ULINE Washdown Platform Scale User Manual

Contents [hide

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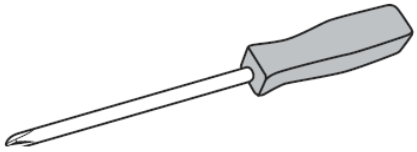
TOOLS NEEDED

2 mm Allen Wrench

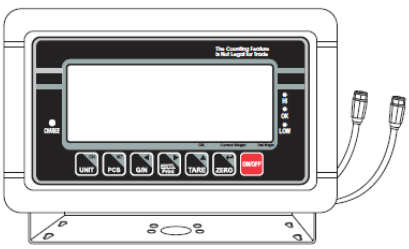
4.5 mm Allen Wrench



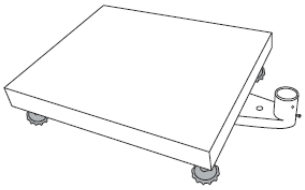
Phillips Screwdriver

PARTS

Column x 1

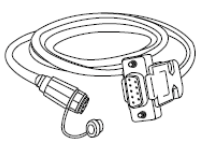


Display Indicator x 1



Platform Base x 1

AC Adapter x 1



RS-232 Adapter x 1

SETUP

WARNING! Disconnect all power to the scale before installing, cleaning or servicing. Failure to do so could result in bodily harm or damage to the scale.

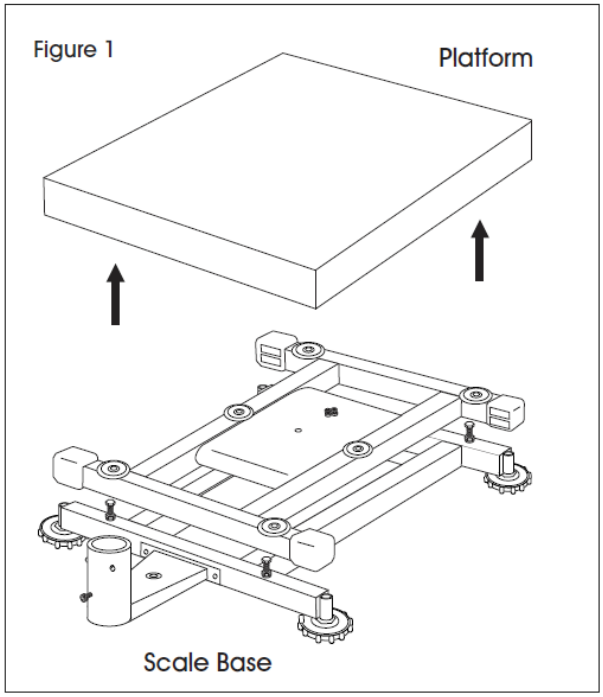
SELECTING THE LOCATION

The scale should always be used in an environment that is free from excessive air currents, corrosives, vibration and temperature or humidity extremes. These factors will affect displayed weight readings.
Avoid placing the scale next to or near:

- Open windows or doors.
- Air conditioning or heat vents.
- Vibrating, rotating or reciprocating equipment.
- Magnetic fields.
- Equipment that generates magnetic fields.
- Direct sunlight.
- An unstable work surface.
- A dusty environment.
- Large users of electricity, like welding equipment or large motors.
- Unstable power sources.

UNPACKING THE SCALE

1. Remove the scale parts from packaging.
2. Place the scale on a flat surface.
3. Remove the platform from top of the scale base.(See Figure 1)



4. Remove the styrofoam pad from under the platform.

REMOVING THE SHIPPING SCREW

Remove shipping screw from bottom of the scale base using a 2 mm Allen wrench. (See Figure 2)

