

Replaces all previous versions

Effective 1st February 2004

# SMART BAR

## Frontal Protection System

### Lightweight.

Easily fitted without expensive suspension upgrades to the vehicle.

### Safe but Strong.

Polymer not only protects your panels but also acts as an injury-preventing cushion in a crash.

### Pedestrian Friendly.

Designed to protect pedestrians in the event of an accident.



Gary Retallick - Inventor of the smartbar.

"Whatever way you look at it smart bar is the smart choice."

The Smartbar, invented in Adelaide by Gary Retallick and tested by internationally renowned Vehicle Accident Researchers Graham Lawrence of Transport Research Laboratories in Europe refers to Smartbar as, "a great leap forward in vehicle front crash safety". He added, "It shows that Australia is capable of good lateral thinking to overcome the problems associated with the metal bullbar."



New RTV SMART BAR



New OUTFRONT BAR

Available in 5 New Models.



## Editorial and Customer Comments

### NHMRC

"The Smartbar performed better than steel & aluminium in all comparison tests." - Prof. A.J. McLean - NHMRC Road Accident Unit

### Kings Transport

"Smartbar does the job, it absorbs the impact of a roo collision. We avoid bruising horses and consequently no scratchings from ropes after fitting a Smartbar." - Lon King - Proprietor

### C. F. S.

"We pushed a burning bus from the road, using the Smartbar fitted to our Hino. No damage to our vehicle or the Smartbar." Trevor Finney - Captain C.F.S. Morphett Vale

### Conrig National Pty. Ltd.

"The Smartbar looks good, it's safe and weight saving. We load up our vehicles to their maximum capacity, so the weight issue is important, our staff also travel great distances so the safety features of the Smartbar is very appealing." - Ian Forrester - Director

### Tip Top Bakeries

"We got sick of changing the alloy bars after roo strikes. Smartbar were a cheaper and more effective option. The Smartbar have also saved us money due to less down time and lower repair bills." Kevin Patterson - Vehicle Manager

### Les Ornsby transport.

"I chose the Smartbar firstly because it was \$800 cheaper than the aluminium bar. Secondly, I had spoken to several night delivery drivers who regularly hit livestock and roos, and they swore by them. After my experience with Smartbar I will be fitting them to all my vehicles and would recommend it to all road users."

Les Ornsby - Proprietor

### Elders Limited

"Smartbar are cheaper than other types, and look more attractive when fitted. We hit a steer at 104 kph. The bar didn't even look like it had been hit. We hit the roo at about 70kms in the middle of the car. No damage. We noticed that roos tended to be bounced away when they hit the bar."

Gary Chamberlain  
National Fleet Controller



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Ford Falcon BA - Standard with Driving Lights



Ford Falcon AU - Standard with Driving Lights



Mercedes Sprinter



Holden Commodore VY - with Driving Lights



Holden Commodore VT, VX & VU - With D.Lights



Toyota Hilux 2WD & 4WD 10/01+



Mitsubishi Triton 2WD & 4WD 10/96-5/01



Toyota Landcruiser 75 - 78 - 79 Series 1/90+



Ford Courier 2WD & 4WD Turbo 99+



Nissan Patrol GU 97+



Ford Maverick 4/88 - 94



Toyota Landcruiser 100 Series



Toyota Landcruiser 80 Series 5/90+



Ford Explorer 97 - 10/01



Mitsubishi Pajero NM 5/00+



Jeep Cherokee 4/94-5/01



Landrover Discovery 3/91-12/98



Mitsubishi Pajero 5/91-4/00



Toyota Prado 7/96-12/02



Mitsubishi Challenger 98-7/00



Ford Courier/Mazda Bravo 88+



Toyota Hilux 4WD & 2WD 9/97-10/01



Toyota Hilux 4WD 10/88-8/97



Toyota Hilux 2WD 10/88-8/97



Mitsubishi Canter FE - Wide Body



Mitsubishi FK & FM



Hino Ranger 6 & 7



Toyota Hiace 90-8/88



12

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## OUTFRONT BAR



Toyota Rav 4 with Side Wings 7/00\*



Ford Escape with Side Wings 3/01\*



Mazda Tribute with Side Wings 3/01\*



Honda CRV with Side Wings 10/97-12/01



Holden Rodeo with Side Wings 12/02\*

### Research & Development

Team Poly uses the latest CAD tools to evaluate new designs for the Smartbar program. These tools, together with Team Poly's highly skilled Design Team provides motorists with great style and the best level of protection available.



  
 SILVER GREY

  
 BLACK GLOSS

  
 PEARL GREY

  
 WHITE

  
 BLACK

  
 CHILLI RED

\*White only available on some models.  
 Colour selection to be verified with samples available at Agents store.

### Exhaustive Testing

Exhaustive testing shows Smartbar provides an effective protection outcome, without impairing airbag, no fire and most fire deployment. Robust polyethylene provides a simple impact absorbing solution. In addition to the HIC test, Smartbar is tested to the European bumper bar standard ISO 2958. These tests demonstrate Smartbar's shock absorbing ability, and superb damage control.





HIC Tests Performed by NARC Road Accident Research Unit University of Adelaide 1999

### Child Head Form Test

HIC VALUE (HEAD IMPACT CRITERIA) = Measure of Head Trauma & Accident Survival



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Daisy T./Brochures/TeamPoly/SmartBar/SmartBar\_5Pg\_NP

Page 3 of 5

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# OUTFRONT BAR

## New Out Front Bar - The Future of Vehicle Frontal Protection

The Out Front Bar (OFB) is a new concept of Frontal Protection Device incorporating 2 stages of impact absorption.



