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Digital Adrenaline For Your...
Jaguar S-Type R 4.2 V8





Powerchip technology enhances your Jaguar to its ultimate level, delivering faster, smoother acceleration in all driving conditions. Whether you enjoy a leisurely weekend cruise or a hard racetrack drive – there is no easier and more effective way to release the potential from your S-Type R 4.2 V8.

The following information is an overview of the performance the Powerchip will deliver. If you have any questions, we will assist you as best as possible. We look forward to giving you the best performance possible from your Jaguar.

Make	Jaguar
Model	S-Type R 4.2 V8
Engine	
Year	From Jul 02
Powerchip Code	JAG0022



Power

In standard form the Jaguar S-Type R 4.2 V8 produces 298 kw at the flywheel, and Powerchip improves the engine power to 318 kw.

Power (kw)			
Standard	Bronze/ Silver	Gold	Gold 98
298	N/A	N/A	318

Power Increases (kw)			
Bronze	Silver	Gold	Gold 98
N/A	N/A	N/A	20

The extra performance achieved by the Powerchip allows your vehicle to respond much better than stock S-Type R 4.2 V8s. You will notice an effortless push back into the driver's seat, to give you a much more enjoyable and at times safer driving experience. The Powerchip will tap into your Jaguar's 'hidden reserves', to give you an immediately noticeable improvement from your vehicle – we guarantee it!



Torque

Torque is a measurement of your engine's pulling power, and it is torque that pulls you up hills, allowing your engine a more linear and aggressive acceleration curve. With the Powerchip, you notice the increase in torque right throughout the rev range, which gives you far greater flexibility at low engine revolutions. Towing will become less demanding, and you will no longer feel the need to take the engine to the redline in each gear to get the performance you demand... It's always there for you, when you really need it most!

Torque (Nm)			
Standard	Bronze/ Silver	Gold	Gold 98
553	N/A	N/A	591

Torque Increases (Nm)			
Bronze	Silver	Gold	Gold 98
N/A	N/A	N/A	38



Acceleration

Increased Power and Torque results in faster acceleration. And it is not just standing start acceleration that is improved, your in-gear acceleration is as well.

If overtaking is important to you, you will feel safe knowing that you spend less time on the "wrong side of the road", improving the safety of your car, for you and your family or passengers.

Perhaps you feel that you need that extra bit of power when you are lined up at the "traffic light grand prix" against another car with similar (or more) power? If you want to have the unfair advantage that will give you more 'GO' away from the lights, you need a Powerchip performance software upgrade for your S-Type R 4.2 V8.



Fitting Details

Your car contains the latest technology ECU that can be re-programmed through the on-board diagnostic port (OBD-II). Specialised software interfaces with your vehicle's engine management system to extract the electronic code via serial download. Once the information has been read, Powerchip technicians apply the performance changes and upload the performance program back through the OBD-II port. Installation cannot be performed by the end user. Programming must occur at an Authorized Powerchip Office in Melbourne, Sydney or Adelaide. The programming takes approximately 2 hour's to complete.

On Road Development



Where Powerchip really shines out over its competitors is the emphasis and time spent refining the program for drivability and enjoyment. Much more a 'real world' gain than full throttle horse power runs on a dyno, part throttle refinement is a gain everyone uses every time they drive the vehicle. Flat spots and poor off the line performance are smoothed out in this process, and transient throttle conditions are made razor sharp for the ultimate in response. Real time changes to tables like throttle response and power enrichment are done on road to fine tune the driving experience of the vehicle, with acceleration timing equipment used to ensure consistent and measurable gains in part throttle drivability.



Drivability

Powerchip technicians do not spend their whole research and development focus tuning the full throttle performance of each vehicle. A significant emphasis is placed on the part throttle performance. We understand that driving in everyday conditions is more than just flat out acceleration, with your foot flat to the floor.

With Powerchip performance software, your car will perform to its potential, even when you are not demanding the peak performance. You no longer need to mash the throttle to take off briskly, and in-gear overtaking can be performed without needing to change down gears.

One of the main benefits of choosing to enhance your vehicle with the Powerchip is the improvement you will feel in all driving situations, no matter what your driving style is...



