grease the ends of the upper load cell pin and lower eyebolt when reassembling.



4.3 Linkage Assembly/Disassembly

To perform service on any of the scale parts (i.e. load cell, bushings), the linkage assembly must be disassembled. The following procedure must be followed when disassembling any linkage.



Figure 4-2 Linkage Assembly/Disassembly

Tools required:

- 7/16" wrench or socket
- ³/₄" wrench or socket
- ³/₄" hex Allen key (ratchet preferred)
- ¹/₄" roll pin punch
- Hammer
- Large flat head screwdriver
- 11/16" wrench (required for hydraulics only)
- 5/8" wrench (required for hydraulics only)

4.3.1 Disassembly Procedure

- 1. Remove load cell cover bolts (27) and lock washers (28) with 7/16" wrench and remove load cell cover (26). (Double Assembly shown)
- 2. Remove retaining ring (3) from lower cylinder pin with flat head screwdriver.
- 3. There are two roll pins (22) inserted through the lower load cell pin (21). Remove the roll pin at the end of the lower load cell pin that prevents the load cell assembly from jumping off the pin.
- 4. Loosen jam nut (25) on lockdown bolt (24) and turn lockdown bolt in with 3/4" wrench.
- 5. Loosen socket head cap screw (10 and 11) with 3/4" Allen key.

Note The cap screw and sleeve are pressed together and should not be separated. Sleeve will come out with cap screw.

- 6. Remove pivot pin bolt (13), washer (15), and lock washer (14) with 3/4" wrench.
- 7. Remove socket head cap screw (10 and 11) and lift arm spacer (9).
- 8. Remove outer lift arm (5).
- 9. Remove upper load cell pin (18) and load cell assembly (19 and 20).
- 10. Remove upper cylinder pin (8) and hydraulic cylinder (2).
- 11. Remove inner lift arm (4).
- 12. Remove lower load cell pin (21) only if required by removing the second roll pin (22) with roll pin punch and hammer.



Do not remove any hydraulic hoses unless you have a qualified person to remove air from the system. The hydraulic lines do not need to be removed to disassemble the system.

- 13. Remove hydraulic fittings (56 and 57) only if required with 11/16" and 5/8" wrenches.
- 14. Check all bushings for excess wear. Replace the bushings if necessary.
- 15. Bushings in the lift arms have been installed with Loctite. You may need to heat the bushing only, to remove them.
- 16. Clean any Loctite that remains in the bushing locations.

4.3.2 Assembly Procedure

- 1. Install the new bushings into the lift arms using Loctite 603 only. Any other products used to retain the bushings must resist mild oil contamination.
- 2. Insert lower load cell pin (21) into lift plate (23) insert roll pin (22) to hold the pin in place with roll pin punch and hammer.
- 3. Assemble inner lift arm (4) onto pivot pin on base (1).
- 4. Assemble hydraulic cylinder onto lower cylinder pin on base (1).
- 5. Insert upper cylinder pin (8) through cylinder (2) into the inner lift arm (4).
- 6. Assemble load cell assembly (19 and 20) onto lower load cell pin (21).
- 7. Apply a thin film of grease onto ends of upper load cell pin (18).
- 8. Insert upper load cell pin (18) through upper eyebolt (20) into inner lift arm (4).
- 9. Assemble outer lift arm (5) loosely onto the three pins (pivot, upper load cell, and upper cylinder).
- 10. Place lift arm spacer (9) between two lift arm plates and press outer lift arm fully onto the pins.
- 11. Insert cap screw (10,11) and start threads, do not tighten, with 3/4" Allen key.
- 12. Insert pivot bolt (13), washer (15) and lock washer (14) into pivot pin and tighten with 3/4" wrench.
- 13. Tighten cap screw (10,11) with 3/4" Allen key.
- 14. Turn out the lock down bolt (24) until cylinder is extended between 1/8" and 1/4" with 3/4" wrench. Tighten the jam nut (25).
- 15. Insert roll pin (22) through the lower load cell pin (21) to prevent the load cell assembly from jumping off the pin with roll pin punch and hammer.
- 16. Insert retaining ring (3) on lower cylinder pin.
- 17. Assemble hydraulic fittings (56,57) if required with 11/16" and 5/8" wrenches.
- 18. Attach load cell cover (26) with 10ad cell cover bolts (28) and lock washers (28) with 7/16" wrench.



Figure 4-3 Reed Switch Location

5.0 Troubleshooting

Symptom	Probable Cause	Action
The scale indicator will not power up.	Blown in-line fuse	Replace in-line fuse, PN 126876, the fuse holder should be located near the battery or inside the cab.
	Truck voltage is less than 11 volts.	Repair faulty electrical system on truck. The panel requires at least 11 volts to operate properly.
Indicator turns off or resets in the middle of a transac- tion –OR- End button will not function but start seems to work properly.	Low voltage to control panel. Indicator on, hydraulics in use to raise body.	Check other electrical equipment that may be operating (IE. Air con- ditioning). The charging system on the vehicle may not be maintaining at least 11 volts.
The alarm light stays on all the time.	The scale up/down sen- sor may be damage or not working.	Check that reed switch is oriented properly and not broken. (See Fig- ure 4-3) – OR – make sure the magnet has not fallen off or been moved out of position. Scale up/down sensor PN127638
The system will not START, END or both	Weight reading is not stable enough	It may be too windy to get a stable weight, check the motion light on the indicator. The system can only start and end when the light is out.
The weight reading on the indicator is unstable.	The circuit board in the control panel may be wet. If there is a junction box for the load cells on your system, check there for moisture as well.	Dry any areas that are contami- nated with moisture. Check for leaks and reseal.
	A load cell cable may be pinched or damaged.	Contact RLWS or a qualified dealer for support. Cutting the load cell cable will void the war- ranty. Special repair techniques are required.
The scale has a positive error when loading or a negative error when unloading	Mechanical binding problem on scale	Check all hydraulic hoses and conduit, they must be long and loose enough not to exert a force on the scale. Check all load cell covers to see that they are not bent or contacting the lift arm or cylinder.
The scale has a negative error when loading or a positive error when unloading.	Moisture is present somewhere in the elec- trical system.	Dry any areas that are contami- nated with moisture. Check for leaks and reseal.

