



AVOturboworld

WRX/STi Upgrade Products.



AVOturboworld
57 Taunton Drive, Cheltenham, Melbourne, Vic, Australia 3192
Ph: +61 3 9584-4499 <http://www.avoturbo.com> Fax: +61 3 9584-4008

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Interior.

Boost Gauge and Gauge Pod.

If you want to keep an eye on the boost situation you can't go past AVO's own gauge Pod and boost gauge combination, looks OEM and takes any 52mm/2" gauge.

Available for all WRX/STi models and also 200SX.



Turbo Timer.

Shutting down a turbo-charged engine after running boost can under certain conditions can cause 'heat soak' to the point where damage can occur to the turbo-charger's bearings. The only sure way to avoid this is to install a turbo-timer.

Turbo timers come in a variety of shapes and sizes, some with added features, for ease of installation we have a simple 'plug-in' loom for all WRX models available as an option.



Apexi 'pencil' turbo timer with Air/Fuel Ratio reader pictured.

Boost Controller.

AVO deals in Electronic Boost Controllers, available as a hi-low switch for the budget conscious all the way through to top of the range Greddy, Blitz and Apexi units. AVO also has it's own range of Electronic Boost Controllers.

Blitz Dual SBC Spec R pictured.



Knocklink.

Severe detonation can destroy an engine in seconds, a Knocklink coupled with a donut sensor can provide you with a visual display of noise occurring within the engine, and potentially save you thousands of dollars in expensive engine repairs.



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Intake.

Power Air Filter.

AVO's new 'flow series' power filter has a top feed intake and specially woven filter material design to provide extra flow over other brands. With the AVO cast aluminium adaptor bolting directly to the air flow meter, it makes for an extremely easy installation, and of course it also improves performance and engine response.



Large Intake Pipe.

AVO turboworld's own design silicone intake pipe offers 30% greater flow than the standard plastic pipe. Increasing the air flow to the turbocharger aids throttle response and performance.

Up until MY01-On the AVO turboworld silicone intake pipes also require a rampod style air filter or similar.

AVO also stocks the STi factory silicon inlet pipe.



Hi-Flow Intake Pipe.

Improve your Impreza's engine bay while increasing performance with an alloy AVO intake pipe. By replacing the restrictive factory air resonator box the alloy intake pipe delivers improved throttle response and an increase in power.

The easy to fit AVO intake pipe must be fitted with our Power filter.



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Carbon Fibre Cold Air Box.

Manufactured exclusively of carbon fibre, AVO designed air boxes add a bit of WRC style to the engine bay of your WRX.

More importantly, they work brilliantly by protecting the incoming air from the underbonnet heat, resulting in greater more reliable power.

Accepts AVO Power Air Filter.

Easy to fit and looks great...



Carbon Fibre Dress Up Kits.

AVO has developed a range of high quality carbon fibre replacement parts that not only improve the aesthetics of the engine bay to show level, the reduced weight aids in straight line performance. Don't settle for anything other than real carbon fibre!



Intercooler Pipe Kit (Pre MY97).

AVO turboworld intercooler pipes are fabricated in cast aluminium while offering a significantly larger internal diameter than the factory part. Installing an AVO pipe reduces the pressure drop through the standard intercooler which results in improved performance. Whereas the standard pipe is known to split easily, the AVO replacement ensures this will never happen again.



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Turbo.

Upgrade Actuator.

Looking for a 'smart part'? Then look no further than AVO's bolt-on actuator range. An AVO actuator endows the factory turbo with a more solid boost response while ensuring boost is maintained at a pre-set level. The result is increased torque and hp. Whereas the factory actuator drops boost as the revs rise, the AVO actuator delivers constant boost all the way to max rpm. It is an extremely safe, reliable and effective means of raising your boost level, and an excellent 'bang for your bucks' modification.



Garrett 'Bolt-On' Turbocharger Range.

AVO's bolt-on ball bearing turbo range; the 'Edge Series', kicks major butt thanks to an enormous research and development program designed to ensure the absolute best bang for your buck. We even go so far as suggesting that the edge range of turbochargers will outperform any other turbo on the market. Which is why they are used by champions such as Possum Bourne who equipped his 2001 race to the sky winning STi with an AVO 500hp turbo. Supplied world wide for street and race applications, you won't find a turbocharger offering better performance, response and driveability.



Wastegate Porting.

