

P/N 203983
AFD-200
Load Cell
Rebuilt

Automated Equipment, LLC
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AFD-200 LOAD CELL (Rebuilt) P/N 203983 REPLACEMENT AND ADJUSTMENT

Tools Required

- 3/16 inch allen wrench
- Small flat blade screwdriver

REMOVAL

Note: Unplug the power cord and remove air supply before proceeding.

1. Remove the hopper from the front of the dispenser.
2. Loosen accumulator door shaft collar set screws and slide them away from the dispenser.
3. Remove the upper and lower back panels from the unit.
4. Loosen the two (2) Load Cell mounting bolts at the top of the Load Cell block. See diagram on page 2.
5. Remove four (4) Pivot Block bolts from the Load Cell spacer block retaining the pivot block assembly.
6. Disconnect the Load Cell cable connector from the Load Cell circuit board and remove from wire chase.
7. Remove the two (2) Load Cell mounting bolts. (Loosened in step one)
8. Tip accumulator doors up in front to allow for removal of the Load Cell/Spacer block assembly.
9. Remove the two (2) Spacer Block bolts from the bottom of the spacer block.

INSTALLATION

Note: Use of Blue LocTite is recommended on all 1/4" bolts.

1. Assemble spacer block to Load Cell using two (2) Spacer Block bolts.
Note: Do not apply excessive force to Load Cell.
2. Tip accumulator doors upward to allow placement of the Load Cell and spacer block assembly.
3. Insert two Load Cell mounting bolts into the top of the Load Cell, through the Top Plate.
*Note: Be sure to include the spacer washers between the Top Plate and the Load Cell.
Do not tighten at this time. The Load Cell cable must face the rear of the dispenser.*
4. Assemble pivot block assembly to spacer block using four (4) Pivot Block bolts.
Note: Do not apply excessive force to the Load cell when tightening these bolts.
5. Replace the hopper on front of dispenser and lock into position using hopper lock pins.
6. Center accumulator doors to opening in hopper using two (2) Load Cell mounting bolts at the top of the Load Cell for the FRONT/BACK adjustment.
7. Center accumulator doors to opening in hopper using four (4) Top Plate bolts into Load Cell Top plate for LEFT/RIGHT adjustment.

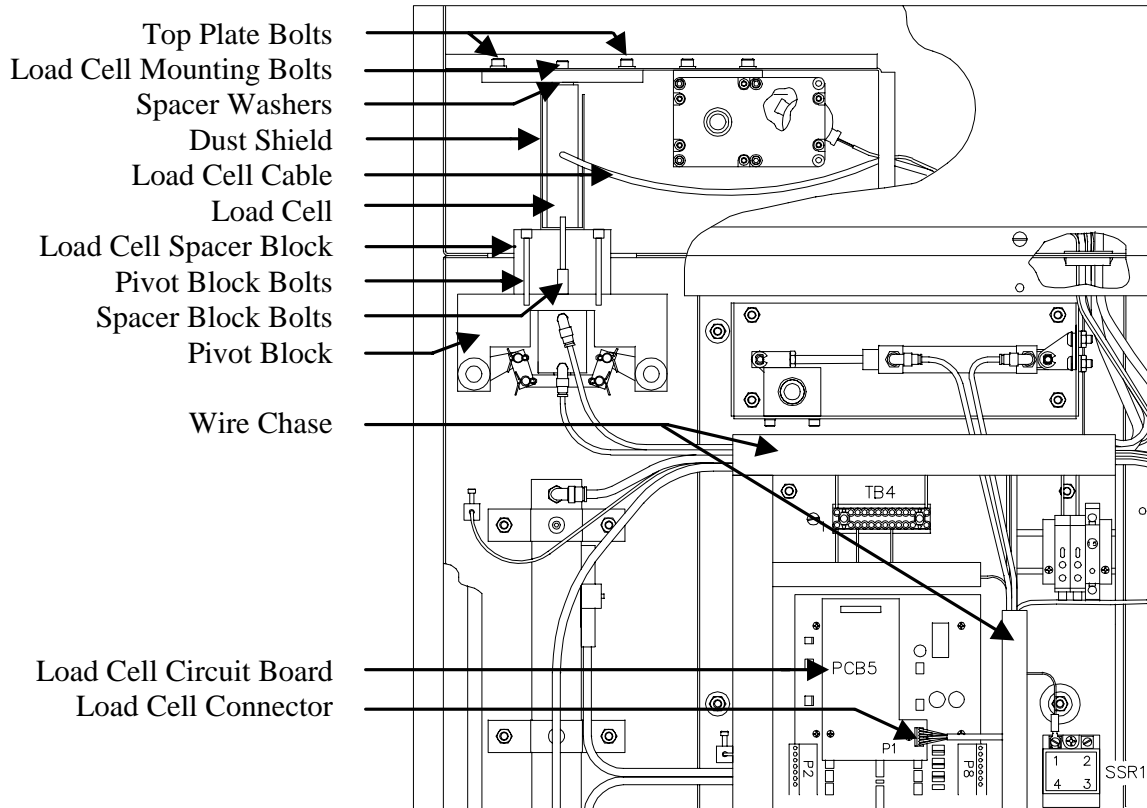
Note: Accumulator door shafts must not make contact with the clearance holes through the unit wall.

