



TUNING

VW POWER

From The Editors of *VW Trends*

the TURBO Age

- OETTINGER GOLF 1.8T
- GOLF II VR6 TURBO
- NEW BEETLE 1.8T
- ABT PASSAT 1.8T
- CABRIO VR6



- The Ultimate VW Web Guide
- Coil Over Suspension Install
- Big Beetle Brake Upgrade

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PRIMEDIA

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Passat \$1000 budget

ND has fewer accessories listed in its Passat recommendations, but instead suggests more hard parts including a Cord or Hella rear wing, dash kit, Mintex brake pads, K&N filter, Neuspeed P-Chip and floor mats.

\$4000 budget

In addition to the \$1000 items, the company suggests a ND Sport Suspension, Neuspeed 25mm front anti-roll bar, Neuspeed 28mm rear anti-roll bar, MAK Energy 8x18-inch wheels and 225/40ZR-18 Toyo Proxes T1 tires.

\$6000 budget

The next level is the items in the \$4000 list with the addition of a ND/Borla exhaust system, Neuspeed P-Chip and Hella HD European headlights.

\$8000 budget

Like others, ND has a turbo upgrade kit. ND's recommendations for this top budget is to select the items from the \$4000 list and add the turbo upgrade and a few accessories.

The turbo upgrade, imported from Germany, is said to deliver 232hp and consists of a modified ECU, 60mm cat-back exhaust, special turbo, ported exhaust manifold, large air intake, and a fuel pressure regulator.

Company Philosophy

(excerpted from web page)

"New Dimensions Ltd. was established in 1985 to fill a need for quality parts and service for water-cooled Volkswagens. By focusing and specializing in only water-cooled VWs, New Dimensions was able to grow and expand into one of the largest companies in the country offering service, parts, and accessories specifically for the water-cooled VWs. Not only does New Dimensions offer a full range of services, from routine maintenance to performance installations, but you can count on tried and true performance parts that will dress up, speed up or tune up your VW!

Beyond the basics, New Dimensions develops and offers their own line of performance parts—simply called ND Products. ND Products are researched, developed, tested, road tested and rechecked by a staff with

experience, talent and the intelligence needed to create the extra power, extra life and extra performance we all crave in our VWs."

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Ron's Parts

Ron's Parts has long been a fixture in the Pacific Northwest tuning scene. Formerly owned by, you guessed...Ron Johnson, Ron's Parts has for the past few years been under new ownership by Dustin Woodhouse.

The company imports a number of products into the US and Canada from vendors such as Schnick, In-Pro, Spax and AVO.

Andy, the sales manager at RPI prepared fairly consistent responses to the survey and therefore, the cars are grouped together.

New Beetle, Golf, Jetta and Passat \$1000 budget

In accordance to the company's tuning philosophy, the first step is to upgrade the suspension. RPI imports a few different suspension lines including Spax and AVO, both of which offer coil-over suspensions.

\$4000 budget

After completing the suspension, RPI recommends upgrading the brakes and exhaust systems. For brakes, RPI has its own kit which uses a Brembo rotor and Wilwood 4-piston billet aluminum calipers. The kits include street performance compound pads.



Ron's Parts has its own brake kit using oversize rotors and Wilwood calipers.

\$6000 budget

The next step suggested is to add a set of wheels and tires. The company offers wheels from 14- to 18-inches in diameter and tires from Pirelli and Yokohama.

\$8000 budget

The final step is to add one or two camshafts depending on the need. RPI imports the full line of Schnick products including its top-quality camshafts. A new addition to the lineup is a set of 1.8-liter 20V cams for the Passat's engine.

Company Tuning Philosophy

"Ideally, suspension and braking is the first area of an automobile you'd like to focus on. Whether the car is overpowered or underpowered, having big brakes is beautiful. Suspension transforms the driveability of a car and gives a driver much more confidence heading into a corner."

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Velocity Sport Tuning

For the past seven years, Velocity Sport Tuning, based in the southern region of Los Angeles, has developed a loyal following of customers and club members in the LA area—not to mention the many mail-order customers around the country. As testament, each year the company opens its doors on a weekend for a car show and cook out. The event had become popular at Velocity's old facility, mostly through word of mouth, to the point of filling its parking lot and spilling out onto the street.

One of the things that set Velocity apart is its no-nonsense approach to tuning and willingness to offer the best of what's available. Having spent six years testing, installing and developing parts, the company has formulated the right balance of inside and outside products. The installation experience proves invaluable in assisting these customers who choose to purchase and install themselves.



The Mk IV cars are as heavy as they come, and Velocity has developed a brake conversion featuring Brembo and Audi components.

New Beetle, Golf and Jetta \$1000 budget

For the Mark IV chassis cars (Beetle, Golf and Jetta), Velocity's Jeff Moss has a few suggestions. First and foremost is the suspension, for which there are a few options. Velocity offers both Neuspeed and H&R springs, and Bilstein and Koni shocks. For engine performance, there is Neuspeed's P-Chip.

With the remaining change, you can get a European head light switch that turns off the daytime running lights, and a set of Velocity DOT-approved stainless-steel brake lines. Installation charges are not included.

\$4000 budget

With \$4000, the suspension can be further upgraded with an H&R coil-over suspension and Neuspeed anti-roll bar set. Optionally, you can elect to install an H&R front bar by itself. A Neuspeed front lower tie bar is another option.

For performance, there are a number of options. First Velocity offers a chip from Neuspeed, to be used in conjunction with a Neuspeed P-Flow and Neuspeed exhaust (or Technonics depending on your preference), a Neuspeed camshaft further enhances breathing.

Other items include Velocity 8mm spark plug wires, Velocity slotted rotors, Ferodo pads, Velocity DOT-approved stainless-steel brake lines and a Neuspeed short shift kit.

In addition to the performance items, there are a number of styling accessories from which to pick and choose, including light lenses, grilles and wings.

\$6000 budget

There are few appreciable changes in the bulk of parts between the \$4000 package and the \$6000 one—the biggest difference is the addition of Velocity's Brembo-based big brake kit and a lightened flywheel.

\$8000 budget

Moving up to an \$8000 will add a few items to the shopping cart, most notably a Neuspeed camshaft and a QTone Planetary-Gear limited slip differential (installation required).

Passat \$1000 budget

Traditional tuning methods are employed with Velocity's Passat program, which includes a Neuspeed P-Chip, Neuspeed or H&R springs, Bilstein shocks, Velocity stainless-steel brake lines, K&N filter and front corner lamps.

\$4000 budget

Four thousand dollars will yield essentially the same sort of items as the Mark IV-chassis offerings including a P-Chip, coil-over suspension, brake kit, exhaust and a few accessories.

\$6000 budget

With an investment of \$6k or so, one can turn up the wick on their project Passat with a host of performance parts and accessories. At the heart of the matter is a Neuspeed K04 turbo charger and ECU upgrade, Technonics or Neuspeed exhaust, and a K&N filter.

Suspension and running gear parts include an H&R coil-over kit, Neuspeed anti-roll bars, Velocity brakes all around, Ferodo pads, and brake lines.

Accessories include front corner lamps, Kamei grill and European headlight switch.

\$8000 budget

Building on the previous package, Velocity offers its Brembo big front brake kit with oversize rotors to replace its slotted front rotors and Ferodo pads. The other items are essentially the same.

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