Certain VF series turbos suffer from an 'too small' wastegate, under certain conditions this causes boost creep. AVO can port your wastegate to eliminate this problem and can even supply and fit oversized flapper valves where required.

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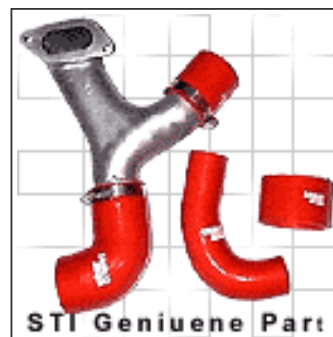
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Silicon Hosing.

Silicon Intercooler Hose Kit.

AVO turboworld is the Australian distributor of Samco silicone replacement hoses, which means you can order virtually any hose you need from us.

Manufactured from super high quality silicon, Samco hoses withstand high boost pressures and high temperatures and are a must in racing applications supplied in either red or blue, Samco silicon hoses work brilliantly and look sensational.



Silicon Coolant Hose Kits.

AVO turboworld's awesome Samco silicone hose range includes replacement coolant lines. These highly resilient hoses are available for all Subaru models, are manufactured to withstand high water pressures and high temperatures. Supplied in red or blue, in 1/2" to 4" diameter, in various lengths, and with 45, 90, and 180 deg bends and adaptors, Samco has a hose for you.

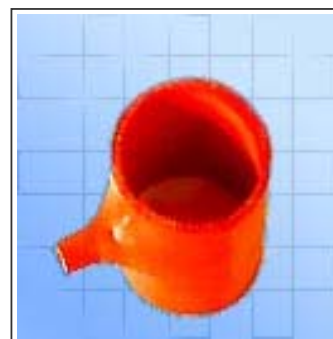


Available exclusively through AVO turboworld

Throttle Body Silicon Hose.

Mounted between the throttle body and intercooler, AVO's silicone replacement hose looks great, is efficient and accepts an intake temperature probe.

AVO turboworld easy to use silicone hose parts.



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Intercoolers and Accessories.

Upgrade Top Mount Intercooler.

For the past 15 years, AVO turboworld has been a world market leader in intercooler technology, technology proven on the street, and on the track

AVO turboworld bar and plate intercoolers are highly efficient and offer a greater surface area than similarly sized tube and fin designs. We have invested many hours in r&d to ensure easy fitment, and the high efficiency required in all Subaru performance applications. Bolting an AVO intercooler onto an otherwise stock engine also reaps exceptional results.



An AVO turboworld water spray kit is also available to suit all of our intercooler kits.

Front Mount Intercooler.

By employing an advanced bar and plate design with all of our intercoolers, AVO turboworld remains at the forefront of design.

All of our front mount intercoolers are equipped with cast aluminium end tanks, ceramic coated (red, blue or silver) steel tube engine pipes, with kevlar reinforced rubber 'under guard' pipes for easy installation and no vibrations.



Blow off Valves.

At AVO turboworld we don't manufacture sequential blow-off valves simply for the sound, as we regard performance as being more important. We utilise the latest technology in light weight internal valving to ensure optimum blow-off response at all times.

AVO bov's are designed to replace the factory part by retaining the return tube to keep the computer happy, along with an additional vent to send hot air to atmosphere.



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Waterspray Systems.

Simple to fit with great results, that's our water spray kit.

AVO's water spray kit utilises the factory washer bottle spray switch, the control unit is located close to the driver and is complete with a 2 to 30 second spray adjustment.

AVO has proven the kits to be very effective with a genuine ATW power gain.

Testing shows an increase in performance at wide open throttle (when it's needed most), whereby the cooling effect provided by the spray over the intercooler, significantly reduces the intake charge.

AVO turboworld recommends a water spray kit for all performance applications such as hill climbs, drags, rallies or circuit racing, or in hot conditions..

Easy fitment is assured using AVO's easy to follow step by step instructions.



Auto Waterspray.

Available as an option is an option to automate the water spray kit so that it activates once a pre-set boost level is reached.

This Auto option is available as a very easy to fit kit for the MY02 STi taking advantage of the factory supplied waterspray system.

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Engine and Fuel System.

Forged Pistons.

Having built WRX engines developing in excess of 450 horsepower, we know what it takes to build a reliable engine. When you're looking at big horsepower, you must consider forged pistons. We offer pistons to suit a range of applications, in either stock uncoated or ceramic/teflon coated trim, and in any compression ratio required.