Symptom	Probable Cause	Action
Printer is not functioning – nothing is being printed at all	Is the release light on the printer flashing? This could indicate a low volt- age to the printer	The system requires at least 11 volts to operate properly. Is the truck running? Your truck may need to be running to supply enough power – OR – the truck may have a faulty electrical sys- tem.
	The system may have lost communication with the printer	Check the DIP switch settings are set properly; see next section for settings. Power down and power up the system and try again.
	The print head may be jammed with paper	Remove the print head cover and ribbon. Check for bits of paper stuck in the paper feed mechanism.
	The print head may be jammed with paper The print head may be packed with dirt from operating in dusty condi- tions	Remove the print head cover and ribbon. Blow out with air. If the printer is very dirty it may require service by a qualified technician.
The printer is printing unrecognizable characters	The printer DIP switch setting are incorrect	Turn the printer over and check that the small switches are set as follows: 1 on, 2 off, 3 off, 4 off, 5 off, 6 off, 7 on, 8 on, 9 off, 10 off
	The power supply on the truck is excessively noisy.	Contact RLWS, an in-line power filter may be necessary.
The printing on the ticket is faint or hard to read.	The printer's ink ribbon may need to be replaced.	Replace ribbon, PN 29583
	The printer head may be damaged.	Requires service by a qualified technician.



If you suspect there is a problem inside the 920i weigh center that requires the weights and measures seal to be broken you must contact rice lake weighing systems prior to breaking the seal, or have a qualified scale dealer break the seal.

Breaking the seal may violate the weights and measures approval of the scale.

5.1 Double Assembly Repair Parts



Item	Part No.	Description	Qty
1	128592	Base Assy, Double Low	1
2	127183	Cylinder, Hydraulic 1.75 x	2
2a	126801	Bushing, Oil Lite 1-1/4 x	4
3	126942	Ring, Retaining External	2
4	127648	Lift Arm Assy, Low Profile	1
5	127649	Lift Arm Assy, Low Profile	1
6	127650	Lift Arm Assy, Low Profile	1
7	127651	Lift Arm Assy, Low Profile	1
8	127653	Pin, Upper Cylinder Low	2
9	127652	Spacer, Lift Arm Low	2
10	127662	Sleeve, Lift Arm Lockdown	2
11	127667	Screw Cap, 1-14UNSx3 Hex	2
12	126800	O-Ring,1 IN ID X 1-1/8 IN	2
13	14751	Bolt,1/2-13NCx1 Hex Head	2
14	15167	Washer,Lock 1/2 Regular	2
15	127663	Washer, Pivot Pin Low	2

