



2015











Child Occupant



82%

Pedestrian







Safety Assist

77%

SPECIFICATION

Tested Model	Lexus RX 450h, LHD
Body Type	- 5 door SUV
Year Of Publication	2015
Kerb Weight	2155kg
VIN From Which Rating Applies	- all RXs
Class	Large Off-Road



Rating Expired

SAFETY EQUIPMENT

	Driver	Passenger	Rear
FRONTAL CRASH PROTECTION			
Frontal airbag	•	•	_
Belt pretensioner	•	•	•
Belt loadlimiter	•	•	•
Knee airbag	•	×	_
SIDE CRASH PROTECTION			
Side head airbag	•	•	•
Side chest airbag	•	•	•
Side pelvis airbag	•	•	*

Euro NCAP © Lexus RX Dec 2015 2/13



SAFETY EQUIPMENT (NEXT)

	Driver	Passenger	Rear
CHILD PROTECTION			
Isofix		×	•
Integrated CRS	_	×	×
Airbag cut-off switch	_	•	_
SAFETY ASSIST			
Seat Belt Reminder	•	•	•

OTHER SYSTEMS	
Active Bonnet (Hood)	×
ESC	•
AEB City	•
AEB Inter-Urban	•
Speed Assistance System	•
Lane Assist System	•

O Not fitted to the test vehicle but available as option Not Available — Not Applicable





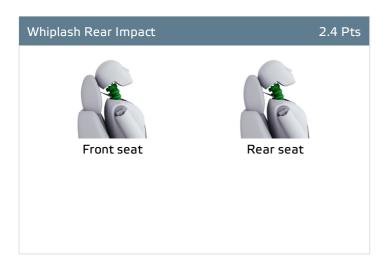
Total 34.8 Pts / 91%

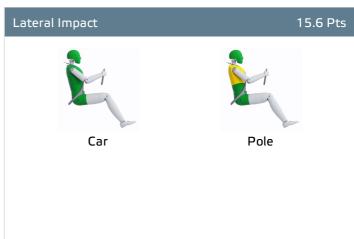
POOR

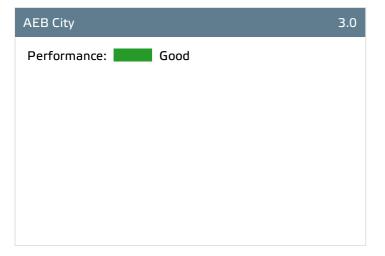




WEAK















Total 34.8 Pts / 91%

Comments

The passenger compartment of the RX remained stable in the frontal impact. Dummy readings indicated good protection of the knees and femurs of both the driver and passenger dummy. Lexus showed that a similar level of protection would be provided to occupants of different sizes and to those sat in different positions. In the full width rigid barrier test, protection of the driver was good for all critical body areas except the chest, protection of which was adequate. Dummy readings of chest compression indicated weak chest protection for the rear passenger dummy, despite the standard-fit pre-tensioners and load limiters. Protection of the neck was adequate and that of other body areas was good. The RX scored maximum points in the side barrier impact, with good protection of all critical body areas. In the more severe side pole test, protection was still good except for the chest, protection of which was adequate. Tests on the front seats and head restraints demonstrated good whiplash protection in the event of a rear-end collision. A geometric assessment of the rear seats indicated good whiplash protection also for occupants of those seats. The RX has a standard-fit autonomous emergency braking system. In Euro NCAP's assessment of its low-speed performance, impact was avoided at every test speed against a stationary car, and the system scored maximum points.



Total 40.3 Pts / 82%



Crash Test Performance 21.3 Pts





Safety Features 7.0 Pts

	Front Passenger	2nd row outboard	2nd row center
Isofix	×	•	×
i-Size	×	•	×
Integrated CRS	×	×	×

Fitted to test car as standard

O Not on test car but available as option

🗶 Not available

CRS Installation Check 12.0 Pts

Install without problem
Install with care
Safety critical problem
Installation not allowed

Infants up to 13 kg











Total 40.3 Pts / 82%

Infants and toddlers up to 18 kg



Toddlers from 9 to 18 kg







Toddlers over 18 kg







Total 40.3 Pts / 82%

		Seat Position		
	Front	Front 2nd row		
	PASSENGER	LEFT	CENTER	RIGHT
Maxi Cosi Cabriofix (Belt)	•	•	×	•
Britax Römer King Plus (Belt)	•	•	×	•
Britax Römer Duo Plus (ISOFIX)	×	•	×	•
Britax Römer KidFix (Belt)	•	•	×	•
Maxi Cosi Cabriofix & EasyFix (Belt)	•	•	×	•
Maxi Cosi Cabriofix & EasyFix (ISOFIX)	×	•	×	•
BeSafe iZi Kid X3 ISOfix (ISOFIX)	×	•	×	•
Maxi Cosi Pearl & Familyfix (ISOFIX)	×	•	×	•
Britax Römer KidFix (ISOFIX)	×	•	×	•

