Audi S4 Samco Intake Hose Install

The Audi OEM intake tract hoses that carry pressurized air from the turbo to the throttle body have been known to fail under the higher boost pressures from a chipped ECU. Heck, they've been known to fail with a stock ECU after they've marinated in oil for 6 years or so. Samco makes a set of silicone intake hoses that can take higher boost pressure than the OEM hoses and are more resistant to oil. I've just installed a set of the Samco hoses from the James Murray group purchase (thanks James!) and put together the following "how-to" on the job.

You can make this job hard or easy. It's easy if you remove enough paraphernalia from the car to get at the hoses. It's hard if you try to install the hoses without taking off anything except the belly pan. I took the easy route and had the hoses installed with no problems in about 2 hours.

Samco (or reasonable facsimile thereof) Install How-to.

- 1. Put the front of the car up on ramps (or jack stands.)
- 2. Remove the belly pan.
- 3. Remove both headlights (see <u>www.urs4.com/technical/headlights.html</u> for instructions on headlight removal).
- 4. I started with the throttle body hose (see Photo1), reputedly the most problematic hose to install. Remove the old hose. Clean the hose stub connector on the throttle body, the intercooler, and the ISV with brake cleaning spray or equivalent you don't want any grease or oil under your new hoses causing them to pop off under full boost as you pass that fifth semi.



5. Lube the inside of the Samco hose and the hose stubs with water, slip the loose clamps over the hose, and install the hose. I installed it on the intercooler first, then on the throttle body, and finally on the ISV. It took a few minutes to get it on the intercooler stub, but the rest went easily. (see Photo 2).



- 6. A note on clamps: The Samco hoses are stiffer and stronger than the OEM clamps. The OEM clamps just won't cut it, cheapskate, so go out and buy yourself some hefty T-bolt of constant-torque clamps. I opted for the CT clamps that are visible in some of the photos.
- 7. On to the famous Michelin Man hose (see Photo 3), the one that most commonly fails. Samco has made this hose extra hefty. Remove the old hose and clean up the hose stubs on the intercooler and the X-pipe. Take a look inside the old Michelin Man hose. If your turbo is spewing oil, this is where it collects. There was a small amount of dried up oil inside my old hose not a problem (see Photo 4).
- 8. Lube the inside of the Samco hose with water, slip the loose clamps over the hose, and install (see Photo 5). If you have trouble, you can remove the hanger bolt on the X-pipe and drop the end I didn't have to do this. Now that's a hose! None of that mushy OEM stuff, no sir! And that's a clamp, son, you can get some serious torque on those babies!







9. Now for the turbo to X-pipe hose (see Photo 6). Access to this area is very limited. To improve it, remove the turbo intake hose (see Photo 7). This also gives you the chance to check the turbo impeller to see if it's rattling around in there. Loosen the clamps on the old hose and remove the X-pipe hanger bolt at the turbo end of the pipe (see Photo 6). Drop the end of the X-pipe and remove the hose.





- 10. Cover the open end of the X-pipe this is downstream of the air filter and the engine will eat any chunks you drop in here.
- The Samco turbo hose comes in two pieces the hose to the bypass valve is separate from the main hose (see Photo 8). I used a straight ³/₄" copper pipe connector & a couple of clamps to join them. Make sure you put it together so it matches the old hose :o)



12. Install the Samco hose using water as lube if required (I didn't lube this one). Note the routing of the engine ground strap – it passes in front of the hose and above the bypass hose. Re-install the X-pipe hanger bolt. (see Photo 9).



13. In the immortal words of the Bentley, put it all back together in reverse order of removal.

Simple, what?

Fred Munro '94 S4