18 127655 Pin,Upper Load Cell 15K 2 127654 Pin,Upper Load Cell 10K 2 128641 LC with eye bolts 15K 14 4 1 21412 Load Cell,SBM RL20001-T10 2 20 127643 Eyebolt,Machined 15K 14 4 1 21444 Load Cell,SBM RL2000B- 2 20 127163 Eyebolt,Machine 10K MAS 4 1 21443 Load Cell,SBM RL2000B-5K 2 20 127163 Eyebolt,Machine 10K MAS 4 1 127657 Pin,Lower Load Cell 15K 2 21 126926 Pin,1/4 x 2.1/4 Slotted 15K 14 4 126926 Pin,1/4 x 1.3/4 Slotted 10K MAS 4 128603 Lift Plate, Double 15K 1 128603 Lift Plate, Double 15K 1 128603 Lift Plate, Double 10K Low 2 25 14686 Nut,Jam 3/4-10N C HEX 2 26 127664 Cell Cover ASSY,Double 2 21 127007	Item	Part No.	Description	Qty
127654 Pin,Upper Load Cell 10K 2 128641 LC with eye bolts 15K 14 4 12112 Load Cell,SBM RL20001-T10 2 20 127643 Eyebolt,Machined 15K 14 4 127673 LC with eye bolts 10K MAS 4 19 21444 Load Cell,SBM RL20000B- 2 20 127163 Eyebolt,Machine 10K MAS 4 19 21443 Load Cell,SBM RL20000B-5K 2 20 127163 Eyebolt,Machine 10K MAS 4 11 21657 Pin,Lower Load Cell 15K 2 127656 Pin,1/4 x 1-3/4 Slotted 15K 14 4 1 128603 Lift Plate,Double 15K 1 1 128603 Lift Plate,Double 15K 2 2 127684 Cell Cover ASSY,Double 2 2 12707 <	18	127655	Pin,Upper Load Cell 15K	2
128641 LC with eye bolts 15K 14 4 19 21412 Load Cell,SBM RL20001-T10 2 20 127643 Eyebolt,Machined 15K 14 4 127673 LC with eye bolts 10K MAS 4 19 21444 Load Cell,SBM RL20000B- 2 20 127663 Eyebolt,Machine 10K MAS 4 19 21443 Load Cell,SBM RL20000B-5K 2 20 127666 Pin,Lower Load Cell 15K 2 127656 Pin,Lower Load Cell 10K 2 128926 Pin,1/4 x 2-1/4 Slotted 15K 14 4 128090 Lift Plate,Double 15K 1 128003 Lift Plate,Double 15K 1 128040 Nut,Jam 3/4-10 x 2 Hex 2 25 14686 Nut,Jam 3/4-10 x 2 Hex 2 26 127664 Cell Cover ASSY,Double 2 27		127654	Pin,Upper Load Cell 10K	2
19 21412 Load Cell,SBM RL20001-T10 2 20 127643 Eyebolt,Machined 15K 14 4 19 21444 Low the ye bolts 10K MAS 4 19 21444 Load Cell,SBM RL20000B- 2 20 127163 Eyebolt,Machine 10K MAS 4 1 221443 Load Cell,SBM RL20000B-5K 2 20 127163 Eyebolt,Machine 10K MAS 4 21 127656 Pin,Lower Load Cell 15K 2 127656 Pin,Lower Load Cell 15K 2 1 128603 Lift Plate,Double 15K 1 1 128603 Lift Plate,Double 10K Low 1 1 24 128093 Screw,Cap 3/4-10 x 2 Hex 2 2 25 14886 Nut,Jam 3/4-10NC HEX 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2		128641	LC with eye bolts 15K 14	4
20 127643 Eyebolt, Machined 15K 14 4 127673 LC with eye bolts 10K MAS 4 19 21444 Load Cell, SBM RL2000B- 2 20 127163 Eyebolt, Machine 10K MAS 4 19 21443 Load Cell, SBM RL2000B-5K 2 20 127163 Eyebolt, Machine 10K MAS 4 21 127656 Pin, Lower Load Cell 15K 2 127656 Pin, Lower Load Cell 10K 2 21 126926 Pin, 1/4 x 1-3/4 Slotted 10K MAS 4 23 126090 Lift Plate, Double 15K 1 128603 Lift Plate, Double 10K Low 1 24 126990 Screw, Cap 3/4-10 x 2 Hex 2 25 14686 Nut, Jam 3/4-10 X 2 Hex 2 2 26 127664 Cell Cover ASSY, Double 2 2 21 126092 Screw, Cap 1/4-20 x 1/2 8 8 29 126925 Screw, Cap 1/4-20 x 2-3/4 2 2 30 <t< td=""><td>19</td><td>21412</td><td>Load Cell,SBM RL20001-T10</td><td>2</td></t<>	19	21412	Load Cell,SBM RL20001-T10	2
127673 LC with eye bolts 10K MAS 4 19 21444 Load Cell,SBM RL20000B- 2 20 127163 Eyebolt,Machine 10K MAS 4 19 21443 Load Cell,SBM RL20000B-5K 2 20 127163 Eyebolt,Machine 10K MAS 4 11 127657 Pin,Lower Load Cell 15K 2 127656 Pin,Lower Load Cell 10K 2 127656 Pin,1/4 x 2-1/4 Slotted 15K 14 4 128603 Lift Plate,Double 15K 1 128603 Lift Plate,Double 10K Low 1 24 126999 Screw,Cap 3/4-10 x 2 Hex 2 25 14686 Nut,Jam 3/4-10NC HEX 2 26 127607 Screw,Cap 1/4-20 x 1/2 8 27 127007 Screw,Cap 1/4-20 x 2/3/4 2 20 14641 Nut,1/4-20 X 2/3/4 2 30 14641 Nut,1/4-20 X 2/3/4 2 30 14641 Nut,1/4-20 X 2/3/4 2 30 14641 N	20	127643	Eyebolt,Machined 15K 14	4
19 21444 Load Cell,SBM RL20000B- 2 20 127163 Eyebolt,Machine 10K MAS 4 19 21443 Load Cell,SBM RL20000B-5K 2 20 127163 Eyebolt,Machine 10K MAS 4 21 127657 Pin,Lower Load Cell 15K 2 127656 Pin,Lower Load Cell 10K 2 22 126926 Pin,1/4 x 2-1/4 Slotted 15K 14 4 126965 Pin,1/4 x 1-3/4 Slotted 10K MAS 4 23 128609 Lift Plate,Double 15K 1 128603 Lift Plate,Double 10K Low 1 24 126999 Screw,Cap 3/4-10 x 2 Hex 2 25 14686 Nut,Jam 3/4-10NC HEX 2 26 127664 Cell Cover ASSY,Double 2 27 127007 Screw,Cap 1/4-20 x 1/2 8 28 15147 Washer,Lock 1/4 Regular 8 29 126925 Screw,Orap 1/4-20 x 2-3/4 2 30 14641 Nut,1/4-20N C+3/8 2		127673	LC with eye bolts 10K MAS	4