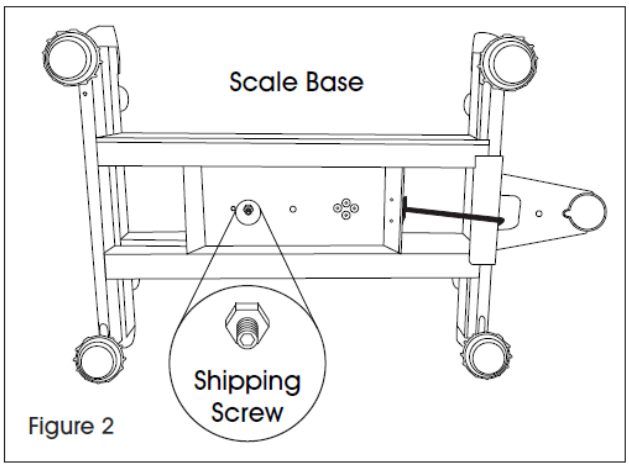


Figure 2

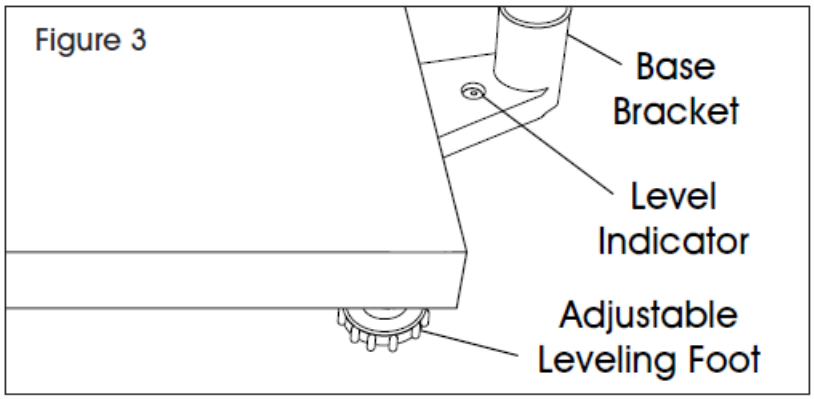
INSTALLING THE PLATFORM

1. Remove protective covering from the scale platform.
2. Place the platform on top of the scale base.

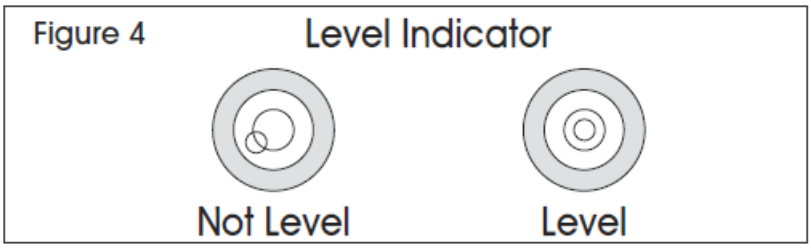
CAUTION! Do not press down with excessive force. This could damage the load cell.

LEVELING

1. The scale is equipped with a level indicator located on the back of the scale on the base bracket.



2. Use the adjustable leveling feet located on the bottom of the scale until the bubble appears in the center of the indicator. (See Figure 4)



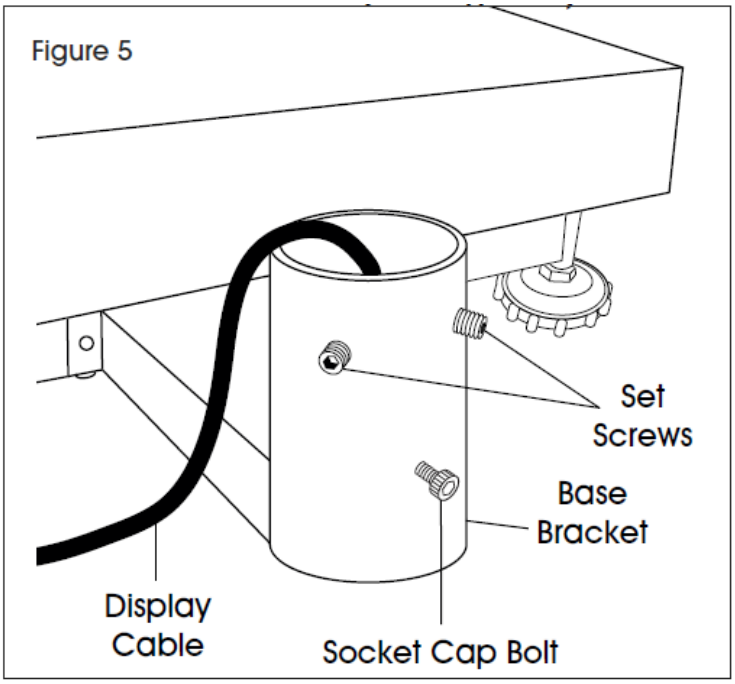
NOTE: Check the level indicator every time scale is moved to a new location to verify scale is balanced.

