



# Operating Instructions

863 Valley View Road, Eighty Four, PA 15330 USA  
Tel: 724-941-9701 Fax: 724-941-1369 e-mail: skctech@skcinc.com

## Replacing the Stack in an AirLite Pump

### Removing the Stack

1. Unscrew the two screws retaining the belt clip and remove belt clip.



2. Remove the single retaining screw from the back of the pump case.
3. Press down gently on the inlet hose barb and slide the stack and control board out of the bottom of the case.



4. Use a small Allen wrench to **loosen** the setscrew on each side of the pump housing.

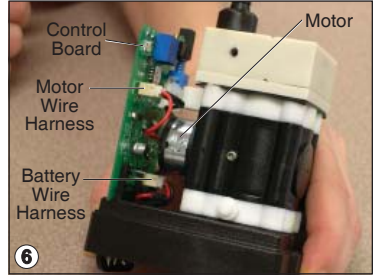
 *Do not remove setscrews.*



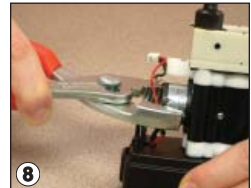
- Loosen the screw on the battery case cover, remove cover from the base plate, and remove batteries.



- Detach both the battery and motor wire harnesses from the wire connectors on the control board.



- Lift the control board off the base plate.
- Use pliers to gently rock the motor back and forth while pulling the motor from the pump housing.



## Replacing the Stack

- Remove the button plug from the side of the pump housing. Using fingers, insert the motor into the pump housing of the new stack (Cat. No. P20182A). Gently press the motor into the pump housing while observing the alignment of the bearing/eccentric to the slot in the yoke (*see below*). If the bearing/eccentric is off-center, use a finger or pen to gently move the yoke to either side until the eccentric is centered in the slot.
- Once aligned properly, gently press the motor into the pump housing until it will not move any further.



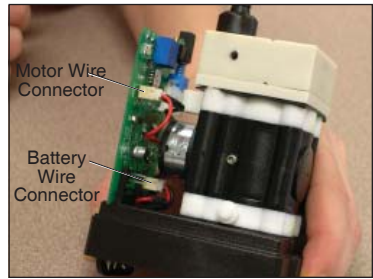
**Correct: Eccentric centered in yoke.**



**Incorrect: Eccentric off-center and binding yoke.**

3. Use a small Allen wrench to tighten the setscrew on each side of the pump housing.
4. Reattach both wire harnesses to their corresponding wire connectors on the control board. Reinsert the control board in its groove on the base plate.

⚠ *Handle wiring gently.*



5. Leak-check the stack before inserting the stack in the case.
  - a. Connect the pump inlet to a water column.
  - b. Block off the exhaust port (located next to the inlet hose barb) using an implement that is .187 inch in diameter.
  - c. Apply 15 inches water pressure. If the stack has complete integrity, the water column will not drop. If there is a leak, the column will drop and the tester should troubleshoot the stack and eliminate the leak before installing.
6. Place batteries in the battery compartment. Replace and secure the battery case cover.
7. Run the pump to ensure that motor and stack are properly installed (i.e., yoke is not binding the eccentric). If operating properly, replace the button plug on the side of the pump housing.
8. Align the inlet hose barb with the hole in the top of the pump case and gently insert the pump up into the case. Ensure the control board is aligned with the ribs on the inside of the case. Once the side tabs of the case are aligned with the corresponding channels on the sides of the base plate, press the case down until the tabs click into place.

ⓘ *If there is resistance, pull off the case and ensure the control board is seated in its groove on the pump base plate. Repeat Step 8.*

9. Replace the single retaining screw on the back of the pump case.
10. Align and replace the belt clip and two screws.

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