5 8142 Indicator

Jumpers and Keyboard Functions

Main PCB Jumpers

W1 - ROM Enable: Must Be (IN)

W2 - Calibration Enable: (In = enabled, Out = disabled)

W3 - Comma Select: (In = comma, Out = period)

W7 - mV/V Selection: (1-2) 2mV/V load cell input; (2-3) 3 mV/V load cell input.

Dual Display PCB Jumpers

W2 - Calibration Enable: (In = enabled, Out = disabled)

W5 - Primary Display Comma Select: (In = comma, Out = decimal pt.)

W6 - Auxiliary Display Comma Select: (In = comma, Out = decimal pt.)

W7 - ROM Enable: Must be (IN)

W8-A harness plugs onto this jumper from W2 on the Main PCB.

Rack Display PCB Jumpers

W1-Primary Display Comma Select:(Same as W5 above)

W2-Auxiliary Display Comma Select:(Same as W6 above)

Optional BCD/Analog PCB

(Dual Display Advanced Rack and Wall Enclosures Only)

BCD/Analog PCB Jumpers

W1-Motion Detect Inhibit: (1-2 = disabled, 2-3 = enabled)

W2-Calibration Enable:(In = enabled, Out = disabled)

Keyboard Functions During Setup

ENTER - accepts the displayed selection and advances to the next setup step.

SETUP - accepts the displayed selection and skips to[S FILE] at the end of setup.

ZERO - accepts the displayed selection and back-up to the previous setup step.

(0 - 9) - used to enter data as required. The **0** key is also used to display the next selection when a menu of choices is presented.

Quick Reference Chart

Step	Description	Selections
F2.0	***Tare Group***	
F2.1	Tare Mode	0 = Disable *1 = Keyboard/Auto* 2 = Auto Tare Only
F2.2	Tare Interlocks (*)	*0 = Disable* 1 = Enable
F2.3	Auto Clear Tare	*0 = Disabled* 1 = Enabled
F2.4	Net Zero Cursor (*)	*0 = Disabled* 1 = Enabled
F2.5	Keystroke Timeout	*0 = Disabled* 1 = Enabled
F2.6	Predetermined Tare	*0 = Disabled* 1 = Enable French W&M
F2.7	Autoprint Threshold	*0 = Disabled* 1 = Enabled
F3.0	***Power-up Group***	
F3.1	Power-up Timer	*0 = Disabled* 1 = Enabled
F3.2	Power-up Units	0 = kg Weight Units *1 = lb Weight Units*
F3.3	Units Switching	0 = Disabled *1 = Enabled*
F3.4	Expanded Weight	*0 = Disabled* 1 = Enabled
F3.5	Span Adjust	*0 = Disabled*
1 = Enabled		
F3.6	Display Under Zero	0 = Disabled *1 = Enabled*
F3.7	Zero Adjust	*0 = Bypass Zero Adjust* 1 = Adjust Zero
F4.0	***AZM/Motion Group***	
F4.1	AZM Range (*)	0 = Disabled *5 = 0.5 Increment* 10 = 1 Increment 20 = 2 Increment 30 = 3 Increment
F4.1A	AZM Mode	*0 = AZM Gross Mode Only* 1 = AZM Net or Gross
F4.2	Motion Range (*)	*07 = 0.7 Increment*
F4.3	Motion Rate (*)	*03 = 3 Updates*
F4.4	Digital Filtering	0 = Disabled *1 = Light Filter* 2 = Medium Filter 3 = Heavy Filter 4 = Very Heavy Filter

Step	Description	Selections
F4.6	Analog Verify	*0 = Disabled* 1 = Enabled
F4.7	Pushbutton Zero	0 = Disabled 1 = ±2% of Capacity *2 = ±20% of Capacity*
F5.0	***JN Printer Port Group***	
F5.1	JN Port Mode	*1 = Demand (Printer)* 2 = Toledo® Continuous 3 = Masstron® Continuous 4 = Toledo® Short Form
F5.2	JN RS-422 Input	*0 = Disabled* 1 = Enabled
F5.3	JN Baud Rate	*1200 Baud*
F5.4	JN Port Checksum	*0 = Disabled* 1 = Enabled
F5.5	Printer Model Select	*1 = Standard* 2 = 8805 (Receive Only) 3 = 8805 (Smart Mode) 4 = 8820/8830 (Ram 1) 5 = 8820/8830 (Ram 2, 3)
F5.6	Weight Line Format	1 = Displayed Weight *2 = Single Line G, T, N* *3 =* Multi *Line G*, T, N
F5.7	Double Width Print	*0 = Disabled* 1 = Enabled
F5.8	Minimum Print Increments	
F5.9	Printed Legend (*)	*1 = "lb" or "kg"* 2 = "t" for tons 3 = No Legend
F5.10	Negative Net Weight	0 = Disabled *1 = Enabled*
F5.11	Repeat Print	*0 = Disabled* 1 = Enabled
F5.12	Demand Format	*1 = WT, ID, T&D, CN* 2 = ID T&D WT, CN 3 = ID T&D, CN WT 4 = ID T&D CN WT 5 = T&D ID CN WT 6 = T&D ID WT, CN 7 = ID, T&D, CN WT 8 = ID T&D CN, WT
F5.13	Time/Date Format	0 = Disabled 1 = MM DD YY 2 = DD. MM. YY 3 = YY MM DD *4 = HH: MM PM MM DD YY* 5 = DD. MM. YY HH: MM 6 = YY MM DD HH: MM
F5.14	Print ID	0 = Disabled *1 = Enabled*
F5.15	Print CN	0 = Disabled *1 = Enabled*
F5.16	Net Sign Print (*)	*0 = Disabled* 1 = Enabled
F5.17	ASCII Remote Input	*0 = Disabled* 1 = Command Input Enabled 2 = Demand/Continuous