ASSEMBLING THE COLUMN

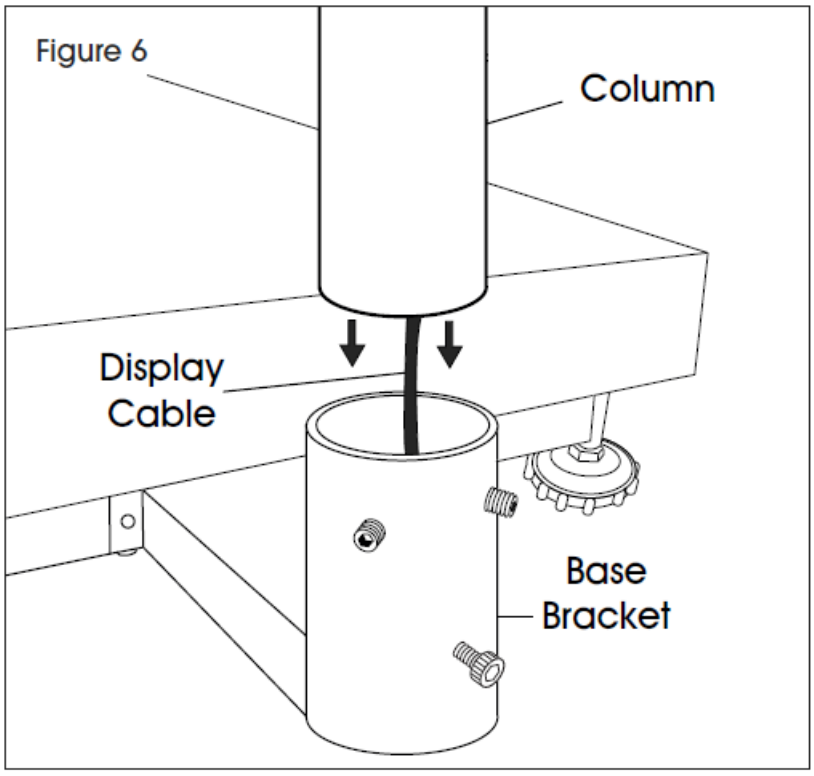
1. Unscrew the carriage bolt in the column using a Phillips screwdriver and detach the support bracket from the column. Unscrew four small Phillips head bolts from the support bracket. Set column, support bracket, carriage

bolt and small Phillips head bolts aside.

2. On the base bracket, loosen two set screws using a 2 mm Allen wrench and the socket cap bolt using a 4.5 mm Allen wrench. (See Figure 5)



3. Insert column into base bracket. Make sure column rests on the bottom of the base bracket. (See Figure 6) Pull display cable all the way through the column so no slack is under the platform.
4. Secure column with set screws using a 2 mm Allen wrench and with the socket cap bolt using a 4.5 mm Allen wrench, but do not tighten.

