

Load Cell Simulator Instructions, 826-1746

| Included in Kit 826-1746 | | |
|--------------------------|----------|---------------------|
| Part Number | Quantity | Description |
| 819-5858 | 1 | Instructions |
| 106-0788 | 1 | Load Cell Simulator |
| 807-3070 | 1 | Adapter Cable |



Follow these steps to use the load cell simulator in troubleshooting the Sinbad. The simulator is used to isolate the computer or the load cell as the defective component in a Sinbad unit that fails to self-zero on startup. In a self-zero failure, the dispense chute door fails to close and the controller display alternately flashes the  and  LEDs.



Fig.1: Two screws hold the back in place.

- Remove power from unit.
- Remove hopper.
- Remove two screws holding the back cover in place and set back aside. Fig 1.
- Remove the three screws that hold the top cover in place. Fig. 2 **Note:** Two of the screws, which secure the top on the larger Sinbad, are inside the hopper motor housing.
- Remove wire harness connecting load cell to computer.
- Plug load cell simulator into computer. Use adapter for larger Sinbad 1 units. See Fig. 3,4. The computer sees the simulator as a properly functioning load cell by the computer.
- Return power to unit.
- Turn Sinbad on at rocker switch.
- Turn computer on. Unit should launch start-up procedure and self zero. The controller display on a unit with a properly operating computer will alternately illuminate the LEDs on the controller face and close the chute door.
- If the unit fails to self zero, the problem is with the computer.
- If the unit self-zeros properly, the problem is with the load cell.
- **Note:** To test the load cell simulator, take resistance readings across the plug. A properly functioning simulator will show these readings:

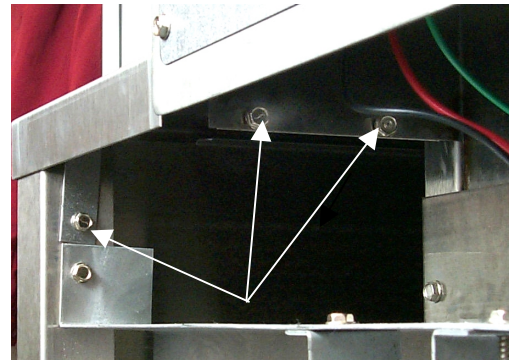


Fig.2: Three screws hold top in place on Sinbad II.

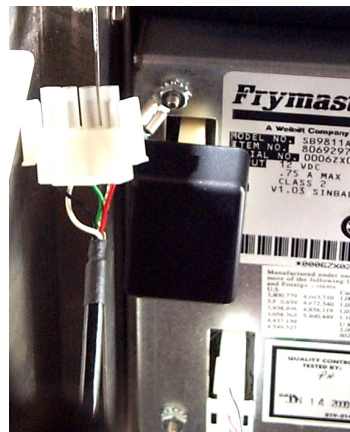


Figure 3: Load cell simulator plugged into load cell port of computer.

Load cell port on top left

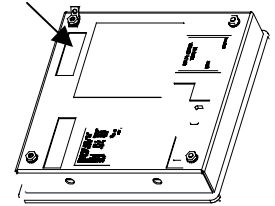


Figure 4: Computer back.

| Test Resistance | |
|-----------------|------------------------|
| Pins | Approximate resistance |
| 1-4 | 500 Ω |
| 1-3 | 375 Ω |
| 1-2 | 375 Ω |