



The relentless understeer known to plague stock Tiburons is cured with a dual adjustable Progress Group rear anti-roll bar and bushing kit. In its softer setting, the 22mm bar ups stiffness 80 percent more than the 19mm stocker, or 135 percent in the stiffer position. Rob finds the first setting balances the four-cylinder cars well, while the heavier V6 needs the latter.

Road/Race's trademark tubular steel chassis bracing is fitted to the front and rear strut towers to keep everything in place. The significant difference in rigidity between inexpensive imported adjustable bars and accurately manufactured, welded, nonadjustable steel units is notable.

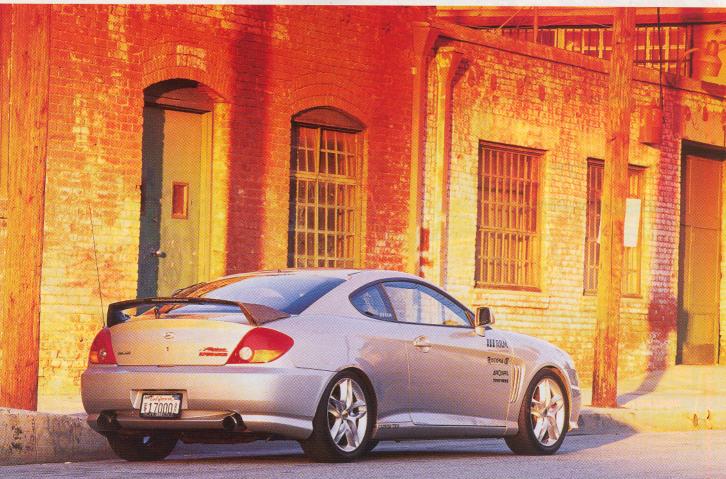
Those looking for real handling improvements should be keen to do their research in this saturated market. Slalom speeds and skidpad numbers illustrate well the improvements made to the chassis, rising from 67.3 to 69 mph through the cones, and up from 0.84 to 0.91 g around the pad. Running an R-compound tire like Toyo's Proxis RA-1 would've probably made



the same difference again.

Looking the part of an early '90s Japanese engine, Hyundai's Delta 2.7-liter V6 plays the part too, putting out a claimed 170 hp and 181 lb-ft of torque in stock trim. Luckily, more power is easily found, with good intakes build-

ing an additional 10-15 hp at the wheels. In keeping with the shop's "no bull" motto, Rob went straight to the sole forced-induction supplier of the day, Alpine Developments, Inc. Its Stage 1 aqua-cooled supercharger package is based around an Eaton M63 positive displace-





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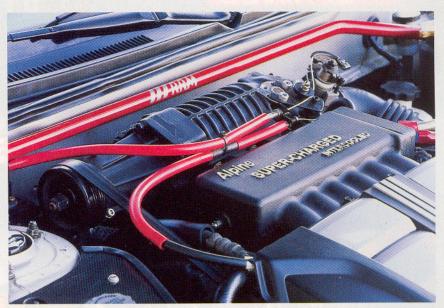
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ment supercharger, similar to that used in the Jackson Racing and TRD kits.

Adapting the supercharger to the Delta engine requires a custom short-runner intake manifold, which doubles as the supercharger's mounting surface, and is included in the kit. The manifold's casting houses a large air-towater intercooler core, or aqua-cooler, as they say in Alpine speak. Many would argue the cost/ performance merits of intercooling such a lowboost (4 psi) installation; however, none could dispute the potential goodness it offers those willing to spin the blower to Alpine's recently released Stage 2 levels (8 psi). Yet to do so has its costs too, including the loss of the kit's incredibly valuable CARB E.O. number. All told, the Stage 1 kit includes everything needed to bolt on a 35-percent power gain to an otherwise stock, and rather limp, Tiburon. What's more, power builds throughout the rpm range, and really fills in between the stock peak of 5200 and the 6500-rpm redline.