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8. Slide accumulator door shaft collars within 1/8" from dispenser walls and tighten set screws.
9. Route Load Cell cable through two (2) holes in dispenser framework and through wire chase.
10. Clean Load Cell connector pins using pencil eraser prior to connecting Load Cell cable to the Load Cell circuit board.
11. Calibrate the Load Cell.
12. Cycle baskets and fries through dispenser to verify proper operation.
13. Replace back panels and place the dispenser back in service.



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AFD-200/AFS-100 LOAD CELL CALIBRATION

Tools required: Small, standard adjustment screwdriver, Volt meter and pencil eraser.

Note: The LOAD CELL board is "L" shaped and piggy backed on the upper section of the Dispenser I/O board. The LOAD CELL board Test Points are on the left edge and labeled: "ANALOG", "VOUT" and VREF2".

**Steps 2 and 3 are applicable to AFD-200 only.

1. Remove the hopper from the dispenser.
2. Remove the upper back panel of the dispenser.
3. Verify the BASKET LOAD OFFSET ADJUSTMENT switches are in the OFF position.
4. Remove the lower back panel of the dispenser.
5. Trip the circuit breaker for the drum motor and cycle a basket through the dispenser to empty the accumulator doors.
6. Unplug load cell Molex connector from load cell board and clean the contact pins with a pencil eraser.
Reconnect the load cell harness.
7. Using the digital voltmeter, connect the negative "BLACK" lead to the test point labeled ANALOG.
8. Connect the positive "RED" lead to the test point labeled VREF2.
9. Turn the potentiometer labeled RP3 "A/D VREF" until the meter indicates 2.4 VDC.
10. Connect the positive "RED" lead to the test point labeled "VOUT".
11. Turn potentiometer RP1 "OFFSET ADJ" until the meter indicates 0 VDC +/- .010.
Reading may drift +/- 0.003 and still be acceptable.
12. Place a 2 pound weight on the accumulator doors.
(e.g.Eight 4:1 patties OR 2-16 oz blocks of butter)
13. Turn potentiometer RP2 "GAIN ADJ" until the meter indicates 4.8 VDC.
14. Remove the 2 pound weight and verify that the meter returns to 0 VDC +/- .010.
15. The LOAD CELL is now calibrated.
16. Reset the circuit breaker for the drum motor by pressing the black button.
17. Install the upper and lower back panels on the dispenser.
18. Install the hopper on the dispenser and put unit back in operation.