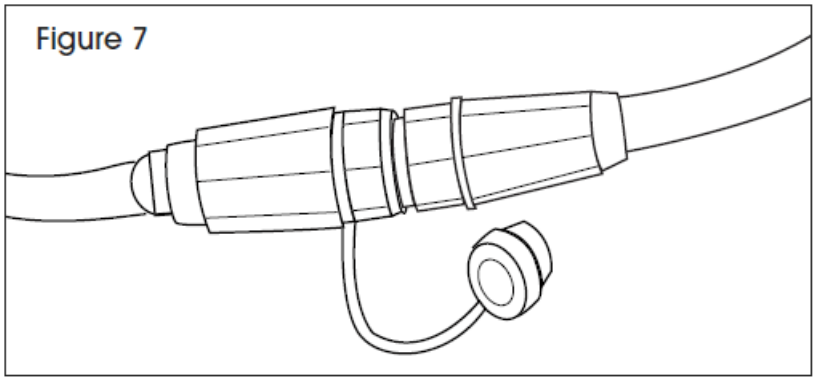


ATTACHING INDICATOR TO THE COLUMN

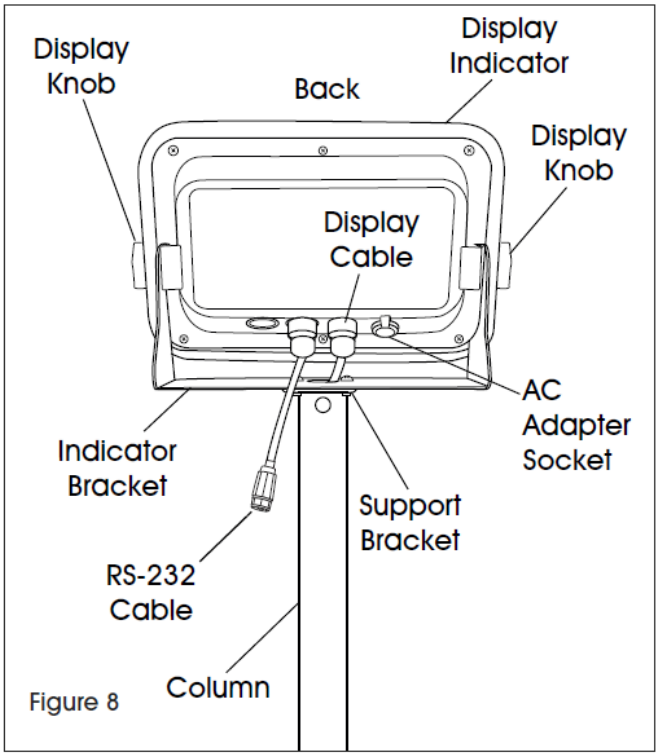
1. Place the indicator bracket onto the top (flat side) of the support bracket. Align the large center holes and four small holes.
2. Insert four small Phillips head bolts through the small holes on top of the indicator bracket and the support

bracket. Tighten until pieces are securely attached.

3. Feed black display cable from the display indicator through the large center holes in the indicator bracket and support bracket. Connect to the display cable end at the top of the column by aligning holes and pushing connectors together. Twist a quarter of a turn to lock into place. (See Figure 7)



4. Place support bracket into the column with the display facing the platform. Pull display cable all the way through the column so excess is under the base bracket. Make sure RS-232 cable is on the back of the display. (See Figure 8)



5. Tilt display to desired position.
6. Insert carriage bolt back into the column and tighten.
7. Tighten base bracket set screws and socket cap bolt.

CONNECTING POWER

The scale can operate continuously by connecting the AC adapter to an outlet or operate eight hours on a fully charged battery.

WARNING! Only use the original AC adapter and battery that came with the scale. Using an alternative AC adapter or battery could damage the scale.

AC ADAPTER

Plug the AC adapter into the AC adapter socket on the back of the indicator. Plug the AC adapter plug into a

standard 110 volt outlet.

WARNING! When AC adapter is not in use, AC adapter socket must be capped. Leaving the socket uncapped during water exposure could result in damage.
NOTE: Verify the local voltage and receptacle type are correct for the scale.

