

Crash Test Results

New Car Safety

TOYOTA TARAGO

From Oct 2010 Front+side+head+knee airbags



ANCAP Occupant Protection
Rated ★★★★★

Occupant Protection Score 34.45 out of 37

Variant: GLi

Eng: 2.4 litre

Kerb weight: 1730 kg

Category: People Mover

Vehicles built: 2006 & 2011

Model History and Safety Features

The tested model of Toyota Tarago was introduced in Australia during 2006. This 5 star ANCAP rating applies to all Taragos built from October 2010, when electronic stability control, side curtain airbags and a driver knee airbag became standard and to models built prior to then with these safety features in a Safety Pack.

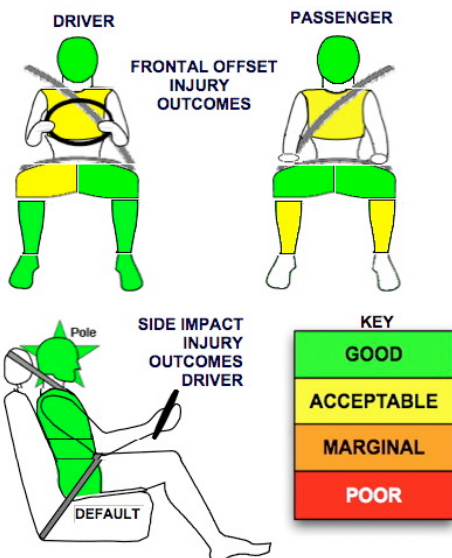
Dual front airbags, side airbags, head-protecting side curtains and a driver knee airbag are standard equipment from October 2010. Antilock brakes (ABS), electronic brakeforce distribution (EBD) and electronic stability control (ESC) are also standard. Intelligent seat belt reminders are fitted to both front seats.

Pre-tensioners are fitted to the front seat belts to reduce slack in the event of a crash. Three point seat belts are fitted to all seats. These provide better protection than a two point (lap) seat belt.

OCCUPANT PROTECTION: 5 Stars

The Tarago scored 14.45 out of 16 in the offset crash test. The passenger compartment held its shape well. There was a slight risk of serious chest and 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 and it earned 2 points in the pole test.



Offset crash test at 64km/h

FRONTAL OFFSET CRASH TEST

Body region scores out of 4 points each: Head/neck 4 pts, chest 3.38 pts, upper legs 1.2 pts, lower legs 3.87 pts.

The passenger compartment held its shape well in the offset crash test. The accelerator brake pedal moved rearwards by 57 mm. The park brake pedal moved upwards 53 mm. The steering wheel hub moved forwards 13mm, downwards 5mm and sideways 10 mm. The front ("A") pillar moved 29 mm rearwards. All doors remained closed during the crash. After the crash high manual effort was required to open the driver's door.

The airbag cushioned the head of the driver and contact was stable. The knee airbag eliminated the knee hazards that were found in the original crash test. The passenger's head was cushioned by the airbag.

SIDE IMPACT CRASH TEST

Default 16 points awarded for side impact test.

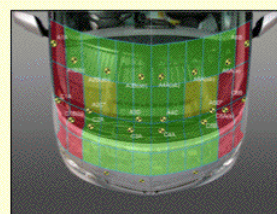
The side impact test normally used by ANCAP simulates a small car striking the driver's door of the vehicle under test. It is based on a regulation test but the regulation does not apply to vehicles with a high seat height like the Tarago. Experience shows that such vehicles can be expected to perform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

The upgraded vehicle was eligible for an optional pole impact test, since it had head-protecting side airbags. The vehicle earned the maximum two points in this test.

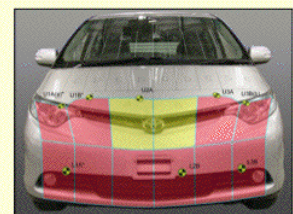
PEDESTRIAN PROTECTION: Marginal*

PEDESTRIAN PROTECTION	Child head impacts	8.00
MARGINAL v4.1*	Adult head impacts	7.57
	Upper leg impacts	0.76
	Lower leg impacts	Zero
	Total (out of 36)	16.33

* Based on tests to a previous protocol. Scores might vary under the latest test protocol.



Child and adult head impact



Adult leg impact (upper and full legforms)

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tarago11.doc

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ANCAP

Crash testing for safety

AUSTRALASIAN
NEW CAR ASSESSMENT
PROGRAM

www.ancap.com.au

TECHNICAL DATA - TOYOTA TARAGO - From October 2010

INJURY MEASUREMENTS

Body region	Offset Crash Test at 64km/h (v4.1)		Side Impact Crash Test at 50km/h (v4.1)
	Driver	Passenger	Driver
Head HIC	379	333	Default Score awarded
Acceleration (g for 3ms)	47.2	44.9	
Neck - Shear (kN)	0.36	0.88	
Tension (kN)	1.02	1.60	
Extension (Nm)	15.5	25.7	
Chest Accln (g for 3ms)	40.000	37.700	
Compression (mm)	26.33	23.70	
Viscous criterion (m/s)	0.09	0.12	
Abdomen - Force (kN)	-	-	
Pelvis - Force (kN)	-	-	
Upper legs Force			
Left (kN)	0.20	0.10	
Right (kN)	4.85	0.32	
Knee displ (mm)			
Left	1.10	0.52	
Right	0.85	2.85	
Lower legs Force			
Left (kN)	1.88	2.04	
Right (kN)	0.97	1.56	
Index (Upper/Low)			
Left	0.26 /0.37	0.41 /0.25	
Right	0.38 /0.40	0.34/0.43	

Bonus points (maximum 5)

Pole Test: 2 pts

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

Modifiers - deductions from offset test scores

Head	No deduction
Chest	No deduction
Upper leg Variable & conc. loading	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 awarded

Safety features (from October 2010)

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	Not tested
Side airbags, rear seats - head protection	S	Intelligent seat belt reminder - driver	S
Driver knee airbag	S	Intelligent seat belt reminder - front passenger	S
Front seat belt pretensioners front/rear	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