20 127163 Eyebolt, Machine 10K MAS 4 128674 LC with eye bolts 4 19 21443 Load Cell, SBM RL20000B-5K 2 20 127163 Eyebolt, Machine 10K MAS 4 21 127657 Pin, Lower Load Cell 15K 2 127656 Pin, Lower Load Cell 10K 2 22 126926 Pin, 1/4 x 2-1/4 Slotted 10K MAS 4 23 128069 Lift Plate, Double 15K 1 128603 Lift Plate, Double 10K Low 1 24 126999 Screw, Cap 3/4-10 x 2 Hex 2 25 14886 Nut, Jam 3/4-10 x 2 Hex 2 26 127664 Cell Cover ASSY, Double 2 27 127007 Screw, Cap 1/4-20 x 1/2 8 28 15147 Washer, Lock 1/4 Regular 2 29 126925 Screw, Cap 1/4-20 x 2-3/4 2 30 14641 Nut, 1/4-20 X 7-3/4 2 39 126799 Bushing, Oil Lite 1.75" x 1.5" x 0.75" 1	19	21444	Load Cell,SBM RL20000B-	2
128674 LC with eye bolts 4 19 21443 Load Cell,SBM RL2000B-5K 2 20 127163 Eyebolt,Machine 10K MAS 4 21 127657 Pin,Lower Load Cell 15K 2 127656 Pin,Lower Load Cell 10K 2 22 126926 Pin,1/4 x 2-1/4 Slotted 15K 14 4 128609 Lift Plate, Double 15K 1 128603 Lift Plate, Double 10K Low 1 24 128609 Screw,Cap 3/4-10 x 2 Hex 2 25 14686 Nut,Jam 3/4-10NC HEX 2 26 127604 Cell Cover ASSY,Double 2 27 127007 Screw,Cap 1/4-20 x 1/2 8 28 15147 Washer,Lock 1/4 Regular 8 29 126925 Screw,Cap 1/4-20 x 2-3/4 2 30 14641 Nut,1/4-20NC HEX Steel 2 30 126799 Bushing , Oil Lite 1.75" x 1.5" x 0.75" 1 40 127633 Sensor Assy, OBS Alarm 1 4	20	127163	Eyebolt,Machine 10K MAS	4
19 21443 Load Cell,SBM RI.20000B-5K 2 20 127163 Eyebolt,Machine 10K MAS 4 21 127656 Pin,Lower Load Cell 15K 2 127656 Pin,Lower Load Cell 10K 2 22 126926 Pin,1/4 x 1-3/4 Slotted 10K MAS 4 23 128609 Lift Plate,Double 15K 1 128603 Lift Plate,Double 10K Low 1 24 126999 Screw,Cap 3/4-10 x 2 Hex 2 25 14686 Nut,Jam 3/4-10NC HEX 2 26 127664 Cell Cover ASSY,Double 2 27 127007 Screw,Cap 1/4-20 x 1/2 8 28 15147 Washer,Lock 1/4 Regular 8 29 126925 Screw,Orive NO 4x3/8 2 30 14641 Nut,1/4-20NC HEX Steel 2 30 126799 Bushing , Oil Lite 1.75" x 1.5" x 0.75" 1 40 127638 Sensor Assy, OBS Alarm 1 41 126980 Screw, Machine 10-32 x 1/2		128674	LC with eye bolts	4
20 127163 Eyebolt, Machine 10K MAS 4 21 127657 Pin, Lower Load Cell 15K 2 126926 Pin, 1/4 x 1-3/4 Slotted 15K 14 4 126965 Pin, 1/4 x 1-3/4 Slotted 15K 14 4 128609 Lift Plate, Double 15K 1 128603 Lift Plate, Double 10K Low 1 24 126909 Screw, Cap 3/4-10 x 2 Hex 2 25 14686 Nut, Jam 3/4-10NC HEX 2 26 127664 Cell Cover ASSY, Double 2 27 127007 Screw, Cap 1/4-20 x 1/2 8 28 15147 Washer, Lock 1/4 Regular 8 29 126925 Screw, Cap 1/4-20 x 2-3/4 2 36 16863 Label, Scale/Base 1 36 14905 Screw, Drive NO 4x3/8 2 39 126799 Bushing , Oil Lite 1.75" x 1.5" x 0.75" 1 41 126840 Hose Clamp, No. 36 Band 1 42 127637 Kit, OBW Reed Switch with 1	19	21443	Load Cell,SBM RL20000B-5K	2
21 127657 Pin,Lower Load Cell 15K 2 127656 Pin,Lower Load Cell 10K 2 128926 Pin,1/4 x 2-1/4 Slotted 15K 14 4 12803 Lift Plate,Double 15K 1 128603 Lift Plate,Double 15K 1 128603 Lift Plate,Double 10K Low 1 24 128699 Screw,Cap 3/4-10 x 2 Hex 2 25 14686 Nut,Jam 3/4-10NC HEX 2 26 127664 Cell Cover ASSY,Double 2 27 127007 Screw,Cap 1/4-20 x 1/2 8 28 15147 Washer,Lock 1/4 Regular 8 29 126925 Screw,Cap 1/4-20 x 2-3/4 2 30 14641 Nut,1/4-20NC HEX Steel 2 31 126799 Bushing , Oil Lite 1.75" x 1.5" x 0.75" 1 40 127637 Kit,OBW Reed Switch with 1 41 126840 Hose Clamp, No. 36 Band 1 42 127637 Kit,OBW Reed Switch with 1 43 <	20	127163	Eyebolt,Machine 10K MAS	4
127656 Pin,Lower Load Cell 10K 2 126926 Pin,1/4 x 2-1/4 Slotted 15K 14 4 128926 Pin,1/4 x 1-3/4 Slotted 10K MAS 4 23 128609 Lift Plate, Double 10K Low 1 128603 Lift Plate, Double 10K Low 1 24 126999 Screw,Cap 3/4-10 x 2 Hex 2 25 14686 Nut,Jam 3/4-10NC HEX 2 26 127664 Cell Cover ASSY,Double 2 27 127007 Screw,Cap 1/4-20 x 1/2 8 28 15147 Washer,Lock 1/4 Regular 8 29 126925 Screw,Cap 1/4-20 x 2-3/4 2 30 14641 Nut,1/4-20NC HEX Steel 2 31 126799 Bushing, Oil Lite 1.75" x 1.5" x 0.75" 1 40 127638 Sensor Assy, OBS Alarm 1 41 126840 Hose Clamp, No. 36 Band 1 42 127637 Kit,OBW Reed Switch with 1 43 126998 Screw, Cap 3/4-10 x 2-1/2 4	21	127657	Pin,Lower Load Cell 15K	2
22 126926 Pin,1/4 x 2-1/4 Slotted 15K 14 4 128605 Pin,1/4 x 1-3/4 Slotted 10K MAS 4 23 128609 Lift Plate,Double 15K 1 128603 Lift Plate,Double 10K Low 1 24 126999 Screw,Cap 3/4-10 x 2 Hex 2 25 14686 Nut,Jam 3/4-10NC HEX 2 26 127664 Cell Cover ASSY,Double 2 27 127007 Screw,Cap 1/4-20 x 1/2 8 28 15147 Washer,Lock 1/4 Regular 8 29 126925 Screw,Cap 1/4-20 x 2-3/4 2 30 14641 Nut,1/4-20NC HEX Steel 2 35 16863 Label,Scale/Base 1 36 14905 Screw,Drive NO 4x3/8 2 39 126799 Bushing , Oil Lite 1.75" x 1.5" x 0.75" 1 40 127637 Kit,OBW Reed Switch with 1 41 126980 Screw, Cap 3/4-10 x 2-1/2 4 44 126994 Nut, Hex 3/4-10 Grade 8		127656	Pin,Lower Load Cell 10K	2