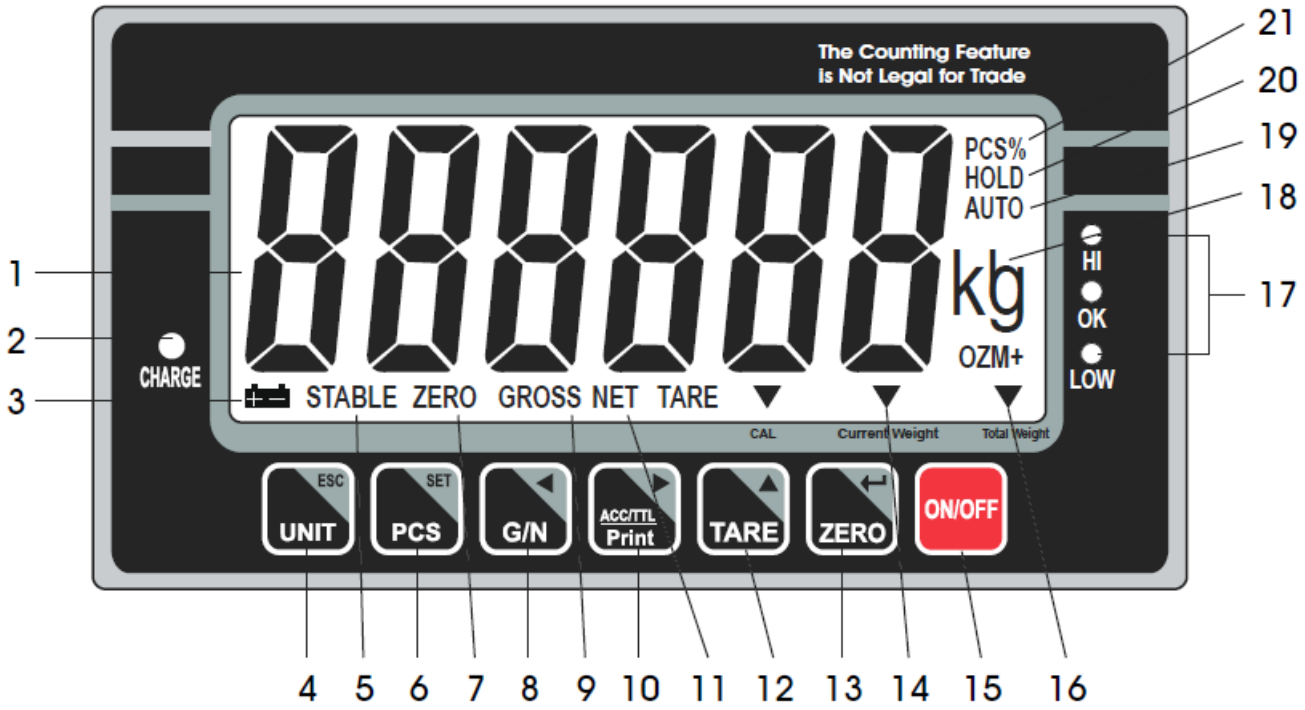
BATTERY
The scale is equipped with a rechargeable battery.
When the battery voltage is low, a battery symbol will appear in the lower left-hand corner of the display. After 15 minutes, the backlight will start to flicker and the display will show Bat lo. The scale will automatically turn off 30 minutes after the symbol appears.

CHARGING THE BATTERY
When the battery indicator ( ) appears in the lower left-hand corner of the display, the battery needs to be recharged.
Plug the AC adapter into a power source to charge the battery. Scale does not need to be turned on. It will take 12 hours to fully charge the battery.
The charging indicator is located on the left side of the display, above the word CHARGE. The indicator light color will change to indicate the battery status:

- RED – Battery needs to be recharged.
- ORANGE – Battery is being charged.
- GREEN – Battery is fully charged.

BATTERY MAINTENANCE
Recharge battery every three months when not in use.
If the scale is not used for an extended period of time, remove the battery from the battery compartment to avoid leakage. Store the battery in a sealed bag or box in a dry, temperate environment.

DISPLAY AND KEYPAD



DISPLAY AND KEYPAD DEFINITIONS

#	NAME	DESCRIPTION
1	DISPLAY	Displays the total weight, unit weight and number of counted items.
2	CHARGE	Charging indicator. Indicates the battery charging status.
3		Battery indicator. Indicates battery is low and needs to be recharged.
4	UNIT ESC	Units key. Used to change weighing unit. ESC key. Used to exit the set-up menu.
5	STABLE	Stable indicator. Indicates the scale weight is stable.
6	PCS SET	Count key. Used to enter the counting operation. Setup menu key. Used to enter setup menu.
7	ZERO	Zero indicator. Indicates the scale is at zero.
8	G / N t	Gross/Net Weight key. Used to show the net or gross weight. Left arrow key. Used to move the active digit to the left.
9	GROSS	Gross indicator. Indicates scale is displaying the gross weight.
10	ACC / TTL Print u	Accumulation key. Used to enter and show accumulated weights or counts in memory. Print key. Used to send data to a printer or PC. Right arrow key. Used to move the active digit to the right.

