

480/482 Legend Series

Battery Option

The battery option can be installed in either the 480 or 482 indicators. Software version must be 1.03 or higher, which has parameter settings for sleep and standby mode of operation.



WARNING

Some procedures described in this manual require work inside the indicator enclosure. These procedures are to be performed by qualified service personnel only. Failure to heed may result in serious injury or death.



Manuals and additional resources are available from the Rice Lake Weighing Systems website at www.ricelake.com

Warranty information can be found on the website at www.ricelake.com/warranties

IMPORTANT

When installing a 480 with a battery option, removing the CPU board jumper 4 is recommended. Removing jumper 4 maximizes battery life when the indicator is turned off due to reduced standby current. See the Power parameter within the MISC Menu section of the 480 Legend Series Technical Manual (PN 119201) for more information.

When the Standby parameter is set to another setting other than NONE, a key press wakes the indicator from standby.

Part No.	Description	Qty
131323	Lithium Rechargeable Battery	1
131317	Charger Board, VDC to VDC	1
131322	Plastic Battery Bracket	1
155232	Ribbon Cable	1
131328	Screw, 4-40 x 0.312	3

Table 1. Battery Option Parts Kit

Battery Installation

1. Remove the backplate from the indicator and place it face up on a work surface.

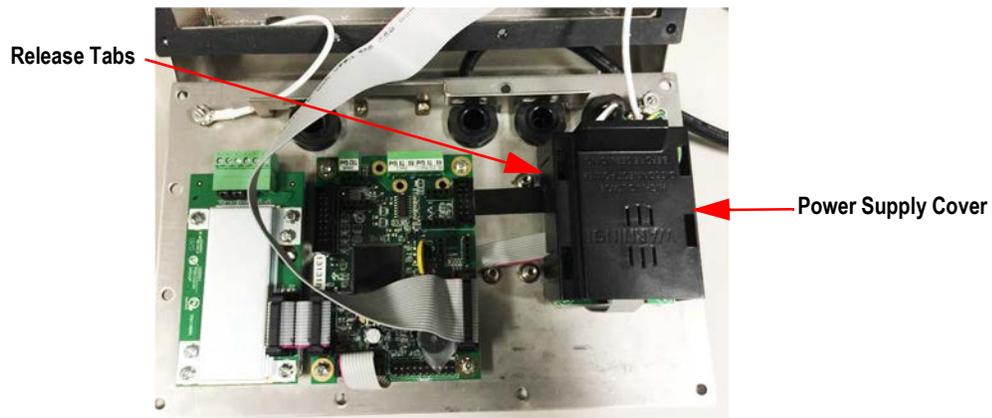


Figure 1. Remove Power Supply Cover

2. To remove the power supply cover, pry out the inside edge and lift to release tabs from under the board.

3. Remove screws and ribbon cable from power supply board.

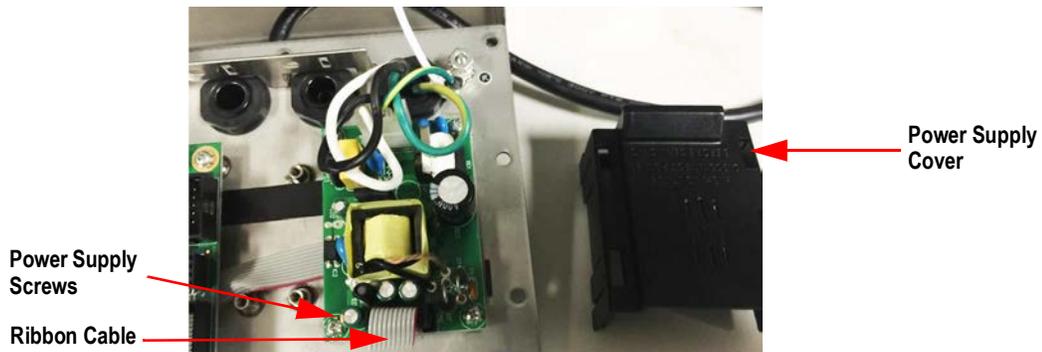


Figure 2. Loosen Power Supply Board

4. Pull ribbon cable out from underneath power supply board.
5. Lay ribbon cable between CPU board and power supply board, ensure cable is oriented correctly to fit into the battery board.

