

BrakeTalk

PBR International Limited A.C.N. 006 527 340 A Pacifica Group Company



STEP UP TO Bigger Brakes

- The ride of a lifetime
- Expanded research facilities
- New products set for Sydney show
- AutoPartners get lucky
- Step up to bigger brakes – It's easier than you think
- Brake service tips – disc rotors
- New range additions
- The face of PBR





The ride of a lifetime



What better way to close out the year than to take a high speed spin around Eastern Creek Raceway in a Holden Racing Team V8 Supercar.

Well that's exactly where Matthew Pearce ended up after his boss, Kevin Gavin from Specialised Brake and Clutch and Gavsport,

won PBR's "Ride on the Wild Side" competition late last year after buying a PBR Performance brake upgrade kit.

Kevin was delighted to have won the competition but not half as much as Matthew who ended up with the ride as a thank you for his over-the-counter sales efforts during the year.

And as if that wasn't enough, Matthew hit the jackpot when the ultimate racing legend, Peter Brock strapped himself into the driver's seat to take him for a spin. "I couldn't believe my luck," said Matthew. "Brocky had the car doing over 240kmph and never once looked like losing control. He certainly hasn't lost any of the magic."

Whilst waiting for his ride, Matthew chatted with the likes of Mark Skaife and the HRT pit crew, whom he said were a great bunch of guys.

Expanded research facilities

PBR's presence in the global automotive industry has grown significantly over the past decade and one of the keys to that success is the ability to conduct full test programs here in Australia.

For 25 years, PBR has tested brake systems at the 1000-hectare proving ground at the Australian Automotive Research Centre, Anglesea, Victoria. Recently the site has undergone a significant expansion to cope with the increased testing requirements from new and existing OE customers.

Vehicle testing at Anglesea assesses

brake performance and component durability over a wide variety of terrains. Test cars are driven to specific, and often rigorous, procedures on highway, gravel and other special road surfaces. Other test procedures measure brake sensitivity to water and mud penetration and determine levels of noise generated by brake system components.

This work is critical in ensuring that PBR brake systems developed for the Australian and overseas markets continue to exceed the expectations of today's drivers.



New products set for Sydney show

With the Automotive Aftermarket show heading up to Sydney in April we are already packing our bags with exciting new products to launch. Now, we can't say too much here because that would give the game away, but we would suggest you keep a look out for the expanded PBR Performance range.

But Performance is not the only thing expanding. We will also have a much more comprehensive hydraulic parts range to talk about.

For those of you who will be attending the show we invite you to drop in and see us at Stand O20 where we will be offering the chance to win a workshop tool kit and a PBR Performance brake upgrade.

We hope to see you there.

AutoPartners get lucky

Now is the right time for Autopartners members to get on board buying PBR products. With huge prizes and bonus points up for grabs, including the major prize of 1 million points, you can't go wrong.

And with the new PBR Performance upgrade kits earning 1,500 points each there has never been a better way to boost your points tally. For further information check out the AutoPartners website at

www.autopartners.com.au



Step up to bigger brakes - It's easier than you think



Upgrading a brake system to deliver more stopping power can be a daunting prospect. How do you know the rear wheels won't lock up? Does the master cylinder need changing? What if it makes the pedal too touchy? These are the sort of questions that cause many people to steer clear of brake upgrades.

It's also perfectly understandable when you read about the proliferation of high-tech goodies currently available to improve brake performance; cross-drilled rotors, ceramic disc pads, carbon fibre rotors and how many pistons do

you really need in a brake caliper? So let's weigh up the benefits. A customer wants to add a little more grunt to his pride and joy. A new turbo, bigger valves, upgrade the fuel injection and sure enough it goes like the clappers.

But does it stop? Rule number one - you can't add grunt without bite, that's just asking for trouble. So how do you increase stopping power without rebuilding the entire car or having your customer take out a second mortgage on his house?

PBR has introduced a range of

brake upgrade kits which make the job pretty straight forward. For starters, you don't need to mess with master cylinders and brake boosters. The PBR Performance upgrade kits have been designed to bolt straight up without upsetting brake balance. PBR has used their extensive knowledge of performance brake system development for the car companies to ensure that the performance upgrade kits are A.D.R. compliant.

PBR's performance kits arrive with everything you need for the job; bigger slotted rotors, bigger calipers, mounting brackets, braided hoses and a detailed instruction manual. All you need to supply are some basic tools (which are also detailed in the instruction manual) and labour. And they're much more affordable than most of the other products available.

If you have any reservations about the fitting process you can investigate all the details on the PBR Performance website before you start the job. Copies of the instruction manual along with mag wheel templates (to make sure the new system doesn't interfere with

the wheels) and kit specifications are available on the PBR Performance website at www.pbrperformance.com.au.

The fitting process is relatively straightforward. For most models you basically remove the old products, bolt up the new and bleed the system.

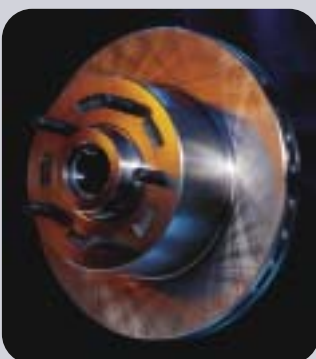
So what can you expect from a PBR Performance brake upgrade? The larger, vented front and rear rotors are slotted to increase pad 'bite' and prevent glazing. All calipers are fitted with more aggressive 'performance' disc pads and the front calipers are larger and stiffer to improve pedal feel. The new calipers are then linked to the system via stainless steel braided performance brake hoses.

