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Softswitch Functions

When the setup mode is accessed, the first series of softswitches (SSW) will be displayed as [10 0]. The "10" indicates the first series of switches (11 through 16). Pressing the "TARE" key will change the "0" (OFF), to a "1" (ON). When the "1" is displayed, press the "PRINT" key to accept the displayed setting and advance to the first softswitch selection. If the "10 Series" of softswitches is to be bypassed, leave the display showing [10 0], then just press the "PRINT" key to advance to the "20 Series" of softswitches. Pressing the "PRINT" key without making changes will advance to the next selection, and pressing the "ZERO" key will backup to the next previous selection.

There are five sections or series of softswitches in the setup mode as follows:

- 10 = SCALE SETUP SOFTSWITCHES
- 20 = LEGAL FOR TRADE AND CALIBRATION SETUP SOFTSWITCHES
- 30 = COUNTING SETUP SOFTSWITCHES
- 40 = PRINTER OUTPUT SETUP SOFTSWITCHES
- 50 = PRINT FORMAT SETUP SOFTSWITCHES

Following is a list of the softswitch options and description of each softswitch:

SSW	DESCRIPTION
10	SCALE SETUP SOFTSWITCHES 0 = Bypass Section 10 SSW 11-16 1 = Access Section 10 SSW 11-16
11	AVOIRDUPOIS OR METRIC MODE kg = Metric mode in use. lb = Avoirdupois mode in use.
12	CAPACITY SELECT Capacity selection - the Model 1938 is calibrated at the factory according to the capacity listed on the data plate and must not be changed. The capacity should be set as follows: 1938-0001 - 25 x .005lb or 15 x .005kg 1938-0002 - 50 x .01lb or 30 x .01kg 1938-0003 - 100 x .02lb or 60 x .02kg
13	GRAVITY ADJUST 0 = Bypass Gravity Adjustment Parameters 1 = Access Gravity Adjustment Parameters (Refer to Gravity Adjustment Section IV-E of this manual)
14	FILTER SELECTION Display Filtering - four selections are available (0,1,2, or 3). By

enabling the filter, the scale is less susceptible to the effects of vibration. The scale response time is slowest when the highest filtering parameter (3) is selected. The response time is fastest when filtering is disabled (0). Press the "TARE" key to toggle through the selections, then press "PRINT" to accept the displayed setting.

15 SLEEP MODE

0 = Disable Sleep Mode

1 = Select Sleep Mode Options. When enabled, power to the display and load cell will be disabled after the selected interval from the last time the scale was in use. The "1" setting will result in the longest battery life. Press the "PRINT" key when the "1" is displayed to select the following elapsed time intervals:

0 = Disable Sleep Mode

1 = Enable Sleep Mode after 1 minute

2 = Enable Sleep Mode after 2 minutes

5 = Enable Sleep Mode after 5 minutes

16 TARE AUTO-CLEAR

0 = Disable Tare Auto-Clear - tare must be cleared using the "CLEAR" key.

1 = Enable Tare Auto-Clear - tare will clear when the gross weight is removed.

20 LEGAL FOR TRADE SETUP SOFTSWITCHES

0 = Bypass Section 20 SSW 21-25

1 = Access Section 20 SSW 21-25

21 TARE INTERLOCK

0 = Disable Tare Interlock

1 = Enable Tare Interlock - TARE INTERLOCK MUST BE ENABLED IF THE SCALE IS TO BE USED FOR COMMERCIAL WEIGHING (legal for trade). The Tare Interlock mode requires all tare weight entries to be completed when the scale is in the "gross" zero mode and allows the tare to be manually cleared only when the platter is empty.

22 SELECT METRIC COMMA OR DECIMAL POINT

0 = Display decimal point

1 = Display metric comma in place of decimal point.

23 ANALOG VERIFICATION

0 = Disable Analog Verification

1 = Enable Analog Verification. This softswitch should be normally disabled, unless specified by local authorities.

24 EXPANDED DISPLAY

0 = Normal display

1 = Expanded Display - Displays all minor increments. Used for test mode only. Set to "0" for normal use.