 **Note** *The ribbon cable is keyed to only plug in one way.*

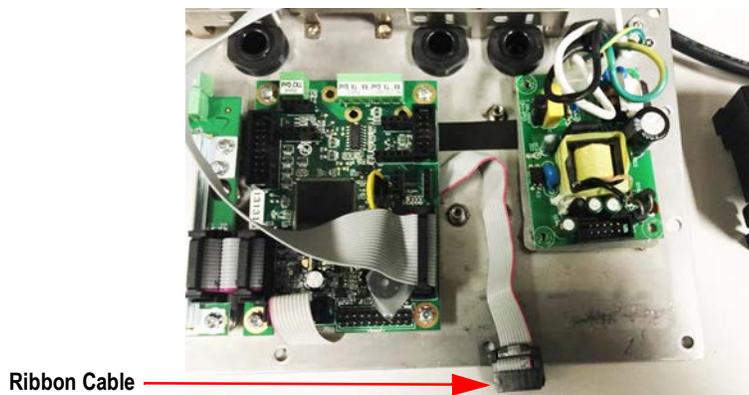


Figure 3. CPU Ribbon Cable Routing

6. Route the ribbon cable between battery kit and CPU and power supply boards opposite the CPU ribbon cable. Ensure cable end is oriented correctly to fit into circuit boards.

