



**User's Guide**

# **Enviro Series**

## **Washdown Bench Scale**

# Amendment Record

## Enviro™ Washdown Bench Scale

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## Section 1 Introduction

Enviro™ Bench Scales are stand-alone scale bases that may be used with any compatible Hardy Instruments Weighing Controller / indicator, including the Hardy Enviro™ Series Checkweigher. They are constructed of stainless steel and are designed to be used in a rugged and sanitary check weighing application. The load cells are made from either aluminum or stainless steel. This manual contains information on all Enviro™ bases to date.

Hardy Instruments appreciates your business. Should you not understand any information in this manual or experience any problem with the product, contact our Customer Service Department at:

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### Assembly:

1. The Bench Scale is shipped fully assembled. Inspect the packing and the Bench Scale for shipping damage, be sure to remove any packing material from the Bench Scale.

**Note:** The load cell cable is shipped with the ends of the wires "tinned." DO NOT lengthen or shorten the load cell cable as this may void any warranties.

2. Wire the load cell cable to the indicator per the following wire lists.

### All Bench Scales

Function	Wire Color	Function	Wire Color
Excitation (-)	Black	N/C ---	—
Excitation (+)	Green	Shield	Shield
Sense (+)	—	Output (+)	White
Sense (-)	—	Output (-)	Red

## Section 2 Enviro™ Bench Scale Model Numbers

Drawing #	Description	Sales Model Numbers to Order	Capacity (lb)
30290	Scale Assy, Hardy 10x10-2# with pillar and Instrument	HICWSB1010-0002	2
30291	Scale Assy, Hardy 10x10-6# with pillar and Instrument	HICWSB1010-0006	6
30292	Scale Assy, Hardy 10x10-10# with pillar and Instrument	HICWSB1010-0010	10
30293	Scale Assy, Hardy 10x10-25# with pillar and Instrument	HICWSB1010-0025	25
30294	Scale Assy, Hardy 12x12-30# with pillar and Instrument	HICWSB1212-0030	30
30295	Scale Assy, Hardy 12x12-50# with pillar and Instrument	HICWSB1212-0050	50
30296	Scale Assy, Hardy 18x18-50# with pillar and Instrument	HICWSB1818-0050	50
30297	Scale Assy, Hardy 18x18-100# with pillar and Instrument	HICWSB1818-0100	100
30274	PLATFORM ASSY, HARDY 10x10 - 2# CAP	HIWDPS1010-0002	2
30275	PLATFORM ASSY, HARDY 10x10 - 6# CAP	HIWDPS1010-0006	6
30276	PLATFORM ASSY, HARDY 10x10 - 10# CAP	HIWDPS1010-0010	10

30277	PLATFORM ASSY, HARDY 10x10 - 25# CAP	HIWDPS1010-0025	25
30278	PLATFORM ASSY, HARDY 12x12 - 30# CAP	HIWDPS1212-0030	30
30279	PLATFORM ASSY, HARDY 12x12 - 50# CAP	HIWDPS1212-0050	50
30280	PLATFORM ASSY, HARDY 18x18 - 50# CAP	HIWDPS1818-0050	50
30281	PLATFORM ASSY, HARDY 18x18 - 100# CAP	HIWDPS1818-0100	100
29972	Instrument Assy-IP69 Hardy	HICWM	NA

## Section 3 Parts Replacement

### Load Cell Replacement, All Models

1. Remove power to the scale.
2. Gain access to the load cell cable.
3. Disconnect the load cell cable from the indicator.  
**Note:** The color and location of the load cell wires.
4. Remove the Bench Scale cover and the locator plate.
5. Remove the bolts holding the "spider" to the load cell. Remove the "spider", the load cell cover, and the upper load cell block.
6. From the underside of the Bench Scale, remove the load cell mounting bolts.
7. Remove any tie wraps securing the load cell cable to the base.
8. Remove the old load cell and the lower load cell block.
9. Clean all parts before assembling and use an anti-seize product on all bolts.
10. Place the lower load cell block under the new load cell and secure it to the bottom of the Bench Scale using the load cell bolts.
11. Route the load cell cable through the hole in the bottom of the Bench Scale.
12. Replace the upper load cell block, the load cell cover and the "spider" and secure with the bolts.
13. Replace the locator plate and the Bench Scale cover.
14. Connect the wires to the indicator.

Description	Wire Color	Description	Wire Color
Excitation (-)	Black	N/C ---	—
Excitation (+)	Green	Shield	Shield
Sense (+)	—	Output (+)	White
Sense (-)	—	Output (-)	Red

15. Recalibrate the indicator as necessary.

## Bench Scale Parts: All Models

Item #	Part #	Description	Pound capacity	Diagram
2	15081	Load Cell Aluminum	6	
	15082	Load Cell Aluminum	12	
	15083	Load Cell Aluminum	24, 40	
	15084	Load Cell Aluminum	60	
	15085	Load Cell Aluminum	100	
2	14961	Load Cell Stainless	6	
	14962	Load Cell Stainless	12	
	14963	Load Cell Stainless	24, 40	
	14964	Load Cell Stainless	60	
	14965	Load Cell Stainless	100	
	14966	Load Cell Stainless	200	
4	14948	Load Cell Cover	6, 12, 24, 40, 60	
	14994	Load Cell Cover	100, 200	
5	14946	Spider	6	
	14945	Spider	12	
	14990	Spider	24, 40	
	15029	Spider	60	
	15030	Spider	100	
	14997	Spider	200 (SS only)	
6	14950	Bench Scale Cover	6, 12, 24	
	14996	Bench Scale Cover	40, 60	
	15000	Bench Scale Cover	100, 200	
7	15242	Load Cell Block (upper & lower)	6, 12, 24 AL	
7	14947	Load Cell Block (upper)	40, 60 AL	
30	15034	Load Cell Block (lower)	40, 60 AL	

Item #	Part #	Description	Pound capacity
7	15031	Load Cell Block (upper & lower)	100 AL (16 x 18)
7	15030	Load Cell Block (upper & lower)	200 AL (16 x 18)
7	14947	Load Cell Block (upper & lower)	6, 12, 24 SS
7	14947	Load Cell Block (upper)	40, 60 SS
30	15034	Load Cell Block (lower)	40, 60 SS
7	15031	Load Cell Block (upper & lower)	100 SS (16 x 18)
7	15031	Load Cell Block (upper & lower)	200 SS (16 x 18)
8	14949	Plate, Location	6, 12, 24
	14995	Plate, Location	40, 60
	14999	Plate, Location	100, 200
9	15011	Bench Scale Base	6,12, 24
	14989	Bench Scale Base	40, 60
	14998	Bench Scale Base	100, 200
11	15017	Clip, Ground	6, 12, 24, 40, 60
11	15018	Clip, Ground	100, 200
12	11059	Screw, Hx Hd Cap 3/8-16x.75	100, 200
13	11047	Screw, Hx Hd Cap 3/8-16x1.25	100, 200
13	11048	Screw, Hx Hd Cap 1/4-20x1.00	6, 12, 24, 40, 60
14	11072	Screw, Hx Hd Cap 1/4-20x.38	6, 12, 24, 40, 60
20	14220	Foot Assembly	All Models
22	11033	Grommet	40, 60, 100, 200
24	11035	Grommet	40, 60, 100, 200