Technical Service Bulletin

Attention Service Manager/Parts Department

Bulletin Level: 2* **Specific Warranty Coverage:** Standard warranty coverage

Subject: Solution Leakage & Low Solution Flow

Models Affected:
- AquaClean 16XP 56265000, 16ST 56265003, 18ST 56265008, 18FLX 56265001; AX410 56265002; Klenzor 16 56265004, 18MPH 56265005

Parts List Form Number(s) Affected: 56042452, 56042453

ECO#: A-03314, A-03816

Informational Bulletin: NA

Issue: Solution leaking from under machine. Reduced or loss of solution flow from spray nozzle.

Cause: 1) Solution leakage can result from cracked or broken 90 deg fitting, 56900069, installed in solution tank or solution pump. Fitting fracture results from excess torque applied during installation process or stress due to incorrect solution hose routing.
2) Solution leakage can result from excess stress on straight fitting, 56262190, in bottom of tank due to orientation of hose between tank and pump inlet.
3) Reduced or low solution flow can result from improper priming of solution pump.

Corrective Action: Field:

If fittings are cracked or broken replace or replace pump assembly if fitting can't be removed.
If solution flow is lost or reduced and pump is running, install pump bypass kit 56265226 or 56265227 to reorient pump. See Fig's 4-7.

Factory:

Improved assembly process controls implemented to prevent over tightening of fittings. Solution pump reoriented to improve priming of pump. Design effective 4/2/07 with:

Part #	Model	S/N
56265000/08	16XP/18ST	1984764
56265001	18FLX	1984799
56265002	AX410	1985648
56265003	16ST	1985057
56265004	Klenzor 16	1985090
56265005	Klenzor 18MPH	1985114

Straight fitting in pump changed back to 90 deg elbow and hose routing revised to reduce stress on fittings in pump & bottom of tank. Design change in effect with:

Part #	Model	S/N
56265000	16XP	2026387
56265001	18FLX	2025848
56265002	AX410	2026736
56265003	16ST	2026407
56265004	Klenzor 16	2026778
56265005	Klenzor 18MPH	2026778
56265008	18ST	2028657

* **Technical Service Bulletins Levels:**
Level 1: These Bulletins contain general information and are without specific warranty coverage.
Level 2: These Bulletins describe continuous quality improvements that are made to products. Specific warranty coverage may apply and if so is noted in the Bulletin.
Level 3: These Bulletins describe a quality problem that has been determined to require a mandatory update to the product. Specific warranty coverage is as noted in Bulletin.

Fig 1- Fitting 56409507 fractured at hex. Hose incorrectly routed on top of vacuum can stress fitting. Hose fitting fractured at hex. Hose correctly routed under vacuum hose.

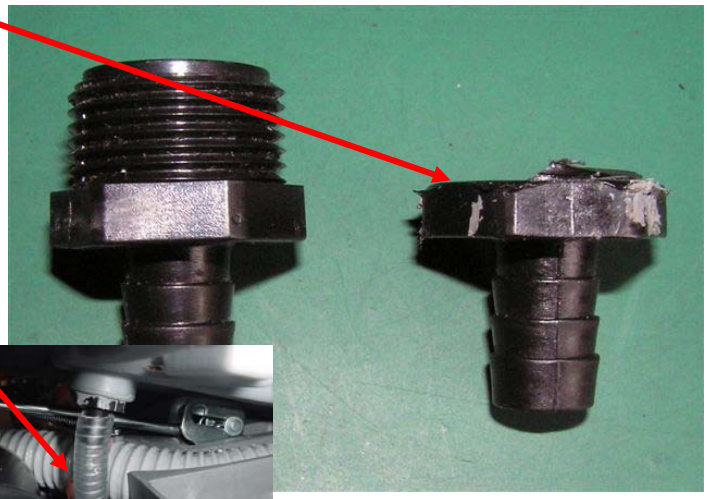


Fig 2- 90 degree elbow 56900069 fractured at pump inlet & on back of solution tank from being over torqued.

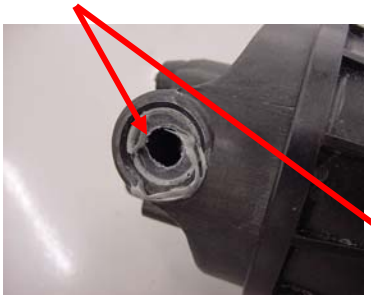
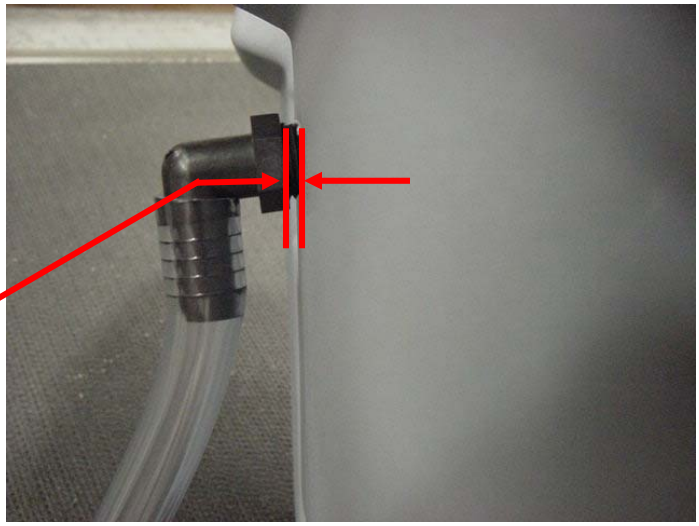


Fig 3-



If fitting has straight threads it can be installed so nut is flush with tank. If fitting has tapered threads it should be installed so there is a 1/8 gap between nut and tank surface. Tightening until nut contacts tank can result in over torquing and cracking or fracturing fitting.

