



Don't crash test your family. 

Every 15 minutes someone in Australia and New Zealand is killed or seriously injured in a motor vehicle crash — 35,000 adults and children every year.

While road deaths have been declining, about five people per day still die each year on the roads.

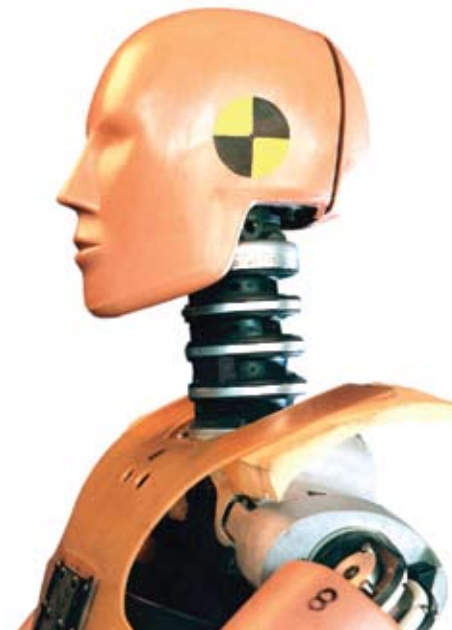
The cost to the community is estimated to be nearly AU\$50million a day.¹



Be guided by the stars.

ANCAP provides consumers with independent information on the level of occupant protection provided by vehicles in serious front and side crashes.

Since 1993 ANCAP has published crash test results for over 300 vehicles. These vehicles are awarded star ratings indicating the level of safety they provide in the event of a crash.



What is ANCAP?

Australasia's leading independent vehicle safety advocate.

The **Australasian New Car Assessment Program (ANCAP)** is supported by Australian and New Zealand Automobile clubs, Australian state governments, the New Zealand Government, the Victorian Transport Accident Commission, NRMA Insurance and the FIA Foundation (UK).

For consumers, ANCAP's independent crash test program provides comparative ratings on how different vehicle models protect occupants in the most common types of crashes. ANCAP is committed to raising the bar on vehicle safety.

The more stars, the better the vehicle performed in ANCAP tests.
ANCAP recommends 5 star rated vehicles.

ANCAP Member Organisations.



Why do star ratings matter?

Because when it comes to survival – not all cars are equal.

Structural integrity – how a vehicle's shell withstands and channels external force away from occupants in a crash – varies substantially from make to make and model to model. A sound structure is vital when it comes to saving lives.

Built-in safety features such as airbags, antilock braking systems (ABS), electronic stability control (ESC) and seat belt pre-tensioners help prevent or deal with the forces of impact. All are critical features.

The more stars, the better...



Rated ★★★★★



Rated ★★★★★



Rated ★★★★★



Rated ★★★★★



Rated ★★★★★

You have **twice the chance** of being killed or seriously injured in an ANCAP 1 star rated vehicle compared to an ANCAP 5 star rated vehicle.²

Check the star rating for your vehicle online at ancap.com.au or look for this ANCAP 'Stars on Cars' label at your local dealership.

VEHICLE CRASH TEST RATING



The more stars the better
the vehicle performed
in ANCAP crash testing.

Check your vehicle:
ancap.com.au



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Crash testing for safety
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PROGRAM

Star ratings explained.

Dummies provide vital information about the effects of a crash.

Head injuries, including brain trauma, are the major cause of death and serious injury in road crashes. The diagrams below show typical injuries to the driver and passenger in vehicles rated 1 to 5 ANCAP stars, in the offset frontal crash test. You have twice the chance of being killed or seriously injured in an ANCAP 1 star rated vehicle compared to an ANCAP 5 star rated vehicle.

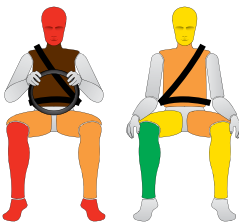
Key to injury diagrams.

- GOOD
- ACCEPTABLE
- MARGINAL
- WEAK
- POOR

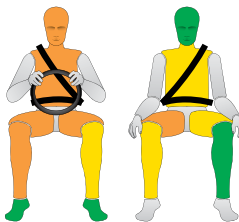
How will you survive?



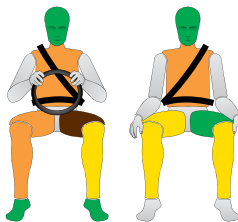
Rated ★★★★★



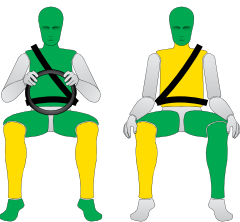
Rated ★★★★★



Rated ★★★★★



Rated ★★★★★



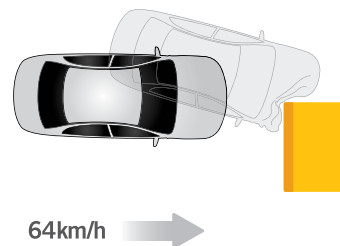
Rated ★★★★★



Crash testing explained.

