

BrakeTalk

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



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PBR Joins Ford Elite

PBR was ushered into a family of elite suppliers to Ford Motor Company when they received a Silver World Excellence Award on 3rd May 2006.

More than 150 of Ford's largest suppliers from 17 countries were present at the Henry Ford Museum in Dearborn to witness the event.

The World Excellence Awards recognise suppliers who not only achieve the highest levels of cost, quality and delivery but who also embrace the vision to build on Ford's legacy and drive innovation to new heights.

The silver global award comes hot on the heels of PBR's success at Ford Australia's recent awards ceremony where they received the Gold Supplier Excellence Award. It is the second time PBR has received a Ford silver global award since the inception of these awards eight years ago.

PBR is a longstanding brake system supplier to Ford Australia and supplies brakes to Ford vehicles in North America, Thailand and Europe.



PBR's Derek Hodgson (centre) receives the Ford World Excellence award from Tony Brown and Richard Parry-Jones

Scratch & Win 2

It's promotion time again for AutoPartners members with the popular Scratch & Win promotion back for a second run. Over \$70,000 in prizes to be won between June and December. For further details check out www.autopartners.com.au.



Jetstream Cap Winners

Congratulations to the lucky winners of our Jetstream cap promotion in the February issue of BrakeTalk.



Vikki French	Vic	Neil O'May	Qld	Graham Harvey	WA
Kane Makepeace	Vic	John Flowers	Qld	David Taylor	WA
Jeremy Hehir	Vic	Warren Friend	Qld	Anita McLean	WA
Darrin McFarlane	Vic	Jason Scanes	Qld	Duwarne Beazley	WA
David Morton-John	Vic	Charlie McCarthy	Qld	Graham Scott	WA
Max Munn	NSW	Chris Marshall	SA	Wayne Stanley	Tas
Alex Piemonte	NSW	Michael Baxter	SA	Nigel Higgs	Tas
Gerhard Stafa	NSW	Stephen Korn	SA	Wally Barnes	NT
Michael Dalziel	NSW	Shirley Twigg	SA	Ameer Mayer	NT
Jason Ryder	NSW	Steve Armstrong	SA		

GET INTO STREET FORDS WITH OUR COMPLIMENTS!

This month we are giving away **FREE** copies of Street Fords Issue 12 (it's hot) and a deck of Street Fords playing cards to the first 5 people from each state who email us.

Simply email your name and address (including postcode) to braketalk@pbr.com.au and we'll have you reading in no time.



PBR Super DOT 3 Brake Fluid

To assist with the servicing of vehicles that specifically require the use of DOT 3 grade brake fluids, such as Toyota vehicles, PBR recently introduced the high performing Yellow DOT in 500ml bottles.

With many workshops being increasingly exposed to the need for DOT 3 grade brake fluids PBR has now introduced a 4 litre container making it more economical for workshops and high users.

Yellow DOT is a Super DOT 3 grade fluid which has a minimum boiling point of 260°C. When you consider that the Australian/NZ specification for DOT 3 fluid is 230°C it is comforting to know that PBR Yellow DOT is more than up to the job.

PBR Yellow DOT Super DOT 3 brake fluid in 4 litre containers (BF3-4L) is available from all major PBR brake products stockists.



The Science of Caliper Abutment Shims

Take a close look at most modern brake calipers and you will most likely find metal pressings or "shims" tucked into the anchor bracket for the disc pad to slide along. These are known as "abutment shims".

Today's drivers are much more focussed on issues such as fuel consumption, service costs and vehicle noise. Abutment shims play a key role in addressing these issues and optimising the performance of a brake caliper.

One of the key benefits of abutment shims is that they can significantly reduce pad slide loads which results in lower brake drag and therefore lower fuel consumption and lower pad and rotor wear.

High pad slide loads will occur when there is excessive friction between the pad backplate and the anchor bracket. One of the major causes of this condition is corrosion.

The stainless steel abutment shims have a lower co-efficient of friction and protect each

component's anti-corrosive coating from wearing away under extensive contact with each other. They also protect the anchor bracket from brinelling – another contributor to higher friction levels.

Abutment shims can also be designed to assist with reducing certain brake noises. By incorporating a spring bias, the shim effectively centralises the pad in the abutment gap. This reduces the pad movement experienced as the brakes are applied which can cause a "knock" if the gap is too large.

