

Powerline Inflator Inspection

Affected Military Equipment:

Aqua Lung and Apeks BC's purchased since 01Jan2015 with Powerlines marked with the letter "H" (see inspection info on pg2).

Problem:

Customers have reported limited numbers of Powerline inflators that continue to inflate after releasing the inflation button.

Corrective Actions:

Immediately discontinue using all Aqua Lung and Apeks BC's. Refer to the inspection procedure on the following page to determine if you have Powerline inflators that are affected by this bulletin (purchased since 01Jan2015 with Powerlines marked with the letter "H"). Commands can choose one of the following no-cost repair options:

1. Option 1 - Dealer repair: Return Powerlines to your local Aqua Lung dealer.
2. Option 2 - Factory repair: Return Powerlines to Aqua Lung America following the Return Procedures listed below.
3. Option 3 - Self repair: Review Inspection and Corrective Actions located on the next 3 pages. If choosing this option coordinate shipment of the free repair kits and tool by contacting Aqua Lung America Service and Repair Supervisor Misti Brown: mbrown@aqualung.com

Return Procedure:

1. If Option 2 is chosen, return Powerlines to Aqua Lung America, email Misti Brown, Aqua Lung America Service and Repair Supervisor: mbrown@aqualung.com
2. In your email include: Primary and secondary POC for this effort (include phone number)
3. Return shipping address, including valid street address (no APO's or FPO's)
4. Total quantity of Powerlines you are returning in this shipment
5. Identify the number of packages you will be shipping
6. You will receive an email back from Aqua Lung America with a return authorization number (RMA number) to place on the outside of the box.

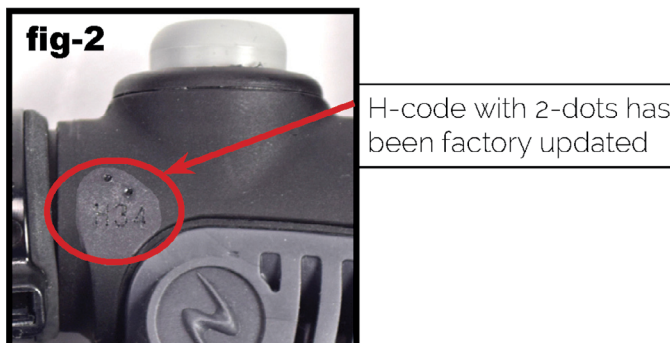
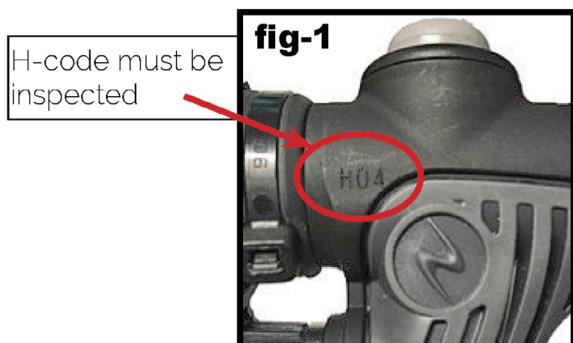
For further technical support or to provide input on any of the information presented please contact:

Steve Reilly - Aqua Lung America Military Product Manager: sreilly@aqualung.com

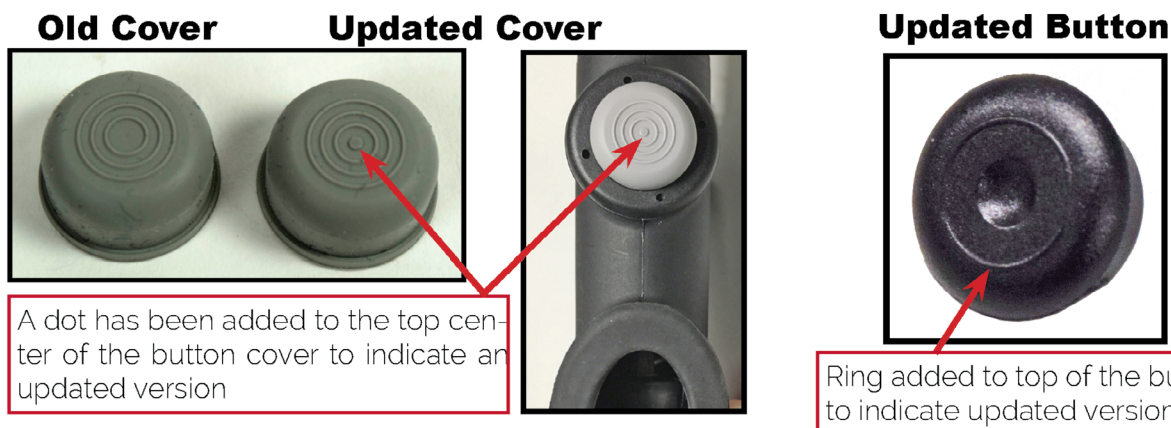
Glen Rubin - Aqua Lung America Military Program Manager: grubin@aqualung.com

Powerline Inflator Inspection

INSPECTION: Any Powerline inflator body marked with a date code beginning with the letter "H" (fig-1) will need to be inspected and/or updated as described below. Any Powerline inflator body with a date code of "H and 2-dots" (fig-2) has been updated by the factory and is OK to use.



