

# MSI-9600 Port-A-Weigh Crane Scale

## MSI-4300 to MSI-9600 Retrofit Kit Installation

The MSI-9600 Retrofit Kit updates the MSI-4300 to the most current configuration. Generation information is located on the serial tag.



Manuals are available from Rice Lake Weighing Systems at [www.ricelake.com/manuals](http://www.ricelake.com/manuals)

Warranty information is available at [www.ricelake.com/warranties](http://www.ricelake.com/warranties)

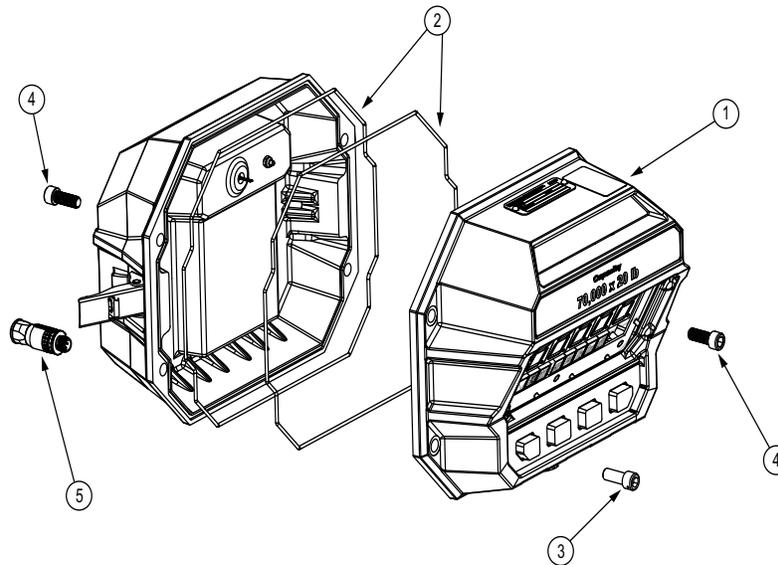


Figure 1. MSI-4300 to MSI-9600 Retrofit Kit Parts Diagram

Item No.	Part No.	Description	Qty
1	213677	Front Casting Assembly LED Display 9600	1
2	147996	O-Ring Assembly Front/Back Casting	2
3	133598	Screw Seal 3/8-16 x 1 SS Drilled Head	1
4	91869	Screw, Cap 3/8-16NC x 1 Hex Socket Head	7
5	162185	Connector, M12 4 Pin Male Field Wireable 6-8mm OD Straight	1
	147997	O-Ring Assembly Bulkhead	1
	142574	Screw HH BLK 6-32 1/4	1
	213679	Bulkhead Assembly 9600	1
	149679	Tag Serial Number	1
	146005	Screw Seal 6-32 x 5/16	2
	214630	Overlay Descriptive 9600	1
	143272	Washer Seal #6 Steel	1
	145962	Screw RH 4 X 1/4 U Type Drive Plated	2
	148218	Label Warning Crane Scale	1
	150367	Port-A-Weigh Battery Assembly 12V Rechargeable Non-Spillable	1
	159855	Overlay TranSend FCC	1
	212941	Casting Assembly Rear 12V SLA 9600 with Hinged Door	1

Table 1. MSI-4300 to MSI-9600 Retrofit Kit Parts List

## 1.0 Removing the Front and Back Casting

 **WARNING:** Ensure scale is disconnected from power before starting the procedure.

1. Turn off the MSI-4300 scale.
2. Remove the front casting and bulkhead assembly by loosening the screws securing them.
3. Unplug the load cell and power cables from the front casting and bulkhead.
4. Remove the back casting by loosening the screws securing it.