#	NAME	DESCRIPTION
11	NET	Net indicator. Indicates scale is displaying the net weight.
12	TARE p	Tare key. Used to zero out the weight of a container being used to hold sm all parts. Value increment key. Used to change the active digit value.
13	ZERO	Zero key. Used to clear and zero the display. Enter key. Used to enter the selected menu, sub-menu and setting.
14	CURRENT WEIGHT	Current weight indicator. Indicates current weight in accumulation mode.
15	ON / OFF	On/off key. Used to turn the scale on or off.
16	TOTAL WEIGHT	Total weight indicator. Indicates total weight in accumulation mode.
17	HI / OK / LOW	Limits indicator. Indicates the high-low limits in weighing and counting.
18	LB / OZ / KG	Weighing unit indicator. Indicates current weighing unit.
19	AUTO	Automatic accumulation indicator. Indicates the scale is in automatic a ccumulation mode.
20	HOLD	Hold indicator. Indicates the scale is in dynamic weighing mode.
21	PCS%	Counting mode indicator. Indicates scale is in counting mode.

OPERATION

PRIOR TO USE

- Fully charge the battery before using scale for the first time.
- Let the scale warm up for 15 minutes before use.

WARNING! Never drop items onto the platform. The scale is a sensitive precision instrument.
WARNING! Do not exceed the scale capacity and overload the scale.
WARNING! Do not stack items on the scale platform when the scale is not in use.

TURNING THE SCALE ON/OFF

ON/OFF key is located in the lower right hand corner of the display.

CAUTION! Never power the scale on with weight on the platform.

1. To turn the scale on, press the ON/OFF key . The scale will show the version and enter a self-test mode. After completing the self-test, the scale will enter the weighing application mode.
2. To turn the scale off, press the ON/OFF key

CALIBRATION

The scale is pre-calibrated during production. You must use a precision test weight to properly calibrate the scale. The test weight CANNOT exceed the scale's capacity.

NOTE: Calibration can be done in English (lb.) and Metric system weight (kg) at the scale's full capacity.

CALIBRATION WEIGHTS

Model #	Lb.	Kg
H-5836	100 lb.	50 kg
H-5837	200 lb.	100 kg

ZERO

If there is a minor weight displayed without anything on the platform, press the ZERO key to clear the display. Zero indicator will be shown on the display.

TARE

When weighing an item that is in a container, taring stores the container weight to memory so only the item weight is displayed.
To store tare weight into memory and set display to zero:

1. Place an empty container on the platform.
2. Press the TARE key. The net indicator will be displayed on the bottom of the display.
3. The container's weight is then stored in the scale's memory and zero is displayed.
4. Add pieces to the container. As the pieces are added, their net weight will be displayed.
5. Press the G/N key to display the gross weight and net weight.
6. Removing the container from the platform will cause the scale to display the container's negative weight. Pressing the TARE key will readjust the scale to zero.

AUTOMATIC ACCUMULATION

Use this application to automatically add weighing and counting values to the scale memory and to print values if a printer is connected.
NOTE: Automatic accumulation must be enabled. See Setup section on page 10.
When in the automatic accumulation application, the auto indicator will be shown in the upper right hand corner of the display.

1. Place items to be weighed or counted on the scale platform.
2. Once the stable indicator is shown on the display, the scale will make a beeping sound.
3. ACC 1 will be shown on the display and the total value will be displayed for three seconds. Weighing or counting value will be stored into memory.
4. Remove items from platform. Display will return to zero or a negative value.
5. Add additional items to platform. New data will be added to memory. Continue until all data is added.
6. To recall data and clear data, see sections above.

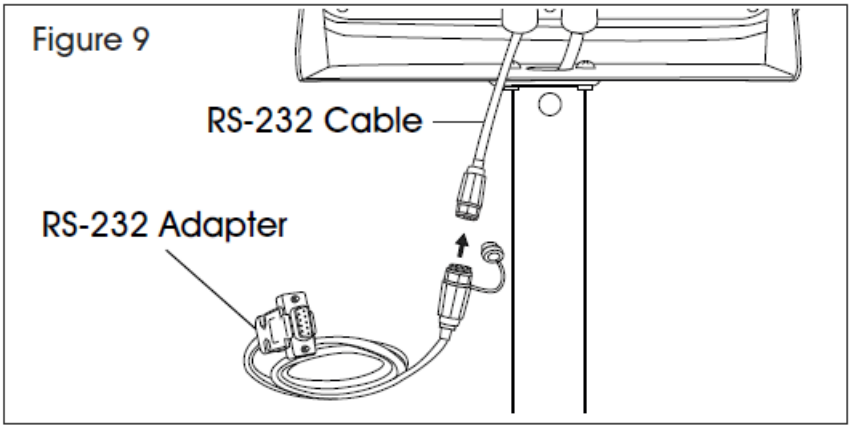
DYNAMIC WEIGHING

Use this mode to weigh moving items.

