

ANCAP Safety Rating LEXUS CT200H (From December 2013)



ANCAP

Safety ★★★★★



Test Vehicle(s).

Test Variant:	Lexus CT200h
Kerb Mass:	1410 kg
Built:	2011
Engine:	1.8L Hybrid
Category:	Medium Car
Variant Applicability*:	All variants



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

Airbags	ESC	Frontal Offset	Side Impact	Pole	Whiplash	Pedestrian	Seat Belt Reminders	Overall Score	ANCAP Safety Rating
Frontal + Side + Head + Knee	Standard	15.13 (out of 16)	16.00 (out of 16)	2 (out of 2)	GOOD	ACCEPTABLE	3 (out of 3)	36.13 (out of 37)	★★★★★

The Lexus CT200h was introduced in Australia and New Zealand in March 2011. This ANCAP safety rating applies to all variants built from December 2013. A 5 star ANCAP safety rating also applies to all previous CT200h variants.

Dual frontal, side chest and side head airbags (curtains) and a driver knee airbag are standard. Antilock brakes (ABS), electronic brake distribution (EBD) and electronic stability control (ESC) are also standard. Advanced seat belt reminders are fitted to all seats.

In the offset crash test driver chest and leg protection was acceptable. Passenger leg protection was also acceptable in this test. In the side impact crash test driver protection was good. Head protection in the side pole test was good.

OCCUPANT PROTECTION

Frontal Offset Test.

Each body region is scored out of 4 points

Head / neck:	4.00 points
Chest:	3.50 points
Upper legs:	4.00 points
Lower legs:	3.63 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.

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

The vehicle was eligible for a side 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

Injury Outcomes.

Frontal Offset
Driver



Passenger



Side Impact & Pole
Driver



Whiplash





PEDESTRIAN PROTECTION

Pedestrian Test.

ACCEPTABLE - Scored 19.71 out of 36 points

Child head impacts: 9.00 points
 Adult head impacts: 4.52 points
 Upper leg impacts: 0.19 points
 Lower leg impacts: 6.00 points

The bumper provided good protection to pedestrians' legs, scoring maximum points in Euro NCAP's tests. However, the front edge of the bonnet was poor in nearly all of the areas tested. In most areas likely to be struck by the head of a child the bonnet offered a good level of protection but, while good in places, was rated as poor or marginal in most areas where an adult's head might strike. (Tested by Euro NCAP v5.3)



Lexus CT200h

SAFETY FEATURES (FROM DECEMBER 2013)

These specifications are subject to change. Please check with manufacturer for the latest specifications. For a description of these safety features and safety rating requirements see the ANCAP Rating Road Map.

Safety Assist Technology (SAT)	Availability
Front airbag - driver	S
Front airbag - passenger	S
Side airbags (chest protection) - front seats	S
Side airbags (head protection) - front seats	S
Side airbags (head protection) - 2nd row seats	s
Knee airbag - driver	S
Three-point seat belts for all forward facing seats	S
Seat belt pretensioners (front / rear outboard)	S / X
Intelligent seat belt reminder - driver	S
Intelligent seat belt reminder - front passenger	S
Intelligent seat belt reminder - 2nd row seats	S
Head restraints for all seats	S
Antilock brakes (ABS)	S
Electronic brake distribution (EBD)	S
Emergency brake assist (EBA)	S
Electronic stability control (ESC)	S
Adaptive cruise control (ACC)	V
Autonomous emergency braking (AEB)	V
Lane support system	X
Pre-crash systems	V
Smart key	S
Daytime running lights	S
Emergency stop signal	S
Hill launch assist	S
Reversing collision avoidance	S

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.



INJURY MEASUREMENTS

Body Region	Frontal offset test at 64 km/h (v5.3)		Side impact test at 50 km/h (v5.3)
	Driver	Passenger	Driver
Head			
HIC	234.00	107.00	44.00
Acceleration (g for 3ms)	36.00	28.60	25.00
Neck			
Shear (kN)	0.22	0.44	-
Tension (kN)	0.45	0.51	-
Extension (Nm)	16.80	13.70	-
Chest			
Acceleration (g for 3ms)	-	-	-
Compression (mm)	25.51	14.20	15.27
Viscous criterion (m/s)	0.07	0.07	0.06
Abdomen			
Force (kN)	-	-	0.57
Pelvis			
Force (kN)	-	-	1.84
Upper legs			
Femur force left (kN)	1.40	1.00	
Femur force right (kN)	1.63	1.20	
Knee displacement left (mm)	0.20	2.00	
Knee displacement right (mm)	0.20	2.50	
Lower legs			
Force left (kN)	2.55	1.72	
Force right (kN)	2.13	2.16	
Index (upper / lower) left	0.28 / 0.32	0.17 / 0.31	
Index (upper / lower) right	0.30 / 0.25	0.31 / 0.21	

INTRUSION MEASUREMENTS

Steering Column

Forwards:	17mm
Downwards:	43mm
Sideways:	4mm

Pedals

Brake (forwards):	23mm
Accelerator (upwards):	56mm

A-Pillar (rearwards):	21mm
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SCORE DEDUCTIONS

Deductions from frontal offset test scores

No deductions for offset test

Deductions from side impact test score

No deductions for side impact test.

Deductions from pole test score

No deductions for pole test.

* For information about the application of ANCAP ratings to model variants see the ANCAP Variant Policy. In brief, 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.

^ Refer ANCAP Rating Road Map (www.ancap.com.au/media).

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