

DYNO TESTS

Cobra Cool Air Kit

At Kenne Bell, we always try to give our customers as much good factual information as possible. We back our claims with in house Kenne Bell dyno tests. Temperatures, pressures, mass air flow, spark, air fuel ratio etc. are all measured and data logged with our computers.

Dyno tests were run on a 100% stock Cobra* with both the Eaton and the Kenne Bell Twin Screw at various boost and HP levels to illustrate the HP increases and air flow when using the Kenne Bell Cobra Cool Air Kit. Use 1.5 cfm per HP as a guide to actual engine air flow. *Note: We offer these kits for the non supercharged '96 up 4.6 Mustangs and Cobras, but used a supercharged Cobra because it develops the most HP.* This kit will supply all the airflow any 4.6 would require, up to 725HP.

Over 100 dyno tests were run comparing filters, hoses and adaptors. The final dyno test compares the big 4" Bazooka pipe used for "0" inlet restriction tests.

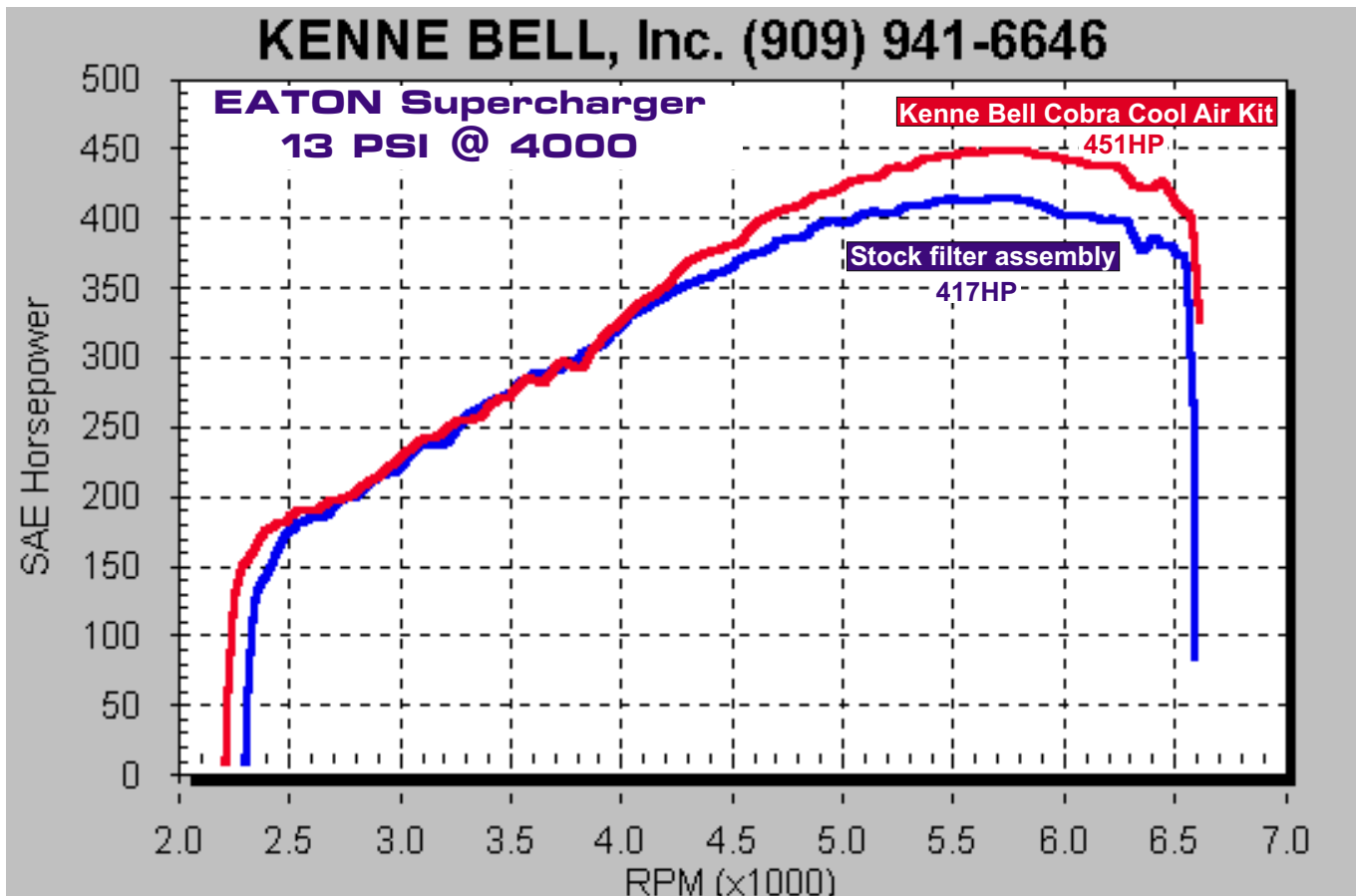
There was only a 3HP peak power loss with the Kenne Bell Cobra Cool Air Kit as compared to a straight 4" pipe at 616RWHP. Power loss at 500HP was "0" and approx. 2HP at 550HP. Therefore, removing the filter at power levels below 650 isn't worth the risk of ingesting a rock.

Again, forget about "underhood" and wimpy filters that suck in hot 200° underhood air or eat up gobs of HP. Every 10° rise in inlet temp reduces power 1%. A 10% reduction in air flow can reduce power 10%. Check out the huge power gains from reducing inlet restriction. More HP means increased inlet restriction and higher potential HP gains from reduced inlet restriction. Note that this Cobra was 100% stock (exhaust, headers, cats, throttle body, meter, injectors etc.) except for a Kenne Bell SWITCH CHIP® and Cool Air Kit.

