

# AIR METRICS™

INNOVATIVE AIR SAMPLING EQUIPMENT

## MiniVol TAS High Efficiency Pump Rebuild Instructions

1. Remove socket cap screws (7/64" drive size) from both upper and lower head assemblies (x8)
2. Separate upper (blue) and lower (silver) head exposing the pump valve. **Make note of orientation.**
3. Replace pump valve with same orientation. Set aside.
4. Remove pump yoke cover by removing pan head screws (x2)
5. Next remove both set screws (.050" drive size) that fasten the cam to the motor shaft.
6. Remove the cam from the shaft.
7. The yoke, upper and lower pistons along with the diaphragm can now be freed from the pump frame.
8. Remove flat head screws from either side of the yoke.
9. The upper and lower piston can now be separated and the diaphragm replaced.
10. **DO NOT OVERTIGHTEN** flat head screws when replacing pistons/diaphragm on yoke.
11. Follow instructions in reverse order

KEY	DESCRIPTION	PART #	REQ
	Pump Assembly, 12V, complete	108-000	
1	Frame	108-001	1
2	Head-Lower	108-002	2
3	Head-Upper	108-003	2
4	Diaphragm	108-004	2
5	Valves	108-005	2
6	Socket Cap Screw	901-004	8
7	Hose Barb	108-007	4
8	Piston-Upper	108-008	2
9	Piston-Lower	108-009	2
10	Yoke	108-010	1
11	Cam	108-011	1
12	Motor	108-012	1
13	Bearing	108-013	1
14	Retainer	108-014	1
15	Socket Set Screw	108-015	1
16	Flat Head Screw	106-010	2
17	Cover	108-017	1
18	Socket Cap Screw	108-018	6
19	Pan Head Screw	301-005	2