126965 Pin,1/4 x 1-3/4 Slotted 10K MAS 4 23 128609 Lift Plate,Double 15K 1 128603 Lift Plate,Double 10K Low 1 24 126999 Screw,Cap 3/4-10 x 2 Hex 2 25 14686 Nut,Jam 3/4-10NC HEX 2 26 127664 Cell Cover ASSY,Double 2 27 127007 Screw,Cap 1/4-20 x 1/2 8 28 15147 Washer,Lock 1/4 Regular 8 29 126925 Screw,Cap 1/4-20 x 2-3/4 2 30 14641 Nut,1/4-20NC HEX Steel 2 35 16863 Label,Scale/Base 1 36 14905 Screw,Drive NO 4x3/8 2 39 126799 Bushing, Oil Lite 1.75" x 1.5" x 0.75" 1 40 127633 Sensor Assy, OBS Alarm 1 41 126840 Hose Clamp, No. 36 Band 1 42 127637 Kit,OBW Reed Switch with 1 43 126998 Screw, Cap 3/4-10 x 2-1/2 4 <td>22</td> <td>126926</td> <td>Pin,1/4 x 2-1/4 Slotted 15K 14</td> <td>4</td>	22	126926	Pin,1/4 x 2-1/4 Slotted 15K 14	4
128609 Lift Plate, Double 15K 1 128603 Lift Plate, Double 10K Low 1 24 126999 Screw, Cap 3/4-10 x 2 Hex 2 25 14686 Nut,Jam 3/4-10NC HEX 2 26 127664 Cell Cover ASSY,Double 2 27 127007 Screw,Cap 1/4-20 x 1/2 8 28 15147 Washer,Lock 1/4 Regular 8 29 126925 Screw,Cap 1/4-20 x 2-3/4 2 30 14641 Nut,1/4-20NC HEX Steel 2 35 16863 Label,Scale/Base 1 36 14905 Screw,Drive NO 4x3/8 2 39 126799 Bushing ,Oil Lite 1.75" x 1.5" x 0.75" 1 40 127638 Sensor Assy, OBS Alarm 1 41 126840 Hose Clamp, No. 36 Band 1 42 127637 Kit,OBW Reed Switch with 1 43 126998 Screw, Cap 3/4-10 x 2-1/2 4 44 126994 Nut, Hex 3/4-10 Grade 8 4		126965	Pin,1/4 x 1-3/4 Slotted 10K MAS	4
128603 Lift Plate, Double 10K Low 1 24 126999 Screw, Cap 3/4-10 x 2 Hex 2 25 14686 Nut, Jam 3/4-10NC HEX 2 26 127664 Cell Cover ASSY, Double 2 27 127007 Screw, Cap 1/4-20 x 1/2 8 28 15147 Washer, Lock 1/4 Regular 8 29 126925 Screw, Cap 1/4-20 x 2-3/4 2 30 14641 Nut, 1//4-20NC HEX Steel 2 31 16863 Label, Scale/Base 1 36 14905 Screw, Drive NO 4x3/8 2 39 126799 Bushing, Oil Lite 1.75" x 1.5" x 0.75" 1 40 127638 Sensor Assy, OBS Alarm 1 41 126840 Hose Clamp, No. 36 Band 1 42 127637 Kit, OBW Reed Switch with 1 43 126980 Screw, Cap 3/4-10 x 2-1/2 4 44 126994 Nut, Hex 3/4-10 Grade 8 4 47 126804 Bushing, Oil Lite 1	23	128609	Lift Plate,Double 15K	1
24 126999 Screw,Cap 3/4-10 x 2 Hex 2 25 14686 Nut,Jam 3/4-10NC HEX 2 26 127664 Cell Cover ASSY,Double 2 27 127007 Screw,Cap 1/4-20 x 1/2 8 28 15147 Washer,Lock 1/4 Regular 8 29 126925 Screw,Cap 1/4-20 x 2-3/4 2 30 14641 Nut,1/4-20NC HEX Steel 2 35 16863 Label,Scale/Base 1 36 14905 Screw,Drive NO 4x3/8 2 39 126799 Bushing , Oil Lite 1.75" x 1.5" x 0.75" 1 40 127633 Sensor Assy, OBS Alarm 1 141 126840 Hose Clamp, No. 36 Band 1 142 127637 Kit,OBW Reed Switch with 1 13 126980 Screw, Cap 3/4-10 x 2-1/2 4 45 15181 Washer, Lock 3/4 Regular 4 46 126994 Nut, Hex 3/4-10 Grade 8 4 47 126804 Bushing , Oil Lite 1.5" x 1.5" x 0.5" 4 48 126802 Bushi		128603	Lift Plate, Double 10K Low	1
25 14686 Nut, Jam 3/4-10NC HEX 2 26 127664 Cell Cover ASSY, Double 2 27 127007 Screw, Cap 1/4-20 x 1/2 8 28 15147 Washer, Lock 1/4 Regular 8 29 126925 Screw, Cap 1/4-20 x 2-3/4 2 30 14641 Nut, 1/4-20NC HEX Steel 2 35 16863 Label, Scale/Base 1 36 14905 Screw, Drive NO 4x3/8 2 39 126799 Bushing , Oil Lite 1.75" x 1.5" x 0.75" 1 40 127638 Sensor Assy, OBS Alarm 1 41 126840 Hose Clamp, No. 36 Band 1 41 126840 Hose Clamp, No. 36 Band 1 42 127637 Kit, OBW Reed Switch with 1 43 126980 Screw, Machine 10-32 x 1/2 4 44 126998 Sorew, Cap 3/4-10 x 2-1/2 4 45 15181 Washer, Lock 3/4 Regular 4 46 126994 Nut, Hex 3/4-10 Grade 8 4 47 126804 Bushing ,	24	126999	Screw,Cap 3/4-10 x 2 Hex	2
26 127664 Cell Cover ASSY,Double 2 27 127007 Screw,Cap 1/4-20 x 1/2 8 28 15147 Washer,Lock 1/4 Regular 8 29 126925 Screw,Cap 1/4-20 x 2-3/4 2 30 14641 Nut,1/4-20NC HEX Steel 2 35 16863 Label,Scale/Base 1 36 14905 Screw,Drive NO 4x3/8 2 39 126799 Bushing, Oll Lite 1.75" x 1.5" x 0.75" 1 40 127638 Sensor Assy, OBS Alarm 1 41 126840 Hose Clamp, No. 36 Band 1 42 127637 Kit,OBW Reed Switch with 1 43 126980 Screw, Cap 3/4-10 x 2-1/2 4 44 126998 Screw, Cap 3/4-10 x 2-1/2 4 45 15181 Washer, Lock 3/4 Regular 4 46 126994 Nut, Hex 3/4-10 Grade 8 4 47 126802 Bushing , Oil Lite 1.75" x 1.5" x 0.5" 4 48 126802	25	14686	Nut,Jam 3/4-10NC HEX	2
27 127007 Screw,Cap 1/4-20 x 1/2 8 28 15147 Washer,Lock 1/4 Regular 8 29 126925 Screw,Cap 1/4-20 x 2-3/4 2 30 14641 Nut,1/4-20NC HEX Steel 2 35 16863 Label,Scale/Base 1 36 14905 Screw,Drive NO 4x3/8 2 39 126799 Bushing , Oil Lite 1.75" x 1.5" x 0.75" 1 40 127638 Sensor Assy, OBS Alarm 1 41 126840 Hose Clamp, No. 36 Band 1 42 127637 Kit,OBW Reed Switch with 1 43 126980 Screw, Cap 3/4-10 x 2-1/2 4 44 126998 Screw, Cap 3/4-10 x 2-1/2 4 45 15181 Washer, Lock 3/4 Regular 4 46 126994 Nut, Hex 3/4-10 Grade 8 4 47 126804 Bushing , Oil Lite 1.5" x 1.25" x 0.5" 4 48 126802 Bushing , Oil Lite 1.75" x 1.5" x 2" 1 49 127031 Screw, Cap 1/4-20 x 2-1/4 2 50 127031<	26	127664	Cell Cover ASSY,Double	2