 **Note** *The ribbon cable is keyed to only plug in one way.*

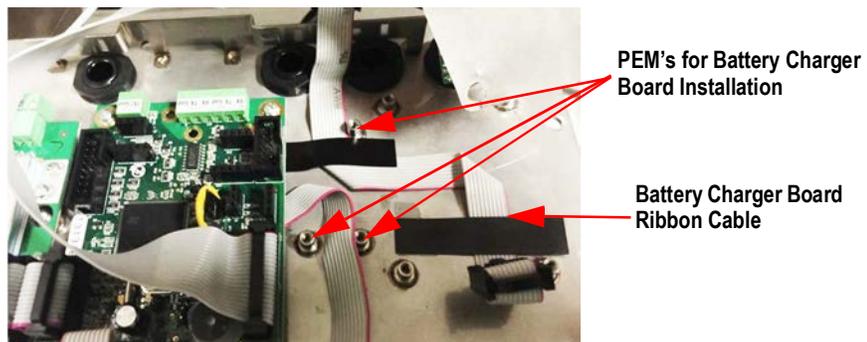


Figure 4. Battery Charger Ribbon Cable Routing

7. Attach battery charger board from kit to three PEM's between power supply board and CPU board.
8. Secure with screws.

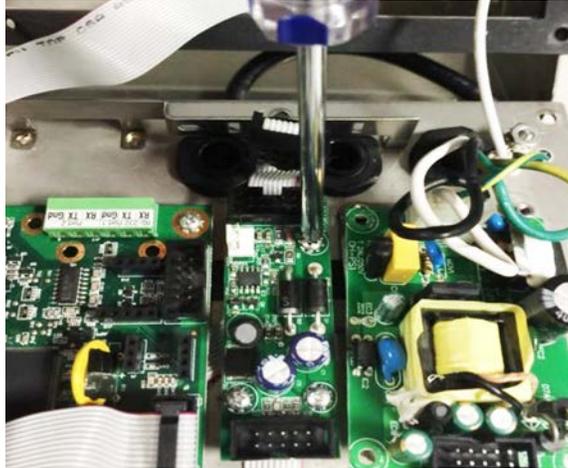


Figure 5. Install Battery Charger

9. Connect ribbon cable from CPU board to battery charger board.

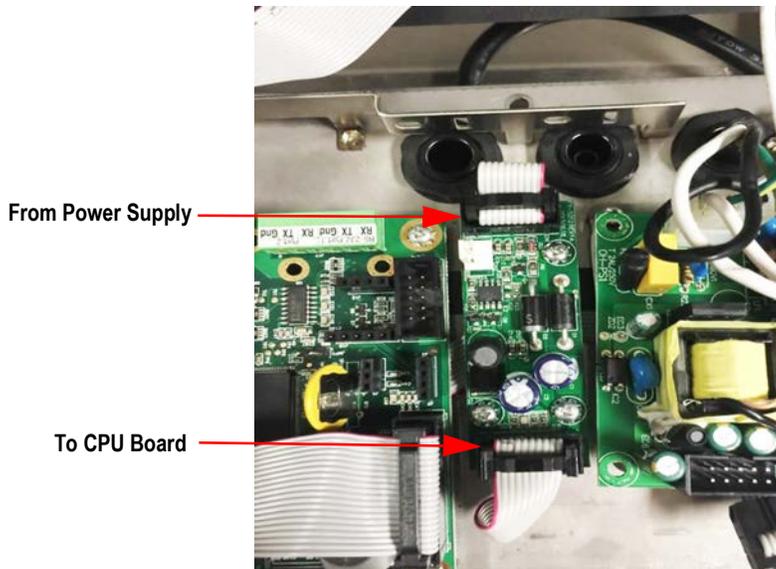


Figure 6. Connect CPU Ribbon Cable to Battery Charger

10. Install the battery into the battery cover with conductors facing down and oriented through the open side.

11. Lift power supply board and align battery cover with the PEM standoffs for power supply board.

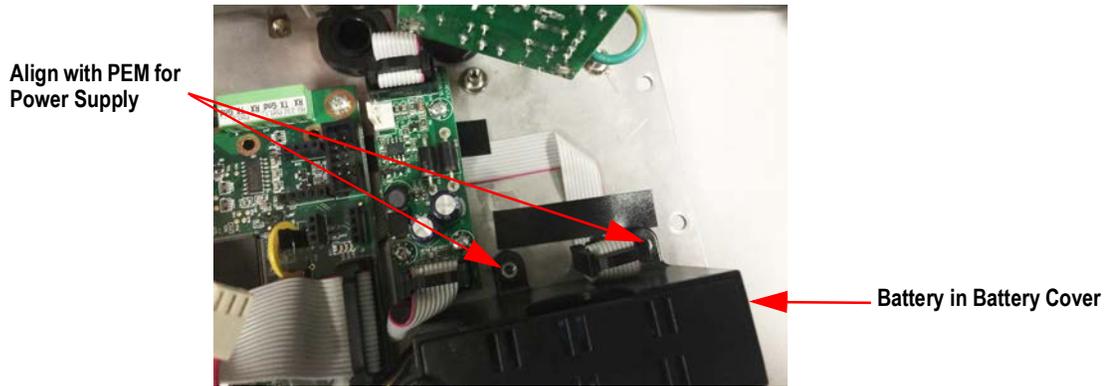


Figure 7. Install Battery

12. Place the insulating sheet under the power supply.
13. Place the power supply board back on the backplate, aligning with the PEM standoffs.
14. Use screws to secure both battery cover and power supply board to the backplate.
15. Connect ribbon cable from battery charger to power supply board.

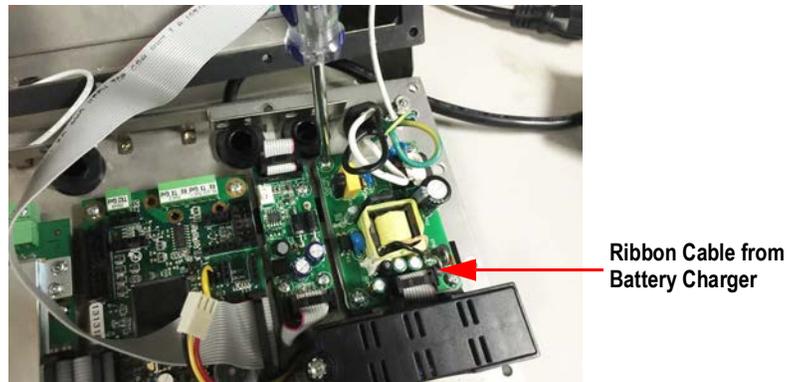


Figure 8. Reinstall Power Supply Board

16. To reinstall the power supply cover, pull tabs on cover out to slide underneath the power supply board.
17. Connect battery connector to the battery charger board.

