

ANCAP Safety Rating: LEXUS RX (October 2015 - onwards)



Frontal offset test at 64km/h (Euro NCAP)

This ANCAP safety rating applies to:

Make / Model	Lexus RX
Year Range	October 2015 - onwards
Variants*	All variants
Vehicle Type	Large SUV

The tested model of Lexus RX was introduced in Australia and New Zealand in October 2015. This ANCAP safety rating applies to all variants.

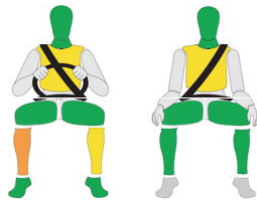
Dual frontal, side chest and side head airbags (curtains) and a driver knee airbag are standard. Advanced seat belt reminders are fitted to all seats. Advanced crash-avoidance features including Autonomous Emergency Braking (AEB) are available as standard.

Injury Outcomes.

Full Width Frontal



Frontal Offset



Side Impact



Pole



Whiplash Protection



Test Results Summary.

Airbags	Dual Frontal, Side, Head, Knee
Adult Occupant Protection	83% (31.8 out of 38)
- Full Width Frontal Test [#]	7.07 (out of 8)
- Frontal Offset Test [#]	6.67 (out of 8)
- Side Impact Test [#]	8.00 (out of 8)
- Pole Test [#]	7.63 (out of 8)
- Whiplash Protection Test	2.40 (out of 3)
- AEB (City)	0.00 (out of 3)
Child Occupant Protection	82% (40.3 out of 49)
Safety Assist	74% (9.7 out of 13)
- Speed Assistance System	0.00 (out of 3)
- ESC	3.00 (out of 3)
- Seat Belt Reminders	3.00 (out of 3)
- Lane Support System	1.00 (out of 1)
- AEB (Interurban)	2.71 (out of 3)
Pedestrian Protection	79% (28.7 out of 36) GOOD
ANCAP Safety Rating	★★★★★
Rating Year[^]	2015

- Scaled scores. Total test scores out of 16.00 points

Adult Occupant Protection.

Full Width Frontal Test

Each body region is scored out of 4 points

Driver		Rear Passenger	
Head:	4.00 points	Head:	4.00 points
Neck:	4.00 points	Neck:	3.74 points
Chest:	3.24 points	Chest:	1.28 points
Upper legs:	4.00 points	Upper legs:	4.00 points

Frontal Offset Test

Each body region is scored out of 4 points

Driver/Front passenger	
Head / neck:	4.00 points
Chest:	2.73 points
Upper legs:	4.00 points
Lower legs:	2.61 points

The passenger compartment held its shape well in the 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.

Side Impact Test

Pole Test

Each body region is scored out of 4 points

Head:	4.00 points	Head:	4.00 points
Chest:	4.00 points	Chest:	3.26 points
Abdomen:	4.00 points	Abdomen:	4.00 points
Pelvis:	4.00 points	Pelvis:	4.00 points

Good protection was provided for the driver in the side impact test. There was a slight risk of serious chest injury in the oblique pole test

Whiplash Protection

Front / Rear:	1.65 points
Rear:	0.75 points
AEB (City):	0.00 points

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Child Occupant Protection.

Crash Test Performance

18 month old child: 12.00 points
3 year old child: 9.30 points

Child Safety Features

Safety features: 7 points
Installation check: 12 points

NOTE: The child restraints tested by Euro NCAP are relevant to the European market. For Australasian consumers, this information should be used as a guide to vehicle features only. For more detailed information about Australian child restraints visit childcarseats.com.au.

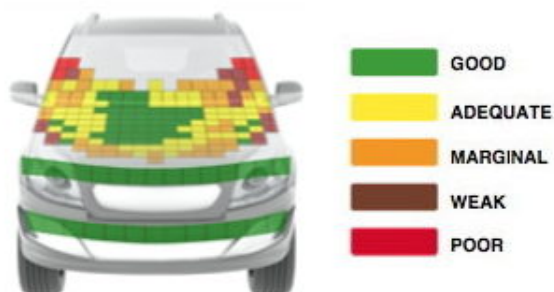
Pedestrian Protection.

Pedestrian Test

Scored out of 36 points

Adult & child head impacts: 16.67 points
Upper leg impacts: 6.00 points
Lower leg impacts: 6.00 points

This vehicle scored 28.67 out of 36 points (Good). The RX scored maximum points for the protection provided to pedestrians' legs and to the pelvic region, with good results being recorded on the bumper and front edge of the bonnet. Head protection was predominantly good or adequate with only a few poor results recorded on the stiff windscreen pillars. (Tested by Euro NCAP v8)



Score Deductions.

Deductions from full width frontal test scores

Neck: No deductions
Head: No deductions
Chest: No deductions
Upper legs: No 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

Chest: 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.

