

# ANCAP Safety Rating

## TOYOTA KLUGER (November 2016 - onwards)



Toyota Kluger

### This ANCAP safety rating applies to:

Make / Model	Toyota Kluger
Year Range	November 2016 - onwards
Variant(s)*	All variants
Vehicle Type	Large SUV

The tested model of Toyota Kluger was introduced in Australia and New Zealand in 2014. This ANCAP safety rating applies to all variants built from November 2016.

Dual frontal, side chest and side head-protecting airbags (curtains) and a driver knee airbag are standard. Autonomous Emergency Braking (AEB) and Lane Support Systems (LSS) are available on some variants. Advanced seat belt reminders are fitted to the front and second row seats. Third row seats do not have seat belt reminders but are protected by head-protecting side airbags (curtains). A full list of safety features and technologies can be viewed within the *Safety Features & Technologies* table on page 2 of this report.

### Injury Outcomes.

#### Frontal Offset

Driver Passenger



#### Side Impact & Pole#



#### Whiplash Protection



# Head protection only.

### Test Results Summary.

Airbags	Dual Frontal, Side, Head, Knee
Frontal Offset Test	14.97 (out of 16)
Side Impact Test	16.00 (out of 16)
Pole Test	2.00 (out of 2)
Whiplash Protection	Good
Pedestrian Protection	Marginal
ESC	Standard
Seat Belt Reminders	2.60 (out of 3)
Overall Score	35.57 (out of 37)
ANCAP Safety Rating	★★★★★
Rating Year <sup>^</sup>	2014

### Occupant Protection.

#### Frontal Offset Test

Each body region is scored out of 4 points

Head / neck:	4.00 points
Chest:	3.27 points
Upper legs:	4.00 points
Lower legs:	3.71 points

The passenger compartment held its shape well in the frontal offset test. Pedal and steering wheel displacements were well controlled. Driver and passenger contact with the airbags was stable. All doors remained closed during the crash. After the crash the driver door could be opened with high manual effort.

#### Side Impact Test

Each body region is scored out of 4 points

Head:	4.00 points
Chest:	4.00 points
Abdomen:	4.00 points
Pelvis:	4.00 points

The side impact test normally used by ANCAP simulates a small car striking the driver's door of the test vehicle. Experience shows that large vehicles like the Kluger can be expected to perform well in this test. ANCAP has adopted a policy of awarding these types of vehicles a default score of 16 points (out of 16).

#### Pole Test

Scored out of 2 points

Score:	2.00 points
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The Toyota Kluger was eligible for a side pole test because it has side head-protecting airbags. There was good head protection for the driver in the side pole test.

#### Whiplash Protection Test

Whiplash protection is assessed to the RCAR Protocol

Geometric test:	Good
Dynamic test:	Good
Overall whiplash rating:	Good

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### Pedestrian Protection.

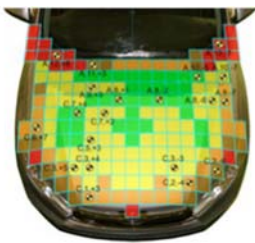
#### Pedestrian Test

Scored out of 36 points

Adult & child head impacts: 14.80 points  
 Upper leg impacts: 0.00 points  
 Lower leg impacts: 2.24 points

This vehicle scored 17.04 out of 36 points (Marginal). Some points have been gained in the central area of the bonnet. Many improvements to the bumper and leading edge of the bonnet could be made that would result in better performance for this vehicle. (v6.0)

#### Child and adult head impact



#### Adult leg impact (upper and full legforms)



### Score Deductions.

#### Deductions from frontal offset test scores

Head / neck: No deductions  
 Chest: No deductions  
 Upper legs: No deductions  
 Lower legs: No deductions

#### Deductions from side impact test score

Head / neck: No deductions  
 Chest: No deductions  
 Abdomen: No deductions  
 Pelvis: No deductions

#### Deductions from pole test score

Head: No deductions

### Safety Features & Technologies.

Descriptions of each of these safety features and safety assist technologies (SAT) and detail on fitting requirements for each star rating level can be found at [ancap.com.au](http://ancap.com.au).