Strengthened Conrods.

Heat treated chrome moly I-beam connecting rods designed for the late night street guy or full-on race track racer. Big boost, big turbos, and big revs can have a devastating effect on the stock Subaru con rods. So, if you're in the process of building a 400 plus horsepower engine, think AVO I-beam connecting rods.



Metal Head Gaskets.

Custom made full stainless steel AVO head gaskets are a shim style gasket with a pressed sealing ring around the bore for absolute strength.

If you want to run big boost, then steel head gaskets are a must.



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Billet Camshafts.

Extensive engine, chassis and race track testing has provided us with the knowledge to design the best camshafts to suit from mild to wild race applications. Consult AVO staff for the most suitable cam for your application.



Adjustable Cam DOWLS.

A smart design that makes the setting of cam timing a little easier.

It provides some adjustability to set your cam timing for optimum performance. The cam wheels come in 2 to 8 degree adjustments.

Engine Rebuilds.

Rebuild to standard spec or rebuild to handle big boost and big power, either Way AVO Turboworld engine rebuilds are up there with the best.

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Oil Separator and Air Breather System.

Many of you who have fitted a larger turbo or simply increased the boost setting will have experienced an increase in blow-by, a phenomenon whereby misted oil is pumped out of and back through the engine's induction system. Solving the problem is as simple as equipping your vehicle with a good looking polished aluminium oil breather/separator tank. AVO's oil breather system prevents oil from re-entering the intake system which greatly reduces the possibility of detonation.



Upgrade Fuel Pumps.

AVO's high-flow fuel pump delivers 210lt @ 45psi per hour. The fuel pump is a direct bolt-in and is extremely quiet in operation.

AVO turboworld recommends the use of their high-flow fuel pump in all high boost applications.



Upgrade Injectors.

AVO turboworld's policy of supplying only the best quality products continues with our injector range. These injectors offer exceptional flow while retaining the same impedance as a factory injector, and with a stable smooth idle. Choosing the correct injector for an application ensures the engine always has enough fuel to meet the demands of high boost.

Consult AVO turboworld's friendly staff for the best size injector for your application.



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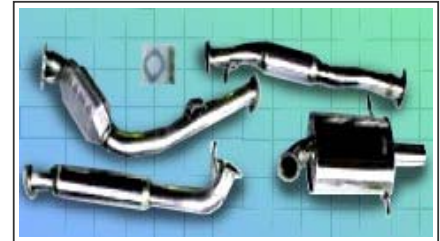
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Exhaust.

Stainless Steel Turbo Back Exhaust.

AVO turboworld's new 'stealth' series provide longevity, quality looks and exceptional performance via the use of full stainless steel construction including the flanges. Our straight-through 76mm systems have passed Australian EPA noise requirements, are a direct bolt-on and have proven to increase power at the wheels by as much as 20%. Delivering an awesome note and appearance makes AVO's stealth exhaust systems the natural choice.



Also available full stainless cat-back exhaust systems.

Downpipes.

Looking for extra power and improved throttle response, but without going for a full exhaust? AVO's front pipe with its 76mm high flow cat converter (greater volume and flow than the standard cat converter) and 76mm stainless steel pipe and flanges, simply replaces the highly restrictive factory system, hence reducing back pressure and restoring power and turbocharger response.



Also available with our newly developed cast outlet (with splitter) and our 'super hi-flow' full stainless cat converter is available as an option.

Catless race versions also available.

To maximize performance gains it is recommended that the downpipe pictured be utilised with a splitter in the turbo-charger's exhaust housing.

Cast Outlet.

We have developed our very own cast outlet for the WRX/STi, by the time you're reading this they will be available and together with our Garrett turbochargers and racing cat converters we can now offer the world's most potent turbo/downpipe combination.

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Stainless Steel Racing Cat Converter.

Exclusive to AVO in Australia:
 Super hi-flow catalytic converters:
 Full stainless steel construction:
 Available in 3" & 4" id/od:
 These cats flow 560 cfm at 28 inches of water.
 Unsurpassed performance in terms of flow and emissions.



Extractors.

Many hours of dyno time on our in-house engine dyno has resulted in an extractor design we believe is the best in the business. Far from a hit and miss attempt, our extractors deliver increased power and torque via full stainless mandrel bent purged tig welded construction. Simply bolt the manifold in place, and then you will feel the increased performance and engine response immediately.

