

2003 MINI COOPER Under 30,000 MILES! Updated August 26, 2008



Engine Mods:

- Crago Racing **PORTED HEAD**
 - The flow numbers for the intake side are 218 CFM and the exhaust has been a difficult to achieve 172 CFM. The head utilizes larger intake and exhaust valves, a different valve grind, as well as hand porting. We also only use the Schrick street cam, which does not cost low end to achieve ultimate peak numbers. This is a drivable modification.
 - Each head is individually flow benched, and the flow sheets are included with each head.
 - With typical modifications - intake, pulley, exhaust - the head adds an additional 19 horsepower and 11 ft/lbs of torque.
- ALTA **15% Reduction PORTED Supercharger Pulley**
 - 11 ft/lbs, 16 horsepower gain
- Alta Lightweight Crank Pulley
- K & N Typhoon **COLD AIR INTAKE BLUE**
- **B&M Performance SHORT SHIFTER**
- Hedman **HEDDERS**
- 62mm **THROTTLE BODY**
 - The throttle body is rebuilt, and uses a bigger butterfly and bored intake and outlet. This reduces restriction in the intake path, and helps modified cars breathe. On pulley equipped cars with an aftermarket intake, the gains have been at least 5 horsepower.
- **SCHRICK CAM**
 - After testing several types of cams, the Schrick is the best available. This cam provides 5-8 horsepower depending on other modifications, and does so without causing idle problems or Service Engine Soon lights. Schrick is a German manufacturer known for their high quality. The cam is a billet, not a regrind. Intake 252 exhaust 260.
- **APEXI FUEL MANAGEMENT V-TEC AFC (Digital)**
 - A'PEX introduces the first digital fuel computer that combines fuel computer functions with a VTEC engagement controller. The V-AFC features a user-definable, eight-point, adjustable fuel curve that can be set in 500 RPM increments. The range of fuel adjustment is +/- 50% at each of the user-defined setting points. The Fuel Adjustment function considers wide/narrow throttle and low/high camshaft settings, from which four different fuel maps are created (wide-low, wide-high, narrow-low, narrow-high). The integrated VTEC Controller adjusts the point at which the engine switches from the Lo to Hi cam during acceleration, as well as when the engine switches from the Hi to Lo cam during deceleration.



"It is no exaggeration that I can now do in one week what would have taken at least a month...the search feature has proven invaluable in and of itself, saving me untold hours of searching for a document with a particular name, address, or number on it."
James Dalosio, Los Angeles County District Attorney's Office, Major Fraud Division – Real Estate Fraud Section

Suspension Mods:

- H-Sport Competition **Rear and Front** Sway Bars
 - This is a tubular 4130, three position adjustable, 22mm effective rate sway bar. The ends of this bar are forged. The rear sway bar makes the most noticeable handling difference on the car. The other advantage, recalling those twisting body theories from Physics, is the limited slip effect the bar has by transferring torque diagonally to the inside front, unloaded, wheel. The H-Sport bar is powder coated **BLACK** now, and comes with polyurethane bushings in new mounts with grease fittings to make lubrication a breeze. Due to the tubular construction, the bar is significantly lighter than stock - roughly half the weight.
- H-Sport **SPRINGS**
 - These springs lower the car evenly front to rear, with a **1" drop**. The rates have been thoroughly tested to determine the best balance of understeer / oversteer, and have made a noticeable difference in car dynamics. The rear spring rates are slightly stiffer to offset the factory programmed understeer, creating an almost neutral feel. They are also a really trick looking blue!



- H-Sport Rear Lower **CONTROL ARMS**



- **ALTA SWAY BAR LINKS** – Front and Rear
- Steve's Auto Clinic custom **STRUT TOWER BRACE**
- **TIRES** Mastercraft Avenger ZHP **215-40-17**
- **WHEELS** ASA-KA3-**17x7.5**—Offset: 35 – Chrome
- StopTech **BRAKES DRILLED ROTORS**
 - StopTech front wheel Big Brake Upgrade kit includes ST-40 4-piston front calipers painted red, 7075-T6 billet aluminum caliper mounting brackets, floating, front AeroRotors, 7075-T6 billet aluminum AeroHats with directional standoffs.
 - **Drilled / Slotted Rotors** – 328 mm (12.9 inches)
 - Squeeze forged high performance, patented **4-piston Calipers**
 - StopTech SS DOT compliant stainless **steel braided Teflon Lines**
 - **Axxis Performance Pads**
 - **Motul Brake Fluid**



Interior/Exterior Mods:

- **B&M Shift Knob**
- **AERO KIT** – Front / Rear Bumpers + Side Skirts
- **CLIFFORD Blackjax4** Immobilizer Car Alarm
- **ALUMAPRO SOUND SYSTEM**: speakers, EQ, sub-woofer



- **Clarion VRX935VD** in dash DVD – CD player
- **K40 ELECTRONICS** -2000/2000P imbedded laser / radar detection - front and rear bumpers
- Xenon Headlights
- **MINI Driving Lights**
- **Altezza** Taillights
- Window Tint (all 40%)
- "MINI" Floor Mats