Install without problem

Install with care

Safety critical problem

🗶 Installation not allowed

— Not available

Comments

The RX scored maximum points for its protection of the 1½ year dummy in the dynamic crash tests. In the frontal impact, forward movement of the 3 year dummy, sat in a forward-facing restraint, was not excessive, although dummy readings of neck tension and chest deceleration were marginally high. The front passenger airbag can be disabled to allow a rearward-facing child restraint to be used in that seating position. Clear information is provided to the driver regarding the status of the airbag and the system was rewarded. All of the restraint types for which the RX is designed could be correctly installed and accommodated in the car.





Total 28.7 Pts / 79%

GOOD ADEQUATE MARGINAL WEAK POOR

Pedestrian 28.7 Pts



Head Impact	16.7 Pts
Pelvis Impact	6.0 Pts
Leg Impact	6.0 Pts

Comments

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. The RX has an autonomous emergency braking system that detects pedestrians as well as other vehicles. Euro NCAP will start assessing such systems in 2016 so the system cannot be rewarded here.



Speed Assistance 0.3 Pts

System Name	Road Sign Assist (RSA) as part of Lexus Safety System +
Speed Limit Information Function	Camera based
Warning Function	N/A
Speed Limitation Function	N/A

Electronic Stability Control

3 Pts

System Name	VSC	
PERFORMANCE		
Vehicle Yaw Rate @ COS + 1.00 s	15.75%	meets ECE requirements
Vehicle Yaw Rate @ COS + 1.75 s	1.55%	meets ECE requirements
Lateral Displacement @ BOS + 1.07 s	3.42 m	meets ECE requirements

Seatbelt Reminder 3.0 Pts

Applies To	All seats		
Warning	Driver Seat	Front Passenger(s)	Rear Passenger(s)
Visual	•	•	•
Audible	•	•	•

PassFailNot available

Lane Support 1.0 Pts

System Name	LKA (Lane Keeping Assist) as part of Lexus Safety System +
Туре	Lane Keep Assist
Operational From	50 km/h
PERFORMANCE	
LDW Confirmation Test	Pass





Total 10.0 Pts / 77%

AEB Inter-Urban 2.7 Pts

System Name	PCS (Pre-Crash System) as part of Lexus Safety System +				
Туре	Forward Collision Warning with Auto-Brake				
Operational From	10 km/h				
Additional Information	Default On				
PERFORMANCE PE					
	Autobrake Function Only	Driver reacts to warning			
Operational Speed	10-180 km/h	10-180 km/h			
Approaching a stationary car	See AEB City	Crash avoided up to 60km/h. Crash speed reduced up to 75km/h.			
Approaching a slower moving car	Crash avoided up to 70km/h.	Crash avoided up to 80km/h.			
FOLLOWING A CAR AT SHORT DISTANCE					
Car in front brakes gently	Avoidance	Avoidance			
Car in front brakes harshly	Avoidance	Avoidance			
FOLLOWING A CAR AT LONG DISTANCE					
Car in front brakes gently	Avoidance Avoidance				
Car in front brakes harshly	Avoidance	Avoidance			

Comments

All features assessed by Euro NCAP for Safety Assist are standard equipment on the RX: it has electronic stability control; a seatbelt reminder for the front and rear seats; a lane departure warning system; an autonomous emergency braking system that works also at inter-urban speeds and demonstrated good performance in Euro NCAP's tests, successfully avoiding impact against a slower-moving car and a braking car; and road-sign recognition, which advises the driver of the speed limit, although there is no provision for the driver to limit the speed of the vehicle.



RATING VALIDITY

Variants of Model Range

Annual Reviews and Facelifts

Date	Event	Outcome	
December 2015	Rating Published	2015 ★ 🖈 🛧 🛧	✓
December 2016	Annual Review	2015 🖈 🖈 🛧 🛧	✓
June 2018	Facelift Review	2015 🗙 🗙 🗙 🗙	✓
January 2022	Rating Expired	2015 🗙 🗙 🛧 🗙	×