4-2-1 Extractors pictured, also available as a 4-1 design.



Stainless Steel Mufflers.

As each and every vehicle is different, to best harness the available power a suitable muffler design is required. AVO turboworld design mufflers to suit a myriad of applications, and all are manufactured to provide unrestricted flow while absorbing high frequency exhaust notes.



Resonating Exhaust Tips.

AVO turboworld tips don't merely look good, they are an excellent way of reducing emission noise without damping the performance of a high-flow exhaust system. AVO use these tips on most of their turbo vehicles.



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Brakes.

Big Brake Kit.

High speed and soggy stoppers don't work well together, and which is why we recommend replacing the stock rotors with an oversize AVO brake rotor kit incorporating adaptors that allow you to retain the factory 4-pot callipers.

Note: 17" wheels are required to fit this big brake kit.



Brake Discs.

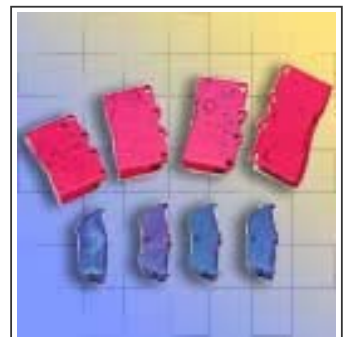
Discs are available in any combination and any size you desire. Slotted, Cross-drilled or both.



Brake Pads.

Specially designed for the heavy footed, avow high performance brake pads are suitable for street and cub racing, offering excellent feel at the first and last application in a race.

Please consult AVO staff as to what type of grade will best suit your needs.



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Brake Upgrade Options.

Want to slip 6 pot aluminium callipers under those 16" wheels, AVO have just the brake kit for you.

Not only does this line up include the world's only 6 pot kit for 16" wheels, but these kits contain the most technically advanced brakes available for a Subaru.

Specifications:

- Billet alloy 6 pot calliper with road dust seals.
- Unique AKO system which eliminates pad knock off (a problem on all other big brake kits used on track).
- Calipers finished in gloss black with KAD monogramme.
- Differential piston sizing to match master cylinder output and to match heat gradient along the pad.
- All kits use AP Racing 48 vane turbo vented discs on hard anodised HE15 bells.
- Kits come with Pagid RS 421 pads as standard, good for 750degC and 0.39 at first application.
- Full set of Goodridge lines and Silkolene Pro Race fluid included.
- CNC brackets in hard anodised HE15 alloy.
- Full 12 month warranty including track day use.
- 16" Wheels 304mm rotors
- 17" Wheels 330mm rotors
- 18" Wheels 378mm rotors

Call us for further information.

If four pot callipers are more your style we also have the following upgrade packages available. (We also can supply a front only kit, which suits the standard rear brake balance)

- Aluminium front disc adaptors.
- 4 piston HARROP front road car callipers & Front caliper brackets.
- 4 piston HARROP rear road car callipers.
- Cast iron rear disc adaptors with integral park brake drum.
- Pads and mounting hardware.
- 17" Wheels. Front & Rear; 343mm diameter rotors with modified rear backing plates.
- 18" Wheels. Front & Rear ; 356mm diameter rotors with modified rear backing plates.
- Available soon for 18" or larger wheels!
- Also 6 pot calipers available soon.

NOTE: For pre MY99 cars upgrade to STi 4-pot calipers is also available.

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Drivetrain.

Steel Backed Clutch Kit.

In addition to our tough race style button clutches, we cater to the street enthusiast with clutches offering increased clamp load without affecting the pedal feel. In fact, the pedal feel is softer than standard. They can be used for day-to-day use or mild performance work.



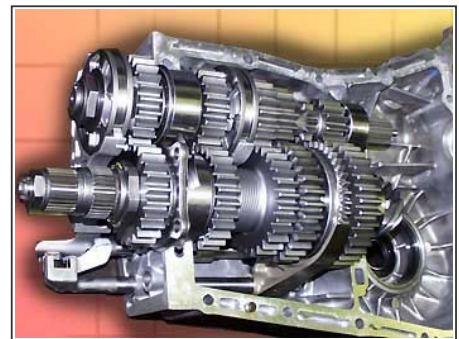
5 Button Clutch Kit.

