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Digital Adrenaline For Your...
Mazda Eunos 30X 1.8 V6



Powerchip technology enhances your Mazda 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 Eunos 30X 1.8 V6.

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

Make	Mazda
Model	Eunos 30X 1.8 V6
Engine	K8
Year	Nov 92 to Dec 97
Powerchip Code	MAZ0048



Power

In standard form the Mazda Eunos 30X 1.8 V6 produces 99 kw at the flywheel, and Powerchip improves the engine power to 114 kw.

Power (kw)			
Standard	Bronze/ Silver	Gold	Gold 98
99	109	111	114

Power Increases (kw)			
Bronze	Silver	Gold	Gold 98
10	10	12	15

The extra performance achieved by the Powerchip allows your vehicle to respond much better than stock Eunos 30X 1.8 V6s. 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 Mazda'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
159	171	174	179

Torque Increases (Nm)			
Bronze	Silver	Gold	Gold 98
12	12	15	20



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 Eunos 30X 1.8 V6.

Fitting Details

Your car uses a soldered chip. Fitting takes about 1 hour and can be performed by a Powerchip Authorised Fitter in your local area. The Powerchip includes the modification and de-soldering of the computer board so that the chip will have a plug-in socket installed. This means that changing chips for the future is simple and can be done at any time.

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.

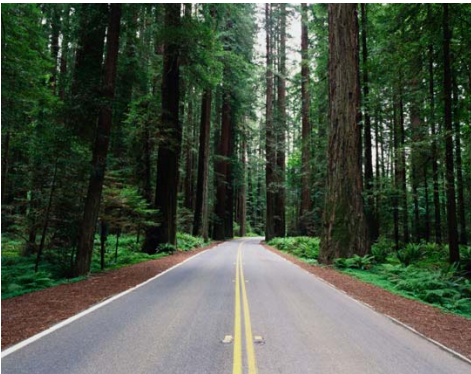


Drivability

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

Mazda 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 Eunos 30X 1.8 V6 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, your Power Consultant 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 be 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 Mazda. Have a look at just how well the Powerchip stacks up:

Price	\$690
kw Gain	15 kw
Price/kw	\$46

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)	\$490	\$590	\$690	\$690

Ask the Experts

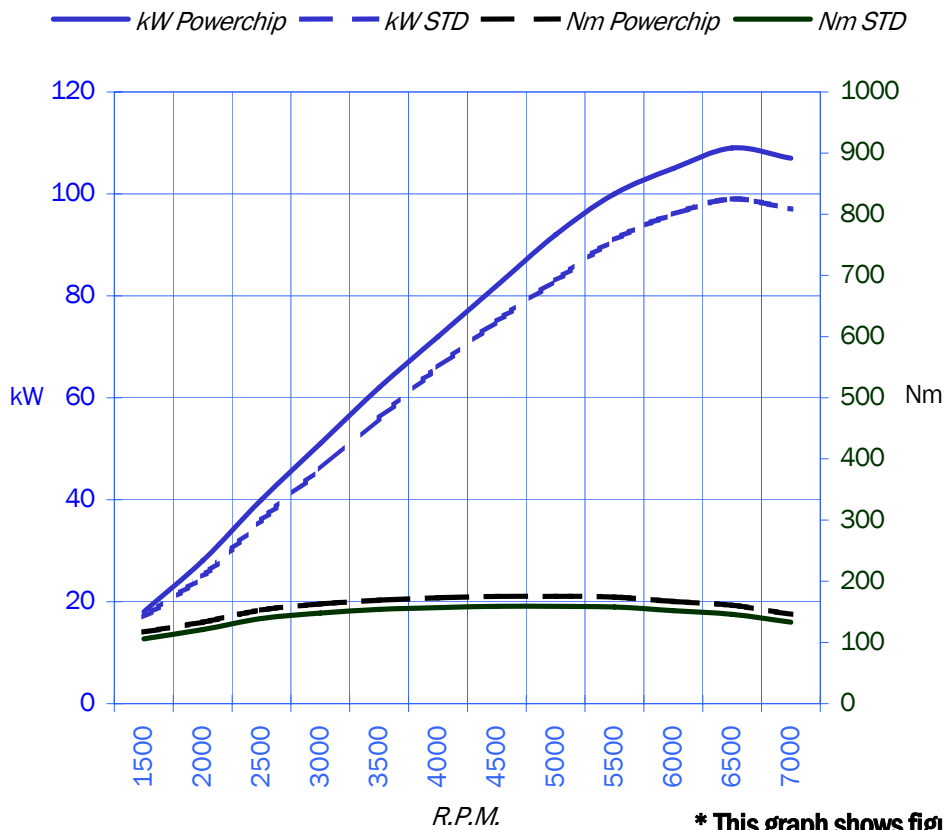
Your Powerchip Power Consultant is trained to provide you with the best information about getting more performance for your car. We have a specific Power Consultant who is responsible for the Mazda range, and he is an expert at answering all of your technical questions, especially about the Eunos 30X 1.8 V6. If you would like to speak with your Power Consultant about any aspect of the upgrade, please telephone our Australian headquarters in Melbourne, Victoria on (03) 9681 6888 or email your Mazda Power Consultant directly at sales@Powerchipgroup.com.

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Gold Performance Data for your...

