



## POP-Charger Air Intake System Cleaning Instructions

Your new POP-Charger is the most efficient air intake system available. By adhering to ideal venturi theory, a 4:1 convergent area and a modified parabolic profile maintain a near linear air velocity along the entire venturi surface. Interestingly, it is the POP-Chargers aluminum venturi that accounts for the largest performance gain; the filter element itself is designed simply to not adversely affect this venturi. The POP-Charger uses a very low restriction gauze filter element. By saturating the gauze with a sticky oil, foreign particles are literally stuck to the gauze. The “wicking action” of the oil quickly coats each trapped particle, making it an active part of the filter. Your original filter uses a sieve principle, which must restrict all air passages in the element to a size no larger than the smallest particle being filtered. An oiled gauze filter however does not need to restrict particles, but instead, attracts them, allowing for much larger air passages while still removing particulates. Unlike your original paper element filter that must be discarded when it is clogged, gauze element filters can be continually cleaned and reused. By using a water based cleaner like 409, Simple Green, or laundry detergent, the oil in the dirty filter is dissolved, releasing the trapped particles. Rinsing with low-pressure water from the inside out, allowing it to dry and re-oiling it completes the service.

### SERVICING YOUR POP-CHARGER FILTER ELEMENT:

1. **Remove** the element from the POP-Charger aluminum venturi and shake out any loose dirt.
2. **Spray** the element liberally with a water based **cleaner** like 409, Simple Green, or laundry detergent mixed with warm water. Basically any cleaner that could be used to remove grease from a cotton tee shirt without damaging it.
3. **Rinse** the element with low pressure (IE. open ended garden hose slightly opened) water from the inside outward.
4. **Dry** the element by shaking or swinging it to remove the majority of water and allowing it to final dry naturally. No heat or compressed air!
5. **Spray** an even coat of **gauze air filter oil** (most motorcycle, performance shops or Jim Wolf Technology, inc.) lengthwise along each pleat. Wait a few minutes and touch up any thin or missed pleats.
6. **Service intervals** depend on the driving environment. Intervals can be up to 50,000 miles or as short as one day for off-road events. Generally the element can look pretty dirty and still be working at a high efficiency since new particles continue to stick to the previously trapped particles. If you are not sure, remove the element and shine a light from the inside. If you can't see the light from the outside or it is dim, it's time for service. Use caution when cleaning or servicing car batteries located near the filter, as battery acid residue will eat holes in the element.



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