1. Press and release the TARE key and the ZERO key at the same time to enter the dynamic weighing mode. The hold indicator will appear in the upper right hand corner of the display.
2. Place item to be weighed on the scale platform. Once the stable indicator appears, the final weight will be shown on the display.
3. Press and release the TARE key and the ZERO key at the same time to exit the dynamic weighing mode.

RS-232

To use the RS-232 port, connect the gray RS-232 adapter to the gray RS-232 cable on the display indicator. (See Figure 9)



SPECIFICATIONS

RS-232 output of weighing data:

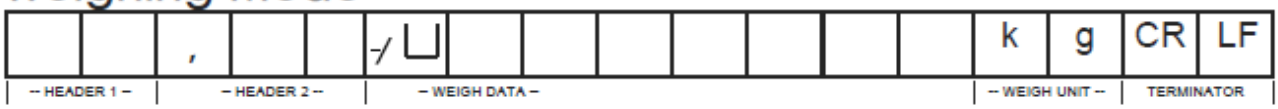
- Code: ASCII
- Data Bits: 8 data bits
- Parity: No Parity
- Baud Rate: 600bps – 900bps selectable.

RS-232 (9-PIN D TYPE CONNECTOR)

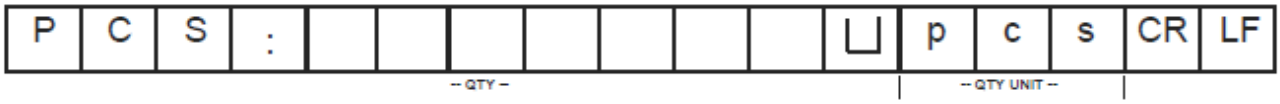
Pin 2	RXD	Input	Receiving Data
Pin 3	TXD	Output	Transmission Data
Pin 5	GND	—	Signal Ground

CONTINUOUSLY OUTPUT PROTOCOL

Weighing Mode



Counting Mode



HEADER1: ST=STABLE, US=UNSTABLE
HEADER2: NT=NET, GS=GROSS

Con2:

Header0	Header1	Header2	Header3	Weight1	Weight2	Weight3	Weight4	Weight5	Weight6	Tare1	Tare2	Tare3	Tare4	Tare5	Tare6	Terminator1	Terminator2

Header0=02H
Header1 follow decimal point
Decimal point=0, header1=22H
Decimal point=1, header1=23H
Decimal point=2, header1=24H
Decimal point=3, header1=25H
Decimal point=4, header1=26H
Header2 follow weigh status, default value=20H
If in net mode (tare value not 0), header2=header2|01H
If gross weight “-“, header2=header2|02H
If overload or gross weight “-“, header2=header2|04H
If unstable, header2=header2|08H
If weighing unit=kg, header2=header2|10H
Header3 follow weighing unit
If weighing unit=g, header3=21H
If weighing unit=oz, header3=23H
Weight1~weight6: weighing data
Tare1~tare6: tare value
Terminator1: 0DH
Terminator2: 0AH

Con3:

Header0	Header1	Weight1	Weight2	Weight3	Weight4	Weight5	Weight6	Weight7	Unit1	Unit2	Status	Terminator1	Terminator2