Manufacturers Tolerances

Jaguar unfortunately leaves large tolerances in the performance characteristics of its entire fleet to allow for drivers that are negligent on maintenance, and who are non-enthusiasts. The S-Type R 4.2 V8 is 'de-tuned' to be able to run on the poorest grade of fuel that the car is likely to encounter anywhere in the world, and also to allow for the small percentage of owners who put their cars reliability to the test due to their lack of mechanical understanding. In most cases, our clients are enthusiasts who place more emphasis on the performance characteristics of their vehicle, and therefore the Powerchip does not need to be programmed as conservatively as the stock software.



Modified Spark Advance

In the old days the ignition distributor controlled the engine spark timing. Changes to the position in the distributor will result in changed ignition settings, and is a good method of 'tune-up' for older vehicles. Modern engine ignition is controlled by a series of tables or maps. These maps give the engine any instructions required to operate, under ALL load and rev per minute access points.

Similar to the old systems, advancing the point of ignition within a cylinder results in increased power and torque. It is important not to advance the timing beyond the capabilities of the fuel used, or else detonation can occur. Peak kilowatts are achieved when ignition timing is set as close to the point of detonation as possible, without exceeding it. This is the primary purpose for asking the octane rating each client uses most frequently, so that the software is set to the correct level of ignition advance for the fuel used.

The end result of ignition advance changes is increased power and torque, resulting in better acceleration and various other driving benefits.



Octane ratings

The Powerchip is designed to get the best from your engine, and to do this it is recommended that you use a high performance fuel. When ordering your Powerchip upgrade, we will ask you for the octane rating you would like your program to run. The advantage of using better fuels can be explained in further detail by your consultant.

Powerchip Gold is designed to run on fuel with an octane rating of 95 (Premium Unleaded, Caltex Vortex, Ampol Gold). Powerchip Gold 98 is designed to run on fuel with an octane rating of 98 or higher (Shell Optimax, BP Ultimate, Mobil Synergy 8000). We highly recommend that you use the highest-octane fuel available to you.

Our Satisfaction Guarantee

Every Powerchip sold in Australia comes with an 14-day money back guarantee. This ensures that the Powerchip will live up to your expectations, not ours! If for any reason you are unsatisfied with the Powerchip, you may return the Powerchip to your place of purchase for a full refund of the purchase price (not including shipping and handling, installation and removal etc.).

Our satisfaction guarantee offers you total peace of mind, and makes the purchase of the Powerchip risk free. By purchasing a Powerchip you have nothing to lose – and everything to gain!



Servicing

In a regular service it is very unlikely that the dealer would perform any tasks that are additional to those required by the manufacturer. The dealer tool may be able to detect that modified software has been fitted to the vehicle. The vehicle can still continue to be flashed by the dealer with any software updates that become available. The Powerchip does not 'lock out' the dealer from reflashing the car. The Powerchip software does not make it any different to service than a vehicle with out a Powerchip. All 'Fault Codes' continue to able to be read, just like a standard car

Warranty

All Powerchip upgrades come with a three-year, unlimited kilometer warranty, for the original purchaser, which means that if anything occurs to the Powerchip in that time, we will replace it without charge to you.

The terms and conditions of the Powerchip warranties can be viewed in detail on our web site at

<http://www.powerchipgroup.com/products/warranty.asp>



Value for a Lifetime

The investment you make in the Powerchip will last for as long as you keep your car, and for most of our customers, that is normally for 3 or 4 years. So when you consider the benefits of the chip over a number of years, it is not a lot to pay for extra performance you will probably use nearly every day. As a percentage of the total cost of your car, the Powerchip works out to be very cost effective. Also, with the Powerchip, you can expect your car to command a higher price when it comes time to sell!

Cost Effectiveness

As we all know, modifying late model vehicles is not a cheap exercise, however, when you look at it on a kw per dollar basis, the Powerchip comes in ahead of any other modification you could make to your Jaguar. Have a look at just how well the Powerchip stacks up:

Price	\$1690
kw Gain	20 kw
Price/kw	\$84.5

The Powerchip is designed to offer excellent value for money compared with other modifications you might be planning in the future.