Safety Feature / Safety Assist Technology	Availability
Seat belts (three-point) for all forward-facing seats	S
Seat belt pretensioners (front)	S
Seat belt pretensioners (rear outboard)	S
Intelligent seat belt reminder (driver)	S
Intelligent seat belt reminder (front passenger)	S
Intelligent seat belt reminder (2 nd row seats)	S
Airbag - Front (driver)	S
Airbag - Front (passenger)	S
Airbag - Side, chest protection (front seats)	S
Airbag - Side, chest protection (2 nd row seats)	S
Airbag - Side, head protection (front seats)	S
Airbag - Side, head protection (2 nd row seats)	S
Airbag - Knee (driver)	S
Airbag - Knee (front passenger)	X
Head restraints for all seats	S
Adaptive cruise control (ACC)	S
Adaptive front lighting systems	V
AEB (Autonomous Emergency Braking) - City	S*
AEB - Interurban	S
AEB - Vulnerable road user	X
Antilock braking system (ABS)	S
Attention assist/fatigue reminder	S
Automatic headlights	S
Automatic high beam	S
Blind spot monitoring	S
Daytime running lights (DRL)	S
Electronic brakeforce distribution (EBD)	S
Electronic stability control (ESC)	S
Emergency brake assist (EBA)	S
Emergency stop signal	S
Following distance warning	S
Hill launch assist	S
Lane support system (LSS)	S
Pre-crash systems	S
Rain-sensing windscreen wipers	S
Reversing collision avoidance	S
Speed assistance - automatic speed limiting (ISA)	X
Speed assistance - manual speed limiting	X
Speed assistance - speed sign recognition & warning	E
Tyre pressure monitoring system (TPMS)	E

* AEB - city is standard on Australasian vehicles but is not eligible for points due to reduced performance at low speeds

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

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 / USA but not available on any Australasian variant.

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Safety Assist.

Speed Assistance System (SAS)

Scored 0 out of 3 points

Speed limit information:	Not available in Australasia
Speed assistance (manual):	0
Intelligent speed assistance:	0

Euro NCAP awarded points for a camera-based speed sign recognition system. The Australasian RX does not have this function.

Electronic Stability Control (ESC)

Scored 3.0 out of 3 point

AEB (Interurban)

Scored 2.71 out of 3 points

Autonomous emergency braking:	1.50 out of 1.5
Forward collision warning:	0.96 out of 1.0
Human machine interface:	0.25 out of 0.5

Seat Belt Reminder (SBR)

Scored 3.0 out of 3 points

Driver and passenger:	Pass
Rear:	Pass

Lane Support Systems (LSS)

Scored 1.0 out of 1 point

Lane keep assist:	Pass
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Safety Assist Comments

Australasian models have different AEB performance to the European model tested by Euro NCAP. ANCAP was provided with evidence that the performance of AEB-interurban was still adequate to give a total Safety Assist score needed for 5 stars.

The Australasian AEB-city system does not meet low-speed test requirements and so scored zero for Adult Occupant Protection.

Speed sign recognition is available in Europe but not Australasia.

Approaching a stationary vehicle: 15.94 out of 18 for Forward Collision Warning (FCW)



Approaching a slow moving vehicle: 11 out of 11 for AEB, 11 out of 11 for FCW



Approaching a braking vehicle with short headway: 2 out of 2 for AEB, 2 out of 2 for FCW



Approaching a braking vehicle with long headway: 2 out of 2 for AEB, 2 out of 2 for FCW



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Injury Values & Measurements.

Body Region	Frontal offset test at 64km/h (v7)		Full width frontal test at 50km/h (v1)		Side impact test at 50km/h (v7)	Oblique Pole test at 32km/h (v7)
	Driver	Front Passenger	Driver	Rear Passenger	Driver	Driver
Head						
HIC	171.00	178.00	266.00	335.00	18.00	178.22
Acceleration (g for 3ms)	42.50	44.00	51.20	58.70	17.80	43.25
Neck						
Shear (kN)	0.74	0.40	0.36	0.78	-	-
Tension (kN)	1.26	0.96	1.41	1.94	-	-
Extension (Nm)	18.90	20.80	13.60	13.80	-	-
Chest						
Acceleration (g for 3ms)	-	-	-	-	-	-
Compression (mm)	28.35	23.68	22.54	34.32	3.52	32.06
Viscous criterion (m/s)	0.12	0.08	0.14	0.20	0.00	0.38
Abdomen						
Compression (mm)	-	-	-	-	8.12	34.58
Pelvis						
Force (kN)	-	-	-	-	0.35	-
Upper legs						
Femur force left (kN)	1.60	1.28	2.19	0.25	-	-
Femur force right (kN)	1.37	0.34	2.51	0.47	-	-
Knee displacement left (mm)	1.89	4.89	1.80	0.27	-	-
Knee displacement right (mm)	2.95	1.30	3.67	0.78	-	-
Lower legs						
Force left (kN)	2.29	1.99	-	-	-	-
Force right (kN)	4.08	1.75	-	-	-	-
Index (upper / lower) left	0.38 / 0.47	0.36 / 0.37	-	-	-	-
Index (upper / lower) right	0.48 / 0.37	0.26 / 0.18	-	-	-	-
Intrusion Measurements						
Steering column						
Forward (mm)	66	-	-	-	-	-
Downward (mm)	30	-	-	-	-	-
Sideways (mm)	6	-	-	-	-	-
Pedals						
Brake - rearward (mm)	9	-	-	-	-	-
Accelerator - downward (mm)	14	-	-	-	-	-
A-Pillar						
Rearward (mm)	6	-	-	-	-	-

* 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.

^ 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	Lexus RX 450h LHD
Tested Vehicle(s) Built	2015
Tested Body Type	WAGON
Tested Vehicle Kerb Weight	2160 kg
Tested Vehicle Engine	3.5 petrol hybrid
Tested By	Euro NCAP
Assessed By	Euro NCAP
Document Reference	RX15
Document Created / Revised	18 December 2015
Rating Published	18 January 2016

