Quick Installation Guide

Step 1: *Mount the Bracket Assembly*

1. Remove all bolts connecting the leg to the footpad. Loosen the original anchor bolt but leave it intact at the bottom of the footpad. (Figure 1)

Figure 1

2. Remove the **1/2"** bolts from the C-channel adapter of the bracket assembly and set them aside for now.

3. Adjust the top bolt on the bracket assembly so the C-channel is approximately **3/4"** between the top of the C-channel and the bracket.
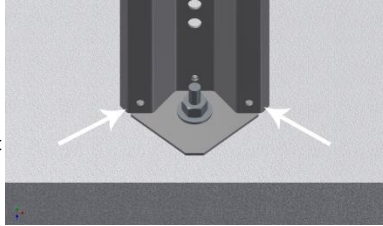
4. Mark the holes of the C-channel on the bin leg and drill using **1/2"** drill bit. (Figure 2)

5. Put the bolts in from the C-channel side through the leg. Place a washer and Nylock nut on each bolt; hand-tighten.

Figure 2

6. Position the bracket assembly so that it is **3/8"** away from the bin leg and the C-channel is centered under the load cell. **NOTE: Failure to properly align the bracket may cause the load cell to fail.**

7. Hand-tighten the top bolt on the bracket assembly to make sure the bracket is straight and to keep it in place.

8. Tighten C-channel bolts to 33 ft-lbs. of torque. Make sure the bracket does not move during tightening.

Step 2: *Lift the Bin*

1. Place a line using a marker on the top of the bolt. (Figure 3)

2. Tighten the lifting bolt on each leg 1 full turn at a time, moving clockwise, until each leg is at approximately 7 or 8 turns.

Figure 3

3. Lift until there is a **¼"** to **½"** gap underneath each leg. (Figure 4)

4. The top of the C-channel **MUST NOT** be up against the bracket assembly: a clearance of **¼"** (+/- 1/8") must be maintained.

5. Be sure to check the height of each leg and verify the bracket is not touching the leg.
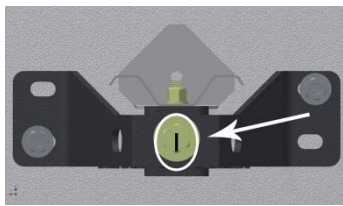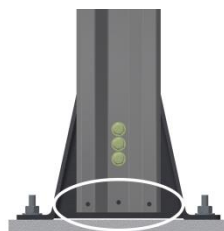
Figure 4

Step 3: *Anchor the Bracket Assembly*

1. Drill two anchor bolt holes **2 1/4"** deep in the pad diagonally opposite of each other. (Figure 5)

2. Hammer anchor bolts into the cement until they are firmly in place.

Figure 5

3. Tighten the nuts of the anchor bolts using a socket or hammer drill to anchor the bracket assembly. Torque to 55 ft-lbs.

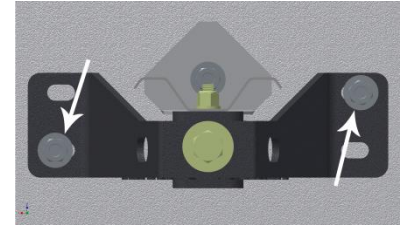4. Place retention clip on top of bolt. (Shaded in Figure 6)
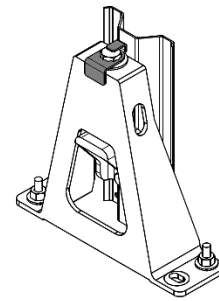
Figure 6

Step 4: *Wiring the Summing Box*

1. Mount the Smart Summing Box (SSB) on the crossbar under the bin near the front using self-tapping screws where it is easily accessible for maintenance.

2. Run the cable from each load cell over to the summing box.

3. Before plugging the cables in, remove the black plastic lock nut from each cable strain relief. Remove the red plug from each predrilled hole. Pass the cable through the box and then tighten the nut.

4. Plug in the load cells starting in the upper left until all load cells are plugged in.

5. Pass the communication cable through the gray liquid tight strain relief on the right side of the enclosure.

6. Using an appropriately sized wire nut, connect the wires according to the chart in Figure 7.

4 Conductor cable	Smart Summing box
RED Wire	RED Wire (+12V)
BLACK Wire	BLACK Wire (-12V)
GREEN Wire	GREEN Wire (+SIG)
WHITE Wire	WHITE Wire (-SIG)

Figure 7

7. Attach the GREEN ground wire to the bin via one of the screws used to attach the SSB.

8. Run the communication wire to the next SSB or to the BinTrac Indicator. *NOTE: When wiring more than one SSB to a BinTrac Indicator, start from the furthest SSB and "daisy chain" the remaining SSB's until you get to the BinTrac Indicator.*
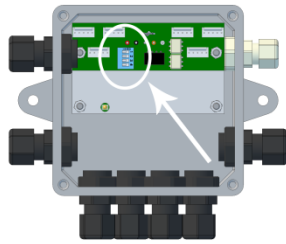
For more detail refer to the BinTrac® Installation/Operation Manuals at www.bintrac.com or Installation video at www.youtube.com/HerdstarLLC

Quick Installation Guide

9. Tighten every strain-relief ("dome nuts") on the box. First tighten the nuts to attach the strain reliefs to the box. Then tighten the dome nut until the cable cannot be pulled out of the box.