### Stage 1 - Elastomer Mounts

Each OFB has elastomer mounts that absorb low to medium impacts.

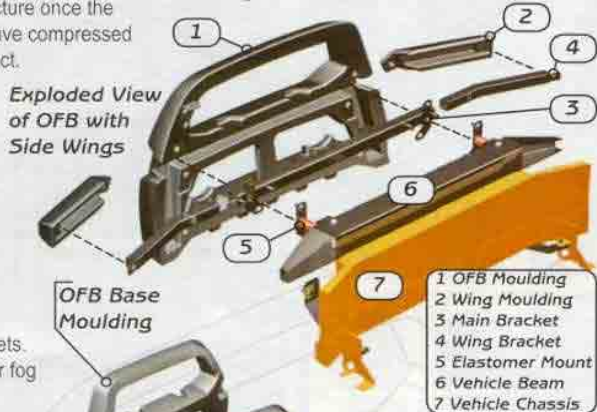


### Stage 2 - Polymer Box Section

High impacts are absorbed by the OFB's moulded structure once the elastomer mounts have compressed under the initial impact.

### Wide Range Of Vehicles

The Design of the OFB allows more vehicles to be fitted with fewer moulded parts. Different mounting brackets are created to mount the OFB to different vehicles. This reduces the cost to the end user by minimising the number of different mouldings.



### Out Front Bar Configurations

The Out Front Bar can be purchased in a variety of configurations to suit customer requirements.

#### Base Model Features:

Upper spotlight mounting brackets.  
 Provision to attach the driving or fog light kit.  
 An aerial mounting bracket.  
 Caps covering wing connection points.

#### Model with Side Wings:

Same features of the base model with the addition of side wing protector bars.

#### Model with Quad Wings:

Same features of the base model with the addition of 4 wing protector bars.  
 Note: only available on some models.

#### Upgradable:

Side wings can be added to the base model (no wings) at a later date if required.  
 Driving and fog light kits can be purchased and fitted at any stage.  
 Note: OFB needs to be removed to fit light kits.



OFB Accessories	Description	Price inc. GST
OFB-DL-A	Driving light assembly	\$95
OFB-FL-A	Fog light assembly	\$99
OFB-W2-A	Wing assembly 2	\$74



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Manufacturer / Model	Airbag OK	Textured Finish	Winch OK	Year	
Ford BA	X	X		10/02+	
Ford AU	X			98 - 10/02	
Ford Explorer	X			97-10/01	
Ford Maverick				4/88-94	
Ford Trader				97-8/00	
Ford Courier 2WD & 4WD				88-12/98	
Ford Courier 2WD & 4WD - Turbo				99-11/02	
Hino Ranger 6 & 7				97 - 12/02	
Holden Commodore VY	X	X		10/02+	
Holden Commodore VT-VX-VU	X			9/97 - 10/02	
Holden Rodeo	X			88+	
Holden Jackaroo				Prior to 4/92	
Isuzu 500 to 950 Series				97 +	
Isuzu NPR & NPS					
Isuzu NQR					
Jeep Cherokee Sport / Limited	X			4/94-9/01	
Landrover Discovery	X			3/91-12/98	
Mazda Bravo 2WD & 4WD				88-12/98	
Mazda Bravo 2WD & 4WD - Turbo Models				99-10/02	
Mazda "T" Series				90-8/00	
Mitsubishi Pajero NH - NK				5/91-8/97	
Mitsubishi Pajero NL	X			9/97-4/00	
Mitsubishi Pajero NM	X			5/00-11/02	
Mitsubishi Triton MK 2WD & 4WD				10/96-5/01	
Mitsubishi Challenger	X			98-7/00	
Mitsubishi FK & FM					
Mitsubishi Canter - Wide Body					
Nissan Patrol GU	X		X	97 +	
Nissan Patrol GU Winch Kit				97 +	
Nissan Patrol GQ				2/88-97	
Nissan Patrol Coil Cab GQ				2/92-97	
Nissan Patrol MQ				82-87	
Nissan UD LM & MK				97 +	
Toyota Prado	X			7/96 - 12/02	
Toyota 60 Series				8/80-11/84	
Toyota 75 - 78 - 79 Series Winch Ver.		X	X	1/90+	
Toyota 75 - 78 - 79 Series Non Winch		X		1/90+	
Toyota 80 Series	X			5/90+	
Toyota 100 Series (6 cylinder)	X		X	97-11/02	
Toyota 100 Series (8 cylinder)	X			98-11/01	
100 Series Winch Kit				97 +	
Toyota Hilux 4 X 2		X		10/88-8/97	
Toyota Hilux 4 X 2	X			9/97-10/01	
Toyota Hilux 4 X 4				83-8/97	
Toyota Hilux 4 X 4	X			9/97-10/01	
Toyota Hilux 4 X 4 & 4 X 2	X	X	X	10/01+	
Toyota Hiace				1990-8/98	
Toyota Hiace (bumper only)				1990-8/98	
Toyota Dyna 300				96 - 12/00	
Universal truck (5 tonne)				N/A	

Price listed does not include installation or fitting