All high performance all-wheel-drive vehicles suffer clutch issues, however this is ultimately preferable to breaking a transmission. Additional engine power only exacerbates the problem, so we have developed a clutch to suit applications from mild to wild without compromising pedal feel and weight through maintaining the stock pivot point.



Straight Cut Dogbox.

In factory trim, the WRX transmission is acceptable - as long as you don't give it a hard time. However, improve the engine's output and start pushing it, and chances are you will be spending \$thousands on transmission repairs. One answer is a dog box, a very serious alternative for the very serious WRX owner! By the way, we've probably broken more transmissions than anyone, which is why we highly recommend the Modena Dogbox (not pictured), which is an almost bullet-proof transmission. Two ratios are available; Group N and Group A.



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Limited Slip Differentials.

Improved traction is only one of the reasons for buying an AVO LSD. The improvement in handling is quite amazing, resulting in improved lap times, and a much safer car. For road, race or rally, consult AVO's staff for the right choice.



Lightweight Flywheels.

High rpm, high output engines don't only deserve, they demand a steel flywheel!

Our one-piece lightweight chrome moly steel is a must for the serious racer.



Short Shift Kits.

Subaru's have long suffered transmission problems, so please don't make it worse by fitting a poorly designed short shifter. Our design incorporates a 30mm shorter throw and is 10mm shorter in height. The result is a smoother throw and of course faster shifting.



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ECU.

Programmable ECU Enhancements.

AVO's philosophy on ECU enhancements is as simple as 'One Touch'

'ONE TOUCH' is a philosophy. It is our promise to you to recommend the most suitable ECU enhancement for your particular application. We will help you select the most suitable enhancement for your car, your needs, and your budget.

'ONE TOUCH' also provides an upgrade path with 'money back' on your original ECU enhancement when you decide to take your ECU modification to the next level.

We have a full suite of products from the market leaders both here and internationally, whatever you need, we can supply and tune it.

With 'AVO ONE TOUCH' you will never be locked into a proprietary programming system, you will always have access and options with your car's tuning. After all, it is your car.

'AVO ONE TOUCH'

Auxiliary fuel controllers.
Piggy back programmable chips.
Full replacement 'Plug In' ECUs.
Full replacement 'Wire In' ECUs



Electronic Speed/Fuel Cut.

AVO has been at the forefront of automotive electronic development for the past two decades; longer than any other Australian company, and in fact longer than many Japanese manufacturers. We offer a large range of electronic products designed to make the modifier's task that little bit easier, including our speed and fuel cut controllers. Extremely easy to install, all AVO electronics come with easy to follow instructions.



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Suspension.

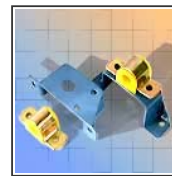
Adjustable Swaybars.

An important part of any suspension package is quality heavy-duty adjustable stabilizer bars. Reduced body roll without affecting spring and shocker rates is standard fare, added to which the adjustable bars allow you to accurately dial in over or understeer.



Rear Stabilizer Mount Kit.

Remove the unsettled feel of your WRX with a set of rear stabilizer bar bushes. A much more positive feel is accompanied by better more direct turn in, and that means better handling.



Subframe Lock Kit.

Remove rear end wander with an sub frame lock kit. It incorporates pins that centre the diff and stiffen up the rear of the car.



Camber Bolt Kit.

Camber bolts are an incredibly easy and flexible improvement. As once fitted you will ask yourself why you hadn't done it sooner. The result: improved turn in and mid corner speed.



Anti-Lift Kit.

Improve the predictability, handling, launch and braking of your WRX with an anti lift kit. By adding .05 degree of caster to the front arms, the altered geometry reduces the amount of lift under hard acceleration, resulting in improved traction, braking and overall stability.



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Body Brace .

The body brace helps make springs and shocks work to their full potential.

Added chassis integrity and strength is provided, resulting in improved better overall undercarriage rigidity, hence sharper handling and road holding.



Steering Rack Mounts.

A more direct and positive feel is achieved with the simple fitment of steering rack bushes. Manufactured in neoprene, the harder material also reduces the wear potential.



Stabilizer Link Kits.

The stabilizer bar link kit is a direct replacement of the original, resulting in a more positive feel and improved handling. Available for front and rear.

A stabilizer link kit provides significantly greater rear body torsional strength



Tokico Shock Absorbers.

