

# Crash Test Results

## New Car Safety

### TOYOTA PRADO

Dec 2009 on  
Front+side+head+knee airbags



Offset crash test at 64km/h



**ANCAP**  
Rated ★★★★★

**Occupant Protection**

**Occupant Protection Score 35.11 out of 37**

Variant: GX 5-door diesel Eng: 3 litre diesel

Kerb weight: 2280 kg Category: 4WD - LARGE

Vehicles built: 2010

#### Model History and Safety Features

The tested model of Toyota Prado was introduced in Australia during 2009.

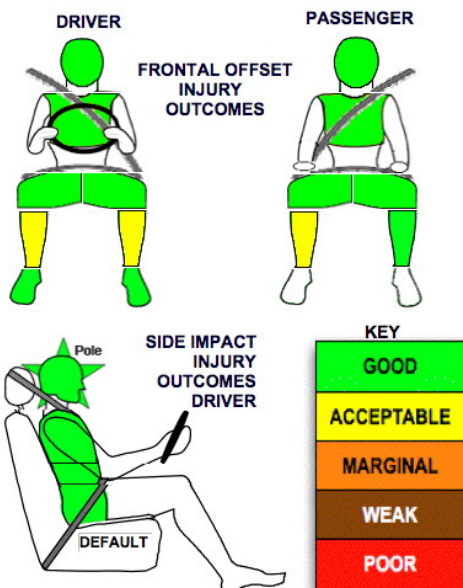
Dual front airbags, side airbags, head-protecting side curtains and knee airbags are standard equipment. Antilock brakes (ABS), electronic brake distribution (EBD), emergency brake assist (EBA) and electronic stability control (ESC) are also standard. Advanced seat belt reminders are fitted to both front seats.

Pretensioners are fitted to the front seat belts to reduce slack in the event of a crash. A three point seat belt is fitted to the centre rear seat. This provides better protection than a two point (lap) seat belt.

#### OCCUPANT PROTECTION: 5 Stars

The Prado scored 15.11 out of 16 in the offset crash test. The passenger compartment held its shape well. There was a slight risk of serious leg injury for the driver and passenger.

The vehicle was awarded a default score of 16 out of 16 in the side impact crash test. A further 2 points were scored in the optional pole test.



#### FRONTAL OFFSET CRASH TEST

Body region scores out of 4 points each: Head/neck 4.000 pts, chest 4.000 pts, upper legs 4.000 pts, lower legs 3.111 pts.

The passenger compartment held its shape well in the offset crash test. The clutch pedal moved rearwards by 85 mm and upwards 30 mm. The steering wheel hub moved 43mm forward, 30mm downward and 5 mm sideways. The front ("A") pillar moved 10 mm rearwards. All doors remained closed during the crash. After the crash the driver's door could be opened with normal effort.

The airbag cushioned the head of the driver and contact was stable. There were no knee hazards. The passenger's head was cushioned by the airbag.

#### SIDE IMPACT CRASH TEST

Body region default scores out of 4 points each: Head 4 pts, chest 4 pts, abdomen 4 pts, pelvis 4 pts.

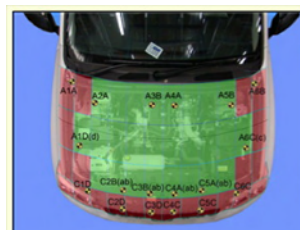
The side impact test normally used by ANCAP simulates a small car striking the driver's door of the vehicle under test. It is based on a regulation test but the regulation does not apply to vehicles with a high seat height like the Prado. Experience shows that such vehicles can be expected to perform well in this test so ANCAP has decided to award full score for these vehicles instead of conducting a crash test.

The vehicle scored two points in the optional pole test.

#### PEDESTRIAN PROTECTION

There was good protection for the child and adult head impact areas in the centre of the bonnet. Improvements could be made to the sides of the bonnet, bumper and leading edge of this vehicle.

PEDESTRIAN PROTECTION	Child head impacts	4.00
<b>MARGINAL</b>	Adult head impacts	9.00
	Upper leg impacts	0.00
	Lower leg impacts	0.00
	Total (out of 36)	13.00



Child and adult head impact



Adult leg impact (upper and full legforms)

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prado09.doc

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**ANCAP**

Crash testing for safety

AUSTRALASIAN  
NEW CAR ASSESSMENT  
PROGRAM

# TECHNICAL DATA - TOYOTA PRADO - Dec 2009 on

## INJURY MEASUREMENTS

Body region	Offset Crash Test at 64km/h (v5)		Side Impact Crash Test at 50km/h
	Driver	Passenger	Driver
<b>Head HIC</b>	240	233	Default score awarded
Acceleration (g for 3ms)	38.3	37.8	
<b>Neck - Shear (kN)</b>	0.49	-0.50	
Tension (kN)	1.24	0.88	
Extension (Nm)	17.0	14.2	
<b>Chest Accln (g for 3ms)</b>	39.300	36.000	
Compression (mm)	19.80	21.40	
Viscous criterion (m/s)	0.04	0.05	
<b>Abdomen - Force (kN)</b>	-	-	
<b>Pelvis - Force (kN)</b>	-	-	
<b>Upper legs Force (kN)</b>			
Left	1.57	0.33	
Right	1.17	0.70	
Knee displ (mm)			
Left	1.74	2.70	
Right	1.86	0.94	
<b>Lower legs Force (kN)</b>			
Left	1.65	1.24	
Right	3.21	1.53	
Index (Upper/Low)			
Left	0.28 /0.42	0.30 /0.27	
Right	0.53 /0.60	0.25/0.47	

### Bonus points (maximum 5)

Pole Test: 2pts

Seat belt reminders: 2 (see table below for details)

### Modifiers - deductions from offset test scores

Head	No deduction
Chest	No deduction
Upper leg	No deduction
Lower leg	No deduction
Foot score	Score 4 points

Note: Steering column and pedal movements are measured relative to the driver's seat.

### Modifiers - deductions from side impact test scores

Default score

### Safety features

These specifications are subject to change. Please check with manufacturer for the latest specifications.

Driver airbag	S	Antilock (ABS) brakes / Electronic brake distribution / Brake Assist	S/S/S
Passenger front airbag	S	Electronic stability control (ESC, VSC, DSC, ESP, VSA)	S#
Side airbags, front seats - chest protection	S	3 point centre rear seat belt	S
Side airbags, front seats - head protection	S	Whiplash Protection	Pending
Side airbags, rear seats - head protection	S	Intelligent seat belt reminder - driver	S
Driver knee airbag	S	Intelligent seat belt reminder - front passenger	S
Seat belt pretensioners (Front/rear outboard)	S/X	Intelligent seat belt reminder - rear seats	X

Key:

S = standard on all variants

O = optional on base variant. May be standard on higher variants

V= not available on base variant but standard or optional on higher variants

X = not available on any variant

# ESC required by ANCAP for 5 star rating from 2008