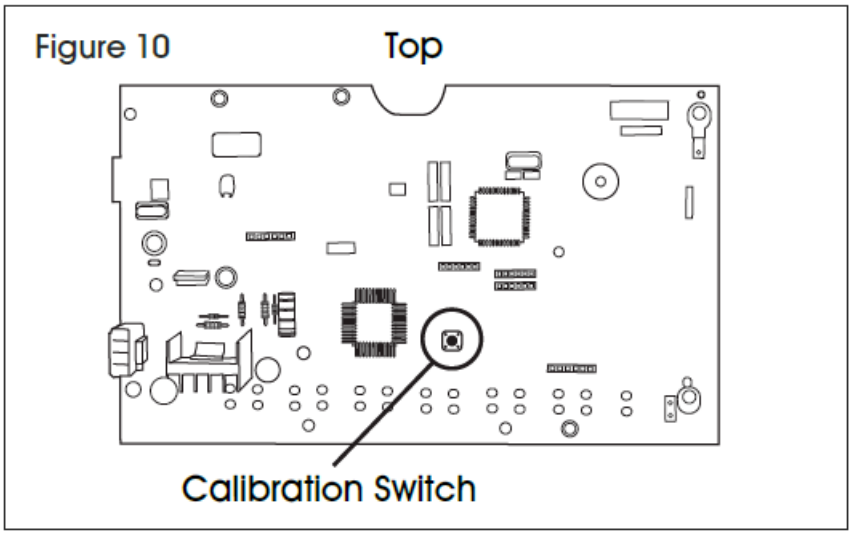
HEADER0=01H
Header1 follow weight “+” or “-”
When weight “+”, header1=”+”, when weight “-“, header=”-”
Weight1~weight7: weight data (include decimal point)
Unit1~unit2: weight unit
Status: when stable, status=0, when unstable, status=1
Terminator1: 0DH
Terminator2: 0AH

LEGAL FOR TRADE

When the indicator is used in trade or a legally controlled application, it must be set up, verified and sealed in accordance with local weights and measures regulations. It is the responsibility of the purchaser to ensure that all pertinent legal requirements are met.

CALIBRATION

1. Break the seal on the indicator housing.
2. Open the housing.
3. See calibration process on page 5. Complete steps 1-5.
4. After step 5, press the calibration switch on the mainboard. (See Figure 10)



5. Complete remaining calibration steps on page 5.

VERIFICATION
The local weights and measures official or authorized service agent must perform the verification procedure.

SEALING
The local weights and measures official or authorized service agent must apply a security seal to prevent tampering with the settings.

SETUP MENU

AUTO POWER-OFF
When the auto power-off time is enabled, the scale will automatically turn off when there has been no load on the platform and the scale is stable at zero position for a specified period of time (in minutes). At startup, the auto power-off is disabled. Enter this menu to turn the auto power-off feature on or off.

HIGH/LOW LIMIT BEEPING SOUND
At startup, the beeping sounds are set to beep when weights are inside the limits. Enter this menu to change the beeping sound setting.

BAUD RATE
Baud rate is the RS-232 transmission speed. If using a printer, both the printer and the scale must be set to the same baud rate. At startup, the baud rate is set at 9,600. Enter this menu to change the baud rate setting

MAINTENANCE

CLEANING: CAUTION! Disconnect the unit from the AC adapter and cap AC adapter socket before cleaning. Do not use with pressure washers or other high pressure water jets. Rated IP65 for use with hoses.

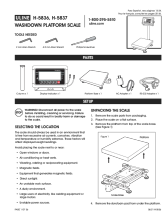
Use a mild detergent for the display and keypad.
WARNING! Do not use solvents, chemicals, alcohol, ammonia or abrasives.
Use a stainless steel cleaning solution for the stainless steel indicator housing and platform.
Apply cleaner to a clean, damp cloth and wipe surface. Dry thoroughly.

TROUBLESHOOTING

ERROR	OPERATING ISSUE	RECOMMENDATIONS
Inaccurate weights	Shipping screw needs to be removed. Scale needs to be recalibrated.	Remove shipping screw. Recalibrate the scale.
Err 4	Scale needs to be recalibrated.	Recalibrate the scale.
Err 6	Load cell connectivity issue. AD board connectivity issue.	Verify all load cell connection wires are secure. Verify all AD board connection wires are secure.
-OL-	Maximum capacity exceeded.	Remove load from platform.
Bat lo	Battery needs to be recharged.	Recharge battery.

If the problem persists or the troubleshooting section does not resolve or describe your problem, contact Uline Customer Service at 1-800-295-5510.

Documents / Resources

	ULINE Washdown Platform Scale [pdf] User Manual Washdown Platform Scale, H-5836, H-5837