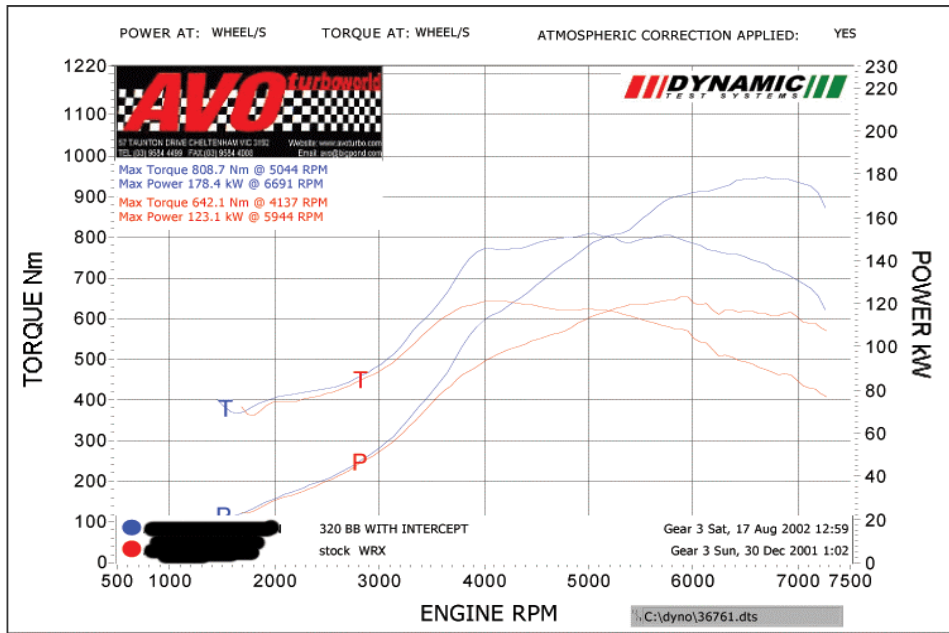
If you're serious about your car's handling, the logical way to go is with a set of replacement Tokico 16-point adjustable shockers.



Dyno Charts.

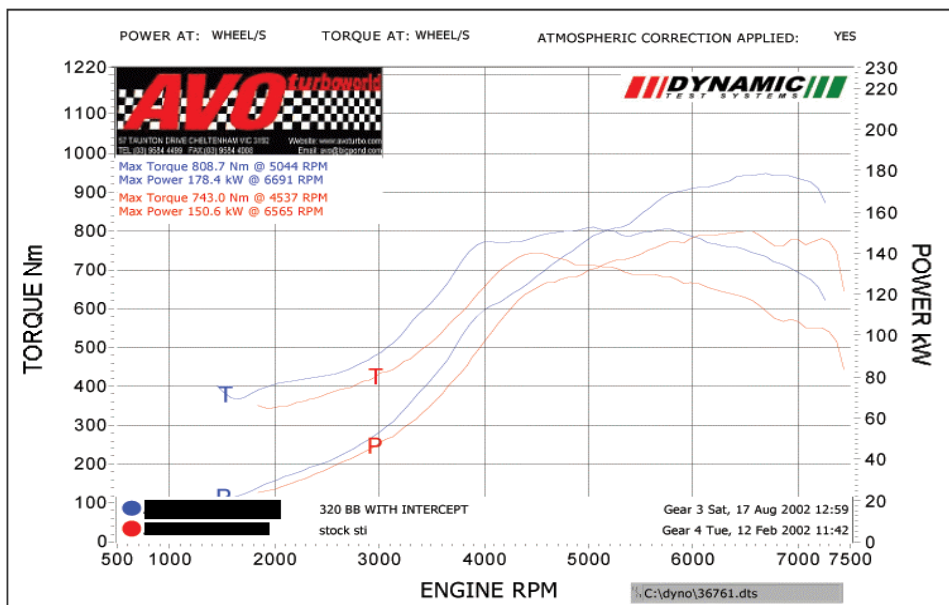
AVO 320hp V Stock WRX.

In this example we are comparing a MY97 WRX fitted with a 3" exhaust, AVO Upgrade Top Mount Intercooler, AVO 320hp 'Bolt-On' Garrett turbo-charger and a fuel only programmable Intercept against a completely stock WRX.



