

Crash Test Results

New Car Safety

LEXUS CT200h

From 2011 Front+side+head+knee airbags



Offset crash test at 64km/h

FRONTAL OFFSET CRASH TEST

Body region scores out of 4 points each: Head/neck 4 pts, chest 3.5 pts, upper legs 4 pts, lower legs 3.6pts.

The passenger compartment held its shape well in the offset crash test. The brake pedal moved forwards by 23mm. The accelerator pedal moved upwards 55.8mm. The steering wheel hub moved 16mm forward, 42.8mm downward and 4.2mm sideways. The front ("A") pillar moved 21mm rearwards. All doors remained closed during the crash. After the crash the driver's door could be opened with normal effort.

The airbag cushioned the head of the driver and contact was stable. The passenger's head was cushioned by the airbag. The driver knee airbag protected the driver's knees. There were no knee hazards.

SIDE IMPACT CRASH TEST

Body region scores out of 4 points each: Head 4 pts, chest 4 pts, abdomen 4 pts, pelvis 4 pts.

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

PEDESTRIAN PROTECTION: ACCEPTABLE

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.



ANCAP
Rated ★★★★★

Occupant Protection

Occupant Protection Score 36.13 out of 37

Variant: 'Comfort' 5 dr hatch Eng: 1.8L petrol-hybrid
Kerb mass 1410kg Category: Car - Medium
Vehicles built: 2011 Tested by Euro NCAP

Important note: The *right-hand-drive* European model was tested by Euro NCAP. Australasian specifications may vary and therefore models sold in Australasia might provide different levels of protection to those described on this page.

Model History and Safety Features

The tested model of the CT200h was introduced in Australia during 2011.

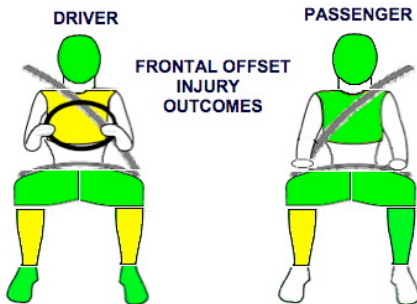
Dual front airbags, side airbags and head-protecting side curtains are standard equipment. Antilock brakes (ABS), electronic brakeforce distribution (EBD) and electronic stability control (ESC) are also standard. Intelligent seat belt reminders are fitted to both front seats.

Pretensioners are fitted to the front seat belts to reduce slack in the event of a crash. A three point seat belt is fitted to the centre rear seat. This provides better protection than a two point (lap) seat belt.

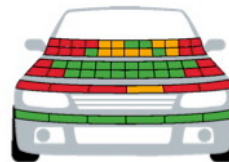
OCCUPANT PROTECTION: 5 Stars

The CT200h scored 15.13 out of 16 in the offset crash test. The passenger compartment held its shape well. There was a slight risk of serious leg injury for the driver and passenger and a slight risk of serious chest injury for the driver.

The vehicle scored 16 out of 16 in the side impact crash test and a further two points were scored in the pole test.



Whiplash Protection



GREEN PASS
YELLOW MARGINAL
RED FAIL

PEDESTRIAN PROTECTION	Child head impacts	9.0
ACCEPTABLE	Adult head impacts	4.524
	Upper leg impacts	0.190
	Lower leg impacts	6.0
	Total (out of 36)	19.71

Tested by Euro NCAP v5.1

AUGUST 2011

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CT200h11.doc
Revised 16/9/2011



ANCAP
Crash testing for safety

AUSTRALASIAN
NEW CAR ASSESSMENT
PROGRAM

TECHNICAL DATA - Lexus CT200h - From 2011

INJURY MEASUREMENTS

Body region	Offset Crash Test at 64km/h (v5.1)		Side Impact Crash Test at 50km/h (v5.1)
	Driver	Passenger	Driver
Head HIC	234.14	107.4	44
Acceleration (g for 3ms)	38.88	31.45	25
Neck - Shear (kN)	0.22	0.44	-
Tension (kN)	0.45	0.51	-
Extension (Nm)	16.79	13.65	-
Chest Accln (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 Force (kN)	Left	1.4	1.0
	Right	1.63	1.2
Knee displ (mm)	Left	0.2	2.0
	Right	0.2	2.5
Lower legs Force (kN)	Left	2.55	1.72
	Right	2.13	2.16
Index (Upper/Low)	Left	0.28/0.32	0.17/0.31
	Right	0.30/0.25	0.31/0.21

Bonus points (maximum 5)

Pole Test: 2 pts

Seat belt reminders: 3 (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

Modifiers - deductions from side impact test scores

Chest No deduction

Safety features

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 (RCAR Protocol)	Good
Side airbags, rear seats - head protection	S	Intelligent seat belt reminder - driver	S
Driver knee airbag	S	Intelligent seat belt reminder - front passenger	S
Seat belt pretensioners (Front/Rear outboard)	S/X	Intelligent seat belt reminder - rear seats	S

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

ESC required by ANCAP for 5 star rating from 2008