Cost AUD(\$)				
	Bronze	Silver	Gold	Gold98
Price (Inc GST, freight additional)	N/A	N/A	N/A	\$1690



Contact Details

If you have any further questions or would like additional information, please contact us on 08 8299 9998 (phone), 08 8299 9665 (fax), by email at info@kpmmotorsport.com.au or by postal mail at 257 Goodwood Rd, Kings Park, South Australia, 5034. Alternatively, visit our website at www.kpmmotorsport.com.au.

KPM Motorsport is an authorized Powerchip development partner and official reseller.

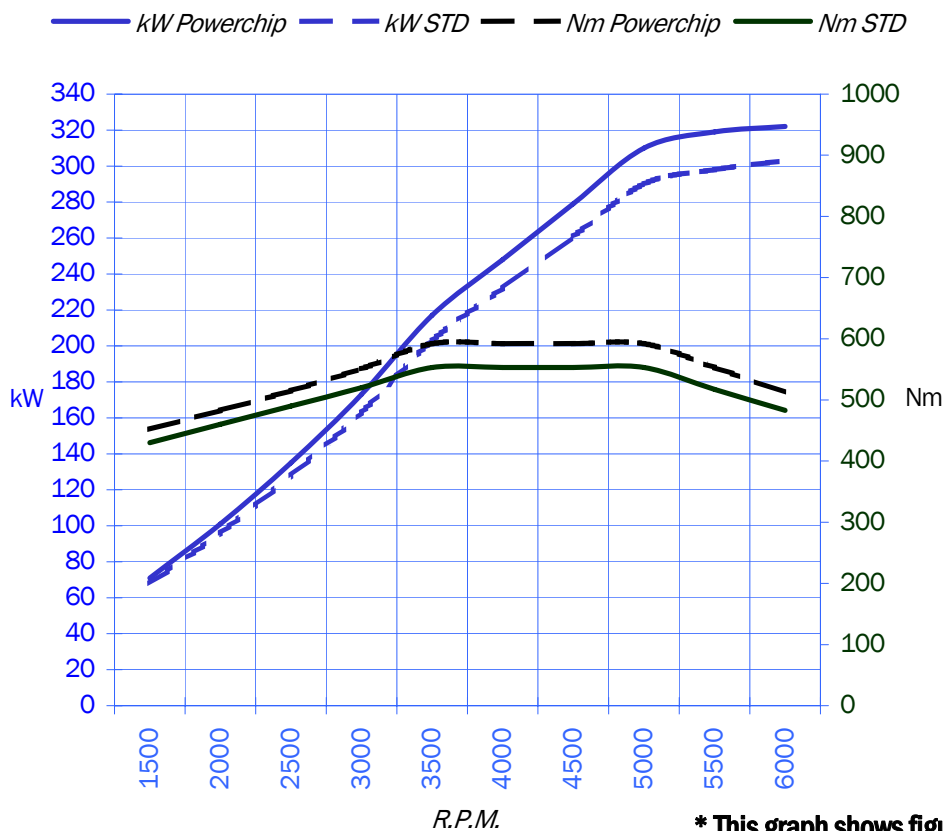
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Gold 98 Performance Data for your...

Jaguar S-Type R 4.2 V8 *

R.P.M.	kW STD	kW Powerchip	kW Gain	Nm STD	Nm Powerchip	Nm Gain
1500	68	71	3	430	452	22
2000	96	101	5	460	483	23
2500	128	135	7	490	515	25
3000	163	173	10	520	551	31
3500	203	217	14	553	592	39
4000	232	248	16	553	592	39
4500	261	279	18	553	592	39
5000	290	310	20	553	592	39
5500	298	319	21	517	553	36
6000	303	322	19	483	512	29



* This graph shows figures
Powerchip Gold 98

MODEL	ENGINE	VERSION	CAPACITY	Max kW	Max Nm	0-100 Auto	0-100 Man
S-Type R 4.2 V8		Standard	4198cc	298	553	N/A	N/A
S-Type R 4.2 V8		Gold 98	4198cc	318	591	N/A	N/A