- 25 CALIBRATION MODE**
0 = Bypass Calibration Mode
1 = Access Calibration Mode - Used to calibrate the scale with test weights. (Refer to Calibration Section 4.4 of this manual).
- 30 COUNTING SETUP SOFTSWITCHES**
0 = Bypass Section 30 SSW 31-34
1 = Access Section 30 SSW 31-34
- 31 PART COUNTING MODE**
0 = Disable Counting Mode
1 = Enable Counting Mode
- 32 AUTO CLEAR AVERAGE PIECE WEIGHT**
0 = Disable Auto-Clear Average Piece Weight (APW). When disabled, APW will be retained in memory until manually cleared with the keyboard.
1 = Enable Auto-Clear Average Piece Weight. If enabled, calculated APW will automatically clear from memory when the scale is emptied.
- 33 MINIMUM SAMPLE REQUIREMENT**
0 = No minimum sample weight requirement.
1 = Set minimum sample weight for 0.1% of the scale's rated capacity. When sampling pieces, the scale will prompt the user to add pieces until the 0.1% minimum is applied to the scale.
- 34 SELECT FIXED OR VARIABLE SAMPLE QUANTITY**
Select a variable or fixed sample reference quantity. Press the "TARE" key to toggle the following selections:
00 = Variable Sample Reference - 00 allows the user to set the sample reference quantity for 5, 10, 20, 50 or 100 by pressing the "SAMPLE" key to toggle the selections.
05 = Set Fixed Sample Reference for 5
10 = Set Fixed Sample Reference for 10
20 = Set Fixed Sample Reference for 20
- 40 PRINTER OUTPUT SETUP SOFTSWITCHES**
0 = Bypass Section 40 SSW 41-43
1 = Access Section 40 SSW 41-43
- 41 PRINTER BAUD RATE**
0 = 9600 Baud
1 = 300 Baud
- 42 CHECKSUM**
0 = Do not send checksum
1 = Send checksum
- 43 REMOTE INPUT**
0 = Remote Input is disabled
1 = Remote Input is enabled
- 50 PRINT FORMAT SETUP SOFTSWITCHES**
0 = Bypass Section 50 SSW 51-58
1 = Access Section 50 SSW 51-58

- 51 SINGLE OR MULTI-LINE PRINTING**
 - 0 = Print/send data on multiple lines
 - 1 = Print/send data on single lines
- 52 PRINT GROSS WEIGHT**
 - 0 = Do not print/send Gross Weight data
 - 1 = Print/send Gross Weight data
- 53 PRINT TARE WEIGHT**
 - 0 = Do not print/send Tare Weight data
 - 1 = Print/send Tare Weight data
- 54 PRINT NET WEIGHT**
 - 0 = Do not print/send Net Weight data
 - 1 = Print/send Net Weight data
- 55 PRINT DOUBLE WIDTH NET WEIGHT**
 - 0 = Print Normal Width Net Weights
 - 1 = Print Double Width Net Weights
- 56 PRINT APW**
 - 0 = Do not print/send APW data
 - 1 = Print/send APW data
- 57 PRINT PIECES**
 - 0 = Do not print/send Number of Pieces
 - 1 = Print/send Number of Pieces
- 58 PRINT DOUBLE WIDTH PIECES**
 - 0 = Print Normal Width Number of Pieces
 - 1 = Print Double Width Number of Pieces
- 99 END OF SETUP MODE**

Press the setup pushbutton to return to normal run mode.

Error Codes

Error Code	Description	Corrective Measures
E1	ROM Error	<ol style="list-style-type: none"> 1. Remove power/wait 15 sec./retry. 2. Check battery (or wall transformer) voltage/replace batteries/retry operation. 3. Replace Digital Load Cell.
E2	Application Program EEPROM Error	<ol style="list-style-type: none"> 1. Remove power/wait 15 sec./retry. 2. Check battery (or wall transformer) voltage/replace batteries/retry operation. 3. Replace Digital Load Cell.
E3	DLC NOVROM Error	<ol style="list-style-type: none"> 1. Remove power/wait 15 sec./retry. 2. Check battery (or wall transformer) voltage/replace batteries/retry operation. 3. Perform Setup again. 4. Replace Digital Load Cell.
E8	DLC Out of Range	<ol style="list-style-type: none"> 1. Check battery (or wall transformer) voltage/replace batteries/retry operation. 2. Check voltage to Load Cell. 3. Check for Mechanical Overload. 4. Replace Digital Load Cell.
E13	DLC EEPROM Error	<ol style="list-style-type: none"> 1. Remove power/wait 15 sec./retry. 2. Check battery (or wall transformer) voltage/replace batteries/retry operation. 3. Replace Digital Load Cell.
E32	Calibration Error or Build Error	<ol style="list-style-type: none"> 1. Recalibrate/Reconfigure SSW. 2. Replace Digital Load Cell.
E34	Bad Analog Verify Calculation	Replace cell.
AAAAAA	Analog Verify	Analog verify is on and active.
BLANK	Blank Display	<ol style="list-style-type: none"> 1. Check batteries/transformer. 2. If voltages are good, suspect faulty Display PCB.
RETURN		<ol style="list-style-type: none"> 1. Power down. 2. Push Setup button and hold. 3. Power up and verify you are in Toledo Mode and not Mettler Mode. 4. See addendum.