Repeat sequence for Cells 2, 3, & 4. Upon completion of test for Cell 4 display reads [13 0]; press clear to go to end of setup. Press the white setup button at the end of the Display PCB. Use test weight to verify shift adjustment. Recalibrate scale.

4.6   SET SHIFT CONSTANTS TO "1"

Setting the shift constants to "1" removes any previously calculated shift constants and causes the load cell outputs to be used without any trim built into the values. It acts as if the load cells are simply wired in parallel as a conventional analog J-Box without benefit of trimming resistors. In normal use, this feature would be utilized when using the 8505 and Digitol J-Box with a tank or hopper scale where a shift test is not practical.

4.6.1   Press the setup mode switch at the end of the Display PCB, as shown in Figure 3. The display will show [10   0]. Press the TARE key to change the "0" to a "1". Press the PRINT key twice to advance to softswitch 12 [12   0]. Press the TARE key to change the "0" to a "1" then press PRINT to enter the shift adjust mode.

4.6.2   The display will show [tot   x] where x is either 2, 3, or 4 representing the number of load cells in the scale system. Press TARE key to select 2, 3, or 4 then press the PRINT key. The display will show [SurE]. This message is a reminder that the shift constants will be reset to "1" once the PRINT key is pressed again. To abort, press the ZERO key to backup to the [12   x] prompt.

4.6.3   Press the CLEAR key to advance to the end of setup then press the white setup mode switch at the end of the 8505 PCB to exit setup.

4.7   CALIBRATION

If the Model 8505 is used in a commercial (legal-for-trade) application, it must be calibrated to the capacity specified on the equipment data plate using certified test weights. The calibration procedure is as follows:

NOTE: A LOWER CAPACITY OR LARGER INCREMENT MAY BE SELECTED BUT NOT A HIGHER CAPACITY OR A SMALLER INCREMENT SIZE.

The capacity of the Model 8505 is selectable via softswitch #15 in the setup mode, and must be set according to the Factory Number Configuration and Capacity listed on the equipment data plate, and as listed in Section 4.3 of this manual.

4.7.1   Press the setup mode pushbutton at the end of the Display PCB, as shown in Figure 3. The display will show [10 0]. Press TARE, display will show [10 1]. Press the "PRINT" key three times to advance to the SSW 13 [13 0]. Press the TARE key to change the "0" to "1", then press PRINT to enable the calibration mode.

4.7.2   Select the correct weight units that will be used to calibrate the scale by pressing TARE in step [14] then press PRINT to enter the selection. The capacity of the scale must then be selected in step [15]. Press TARE to toggle through the capacities available then press PRINT to select the desired capacity when shown. The display will now show [16 0].

4.7.3   Press TARE to change the "0" to a "1" and press PRINT to enter into the zero setting step. The display will show [E SCL]. Empty the scale platform and press PRINT. The scale will count down from 15 to 0 while zero is calculated. The 8505 will then proceed to step [17 0].

4.7.4   Press TARE to change the "0" to a "1" and press PRINT to enter into the calibration of the scale. The display will show [SPAN] to indicate that span will be set. Press PRINT to begin the procedure. An initial reading is taken for reference.

4.7.5   The display will show [0000lb] if in the avoirdupois mode, or [0000kg] if in the metric mode. The most significant digit will be blinking, prompting for the entry of the value of the test weight that will be used to calibrate the span. The test weight should be an amount close to the capacity of the scale. The recommended test weight is 2/3 of scale capacity, the minimum is 10% of scale capacity.