



Load Cell Replacement Procedure



For safety reasons and to prevent potential damage to the bin and/load cell(s), only proceed with load cell replacement when the bin is at 10% or less capacity.

Preparation:

1. Identify the defective load cell.
2. Trace defective load cell cable back to Summing Box and mark strain relief.
3. Open Summing Box and unplug defective load cell.
4. Verify weight reading is corrected with load cell unplugged.

Load Cell Removal:

1. Place shims securely under defective load cell bin leg.
2. Free load cell cable from bracket and bin leg by cutting the cable ties.
3. Disconnect load cell from within Summing Box (if not done during **Preparation**).
4. Remove inside nut of cable liquid-tight strain relief.
5. Remove load cell cable including liquid-tight strain relief from Summing Box.
6. Mark position of A-Frame lifting bolt with marker (see **Figure 1** for part identification).
7. Turn lifting bolt counterclockwise and record the number of turns needed to remove it from top of load cell.
8. Remove bolts connecting C-Channel adapter to bin leg.
9. Remove load cell and C-Channel adapter from A-Frame bracket.
10. Note how far the threads of the bottom bolt are going into the load cell (for example, take a photo). Remove bottom bolt connecting C-Channel adapter to load cell. Thread-locking fluid has been used on this bolt and extra force may be required to remove it.

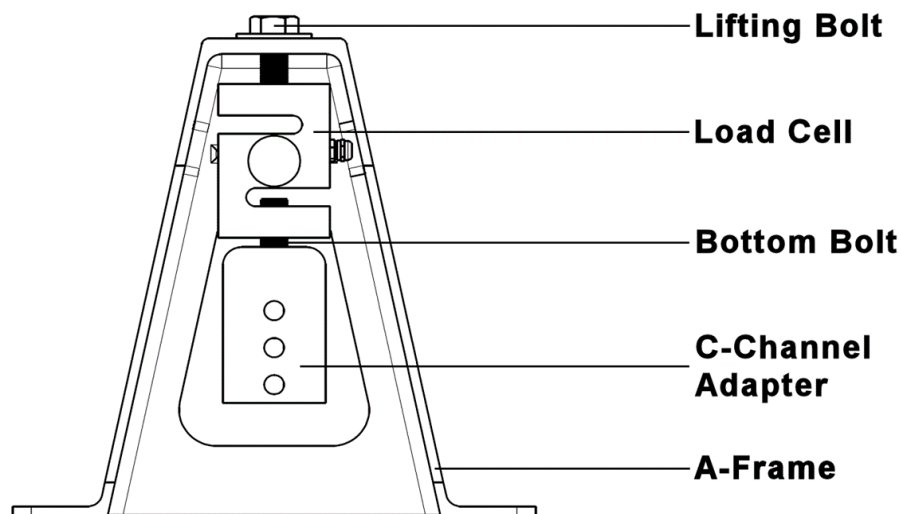


Figure 1

Replacement:

1. Thread load cell cable through the A-Frame slotted bracket opening closest to the cable connection on the load cell and route with other cables up to Summing Box.
2. Remove mounting nut from liquid-tight strain relief and separate it from the cable, removing it over the load cell connector plug.
3. Place load cell connector plug through enclosure opening and place liquid-tight mounting nut back over plug and tighten.
4. Plug load cell into Summing Box and verify readings are not out of range as was done in **Preparation**.
5. Partially thread C-Channel bottom bolt through C-Channel adapter into load cell.
6. Apply thread-locking fluid to C-Channel bottom bolt, ensuring good coverage.
7. Continue threading C-Channel bottom bolt until it matches how far it was threaded in **Load Cell Removal Step 10**.
8. Place load cell C-Channel adapter into A-Frame bracket.
9. Bolt legs to C-Channel adapter making sure nuts are tightened to 33 ft.-lbs.
10. Thread Lifting Bolt clockwise into top of load cell, tightening the same number of turns as when removed. As the load cell begins carrying weight, it may start to turn – insert a flathead screwdriver between the load cell and bracket assembly to prevent the load cell from turning and pinching cable against bracket.
11. Remove shims from under bin leg.
12. Verify that weight appears correct.
13. Make a drip loop on the outside of the A-Frame bracket slotted opening with the load cell cable to ensure moisture is routed away from the load cell assembly (see **Figure 2**).
14. Using cable ties, tie remaining load cell cable to bin leg and other cables.



Figure 2