28 15147 Washer,Lock 1/4 Regular 8 29 126925 Screw,Cap 1/4-20 x 2-3/4 2 30 14641 Nut,1/4-20NC HEX Steel 2 35 16863 Label,Scale/Base 1 36 14905 Screw,Drive NO 4x3/8 2 39 126799 Bushing , Oil Lite 1.75" x 1.5" x 0.75" 1 40 127638 Sensor Assy, OBS Alarm 1 41 126840 Hose Clamp, No. 36 Band 1 42 127637 Kit,OBW Reed Switch with 1 43 126980 Screw, Machine 10-32 x 1/2 1 44 126998 Screw, Cap 3/4-10 x 2-1/2 4 45 15181 Washer, Lock 3/4 Regular 4 46 126994 Nut, Hex 3/4-10 Grade 8 4 47 126804 Bushing , Oil Lite 1.5" x 1.25" x 0.5" 4 48 126802 Bushing , Oil Lite 1.75" x 1.5" x 2" 1 49 127603 Hardware Kit, Hydraulic 2 50 127031 Screw, Cap 1/4-20 x 2-1/4 2 51 81427	27	127007	Screw,Cap 1/4-20 x 1/2	8
29 126925 Screw, Cap 1/4-20 x 2-3/4 2 30 14641 Nut, 1/4-20NC HEX Steel 2 35 16863 Label, Scale/Base 1 36 14905 Screw, Drive NO 4x3/8 2 39 126799 Bushing , Oil Lite 1.75" x 1.5" x 0.75" 1 40 127638 Sensor Assy, OBS Alarm 1 41 126840 Hose Clamp, No. 36 Band 1 42 127637 Kit,OBW Reed Switch with 1 43 126980 Screw, Machine 10-32 x 1/2 1 44 126998 Screw, Cap 3/4-10 x 2-1/2 4 45 15181 Washer, Lock 3/4 Regular 4 46 126994 Nut, Hex 3/4-10 Grade 8 4 47 126804 Bushing , Oil Lite 1.5" x 1.25" x 0.5" 4 48 126802 Bushing , Oil Lite 1.75" x 1.5" x 2" 1 49 127603 Hardware Kit, Hydraulic 2 50 127031 Screw, Cap 1/4-20 x 2-1/4 2 51 81427 Washer,Flat 1/4 Steel 2 52 127	28	15147	Washer,Lock 1/4 Regular	8
30 14641 Nut,1/4-20NC HEX Steel 2 35 16863 Label,Scale/Base 1 36 14905 Screw,Drive NO 4x3/8 2 39 126799 Bushing , Oil Lite 1.75" x 1.5" x 0.75" 1 40 127638 Sensor Assy, OBS Alarm 1 41 126840 Hose Clamp, No. 36 Band 1 42 127637 Kit,OBW Reed Switch with 1 43 126980 Screw, Machine 10-32 x 1/2 1 44 126998 Screw, Cap 3/4-10 x 2-1/2 4 45 15181 Washer, Lock 3/4 Regular 4 46 126994 Nut, Hex 3/4-10 Grade 8 4 47 126804 Bushing , Oil Lite 1.5" x 1.25" x 0.5" 4 48 126802 Bushing , Oil Lite 1.75" x 1.5" x 2" 1 49 127603 Hardware Kit, Hydraulic 2 50 127031 Screw, Cap 1/4-20 x 2-1/4 2 51 81427 Washer,Flat 1/4 Steel 2 52 127083 Valve,Hydraulic Line Lock 1 53 15147<	29	126925	Screw,Cap 1/4-20 x 2-3/4	2
35 16863 Label,Scale/Base 1 36 14905 Screw,Drive NO 4x3/8 2 39 126799 Bushing , Oil Lite 1.75" x 1.5" x 0.75" 1 40 127638 Sensor Assy, OBS Alarm 1 41 126840 Hose Clamp, No. 36 Band 1 42 127637 Kit,OBW Reed Switch with 1 43 126980 Screw, Machine 10-32 x 1/2 1 44 126998 Screw, Cap 3/4-10 x 2-1/2 4 45 15181 Washer, Lock 3/4 Regular 4 46 126994 Nut, Hex 3/4-10 Grade 8 4 47 126804 Bushing , Oil Lite 1.5" x 1.25" x 0.5" 4 48 126802 Bushing , Oil Lite 1.75" x 1.5" x 2" 1 49 127603 Hardware Kit, Hydraulic 2 50 127031 Screw, Cap 1/4-20 x 2-1/4 2 51 81427 Washer,Flat 1/4 Steel 2 52 127083 Valve,Hydraulic Line Lock 1 53 15147 Washer,Lock 1/4 Regular 2 54 14641	30	14641	Nut,1/4-20NC HEX Steel	2
36 14905 Screw,Drive NO 4x3/8 2 39 126799 Bushing , Oil Lite 1.75" x 1.5" x 0.75" 1 40 127638 Sensor Assy, OBS Alarm 1 41 126840 Hose Clamp, No. 36 Band 1 42 127637 Kit,OBW Reed Switch with 1 43 126980 Screw, Machine 10-32 x 1/2 1 44 126998 Screw, Cap 3/4-10 x 2-1/2 4 45 15181 Washer, Lock 3/4 Regular 4 46 126994 Nut, Hex 3/4-10 Grade 8 4 47 126804 Bushing , Oil Lite 1.5" x 1.25" x 0.5" 4 48 126802 Bushing , Oil Lite 1.75" x 1.5" x 2" 1 49 127603 Hardware Kit, Hydraulic 2 50 127031 Screw, Cap 1/4-20 x 2-1/4 2 51 81427 Washer,Flat 1/4 Steel 2 52 127083 Valve,Hydraulic Line Lock 1 53 15147 Washer,Lock 1/4 Regular 2 54 14641 Nut,1/4-20NC HEX Steel 2 55 <td< td=""><td>35</td><td>16863</td><td>Label,Scale/Base</td><td>1</td></td<>	35	16863	Label,Scale/Base	1
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40 127638 Sensor Assy, OBS Alarm 1 41 126840 Hose Clamp, No. 36 Band 1 42 127637 Kit,OBW Reed Switch with 1 43 126980 Screw, Machine 10-32 x 1/2 1 44 126998 Screw, Cap 3/4-10 x 2-1/2 4 45 15181 Washer, Lock 3/4 Regular 4 46 126994 Nut, Hex 3/4-10 Grade 8 4 47 126804 Bushing, Oil Lite 1.5" x 1.25" x 0.5" 4 48 126802 Bushing, Oil Lite 1.75" x 1.5" x 2" 1 49 127603 Hardware Kit, Hydraulic 2 50 127031 Screw, Cap 1/4-20 x 2-1/4 2 51 81427 Washer,Flat 1/4 Steel 2 52 127083 Valve,Hydraulic Line Lock 1 53 15147 Washer,Lock 1/4 Regular 2 54 14641 Nut, 1/4-20NC HEX Steel 2 55 127607 Hose Assy,Hydraulic Line 2 56 128242 Coupling,Hydraulic 6MB 1 57 128286	39	126799	Bushing , Oil Lite 1.75" x 1.5" x 0.75"	1