Likewise, by designing the shim with a spring bias in the radial direction it reduces the tendency for "rattle" to occur. In this case it has also enabled the elimination of the separate housing bias spring in some caliper designs.

It therefore becomes important for customer satisfaction that abutment shims are inspected during brake services and replaced if there are signs of heavy wear or disfiguration.



Anchor bracket and shim

Most aftermarket replacement pad kits do not come with abutment shims. However PBR's Jetstream rotor systems do include them to ensure that each brake service returns the brake system to as-new performance levels.



Truck 'n' Bus Stuff

PBR Air Brake Valves Designed in Australia for Australian Trailers

Getting the best out your trailer brakes can make a significant impact on your running costs. PBR's unique trailer brake systems hold the reputation as having the fastest reaction time for application and release in the Australian market.

Why? Because that's the way we designed them.

And at the heart of our trailer brake systems are PBR's specially designed air brake valves. The two primary valves are the CA700 Relay Valve and the CA400 P.A.R.C. Valve. Each of these valves has been specially tuned to deliver the fastest possible reaction time for the system.

The CA700 provides virtually instantaneous system "take-up" to provide near optimum braking times between the prime mover and trailer. This is achieved by minimising the time for the valve to reach its balanced state through controlling pressure differences across the relay piston surfaces.

The CA400 is designed to service multiples of spring brake chambers, eg. tri-axles, tandems etc. The valve is reservoir mounted and controlled by the supply line running from the prime mover. All air delivered to and from the spring brakes passes through the CA400, which is fitted with an inline filter.

Each of these valves has been designed with ADR38/02 in mind and manufactured to PBR's



stringent quality requirements including colour coding for ease of valve identification and maintenance simplicity. The valve colours are matched to the nylon tubing so that the CA700 is coded blue (control line) and the CA400 is red (supply line).

PBR valves significantly reduce the cost and complexity of air brake systems on tri-axle semi-trailers because these systems have been designed to function with only two valves rather than the standard three required by alternative systems.

To help trailer manufacturers reduce system

assembly time PBR air brake valves are also available as "fitted valves" which come with pre-installed push-to-connect fittings and hose barbs.

For trailers which are pre ADR38 requirements, PBR offers the 281672F (RE6) Relay Valve manufactured to the same high standards. This valve is now colour coded yellow for easy reference.

PBR's family of air brake valves is easily recognised by the distinctive colour coding and PBR logo cast into the top of the cap. It's the only way of guaranteeing that you have a PBR product and the most efficient air brake valves on the market.

Now Available!

High quality nylon air brake tube in 15metre coils

Not all truck and trailer repairers want to have mountains of nylon coil sitting around the workshop. So we've added the handy 15 metre pack to our range. At 15 metres it's the perfect size for your average truck or trailer. Now there's a length of PBR nylon air brake tube to suit everyone.



Part Number	Length	Colour	Pack Type
T141-6RB-15	15 metres	Blue	Plastic Wrap
T141-6RBC	25 metres	Blue	Plastic Wrap
T141-6RB-150	150 metres	Blue	Cardboard Spool
T141-6RB-250	250 metres	Blue	Metal Spool
T141-6RR-15	15 metres	Red	Plastic Wrap
T141-6RRC	25 metres	Red	Plastic Wrap
T141-6RR-150	150 metres	Red	Cardboard Spool
T141-6RR-250	250 metres	Red	Metal Spool

Air brake trailer kit valve range



Part Number	Description
CA400	Spring Brake Valve (PARC)
CA400K	"Fitted" Spring Brake Valve



Part Number	Description
CA700	Relay Valve
CA700K	Fitted Relay Valve – Tri Axle
CA700KT	Fitted Relay "Valve – Tandem" Axle



Part Number	Description
KN28300	"FAB" Relay Valve
N30096PA-K	Fitted "FAB" Relay Valve



Part Number	Description
229505 (LQ2)	LQ2 Quick Release Ratio Valve



Part Number	Description
KN34060	Tractor Protection Valve



Part Number	Description
KN23000	One way Check Valve 1/2" M/FM
KN23010	One way Check Valve 3/8" M/FM
KN23040	One way Check Valve 3/4" M/FM



Part Number	Description
CA190A	Quick Release Valve - Del 1/4"
CA190B	Quick Release Valve - Del 3/8"