!CAUTION: When using aftermarket replacement fittings thread design can vary resulting in over tightening and cracking fitting.

56900069 fitting w/no thread taper,
0.63" dia.
Hex 0.68 inches across flats
3 barbs

56900069 fitting w/tapered
thread, 0.66-0.68" dia.
Hex 0.75 inches across flats
4 barbs

Fig 4- Design change to improve pump priming resulted in pump being re-orientated such that inlet & outlet ports are on the LH & RH side vs top and bottom. Refer to pump bypass kit 56265226 or 56265227.

Fig 5-

Straight fitting 56409057 initially used in pump inlet port was replaced with 90 deg elbow shown in Fig 6. Hose routing revised to reduce stress being applied to tank and pump fitting.

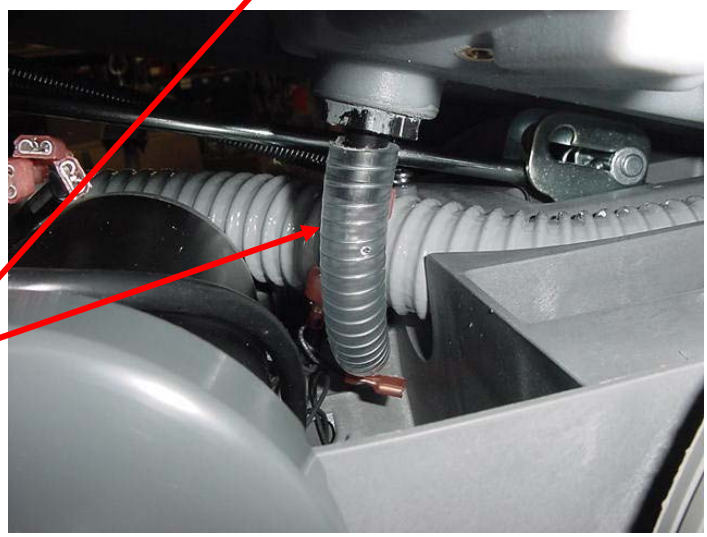
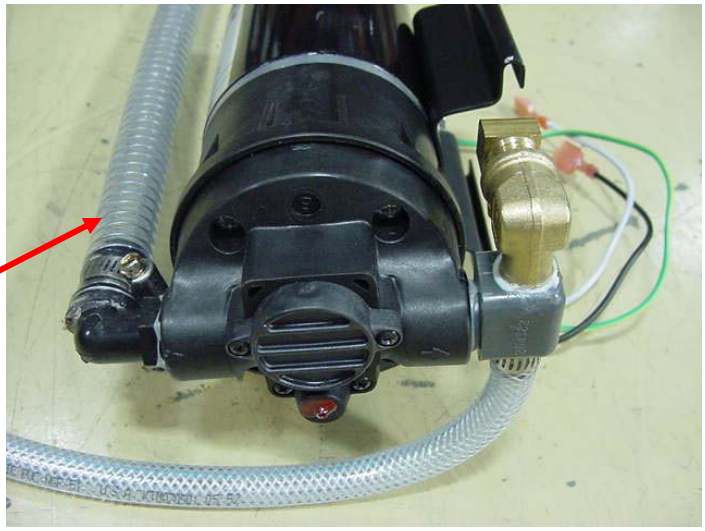
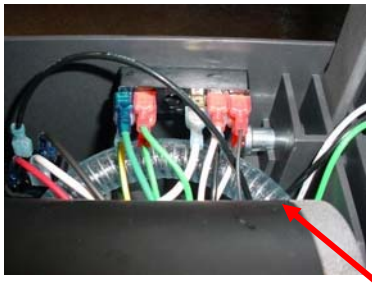


Fig 6-

Straight fitting 56409507 changed to 90 deg elbow 56900069.





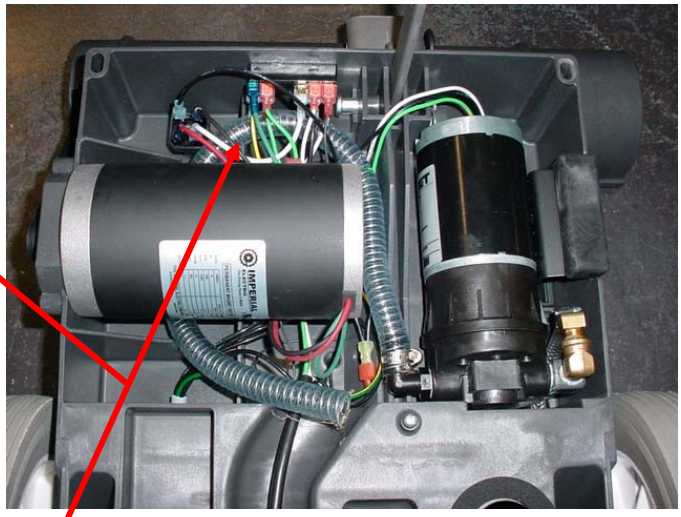


Fig 7- Hose routing between solution tank fitting and pump inlet fitting revised to reduce stress on tank and pump inlet fitting.

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Route the solution hose under the terminal block, wires and brush motor as shown.