

ANCAP Safety Rating

LEXUS NX (October 2017 - onwards)



Lexus NX

This ANCAP safety rating applies to:

Make / Model	Lexus NX
Year Range	October 2017 - onwards
Variant(s)*	All variants
Vehicle Type	Medium SUV

The tested model of Lexus NX was introduced in Australia and New Zealand in October 2014. This ANCAP safety rating applies to all variants built from September 2017 and on sale from October 2017 when several safety upgrades were introduced.

Dual frontal, side chest, side head-protecting (curtain) and driver knee airbags are standard. Autonomous emergency braking (AEB) and lane support systems (LSS) are also standard. 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



Side Impact & Pole#



Whiplash Protection



Head protection only.

Test Results Summary.

Airbags	Dual Frontal, Side, Head, Knee
Frontal Offset Test	14.39 (out of 16)
Side Impact Test	16.00 (out of 16)
Pole Test	2.00 (out of 2)
Whiplash Protection	Good
Pedestrian Protection	Acceptable
ESC	Standard
Seat Belt Reminders	3.00 (out of 3)
Overall Score	35.39 (out of 37)
ANCAP Safety Rating	★★★★★
Rating Year^	2017

Occupant Protection.

Frontal Offset Test

Each body region is scored out of 4 points

Head / neck:	4.00 points
Chest:	3.10 points
Upper legs:	4.00 points
Lower legs:	3.29 points

The passenger compartment held its shape well in the frontal offset test. Pedal and steering wheel displacements were well controlled but the accelerator pedal was blocked resulting in acceptable protection offered to the driver's feet. Driver and passenger contact with the airbags was stable. All doors remained closed during the crash.

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

Good protection was provided for the driver in the side impact test. The side airbags performed well.

Pole Test

Scored out of 2 points

Score:	2.00 points
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The vehicle was eligible for a pole test because it has side curtain airbags. The vehicle scored the maximum 2 points for head protection in this 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: 18.84 points
 Upper leg impacts: 0.12 points
 Lower leg impacts: 6.00 points

This vehicle scored 24.96 out of 36 points (Acceptable). The bumper showed good or adequate protection to pedestrians' legs. However, the front edge of the bonnet scored no points providing poor protection to the pelvis region. Tests results on the bonnet surface were predominantly good or adequate with poor results recorded only at the base of the windscreen and on the stiff windscreen pillars.

(Tested by Euro NCAP v7)



Score Deductions.

Deductions from frontal offset test scores

Head / neck: No deductions
 Chest: No deductions
 Upper legs: No deductions
 Lower legs / feet: -0.12 point deduction (blocked pedal)

Deductions from side impact test score

Chest: No deduction

Deductions from pole test score

Head: No deduction

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)	X
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)	X
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
Antilock braking system (ABS)	S
Autonomous emergency braking (AEB)	
- City	S
- Interurban	S
- Vulnerable road user	S
Automatic headlights	S
Automatic high beam	S
Blind spot monitoring (BSM)	V
Electronic brakeforce distribution (EBD)	S
Emergency stop signal (ESS)	S
Electronic stability control (ESC)	S
Emergency brake assist (EBA)	S
Lane support system (LSS)	S
Daytime running lights (DRL)	S
Reversing collision avoidance	S
Hill launch assist	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)	S

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 but not available on any Australasian variant.

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Injury Values & Measurements.

Body Region	Frontal offset test at 64 km/h (v6)		Side impact test at 50 km/h (v6)
	Driver	Passenger	Driver
Head			
HIC	355.00	245.00	34.00
Acceleration (g for 3ms)	49.80	40.30	20.30
Neck			
Shear (kN)	0.56	0.49	-
Tension (kN)	1.55	0.59	-
Extension (Nm)	18.40	31.80	-
Chest			
Acceleration (g for 3ms)	-	-	-
Compression (mm)	28.32	18.30	18.28
Viscous criterion (m/s)	0.00	0.00	0.12
Abdomen			
Force (kN)	-	-	0.24
Pelvis			
Force (kN)	-	-	1.12
Upper legs			
Femur force left (kN)	1.17	0.14	
Femur force right (kN)	1.49	0.18	
Knee displacement left (mm)	1.17	0.63	
Knee displacement right (mm)	3.28	0.78	
Lower legs			
Force left (kN)	1.91	1.92	
Force right (kN)	1.62	2.43	
Index (upper / lower) left	0.40 / 0.23	0.47 / 0.56	
Index (upper / lower) right	0.28 / 0.26	0.51 / 0.34	
Intrusion Measurements*			
Steering column			
Forward (mm)	46		
Upward (mm)	14		
Sideways (mm)	1		
Pedals			
Accelerator - rearward (mm)	82		
Accelerator - upward (mm)	46		
A-Pillar			
Rearward (mm)	6		

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

* 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 NX 300h AWD LHD
Tested vehicle(s) Built	2014
Tested Body Type	SUV
Tested Vehicle Kerb Weight	1810 kg
Tested Vehicle Engine	Hybrid
Tested By	Euro NCAP
Assessed By	ANCAP
Document Reference	NX17
Document Created / Revised	24 October 2017
Rating Published	October 2017
Rating Updated	n/a



Frontal offset test at 64km/h