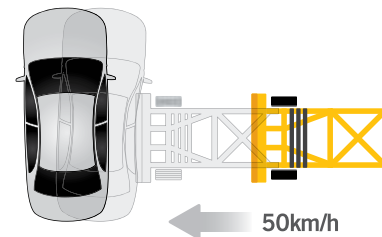
ANCAP uses four internationally recognised crash tests, undertaken by independent specialist laboratories.

In all tests, dummies are used to scientifically measure the various forces on occupants in the crash. The data gathered are then assessed, using internationally recognised protocols, and scores are determined for each crash test. Additionally, ANCAP awards bonus points to vehicles which have other safety features such as seat belt reminders. The overall score is then translated into a star rating of 1 to 5 stars, with higher scores awarded more stars.



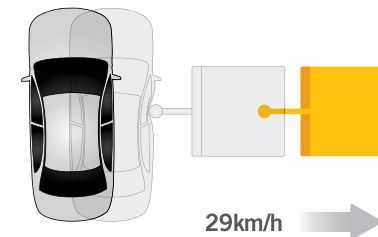
Frontal Offset Test

The frontal offset test simulates hitting another car of the same mass travelling at the same speed. 40% of the car, on the driver's side, makes contact with a crushable aluminium barrier at 64km/h. The vehicle has two adult dummies in the front seat; the rear seat has an 18 month old child dummy and a three year old child dummy, both in appropriate child restraints.



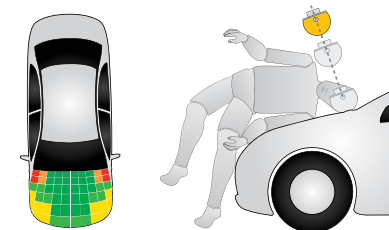
Side Impact Test

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



Pole Test

In the pole test the car is propelled sideways at 29km/h into a rigid steel pole, lined up with the driver's head. The pole is relatively narrow, resulting in major penetration into the side of the car. Curtain airbags are particularly effective in preventing injury in this type of crash.



Pedestrian Impact Test

The pedestrian impact tests are carried out to estimate head and leg injuries to pedestrians struck by the test vehicle at 40km/h. These crashes represent about 15% of fatal crashes in Australia and New Zealand.²



Safety systems.

Vehicles with sound structures and the best safety systems regularly score higher in ANCAP crash tests.

Passive safety systems use advanced automotive technology to help minimise the effects of a crash on occupants.

A vehicle with **strong structural integrity** channels the forces of a crash away from the occupants reducing the likelihood of injury.

When deployed in a crash, **airbags** significantly reduce the chance of death or serious injury. When buying a car look for front, side and curtain airbags for maximum safety.

All occupants should wear retractable three point sash style **seatbelts**. Lap belts are less safe.

Child restraints should be fitted and conform to Australian Standards, including anchor points.

Active safety systems use advanced automotive technology to assist drivers in avoiding a crash before it happens.

Electronic Stability Control (ESC) and **Antilock Braking Systems (ABS)** are two very important active safety systems. For a vehicle to earn a 5 star ANCAP rating it must be fitted with ABS and ESC.

ESC has many different names depending on the make of the vehicle but they all operate in the same manner. ESC may also be referred to as Electronic Stability Program (ESP), Dynamic Stability Control (DSC), Active Stability Control (ASC) or Vehicle Stability Control (VSC).

Research shows significant reductions in run-off-road crashes when ESC is fitted.³

Learn more about vehicle safety systems online at [ancap.com.au](https://www.ancap.com.au)



To search individual crash test results for over 300 vehicles, explore interactive features, watch videos, and to download images and media releases, visit the ANCAP website: **ancap.com.au**

You can also follow regular updates at: **twitter.com/ancapcrashtests**

Contact ANCAP at: **ancap@ancap.com.au**

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**Beware of cars with less than 4 stars.
Check your vehicle: ancap.com.au**

¹ AU\$50M includes Australia and New Zealand costs
<http://www.nisu.flinders.edu.au/pubs/reports/2008/injcat113.php>
http://www.infrastructure.gov.au/roads/safety/publications/2009/rsr_04.aspx
<http://www.ltsa.govt.nz/research/toll.html>
<http://www.infrastructure.gov.au/roads/safety/>

² Comparison of ANCAP results with Used Car Safety Ratings; ANCAP Research 2008

³ Preliminary evaluation of electronic stability control effectiveness in Australasia,
<http://www.monash.edu.au/muarc/reports/muarc271.html>



A N C A P

Crash testing for safety

AUSTRALASIAN
NEW CAR ASSESSMENT
PROGRAM

As Australasia's leading independent vehicle safety advocate, ANCAP provides consumers with transparent advice on vehicle safety through its star rating program.

Safer Drivers in Safer Cars on Safer Roads.

ancap.com.au