10. Set the appropriate bin (A, B, C or D) using the dip switches inside the summing box. (Figure 8)

BIN	S1	S2	S3	S4	
A	OFF	OFF	OFF	OFF	
B	ON	OFF	OFF	OFF	
C	OFF	ON	OFF	OFF	
D	ON	ON	OFF	OFF	

Figure 8

Step 5: *Wiring the Bintrac Power Supply*

1. The BinTrac PS17 is intended for INDOOR USE ONLY and should be mounted in the office or hallway.
2. Whether mounted indoors or outdoors, the cable needs to be run in conduit or tied to a feed line or other structure preventing entanglement by a person walking between the bin and building or from equipment being moved in the area.
3. Once the cable is routed from the Power Supply to the BinTrac Indicator and has been tied up out of the way, cut off any excess cable.

WARNING: The PS17 operates in HIGH VOLTAGE. The selector switch toggles between 115V (default) and 230V. Be sure power is disconnected before servicing the PS17. Consult your State and Local electrical codes before installation or service.

Step 6: *Wiring the BinTrac Indicator*

1. Locate the terminal block in the BinTrac Indicator labeled 'BINS'.
2. Insert the wires into the terminal block where RED is +12V, GREEN is +SIG, WHITE is –SIG and BLACK is -12V. (Figure 9)
3. Connect the wires from the BinTrac Power Supply to the terminal block labeled 'PWR' where WHITE is +12V and BLACK is -12V.
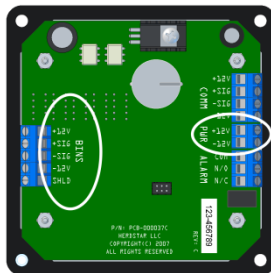

Figure 9

Step 7: *Setting up the BinTrac Indicator*

1. Hold BIN key until SETUP appears, then release.
2. Press DOWN arrow until 'BIN' appears.
3. Press the BIN key to go to 'A'. Press DOWN arrow to enable (solid light) or disable (flashing light) the bins. Use the same procedure to enable/disable bins B, C or D depending upon your configuration.
4. Once the bins are configured, use the DOWN arrow to go to 'L.C. CAP'. This value is the load cell capacity multiplied by the number of bin legs. Press the BIN key to modify the first enabled bin. Use the UP or DOWN arrows to change the weight until set properly. Use the same procedure for the remaining active bins. *EXAMPLE: A 6 legged bin with 10k load cells equals 60,000.*
5. Next, use the DOWN arrow to go to 'FULL'.
6. Press the BIN key to modify the first enabled bin. The 'FULL' number is the bin capacity. Use the UP or DOWN arrows to change the weight until set properly. Use the same procedure for the remaining active bins. *EXAMPLE: A 9 ton bin will have a 'FULL' value of 18,000.*
7. If the bin is empty, exit the SETUP menu, then press and hold the DOWN and UP arrows simultaneously until the bin reads '0' to zero the bin.

Note: The settings above are in lbs. but can be changed to kg by simply entering the metric value. EXAMPLE: 60,000 lbs. = 27,216 kg.

TROUBLESHOOTING

The below messages identify either a wiring or settings issue. Consult the BinTrac® Operation Manual for further information.

1. **no.bin** - The Smart Summing Box for the selected bin is not communicating. Verify wiring is correct and there is power to the unit. Inspect Smart Summing Box internal diagnostic light; 1) flashing regular: normal working condition, 2) off: no power indication, 3) flashing irregular: unable to communicate.
2. **no.con** – This error message indicates the BinTrac Indicator has been programmed as a Remote Display. Consult the BinTrac Operation Manual on procedure to change or configure.
3. **no.PuL** - This error message indicates that the BinTrac Indicator has been programmed for a PULSE output. Consult the BinTrac Operation Manual on procedure to change the PULSE configuration.
4. **oLOAd** -The weight in the bin has exceeded the programmed system capacity by 150% and the system is in an over-load state. Verify capacity settings.
5. *Error* – The BinTrac Indicator is unable to display the current value or the value is outside the displayable range. Verify programmed settings are correct including zero or check for faulty load cell.

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