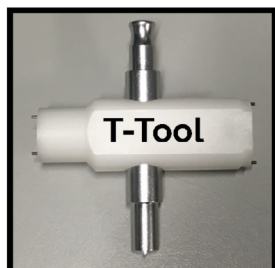
Aqua Lung has updated the inflator button (p/n 15747) to prevent the Powerline inflator from potentially auto inflating. The button cover (p/n 15100) was also updated as a **visual indicator** that the Powerline inflator has already been updated.



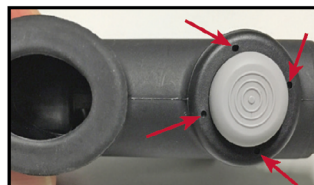
All Powerline inflators you find with the "H" date code without the updated button cover or the two dots will need to be updated using the steps below.

CORRECTIVE ACTION

1. Using the large end of the T-tool (p/n 42314) or any commercially available circlip style pliers or open faced spanner.



2. Insert the tool pins into the two opposing holes in the inflator bezel (p/n 15746). While holding the tool securely engaged, turn the bezel counter-clockwise until it is loose, then remove the bezel and button cover (p/n 15100).

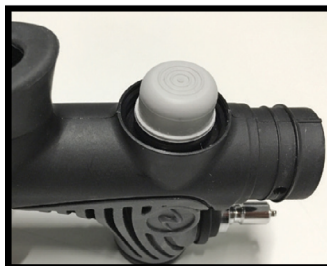


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3. Remove and replace the button (p/n 15747). The updated version of the button has a ring on the top.



4. Fit the new button cover (p/n 15100) over the new inflator button (p/n 15747) so that it seats flush against the shoulder of the push rod housing.



5. Fit the inflator bezel (p/n 15746) over the button cover (p/n 15100) and press down while rotating the bezel counter-clockwise until a click is felt. Then, turn the bezel clockwise to engage the threads and continue tightening by hand until finger snug. Be careful to avoid cross-threading.



CAUTION: It is important to rotate the bezel counter-clockwise in order to properly seat the threads before tightening into the body. Failure to correctly follow this step may cause permanent damage to the bezel and the body due to cross-threading. This could result in a leak if both parts are not replaced.

6. Using the large end of the T-tool or other commercially available tool, insert the pins into the two opposing holes in the inflator bezel (p/n 15746). While holding the tool securely engaged, turn the bezel clockwise until it is flush with the surface of the body. **"DO NOT"** overtighten! Closely inspect the button cover (p/n 15100) to ensure that it is seated evenly on all sides and does not appear to be crimped or partially unseated.



POST ASSEMBLY TESTING: Verify that the first stage regulator which the Powerline inflator will be used with has been recently serviced and adjusted to a stable MP of 130-145 psi (9-10 bar). Attach the first stage to a cylinder filled to 3000 psi (206 bar). Connect the Powerline inflator to the first stage via the quick disconnect MP hose. Slowly open the valve of the supply cylinder to pressurize the regulator.



CAUTION: Before pressurizing the first stage, it is important to have a properly adjusted second stage attached to the first stage. This will provide a safety relief valve if the MP exceeds 145 psi (10 bar). Failure to relieve increasing MP may result in damage to the MP hose.

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Depress the inflator button of the Powerline inflator several times to ensure that airflow is unobstructed. After releasing the button, listen carefully to ensure that the airflow has completely stopped. If internal leakage can be heard, refer to Troubleshooting Guide below and correct the problem as needed.



SYMPTOM	POSSIBLE CAUSE	TREATMENT
Restricted airflow or BC inflates slowly (with full tank, stable MP)	1. MP hose is obstructed	1. Clean or replace hose
	2. Filter is clogged or obstructed	2. Replace filter
	3. Valve core is clogged or corroded	3. Replace valve core
	4. Dirt/salt deposits are present within the inflator assembly	4. Flush with warm fresh water
External air leakage from inflator	1. O-rings are damaged	1. Replace faulty o-ring
	2. Inflator button cover is damaged or incorrectly installed	2. Disassemble and correct as needed
	3. Push rod is damaged	3. Replace push rod
	4. Inflator body is damaged	4. Replace body
Internal leakage from inflator	1. Valve core corroded or damaged	1. Replace valve core
	2. O-ring damaged or worn	2. Replace o-ring
	3. Valve core retainer damaged or worn	3. Replace valve core retainer
	4. Inflator body is damaged	4. Replace body

Should you have any questions regarding this issue,
please contact our customer service department at:
(877) 253-DIVE