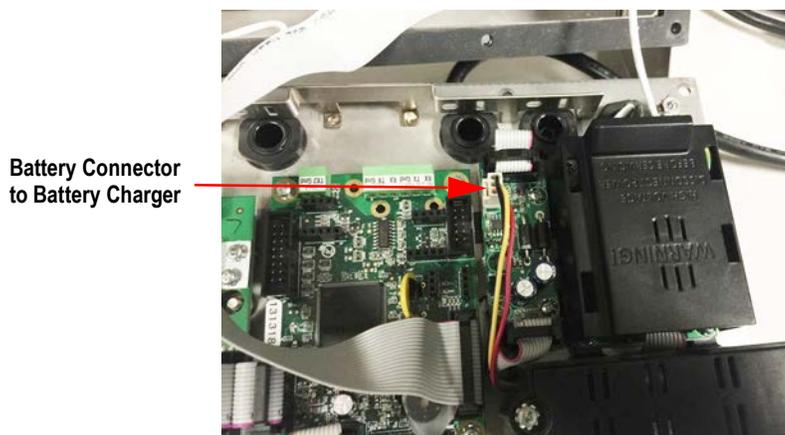


Figure 9. Battery Connector to Battery Charger Board

18. Reinstall backplate to the indicator.

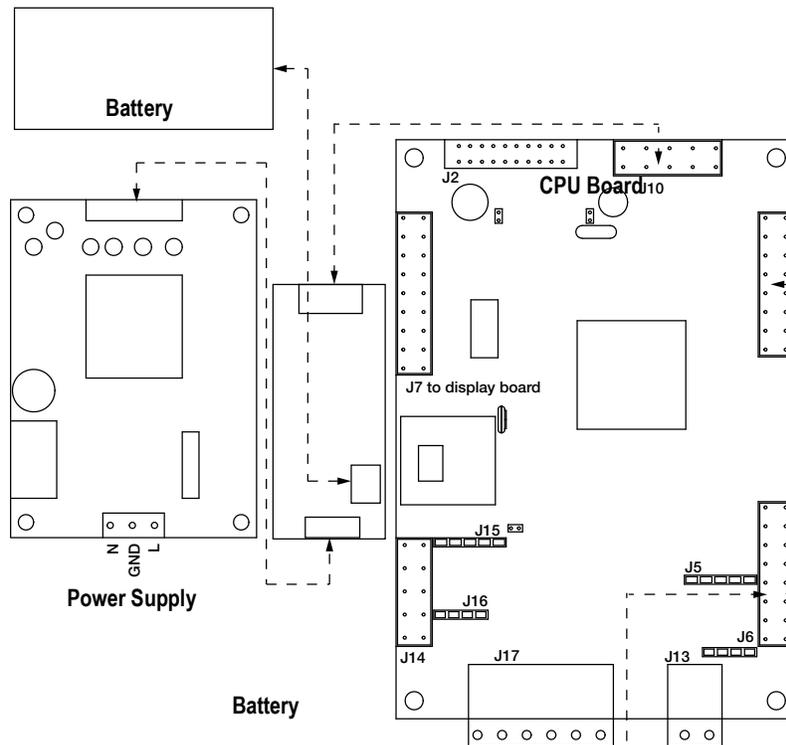


Figure 10. Wiring Diagram

Operating Times

All estimated operating times are based on a fully charged battery. A fully charged battery is one which has been charged until the charger pilot lamp has switched from red to green (signifying 95% charged).

Displays	350 Ω	88 Ω
LCD Display	40 hours	30 hours
LCD Display with Backlight	15 hours	13 hours
LED Display	15 hours	15 hours

Table 2. Estimated Battery Operating Times



Note To preserve battery life, disconnect the battery when not in use. If the indicator is turned off, the indicator draws a small amount of power while connected.

Battery Charging

Recharge time is 16 hours, 1000 power cycles to 80% capacity. Indicator runs on AC power when plugged into an AC outlet.



CAUTION Re-charge batteries in a non-hazardous location.

Specifications

Power

Battery Type:	Rechargeable Lithium-Ion
Nominal Voltage:	3.65 V
Nominal Capacity:	5300 mAh
Estimated Battery Life:	40 hours (350 Ω load without backlight) 15 hours (350 Ω load with backlight)
Approx. Charge Time:	16 hours to achieve 100%

Environmental

Battery Operating Temp:	-4°F–140°F (-20°C–60°C)
Storage:	-40°F–140°F (-40°C–60°C) (fully charged battery)



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