Part Number	Description
N14488R	Yard Release Valve

New range additions

Make	Application			Model Detail	Component	PBR No.
HOLDEN	FRONTERA	UES	02/99 - 02/01	2.2 & 3.2	B M/CYL	JB9633
HOLDEN	FRONTERA	UT	10/95 - 10/96		B M/CYL	JB9633
HOLDEN	JACKAROO	U8	02/98 - 10/00		B M/CYL	JB9633
HOLDEN	RODEO	TF	02/90 - 02/03	DISC/DRUM	CALIPER KIT FR	K1794S
HOLDEN	RODEO	TF	02/90 - 02/03	DISC/DRUM	CALIPER PISTON	JB8715
HOLDEN	RODEO	TF	12/97 - 02/03	3.2 V6	B M/CYL	JB9633
HOLDEN	RODEO	TF	12/97 - 02/03	2.6 & 2.8	B M/CYL	JB9634
HOLDEN	RODEO	TF	07/88 - 12/00	4X2	HOSE RR	H2100
HOLDEN	RODEO	TF	07/88 - 02/03	4X4	HOSE RR	H1409
HOLDEN	RODEO	TF	02/98 - 02/03	V6 3.2	HOSE RR	H1409
MITSUBISHI	CANTER	FE334	01/91 - 12/93		B M/CYL	JB1933
MITSUBISHI	CANTER	FE439	01/91 - 12/95		B M/CYL	JB1933
MITSUBISHI	LANCER	CC	09/92 - 07/96	1.6	C M/CYL	JB6040
MITSUBISHI	LANCER	CC	09/92 - 07/96	ALL EXCL GSR	S/CYL	JB4260
MITSUBISHI	PAJERO	NJ	11/93 - 10/96	ABS DISC/DISC	B M/CYL	JB9591
MITSUBISHI	PAJERO	NJ	11/93 - 10/96	3.0 V6	S/CYL	JB9535
MITSUBISHI	PAJERO	NJ	11/93 - 10/96	2.8 DIESEL	S/CYL	JB9536
MITSUBISHI	PAJERO	NJ	11/93 - 10/96	2.8 TURBO	S/CYL	JB9534
MITSUBISHI	PAJERO	NK	10/96 - 07/97	V6 3.5	C M/CYL	JB9528
MITSUBISHI	PAJERO	NK	10/96 - 07/97	2.8 TURBO	C M/CYL	JB9528
MITSUBISHI	PAJERO	NK	10/96 - 07/97	3.0 V6	S/CYL	JB9535
MITSUBISHI	PAJERO	NK	10/96 - 07/97	2.8 DIESEL	S/CYL	JB9536
MITSUBISHI	PAJERO	NK	10/96 - 07/97	2.8 TURBO	S/CYL	JB9534
MITSUBISHI	PAJERO	NL	08/97 - 06/00	ABS GL GLX LWB	B M/CYL	JB9591
MITSUBISHI	PAJERO	NL	08/97 - 06/00	ALL MODELS	C M/CYL	JB9528
MITSUBISHI	PAJERO	NL	08/97 - 06/00	DIESEL	S/CYL	JB9534
MITSUBISHI	TRITON	ME/MF/MG	10/86 - 09/90		S/CYL	JB9533
MITSUBISHI	TRITON	MH/MJ/MK	09/90 - 12/00		S/CYL	JB9533
TOYOTA	AVALON	MCX10	07/00 - 02/05	ABS	B M/CYL	JB9511
TOYOTA	CAMRY (& VIENTA)	SDV10	03/93 - 08/95		CALIPER KIT RR	K1598S
TOYOTA	COROLLA	AE101	09/94 - 07/00		CALIPER KIT FR	K1496S
TOYOTA	COROLLA	AE101	11/96 - 07/00	1.6	S/CYL	P10213
TOYOTA	COROLLA	AE102	09/94 - 04/00	1.8	S/CYL	P10213
TOYOTA	COROLLA	AE112	10/98 - 08/01		S/CYL	JB4237
TOYOTA	HI ACE	LH103/113/125	10/89 - 09/00	DIESEL 2.8	S/CYL	JB4235
TOYOTA	L/CRUISER	FJ62	01/85 - 04/90	W/CLUTCH SERVO	C M/CYL	JB1672

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



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