*Kenne Bell SWITCH CHIP® and BOOST-A-PUMP™ was used to increase fuel volume and pressure for higher than stock HP.

"The best inlet components are those with "0" restriction."

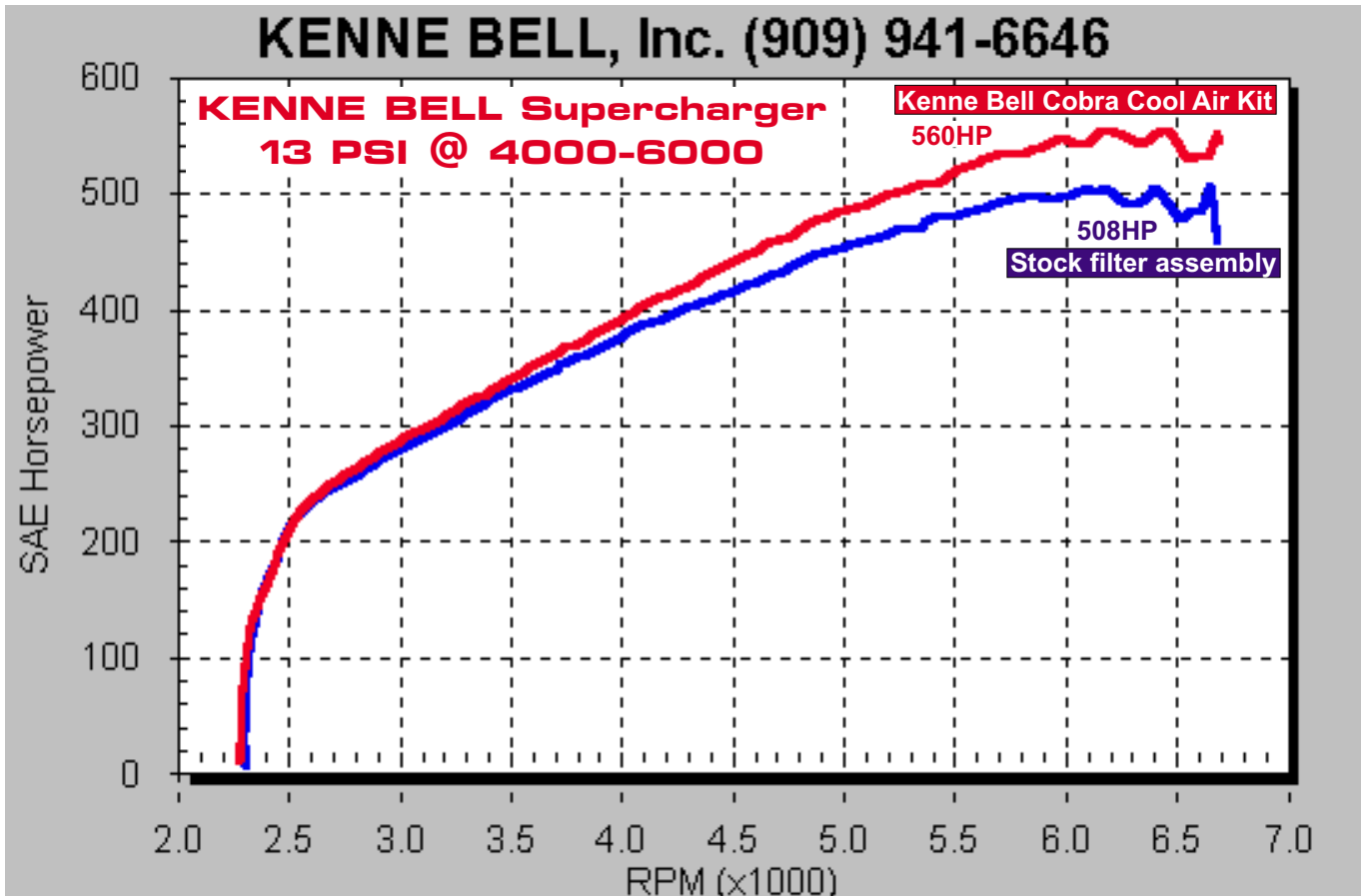
Jim Bell



FILTER TEST COMPARISON STOCK COBRA 13 PSI 3" PULLEY

These tests were conducted on a 100% stock Eaton supercharged Cobra with Kenne Bell SWITCH CHIP® and BOOST-A-PUMP™ and a 3" pulley (13 psi). Installing ONLY the Kenne Bell "Cobra Cool Air Kit" increased power by 34HP. A stock Cobra with the stock 3" pulley and 8 psi Eaton produced 366HP.

Note: Boost drops off approx. 1.5 psi between 4000-6000 with the Eaton, but does not with the Kenne Bell. Overall boost increases 2 psi at all rpm with Kenne Bell Cool Air Kit.



FILTER TEST COMPARISON STOCK COBRA 13 PSI KENNE BELL

The Kenne Bell supercharger on the same 100% stock Cobra developed 508HP at 13 psi. Installing the Kenne Bell "Cobra Cool Air Kit" increased power by 52HP. Power gains will depend on HP/air flow of the engine.

To illustrate the air flow potential and efficiency of the Kenne Bell Cobra Cool Air Kit, we compared it to our 4" Bazooka test pipe with "0" restriction on our 616HP (725RWHP) test vehicle. Installing the Cool Air Kit lost only 3HP (613 vs. 616) and no HP at 550HP. That's a mere 6 feet a 1/4 mile run.

Note: Boost does not drop off between 4000 and 6000 rpm and increases 2 psi with Kenne Bell Cool Air Kit.