Mazda Eunos 30X 1.8 V6 *

R.P.M.	kW STD	kW Powerchip	kW Gain	Nm STD	Nm Powerchip	Nm Gain
1500	17	18	1	106	117	11
2000	25	28	3	121	133	12
2500	36	40	4	139	153	14
3000	46	51	5	148	163	15
3500	56	62	6	154	169	15
4000	66	72	6	157	173	16
4500	75	82	7	159	175	16
5000	83	92	9	159	175	16
5500	91	100	9	158	174	16
6000	96	105	9	152	167	15
6500	99	109	10	146	161	15
7000	97	107	10	133	146	13

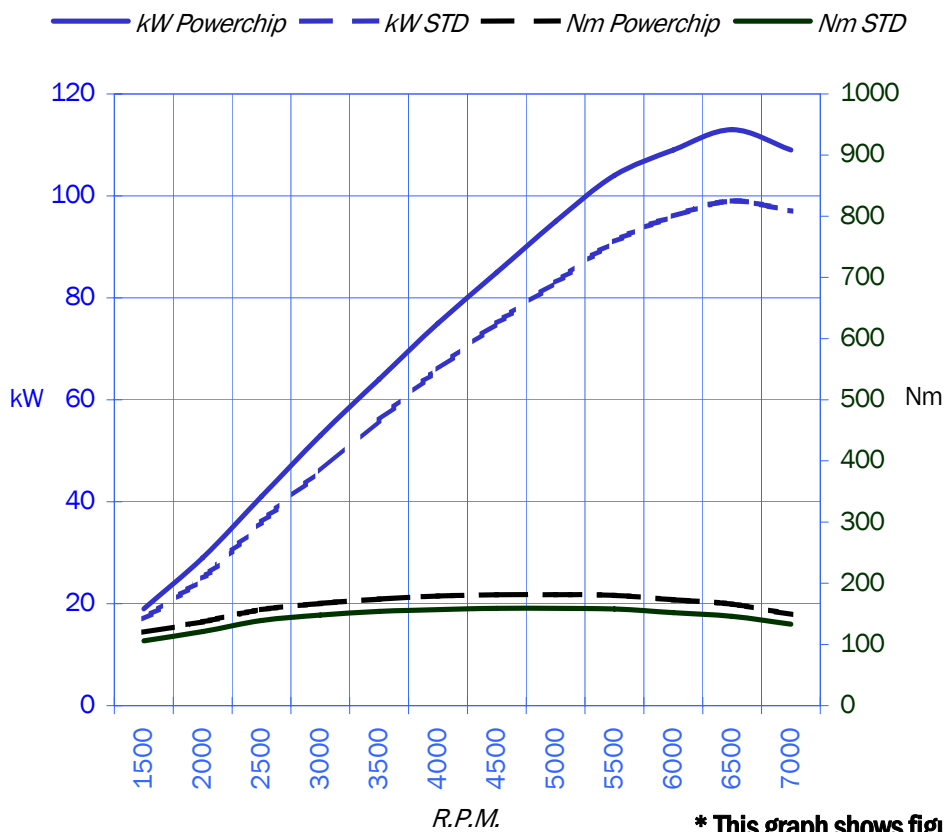


MODEL	ENGINE	VERSION	CAPACITY	Max kW	Max Nm	0-100 Auto	0-100 Man
Eunos 30X 1.8 V6	K8	Standard	1845cc	99	159	N/A	N/A
Eunos 30X 1.8 V6	K8	Gold	1845cc	111	174	N/A	N/A

Gold 98 Performance Data for your...

Mazda Eunos 30X 1.8 V6 *

R.P.M.	kW STD	kW Powerchip	kW Gain	Nm STD	Nm Powerchip	Nm Gain
1500	17	19	2	106	120	14
2000	25	29	4	121	137	16
2500	36	41	5	139	157	18
3000	46	53	7	148	167	19
3500	56	64	8	154	174	20
4000	66	75	9	157	179	22
4500	75	85	10	159	181	22
5000	83	95	12	159	181	22
5500	91	104	13	158	180	22
6000	96	109	13	152	173	21
6500	99	113	14	146	166	20
7000	97	109	12	133	149	16



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Eunos 30X 1.8 V6	K8	Standard	1845cc	99	159	N/A	N/A
Eunos 30X 1.8 V6	K8	Gold 98	1845cc	114	179	N/A	N/A

Customer Testimonials

Customer Name: Vu C, Mirrabooka

Car: Eunox 30X 1.8 V6

Testimonial added: Jan 25 2002

Customer Comments:

"Upon getting my car out the workshop there was a noticeable difference in my girl. The distribution of power through her seem more controlled and precise with definitely more power through the low gears and allowing me to reach the top speeds a bit faster. Admittedly I was a bit apprehensive about tinkering with the brains of my girl but in the end I got a better and faster car.

Thanks to the guys at Powerchip and Swiss Motors!"

Customer Name: George T, Ipswich

Car: Eunox 30X 1.8 V6

Testimonial added: Sep 24 2004

Customer Comments:

"A noticeable improvement immediately after installation. Car now runs slightly faster and smoother with the same amount of acceleration.

After 5 days of driving, the benefits are even more apparent. Better mileage and more usable mid range acceleration. This prompted me to upgrade my intake and exhaust to a free flowing one as I felt it was lagging my car behind.

I am very satisfied with product and the professionalism of Powerchip. Will definitely get one for my next car.

"

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"

Customer Name: Terry M, Nambour

Car: MX5 1.8 Man 6sp

Testimonial added: Jul 16 2003

Customer Comments:

"The Powerchip has enhanced the power in my car without compromising drivability. The power increased throughout the rev range and the acceleration is much better.

I was a little skeptical about buying the Powerchip but since installed I would recommend it because it works well.

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