Safety Feature / Safety Assist Technology	Availability
Seat belts (three-point, lap/sash) for all forward-facing seats	S
Seat belt pretensioners (front)	S
Seat belt pretensioners (rear outboard)	X
Intelligent seat belt reminder (driver)	S
Intelligent seat belt reminder (front passenger)	S
Intelligent seat belt reminder (2 <sup>nd</sup> row seats)	S
Intelligent seat belt reminder (3 <sup>rd</sup> row seats)	X
Airbag - Frontal (driver)	S
Airbag - Frontal (passenger)	S
Airbag - Side, chest protection (front seats)	S
Airbag - Side, chest protection (2 <sup>nd</sup> row seats)	X
Airbag - Side, chest protection (3 <sup>rd</sup> row seats)	X
Airbag - Side, head protection (front seats)	S
Airbag - Side, head protection (2 <sup>nd</sup> row seats)	S
Airbag - Side, head protection (3 <sup>rd</sup> row seats)	S
Airbag - Knee (driver)	S
Airbag - Knee (front passenger)	X
Head restraints for all seats	S
Adaptive cruise control (ACC)	V
Antilock braking system (ABS)	S
Autonomous emergency braking (AEB)	
- City	V
- Interurban	V
- Vulnerable road user	X
Automatic headlights	S
Automatic high beam	V
Blind spot monitoring (BSM)	V
Electronic brakeforce distribution (EBD)	S
Electronic stability control (ESC)	S
Emergency brake assist (EBA)	S
Emergency Stop Signal (ESS)	S
Fatigue detection	V
Lane support system (LSS)	V
Daytime running lights (DRL)	S
Hill launch assist	S
Pre-crash systems	V
Reversing collision avoidance	S
Speed assistance – automatic / intelligent speed limiting (ISA)	X
Speed assistance - manual speed limiting	X
Speed assistance - speed sign recognition & warning	X
Tyre pressure monitoring system (TPMS)	X

**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.  
**E** = Available in Europe but not available on any Australasian variant.

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

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### Injury Values & Measurements.

Body Region	Frontal offset test at 64 km/h (v5.1)		Side impact test at 50 km/h (v5.1)	
	Driver	Passenger	Driver	
<b>Head</b>				
HIC	328.00	243.00	HIGH-SEAT VEHICLE DEFAULT SCORE AWARDED	
Acceleration (g for 3ms)	42.30	40.50		
<b>Neck</b>				
Shear (kN)	0.39	0.00		
Tension (kN)	1.74	1.10		
Extension (Nm)	23.00	20.40		
<b>Chest</b>				
Acceleration (g for 3ms)	-	-		
Compression (mm)	27.14	23.14		
Viscous criterion (m/s)	0.13	0.09		
<b>Abdomen</b>				
Force (kN)	-	-		
<b>Pelvis</b>				
Force (kN)	-	-		
<b>Upper legs</b>				
Femur force left (kN)	1.28	0.87		
Femur force right (kN)	1.01	2.21		
Knee displacement left (mm)	2.73	3.14		
Knee displacement right (mm)	1.82	2.01		
<b>Lower legs</b>				
Force left (kN)	2.44	1.62		
Force right (kN)	2.02	1.95		
Index (upper / lower) left	0.25 / 0.24	0.45 / 0.30		
Index (upper / lower) right	0.39 / 0.45	0.35 / 0.19		
<b>Intrusion Measurements*</b>				
<b>Steering column</b>				
Forward (mm)	52			
Upward (mm)	31			
Sideways (mm)	27			
<b>Pedals</b>				
Accelerator - rearward (mm)	42			
Accelerator - upward (mm)	39			
<b>A-Pillar</b>				
Rearward (mm)	3			

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

\* **Model Variants:** ANCAP safety ratings do not automatically extend to variants that have different body styles, engine configurations, driven wheels or occupant restraint systems (e.g. fewer airbags). In these cases, ANCAP considers technical evidence submitted by manufacturers before deciding on extending a rating to additional variants of a model. For further information about the application of ANCAP safety ratings to model variants, see the ANCAP Variant Policy.

^ **Rating Year:** The Rating Year denotes the year requirements against which a vehicle has been assessed. The Rating Year is determined by ANCAP and may be based on the year in which a new vehicle model is first launched into the Australian and/or New Zealand markets; the year in which the vehicle was tested (if tested by Euro NCAP); or, for vehicles which hold an existing ANCAP safety rating, the year in which the rating was updated (or earlier applicable year).

### Assessment Details.

Tested Make / Model	Toyota Kluger
Tested Vehicle(s) Built	2014
Tested Body Type	Wagon
Tested Vehicle Kerb Weight	1930 kg
Tested Vehicle Engine	3.5 litre petrol
Tested By	ANCAP
Assessed By	ANCAP
Document Reference	KLUGER17
Document Created / Revised	5 April 2017
Rating Published	April 2017
Rating Updated	n/a



Frontal offset test at 64km/h