

APS TSR 70 Twin Scroll Rotated Mount Turbo Kit



Model : APS WRX-RMT/03

Manufacturer : APS

APS has designed and produced what is arguably the ultimate in bullet proof extreme flow Twin Scroll turbochargers for the Subaru Impreza enthusiast. Unencumbered by the limitations of current off the shelf WRX turbochargers, APS has totally engineered a "no-compromise" turbocharger from the ground up to match the exact requirements of extreme performance Subaru Impreza engines.

APS has utilized extreme flow Ball Bearing Turbochargers, rotated to avoid the restrictive standard intake duct, in its race cars for many years. The twin scroll design of the APS TSR turbocharger permits separate exhaust gas pulses from each cylinder firing order pair to effectively drive the turbocharger's turbine with the maximum exhaust gas energy possible. This results in quicker turbocharger response and higher horsepower than an equivalent non-twin scroll design. The APS TSR turbocharger incorporates innovative anti surge ports that effectively broaden the turbocharger compressor's operating range particularly near the surge line of the compressor map. At the surge point, compressed air is permitted to pass through the compressor wheel and into the anti-surge slot and ports, thus drastically reducing compressor surge. Unlike turbochargers designed to suit the stock position and orientation, APS TSR Series turbochargers are supplied as a comprehensive and complete bolt-on system.

To coincide with the release of the APS TSR70 turbocharger system, APS has designed the ultimate Twin Scroll up-pipe that delivers a double blast of separate exhaust gas pulses to the turbocharger. The true twin scroll design completely eliminates the mixing of exhaust gasses from each of the cylinder firing order pairs. This delivers a huge amount of energy (hence horsepower). In addition, the APS up-pipe included with the APS TSR 70 turbocharger system incorporates a remote wastegate connection. TiAL 44mm Wastegate Included.

A completely new APS High Flow Cold Air Intake system delivers a huge straight-shot of chilled fresh air directly into the wide compressor mouth of the APS TSR turbocharger. The APS cold air intake system accommodates stock style MAF metering through the MAF venturi supplied with the APS system. Best of all, for those Subaru horsepower enthusiasts who overwhelm the stock MAF meter at extreme horsepower levels, the MAF venturi is removable and markedly increases the cross sectional area at the MAF metering point. This now gives huge headroom for even greater air flow, larger fuel injectors, more effective air flow metering at high horsepower levels - and of course far greater tunability from the MAF meter. Ultimately, a complete extreme horsepower turbocharger solution that leaves nothing to chance. Highly engineered and manufactured with great precision, this range of components from APS represents many years of research and development and is arguably the

Subaru > 04-05 STi > Turbos > APS TSR 70 Twin Scroll Rotated Mount Turbo Kit

APS TSR 70 Twin Scroll Rotated Mount Turbo Kit

ultimate in high horsepower turbocharging for the Subaru WRX/STI.

The TSR70 Turbocharger System is a perfect partner for the APS Twin Scroll Header and precisely matches any of the APS High Output exhaust systems. The TSR 70 Turbocharger system connects directly to either the APS DR 725 or DR 525 front mount intercooler systems for complete ease of installation and maximum efficiency.

Why Twin Ball Bearing?

Demands for improving acceleration response and for the reduction of so-called turbo lag are popular amongst performance enthusiasts who wish to take advantage of the enormous gains in power and torque delivered by turbochargers. In addition, bullet-proof reliability is required particularly at high turbocharger boost pressure levels as well as at extreme exhaust gas temperatures commonly found in high performance turbocharged engines. In order to achieve crisp turbocharger response, a number of advances in turbocharger design have been utilized over the past decade. Primarily through the use of modern metals/ceramics in order to reduce the mass of the rotating assembly. However, significant gains have been made by reducing the friction of the rotating assembly - and this has meant a departure from traditional turbocharger designs. Traditional turbocharger design employs a conventional plain bearing that runs on a film of oil. This is known as a floating metal bush.

APS turbocharger rotating group above is a true twin ball bearing unit that not only delivers huge power and torque, but is also extremely robust and incredibly compact in size.

Price : \$3,495.00

Availability: This product was added to our catalog on Monday 31 July, 2006