All up your customer's new PBR Performance brake system will significantly improve stopping distance, reduce brake fade and offer a more responsive brake pedal.

For more detail on performance benefits or technical queries check out the performance brakes website at www.pbrperformance.com.au.

Brake service tips - disc rotors

Deteriorating quality of disc rotors can contribute to a range of braking issues. The following chart looks at some of the more common concerns you might encounter and how to go about overcoming them.



Concern	Possible Cause	Evidence	Corrective Action
Vehicle "pulling" to one side under braking.	Excessive grooving of rotor rubbing surface caused by: <ul style="list-style-type: none"> dirt build up inferior disc pads 	Rough grooved rubbing surface.	Machine rubbing surface or replace if thickness is too close to minimum thickness.
	Contamination on disc rotor surface	Smearing on rotor rubbing surface.	Clean rotor braking surface with solvent or replace.
Vibration experienced by driver under braking.	Rotor thickness variation.	Measure rotor thickness variation.	Machine or replace rotors.
	Excessive runout.	Measure installed runout.	
	Contamination on disc rotor surface.	Smearing on rotor rubbing surface.	Clean rotor braking surface with solvent or replace.
	Warping due to excessive heat.	Bluing of rotor.	Replace rotor.
	Warping due to uneven cheek thickness.	Measure installed runout.	Replace rotor.

New range additions

Holden Astra TR (9/96 - 9/98)

Description		Front/Rear	Orig. Brand	PBR No.
Brake Master Cylinder	1.6 litre City			JB6048
	2.0 litre GSI		ATE	JB6047
	2.0 litre GSI		Delco	JB6101
Caliper Kits	GL & GSI	Front		K2487S
		Rear		K2488S
Disc Rotors	1.6 litre City	Front		CD116
	1.8 GL & 2.0 litre GSI	Front		CD694
		Rear		CD695
Brake Hoses		Front		H1833
Wheel Cylinders		Rear		JB3178

Holden Astra TS (9/98 - 9/04)

Description		Front/Rear	Orig. Brand	PBR No.
Brake Master Cylinder				JB9637
Disc Rotors	Non ABS	Front		CD812
	ABS	Front		CD813
	Non ABS	Rear		CD776
	ABS	Rear		CD777
Brake Hoses	Left and Right	Front		H1990
	Left and Right	Rear		H1991
Clutch Master Cylinder				JB9686
Slave Cylinder				JB9643

Holden Vectra JR (6/97 - 8/98)

Description		Front/Rear	Orig. Brand	PBR No.
Caliper Kits	Up to serial # V5999999	Rear		K2488S
Disc Rotors		Front		CD919
		Rear		CD772
Brake Hoses	Left and Right	Rear		H2048

Holden Vectra JS (8/98 - 12/02)

Description		Front/Rear	Orig. Brand	PBR No.
Disc Rotors		Front		CD919
		Rear		CD772
Brake Hoses	Left and Right	Rear		H2048

Ford Territory TX, TS & Ghia (5/04 - current)

Description		Front/Rear	Orig. Brand	PBR No.
Brake Master Cylinder	RWD			B227-109
	4WD			B227-114
Master Cylinder Kit	RWD & 4WD			K8924
Calipers	L/H with pads	Front		B862-337
	L/H without pads	Front		B862-337PL
	L/H piston housing	Front		B862-337PH
	R/H with pads	Front		B862-338
	R/H without pads	Front		B862-338PL
	R/H piston housing	Front		B862-338PH
	L/H with pads	Rear		B825-137
	L/H without pads	Rear		B825-137PL
	L/H piston housing	Rear		B825-137PH
	R/H with pads	Rear		B825-138
	R/H without pads	Rear		B825-138PL
Caliper Kits		Front		K2471S
		Rear		K2939S
Disc Rotors		Front		CD1032
		Rear		CD1033
Brake Hoses	Left Hand	Front		H1919
	Right Hand	Front		H1920
	Left Hand	Rear		H1921
	Right Hand	Rear		H1922
Park Brake	L/H Assembly			B610-233
	R/H Assembly			B610-234
	Major Kit			PBK170
	Minor Kit			PBK169

For further details please refer to the PBR on-line catalogue at www.pbr.com.au/findapart

The face of PBR



Keeping abreast of an ever changing marketplace is no mean feat, especially in the automotive aftermarket. It takes a high level of research skills, an intimate knowledge of the vehicle parc and a lot of patience.

Barry Mason has all of these plus an in-depth knowledge of PBR. And so he should given that he has spent the past 18 years working for us. Barry is our key catalogue researcher and responsible for a large portion of the information that finds its way into the PBR hydraulics catalogue which ultimately leads to parts on the shelf - just when you need them.

Barry has also spent many years at PBR as a key member of our customer service team. Prior to PBR Barry spent 15 years with Toyota, predominantly in the dealership network as a Spare Parts Manager.

Barry is a stickler for accuracy and spends many hours ensuring that the information we present to you through our catalogues allows you to select the right part for the right application every time.

If you want to check out Barry's handiwork you can visit our online catalogue at www.pbr.com.au/findapart.



PBR International Limited

264 East Boundary Road
East Bentleigh Vic 3165

HELPLINE (T) 1300 369 727 (F) 1800 064 727

Email: pbr_enquiries@pbr.com.au

Website: www.pbr.com.au

Send any comments regarding this newsletter to braketalk@pbr.com.au