

## Pedestrian Protection Test Results

Eighteen percent of all road fatalities in Australia and New Zealand are pedestrians. The pedestrian impact test estimates injuries to pedestrians struck by a vehicle travelling at 40km/h. It consists of dummy components projected at the vehicle front and bonnet to evaluate injury risk for the head of an adult and child, upper leg and knee.

To simplify the crash test results ANCAP has assigned a pedestrian protection rating based on an overall score, which is portrayed as a star rating out of 4 – **the more stars the better.**

## Occupant Protection Test Results

The occupant protection rating considers the injury measures to the vehicle occupant's head, neck, chest, abdomen, pelvis, upper and lower legs and the deformation of the vehicle's structure. The vehicles purchased for the test program are typical of those vehicles available to new car purchasers.

A star rating is assigned on the basis of crash test results from an offset and side impact crash and include any additional points awarded where advanced seatbelt reminders are fitted or a pole test is conducted.

To simplify the crash test results ANCAP has assigned an occupant protection rating based on an overall score, which is portrayed as a star rating out of 5 – **the more stars the better.**



The assistance of EuroNCAP is gratefully acknowledged.  
For more information please contact:



Published by Australasian New Car Assessment Program  
PO Box 1555 Canberra ACT Australia 2601  
ANCAP 08/06 Designed by Joyce Russ Advertising +61 8 (08) 8362 9982



# CRASH TEST AUGUST

## 2006 RESULTS



4WD's

- UTES
- LARGE CARS
- SMALL CARS
- SPORTS CARS
- MEDIUM CARS
- COMMERCIAL VANS

## Who is ANCAP?

The Australasian New Car Assessment Program (ANCAP) gives consumers consistent information on the level of occupant protection provided by vehicles in serious front and side crashes.

The program is supported by Australian and New Zealand automobile clubs, the State governments of NSW, Victoria, South Australia, Queensland, Western Australia and Tasmania, the New Zealand Government and the FIA Foundation.

## Making Comparisons

ANCAP results are intended to be used to compare the crash protection provided by vehicles in severe crashes. Occupants of heavier vehicles in real-world two-vehicle crashes typically fare better than occupants in lighter vehicles. This is why crash test results shouldn't be compared among vehicles with large weight differences. However in many single-vehicle crashes, weight offers no safety advantage. In Australia, 44% of fatal crashes are single-vehicle crashes.

## The Results

These crash tests are essential to determine how much protection these individual vehicles afford their occupants and pedestrians. The results in this report are based on a series of crash tests conducted in Australia and Europe. Vehicle manufacturers were given the opportunity to examine their vehicles before and after the tests and to view the crash tests and data.

The test results indicate the relative protection provided to front seat occupants when seat belts are used. The results may not be representative for models that have different safety equipment fitted.

## EuroNCAP Testing Procedures

European NCAP (EuroNCAP) testing procedures are substantially the same as ANCAP testing procedures.

However, the EuroNCAP results are to be used as a guide only, as the structure and equipment of the European specification model may differ materially from that of the Australian or New Zealand vehicle of the same name.

## What is ESC? And why does ANCAP recommend it?

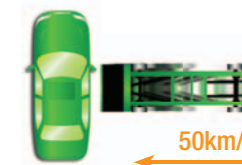
Recent evidence from international research organisations shows that Electronic Stability Control (ESC) can dramatically reduce the chances of being involved in certain types of crashes. ESC senses when a driver is about to lose control by detecting differences between a vehicle's course and the driver's intended direction. By selectively applying the brakes to individual wheels, ESC helps the driver to maintain control of the vehicle and to steer safely. This can make the difference between a crash and a near-miss. Vehicles fitted with ESC are significantly less likely to be involved in single vehicle crashes than those that are not.

There are many different names for ESC. Some examples are :

- Electronic Stability Program (ESP)
- Vehicle Stability Control (VSC)
- Dynamic Stability Control (DSC)
- Vehicle Stability Assist (VSA)

## ANCAP Crash Test Procedures

### Side Impact



The side impact test consists of running a 950kg trolley into the driver's side of the test vehicle at 50km/h. The trolley has a crushable aluminium face to simulate the front of another vehicle.

A dummy measures the likely injuries in this type of crash.

### Frontal Offset



The offset frontal crash test simulates colliding with another vehicle. In this test, 40% of the test vehicle, on the driver's side, initially makes contact with a crushable aluminium barrier at 64km/h.

A dummy measures the likely injuries in this type of crash.

### Pole Test



The pole test consists of running the test vehicle sideways into a pole 250mm in diameter, lined up with the driver's head, at 29km/h. This test is optional at the manufacturer's cost if the vehicle performs well in the side impact test and is fitted with head protection side airbags.

It simulates a collision with stationary objects such as a power pole or a tree. A dummy measures the likely injuries in this type of crash.