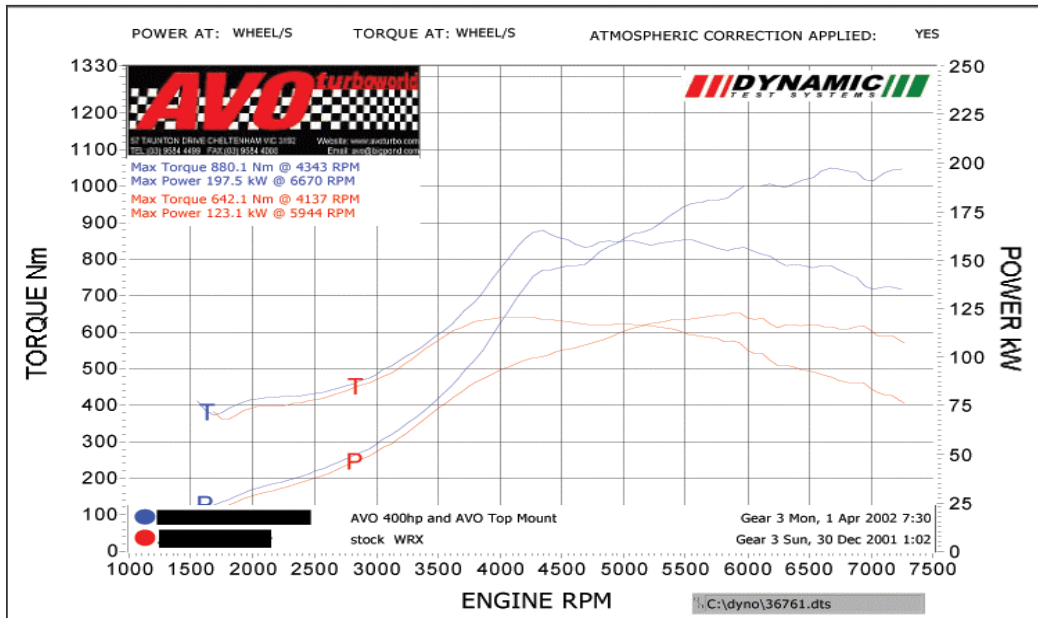
AVO 320hp V MY02 STi.

Here's the same car compared to a stock MY02 STi.



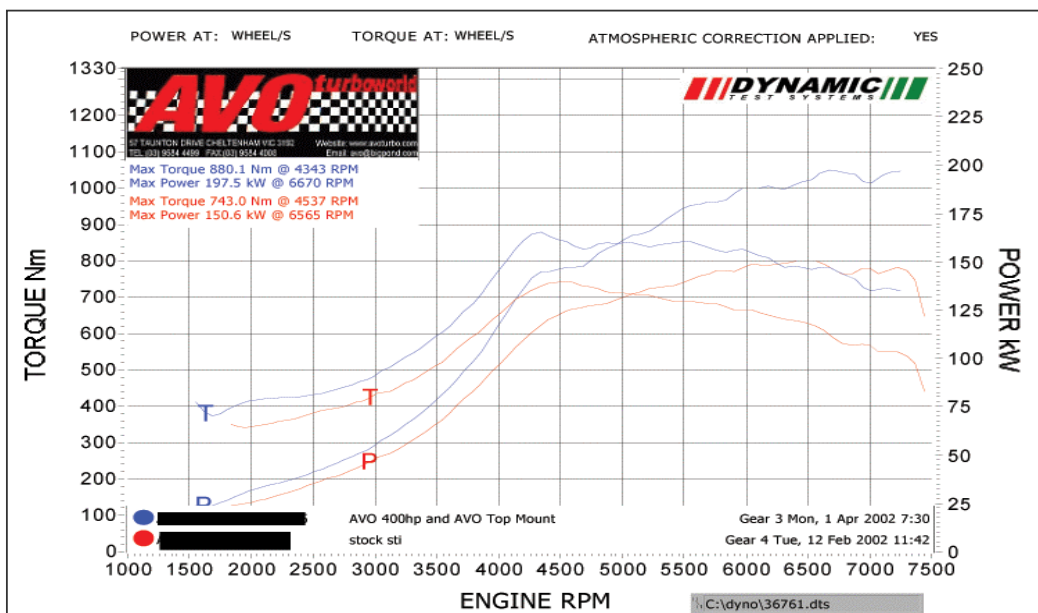
AVO 400hp V Stock WRX.