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44 126998 Screw, Cap 3/4-10 x 2-1/2 4 45 15181 Washer, Lock 3/4 Regular 4 46 126994 Nut, Hex 3/4-10 Grade 8 4 47 126804 Bushing , Oil Lite 1.5" x 1.25" x 0.5" 4 48 126802 Bushing , Oil Lite 1.75" x 1.5" x 2" 1 49 127603 Hardware Kit, Hydraulic 2 50 127031 Screw, Cap 1/4-20 x 2-1/4 2 51 81427 Washer,Flat 1/4 Steel 2 52 127083 Valve,Hydraulic Line Lock 1 53 15147 Washer,Lock 1/4 Regular 2 54 14641 Nut,1/4-20NC HEX Steel 2 55 127607 Hose Assy,Hydraulic Line 2 56 128242 Coupling,Hydraulic 6MB 1 57 128286 Coupling,Hydraulic 1/32 1 127638 Sensor Assy, OBS Magnetic Alarm 1 127015 Cable Tie 7 5 inch Black 4	43	126980	Screw, Machine TU-32 X 1/2	
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46 126994 Null, Hex 3/4-10 Grade 6 4 47 126804 Bushing, Oil Lite 1.5" x 1.25" x 0.5" 4 48 126802 Bushing, Oil Lite 1.75" x 1.5" x 2" 1 49 127603 Hardware Kit, Hydraulic 2 50 127031 Screw, Cap 1/4-20 x 2-1/4 2 51 81427 Washer,Flat 1/4 Steel 2 52 127083 Valve,Hydraulic Line Lock 1 53 15147 Washer,Lock 1/4 Regular 2 54 14641 Nut,1/4-20NC HEX Steel 2 55 127607 Hose Assy,Hydraulic Line 2 56 128242 Coupling,Hydraulic 6MB 1 57 128286 Coupling,Hydraulic 1/32 1 127638 Sensor Assy, OBS Magnetic Alarm 1 127015 Cable Tie 7 5 inch Black 4	45	106004	Washer, Lock 3/4 Regular	4
47 126804 Bushing, Oil Lite 1.5 x 1.25 x 0.5 4 48 126802 Bushing, Oil Lite 1.75" x 1.5" x 2" 1 49 127603 Hardware Kit, Hydraulic 2 50 127031 Screw, Cap 1/4-20 x 2-1/4 2 51 81427 Washer,Flat 1/4 Steel 2 52 127083 Valve,Hydraulic Line Lock 1 53 15147 Washer,Lock 1/4 Regular 2 54 14641 Nut,1/4-20NC HEX Steel 2 55 127607 Hose Assy,Hydraulic Line 2 56 128242 Coupling,Hydraulic 6MB 1 57 128286 Coupling,Hydraulic 1/32 1 127638 Sensor Assy, OBS Magnetic Alarm 1 127015 Cable Tie 7 5 inch Black 4	40	126994	Nul, Hex 3/4-10 Grade 6	4
46 126802 Busining, Oir Lite 1.75 X 1.5 X 2 1 49 127603 Hardware Kit, Hydraulic 2 50 127031 Screw, Cap 1/4-20 x 2-1/4 2 51 81427 Washer,Flat 1/4 Steel 2 52 127083 Valve,Hydraulic Line Lock 1 53 15147 Washer,Lock 1/4 Regular 2 54 14641 Nut, 1/4-20NC HEX Steel 2 55 127607 Hose Assy,Hydraulic Line 2 56 128242 Coupling,Hydraulic 6MB 1 57 128286 Coupling,Hydraulic 1/32 1 127638 Sensor Assy, OBS Magnetic Alarm 1 127015 Cable Tie 7 5 inch Black 4	47	120804	Bushing, Oil Lite 1.5 X 1.25 X 0.5	4
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50 127051 Sciew, Gap 1/4-20 X 2-1/4 2 51 81427 Washer,Flat 1/4 Steel 2 52 127083 Valve,Hydraulic Line Lock 1 53 15147 Washer,Lock 1/4 Regular 2 54 14641 Nut,1/4-20NC HEX Steel 2 55 127607 Hose Assy,Hydraulic Line 2 56 128242 Coupling,Hydraulic 6MB 1 57 128286 Coupling,Hydraulic 1/32 1 127638 Sensor Assy, OBS Magnetic Alarm 1 127015 Cable Tie 7 5 inch Black 4	49 50	127031	$\frac{1}{2} = \frac{1}{2} = \frac{1}{4} = \frac{1}{4}$	2
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52 127083 Valve, Hydraulic Line Lock 1 53 15147 Washer, Lock 1/4 Regular 2 54 14641 Nut, 1/4-20NC HEX Steel 2 55 127607 Hose Assy, Hydraulic Line 2 56 128242 Coupling, Hydraulic 6MB 1 57 128286 Coupling, Hydraulic 1/32 1 127638 Sensor Assy, OBS Magnetic Alarm 4	51	107000	Value Luder die Lies Leel	4
53 15147 Washer,Lock 1/4 Regular 2 54 14641 Nut,1/4-20NC HEX Steel 2 55 127607 Hose Assy,Hydraulic Line 2 56 128242 Coupling,Hydraulic 6MB 1 57 128286 Coupling,Hydraulic 1/32 1 127638 Sensor Assy, OBS Magnetic Alarm 1 127015 Cable Tie, 7.5 inch Black 4	52	127083	Valve, Hydraulic Line Lock	1
54 14641 Nut,1/4-20NC HEX Steel 2 55 127607 Hose Assy,Hydraulic Line 2 56 128242 Coupling,Hydraulic 6MB 1 57 128286 Coupling,Hydraulic 1/32 1 127638 Sensor Assy, OBS Magnetic Alarm 1 127015 Cable Tie, 7.5 inch Black 4	53	15147	Washer,Lock 1/4 Regular	2
55 127607 Hose Assy,Hydraulic Line 2 56 128242 Coupling,Hydraulic 6MB 1 57 128286 Coupling,Hydraulic 1/32 1 127638 Sensor Assy, OBS Magnetic Alarm 1 127015 Cable Tie, 7.5 inch Black 4	54	14641	Nut,1/4-20NC HEX Steel	2
56 128242 Coupling,Hydraulic 6MB 1 57 128286 Coupling,Hydraulic 1/32 1 127638 Sensor Assy, OBS Magnetic Alarm 1 127015 Cable Tie 7.5 inch Black 4	55	127607	Hose Assy,Hydraulic Line	2
57 128286 Coupling,Hydraulic 1/32 1 127638 Sensor Assy, OBS Magnetic Alarm 1 127015 Cable Tie 7.5 inch Black 4	56	128242	Coupling, Hydraulic 6MB	1
127638 Sensor Assy, OBS Magnetic Alarm	57	128286	Coupling,Hydraulic 1/32	1
127015 Cable Tie 7.5 inch Black	1	127638	Sensor Assy, OBS Magnetic Alarm	
		127015	Cable Tie,7.5 inch Black	4