Step	Description	Selections
F5.18	Autoprint/Interlock	*1 = Disabled* 2 = Print Interlock 3 = Autoprint
F5.19	Additional Linefeeds	*0 = Skip Linefeed Select* 1 = Access Linefeed Select
F5.20	DSR Input Mode	0 = CLEAR 1 = TARE *2 = PRINT* 3 = ZERO 4 = Blank Display

F6.0 Recall Data and Clock Adjust Group

F6.1	Recall ID	0 = Disabled *1 = Enabled*
F6.2	Recall CN	0 = Disabled *1 = Enabled*
F6.3	Recall Time & Date	0 = Disabled *1 = Enabled*
F6.4	Preset CN	0 = Disabled *1 = Enabled*
F6.5	Recall Setpoint Data	0 = Disabled *1 = Enabled*
F6.6	Access Clock Adjust	

F7.0 Setpoint Programming Group

F7.1	Setpoints Enable	*0 = Disabled* 1 = Enabled
F7.2	Setpoint Mode	2 = 2, Dual Speed Setpoints *4 = 4, Single Speed Setpoint*
F7.3	Tolerance Mode	*0 = Setpoint Tolerance* 1 = Zero Tolerance
F7.4	Zero Tolerance Entry	0 = Disabled *1 = Enabled*
F7.5	Tolerance Entry	0 = Disabled *1 = Enabled*
F7.6	Setpoint Password	*0 = Disabled* 1 = Enabled

F8.0 JW Setpoint Port Group

F8.1	JW Port Tare Entry	*0 = Disabled* 1 = Enabled
F8.2	JW Port ID Entry	*0 = Disabled* 1 = Enabled
F8.3	Continuous Output	*0 = Disabled* 1 = Enabled
F8.4	JW Port Baud Rate	*9600 Baud*
F8.5	JW Port Parity	0 = Always a "0" 1 = Odd Parity *2 = Even Parity*
F8.6	JW Port Stop Bits	*1 = 1 Stop Bit* 2 = 2 Stop Bits
F8.7	JW Port Checksum	*0 = Disabled* 1 = Enabled
F8.8	Alpha Barcode Input	*0 = Disabled* 1 = Enable

F9.0 JY Host Port Group

F9.1	JY Port Enabled	*0 = Disabled* 1 = Enabled
F9.2	JY Port RS-485 Input	*0 = Disabled* 1 = Enabled
F9.3	JY Port Baud Rate	*9600 Baud*

(*) - Requires specific selection for legal-for-trade applications.
Recommended default selections are shown in ***Italics***.

Error Codes

The 8142 has 2 types of error codes, operational errors and calibration errors.

Operational Error Codes

Operational error codes can occur during power up or while the 8142 is in normal operation. Do not use the operational error codes table for error that may occur during calibration.

If an operational error code occurs cycle the AC power off, wait 15 seconds then turn back on. If error code persists then refer to Table 7-1.

[E1], **[E2]**, **[E3]** and **[E13]** (Program ROM, RAM, NOVRAM and Dual Display NOVRAM errors) indicate a checksum error for the a specified memory chip. Chip memories are tested at power up.

[E6] and **[E8]** indicates an analog verify failure. Analog verify tests occur every four hours.

[AAAAAA] indicates an analog verification cycle is in progress.

[SP Err] indicates that the setpoint data is corrupt and must be reentered.

[E E E] or **[-E E E]** indicates the 8142 has not captured zero and tare interlock is enabled.

Error Code	Error Description	Recommended Corrective Action
E1	Program ROM Fault	Replace Main PCB
E2	RAM Fault	Replace Main PCB
E3	Setup NOVRAM Fault	1. Reprogram setup. 2. Replace Main PCB
E5	Display Verify Failure	Replace Display PCB.
E6	Analog Verify Failure	Recalibrate.
E7	Analog Fault	1. Check load cell and cables. 2. Replace Main PCB.
E13	NOVRAM Fault	Recalibrate.
AAAAAA	Analog Verify in Progress	Not an error condition.
SP Err	Setpoint Error	1. Press the SELECT SETPOINT key and reenter setpoint values. 2. If error reoccurs then verify setpoint precautions described in Section 4.4 of the User's Guide.
E E E -E E E	Out of Zero Capture Range Over or Under	1. Press the ZERO key. 2. Check load cell and cables. 3. Recalibrate. 4. Replace Main PCB.

Calibration Error Codes

The calibration error code table applies only to error codes displayed during the calibration procedure in setup.

A **[CAL E6]** calibration error may also be caused by a mis-wired load cell or a mechanical bind in the scale base.

Error	Error Description	Recommended Corrective Action
CAL E1	Scale in Motion	1. Check Load Cell, Cable 2. Replace Main PCB
CAL E2	A/D Malfunction	Replace Main PCB
CAL E3	Calibration Error	1. Reprogram setup. 2. Replace Main PCB
CAL E4	Scale out of Range (Over or Under)	1. Check Load Cell, Cable 2. Replace Display PCB.
CAL E5	Capacity Error	Recalibrate.
CAL E6	Insufficient Test Weight, not enough signal change from Load Cell	1. Verify amount of test weights. 2. Check load cell and cables. 3. Replace Main PCB.
CAL E8	Test Weight Entered Larger than Capacity	Recalibrate with test weights less than programmed scale.