# CRASH TEST RESULTS AUGUST 2006 RESULTS

# PEDESTRIAN RESULTS

## ANCAP Occupant Protection Test Results

Vehicle Make & Model	Occupant Rating
	★ ★ ★ ★ ★
<b>4WD</b>	
<b>Ford Territory</b> <small>2006 on, Dual Front &amp; Curtain Airbags</small>	★★★★★
<b>Ford Territory</b> <small>2006 on, Dual Front Airbags</small>	★★★★
<b>Large</b>	
<b>Mitsubishi 380</b> <small>2005 on, Front &amp; Side Airbags</small>	★★★★
<b>Small</b>	
<b>Toyota Yaris</b> <small>2005 on, Dual Front Airbags</small>	★★★★
<b>Nissan Tiida</b> <small>2006 on, Dual Front Airbags</small>	★★★★
<b>Holden Barina</b> <small>December 2005 on, Dual Front Airbags</small>	★★★
<b>Commercial Van</b>	
<b>Toyota Hiace</b> <small>December 2005 on, Dual Front Airbags</small>	★★★★

## ANCAP Occupant Protection Test Results

Vehicle Make & Model	Occupant Rating
	★ ★ ★ ★ ★
<b>Utes</b>	
<b>Toyota Hilux 4X2</b> <small>2005 on, Dual Front airbags</small>	★★★★
<b>Toyota Hilux 4x4</b> <small>2005 on, Dual Front Airbags</small>	★★★★
<b>Ford Falcon BA Utility</b> <small>2004 on, Driver Airbag</small>	★★★★
<b>Holden Rodeo 4x2</b> <small>2004 on, Dual Front Airbags</small>	★★★★
<b>Holden Rodeo 4x4</b> <small>2004 on, Dual Front Airbags</small>	★★★★
<b>Ford Courier / Mazda Bravo 4x4</b> <small>1999 on, No Airbags</small>	★★★
<b>Mitsubishi Triton 4x2</b> <small>2002 on, No Airbags</small>	★★

## EuroNCAP Occupant Protection Test Results

Vehicle Make & Model	Occupant Rating
	★ ★ ★ ★ ★
<b>4WD</b>	
<b>Nissan Pathfinder (LHD)</b> <small>2005 on, Front, Side &amp; Head Airbags</small>	P★★★★
<b>Hyundai Tucson (LHD)</b> <small>2006 on, Front, Side &amp; Head Airbags</small>	P★★★★
<b>Large</b>	
<b>Citroen C6 (LHD)</b> <small>2006 on, Front, Side &amp; Head Airbags</small>	P★★★★
<b>VW Passat (LHD)</b> <small>2006 on, Front, Side &amp; Head Airbags</small>	P★★★★
<b>Small</b>	
<b>Toyota Yaris (LHD)</b> <small>2005 on, Front, Side &amp; Head Airbags</small>	P★★★★
<b>Fiat Punto (LHD)</b> <small>2005 on, Front, Side &amp; Head Airbags</small>	P★★★★
<b>Citroen C3 (LHD)</b> <small>2006 on, Front &amp; Side Airbags</small>	★★★★

## EuroNCAP Occupant Protection Test Results

Vehicle Make & Model	Occupant Rating
	★ ★ ★ ★ ★
<b>Medium</b>	
<b>Peugeot 407 Coupe (LHD)</b> <small>2006 on, Front, Side &amp; Head Airbags</small>	P★★★★
<b>Alfa Romeo 159 (LHD)</b> <small>2006 on, Front, Side &amp; Head Airbags</small>	P★★★★
<b>Sports</b>	
<b>Renault Megane CC (LHD)</b> <small>2004 on, Front, Side &amp; Head Airbags</small>	P★★★★

**★ 5** THE MORE STARS THE BETTER THE VEHICLE PERFORMED IN THE TESTS

**P** AN OPTIONAL POLE TEST WAS CARRIED OUT ON THIS VEHICLE. SEE 'ABOUT THE TESTS' FOR MORE INFORMATION.

## ANCAP & EuroNCAP Pedestrian Impact Test Results

Vehicle Make & Model	Pedestrian Rating
	★ ★ ★ ★
<b>4WD</b>	
<b>Nissan Pathfinder (LHD)</b>	★★★★
<b>Hyundai Tucson (LHD)</b>	★★
<b>Large</b>	
<b>Citroen C6 (LHD)</b>	★★★★
<b>VW Passat (LHD)</b>	★★★★
<b>Mitsubishi 380</b>	★
<b>Small</b>	
<b>Fiat Punto (LHD)</b>	★★★★
<b>Toyota Yaris</b>	★★★★
<b>Toyota Yaris (LHD)</b>	★★★★
<b>Nissan Tiida</b>	★★★★
<b>Citroen C3 (LHD)</b>	★★★★
<b>Holden Barina</b>	★★

## ANCAP & EuroNCAP Pedestrian Impact Test Results

Vehicle Make & Model	Pedestrian Rating
	★ ★ ★ ★
<b>Medium</b>	
<b>Peugeot 407 Coupe (LHD)</b>	★★★★
<b>Alfa Romeo 159 (LHD)</b>	★★
<b>Commercial Van</b>	
<b>Toyota Hiace</b>	★★
<b>Sports</b>	
<b>Renault Megane CC (LHD)</b>	★★
<b>Utes</b>	
<b>Holden Rodeo 4x4</b>	★★
<b>Toyota Hilux 4x4</b>	★★
<b>Ford Falcon BA</b>	★
<b>Ford Courier / Mazda Bravo 4x4</b>	★