Single Assembly Repair Parts



Item	Part No.	Description	Qty
1	128659	Base Single Low Profile	1
2	127183	Cylinder, Hydraulic 1.75 x	2
2a	126801	Bushing, Oil Lite 1-1/4 x	4
3	126942	Ring, Retaining External	2
4	127648	Lift Arm Assy, Low Profile	1
5	127649	Lift Arm Assy, Low Profile	1
8	127653	Pin, Upper Cylinder Low	2
9	127652	Spacer, Lift Arm Low	2
10	127662	Sleeve, Lift Arm Lockdown	2
11	127667	Screw Cap, 1-14UNSx3 Hex	2
12	126800	O-Ring,1 IN ID X 1-1/8 IN	2
13	14751	Bolt,1/2-13NCx1 HEX Head	2
14	15167	Washer, Lock 1/2 Regular	2

Item	Part No.	Description	Qty
15	127663	Washer, Pivot Pin Low	2
18	127655	Pin, Upper Load Cell 15K	2
	127654	Pin, Upper Load Cell 10K	2
		LC with eye bolts 15K 14	2
19	128969	Load Cell, S-Type 15K OIML	1
20	127643	Eyebolt, Machined 15K 14	2
		LC with eye bolts 10K MAS	2
19	21444	Load Cell, SBM RL20000B-	1
20	127163	Eyebolt, Machine 10K MAS	2
		LC with eye bolts	2
19	21443	Load Cell, SBM RL20000B-5K	1
20	127163	Eyebolt, Machine 10K MAS	2
21	127657	Pin, Lower Load Cell 15K	1
	127656	Pin, Lower Load Cell 10K	1
22	126926	Pin, 1/4 x 2-1/4 Slotted 15K 14	2
	126965	Pin,1/4 x 1-3/4 Slotted 10K MAS	2
23	128858	Lift Plate, Single 15K Low	1
	128660	Lift Plate Single 10K Low	1
24	126999	Screw, Cap 3/4-10 x 2 Hex	1
25	14686	Nut, Jam 3/4-10NC HEX	1
26	128661	Cell Cover, Single	1
27	12/00/	Screw, Cap 1/4-20 x 1/2	3
28	15147	Washer, Lock 1/4 Regular	3
29	126925	Screw, Cap 1/4-20 X 2-3/4	2
30	120993	Inul, 5/10-10ING HEX SLEEP	- 2
30	127000	Label, Scale/Dase (OBTU & OBTS)	1
36	128136	Rivet Blind Pop 1/80	1
30	126700	Rushing Oil Lite 1.75" x 1.5" x 0.75"	4
40	127638	Sensor Assy OBS Alarm	1
41	126840	Hose Clamp, No. 36 Band	1
42	127637	Kit OBW Beed Switch with	1
43	126980	Screw, Machine 10-32 x 1/2	1
44	126998	Screw, Cap 3/4-10 x 2-1/2	4
45	15181	Washer, Lock 3/4 Regular	4
46	126994	Nut, Hex 3/4-10 Grade 8	4
47	126804	Bushing . Oil Lite 1.5" x 1.25" x 0.5"	4
48	126802	Bushing , Oil Lite 1.75" x 1.5" x 2"	1
49	127603	Hardware Kit, Hydraulic	2
50	127031	Screw, Cap 1/4-20 x 2-1/4	2
51	81427	Washer, Flat 1/4 Steel	2
52	127083	Valve, Hydraulic Line Lock	1
53	15147	Washer, Lock 1/4 Regular	2
54	14641	Nut, 1/4-20NC HEX Steel	2
55	127607	Hose Assy, Hydraulic Line	2
56	128242	Coupling, Hydraulic 6MB	1
57	128286	Coupling, Hydraulic 1/32	1
<u> </u>	127638	Sensor Assy, OBS Magnetic Alarm	1
	127015	Cable Tie,7.5 inch Black	4

On-Board Weighing System 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 unless otherwise stated.

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 MERCHANTABIL-ITY OR FITNESS FOR A PARTICULAR PURPOSE. NEITHER RLWS NOR DISTRIBU-TOR WILL, IN ANY EVENT, BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

RLWS AND BUYER AGREE THAT RLWS' SOLE AND EXCLUSIVE LIABILITY HERE-UNDER IS LIMITED TO REPAIR OR REPLACEMENT OF SUCH GOODS. IN ACCEPT-ING 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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For More Information

Web Site

• Frequently Asked Questions (FAQs) at

http://www.ricelake.com/faqs.aspx

Contact Information Hours of Operation

• Knowledgeable customer service representatives are available 6:30 a.m. - 6:30 p.m. Monday through Friday and 8 a.m. to 12 noon on Saturday. (CST)

Telephone

- Sales/Technical Support 800-472-6703
- Canadian and Mexican Customers 800-321-6703
- International 715-234-9171

Immediate/Emergency Service

For immediate assistance call toll-free 1-800-472-6703 (Canadian and Mexican customers please call 1-800-321-6703). If you are calling after standard business hours and have an urgent scale outage or emergency, press 1 to reach on-call personnel.

- Fax Number 715-234-6967
- Fax Number 715-234-9171

E-mail

• • US sales and product information at

prodinfo@ricelake.com

• • International (non-US) sales and product information at

intlsales@ricelake.com

Mailing Address

Rice Lake Weighing Systems 230 West Coleman Street Rice Lake, WI 54868 USA

Notes



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