In this example we are comparing a MY99 WRX fitted with a 3" exhaust, AVO Upgrade Top Mount Intercooler, AVO 400hp 'Bolt-On' Garrett turbo-charger and a Autronic 'plug-in' replacement ECU against a completely stock WRX. The interesting thing to note here is that this car **still** has the original factory injectors. The Autronic has provided the best result we've seen when retaining the factory injectors.



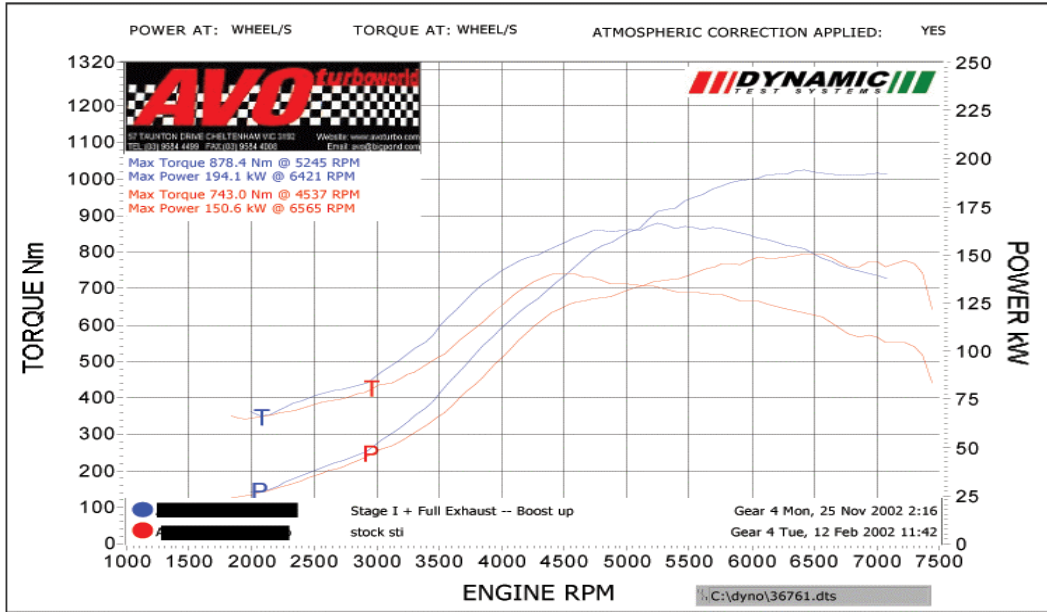
AVO 400hp V MY02 STi.

Here's the same car compared to a stock MY02 STi.



MY02 STi Stage I & Exhaust V Stock MY02 STi.

In this example we are comparing the MY02 STi with our Stage I kit plus a full exhaust system versus the same car without any modifications. Note: The factory airbox set-up is retained with these modifications.



MY02 with AVO SRBCS V Stock MY02.

In this example we are comparing a stock MY02 WRX versus the same car fitted with our SRBCS. As you can see the improvements in torque and power make this just about the best 'bang for your bucks' modification money can buy.

Insert dyno chart here...

Upgrade Kits.

WRX/STi Stage I.

For a 20% increase in power and an incredible improvement in drivability our Stage I kit delivers the goods.

3" Stainless Steel Cat Back Exhaust System
 Solid Response Boost Control System
 AVO Sequential Blow Off Valve
 AVO One Touch ECU Enhancements
 AVO Boost Gauge
 AVC Boost Gauge Pod

Optional Extras:

Full 3" Stainless Steel Turbo Back Exhaust System
 WaterSpray Kit (WRX)
 Auto WaterSpray Kit (STi MY02-On)

WRX/STi Stage II

For a 30% Power Increase and based around retaining the factory air box setup.
 Significant further improvement can be gained by fitment of our Power Filter Kit however this requires removal of the factory airbox.

Stage I Kit plus

Turbo Back Exhaust System
 WaterSpray Kit (WRX)
 Auto WaterSpray Kit (STi MY02-On)
 AVO Oil Separator & Air Breather System
 Silicon Intercooler Hose Kit
 Upgrade AVO Intercooler (Top or Front Mount depending on model year)
 AVO One Touch ECU Enhancements
 Upgrade Pre-Cat (WRX only)

Stage III and beyond.

Please call to discuss a tailored solution to meet your requirements.