Road/Race worked a little of its magic during the supercharger install to make the most of the system. An optional scoop was installed in the Carbontrix hood to direct cool air over the filter of a Road/Race short ram intake. The throttle body was enlarged from 54mm to 60mm to reduce pumping losses through the blower. Time was spent cleaning up and port matching the supercharger inlet with the enlarged throttle body. A one-off Road/Race single 2.25-inch catback exhaust system sans muffler pulled the





plug on the other side of the engine. REAL Co. of Korea supplied its supercharged ECU tune for the Delta engine, adjusting fuel and ignition timing for better performance, and raising the rev limiter to 7000 rpm. A Carbontrix engine dress-up kit and radiator cover replace miscellaneous panels within the engine compartment,



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tying in the carbon theme.

The stock clutch seems to hold the supercharged torque coming down the driveline, however, it has no beneficial effect on wheel hop. Road/Race developed a set of urethane engine mounts to stop the destructive drivetrain thrashing. Since the six-speed Hyundai shares a transmission with Nissan's Sentra SE-R, Altima and Maxima, finding a sweet helical limited-slip differential isn't all that much of a chore. The improved power and traction work well to get the car from 0-to-60 mph a full second faster than stock, now at 6.8 seconds. Interestingly, e.t. gains are the same, from 15.8 down to 14.8 seconds, which is odd, since typically picking up time at the beginning of the track will get you more at the end. Trap speed climbs from 87 to 95.7.

Driving the Tiburon is a joy from the mostly stock cabin. The factory seats are comfortable and supportive, and Schroth harnesses keep the pilot in place during cornering and when the big Rotora brakes get their bite on. Eleveninch-diameter front rotors and single-piston sliding calipers were tossed in favor of the 330mm x 30mm (13 x 1.18-inch) cross-drilled and slotted rotors clamped by big cast-aluminum four-piston binders. Also included in the kit are DOT-approved stainless-steel braided lines and Rotora street-compound pads. The rear brakes were style coordinated with stocksized, slotted Rotora rotors. GReddy 52mm boost and EGT gauges share a Carbontrix Apillar mount beside the driver.

2003 HYU	NDAI TIBURON
ENGINE	
Engine Code	; Delta
Туре	: V6, aluminum block and head,
	dual overhead cam
External Modifications	: Alpine Aqua-cooled supercharge
	system, RRE short-ram intake,
	big bore throttle body, ported
	inlet casting
Engine Management Mods	: REAL Co. supercharged ECU tune
DRIVETRAIN	, , , , , , , , , , , , , , , , , , , ,
Layout	: Transverse front engine, front-
	wheel drive
Drivetrain Modifications	: LSD, RRE urethane engine moun
SUSPENSION	and around ong no moun
Front	: Progress springs, RRE strut
	tower brace
Rear	: Progress springs, Progress anti-
	roll bar, RRE strut tower brace
BRAKES	TOT DAY, THIS SUUL WINGS BIOCC
Front	: Rotora four-piston calipers,
TIVIL	330mmx30mm rators
Rear	: Rotora slotted rotors
EXTERIOR	, motora arottou rotora
Wheels	: 17x7.5-in. Ronal RT Twin
Tires	: 225/45ZR-17 Toyo T1-S
Body	: Carbontrix CF hood, hood scoop.
nony	OEM wing, engine dress-up kit
INTERIOR	and radiator support
	on boost and ECT Code at
A-pillar mount	nm boost and EGT gauges, Carbontr
PERFORMANCE	
Acceleration 0.00 mm/s	20
0-30 mph	: 2.8 sec.
0-60 mph	: 6.8 sec.
30-50 mph	: 2.4 sec.
50-70 mph	: 3.4 sec.
Quarter-Mile Time	; 14.8 sec. @ 95.7 mph
Handling	
Slalom Speed (700-ft. slalom)	: 69 mph
Skidpad (200-ft. diameter)	: 0.91g

As is the fate of most preproduction vehicles, Rob's Tibby is now reclassifiable as truly compact(ed). That's right, it went to the big crusher in the sky only days after our photoshoot and before we had a chance to put it on our chassis dyno. Thankfully, it fathered a good number of products for a budding Hyundai enthusiast community before it became a bunch of Coke cans.

"I drove the car for eight months," says Rob.
"It turned out to be a great daily driver with
balanced performance and comfort, as well as a
track-day sleeper." After a week behind the
wheel and a day at the track, we agree.

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