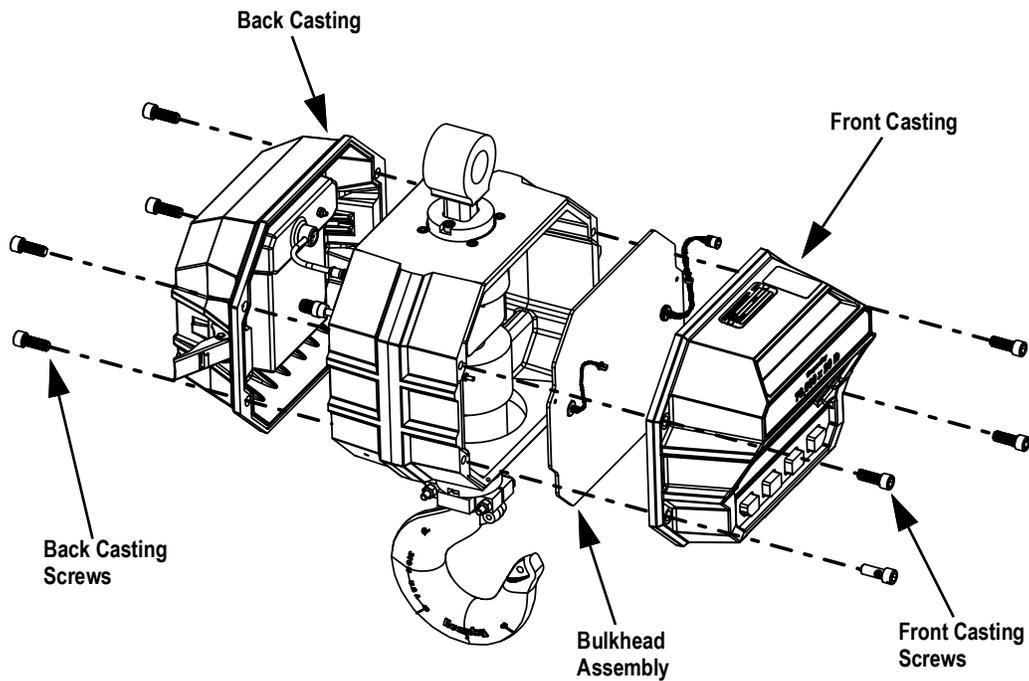


Figure 2. Casting Removal

## 2.0 Rewiring Load Cell Cable

1. Locate the cable coming out of the load cell.
2. Cut the connector off as close to the connector as possible.
3. Strip the cable jacket as needed to allow 1/2 – 3/4 inch of exposed conductors, Red, Green, White and Black.
4. Cut the shield/drain wire flush with the end of jacket.
5. Strip the Red, Green, White and Black wires approximately 1/4 inch and tin with solder.
6. Connect the wires to the connector together as shown in [Table 2](#) and [Figure 3](#).

L/C Cable Conductor Color	Function	Connector Pin Number
Red	+Excitation	1
Black	-Excitation	2
Green	+Signal	3
White	-Signal	4

Table 2. Load Cell Cable Connections



Figure 3. L/C Cable Connector

## 3.0 Reassembling the Unit

1. Attach the 12V rechargeable battery assembly to the back casting.
2. Place the front/back casting O-ring in the groove of the new back casting.
3. Place the back casting on the mid-casting assembly and secure with the supplied 3/8 inch drive head screws, torqued to 20-25 ft-lbs (see [Figure 2 on page 2](#)).
4. Place the front/back casting O-ring in the groove of the front casting/bulkhead assembly.
5. Plug the updated cables into the cable connectors on the bulkhead. The load cell cable connects to the female connector on the bulkhead and power cable connects to the male connector.
6. Place the front casting on the mid-casting assembly and secure with the supplied 3/8 inch drive head screws, torqued to 20-25 ft-lbs (see [Figure 2 on page 2](#)).
7. Calibrate the unit. See the MSI-9600 Technical Manual for calibration instructions.



**IMPORTANT:** Ensure that the load cell and power cables are not compressed against the load cell when installing the front casting on the mid-casting assembly.



**IMPORTANT:** To comply with NTEP, remove the old serial tag on the mid casting. The new serial tag is located on the front casting.



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