



Lexus LBX
Standard Safety Equipment

2024



Adult Occupant



82%

Child Occupant



83%

Vulnerable Road Users



79%

Safety Assist



76%

SPECIFICATION

Tested Model	Lexus LBX 1.5 hybrid, LHD
Body Type	- 5 door SUV
Year Of Publication	2024
Kerb Weight	1290kg
VIN From Which Rating Applies	- all Lexus LBX
Class	Small SUV

SAFETY EQUIPMENT

	Driver	Passenger	Rear
FRONTAL CRASH PROTECTION			
Frontal airbag	●	●	—
Belt pretensioner	●	●	●
Belt loadlimiter	●	●	●
Knee airbag	●	✘	—
LATERAL CRASH PROTECTION			
Side head airbag	●	●	●
Side chest airbag	●	●	✘
Side pelvis airbag	●	●	✘
Centre Airbag	●	✘	—

	Driver	Passenger	Rear
CHILD PROTECTION			
Isofix/i-Size	—	✘	●
Integrated CRS	—	✘	✘
Airbag cut-off switch	—	●	—
Child presence detection	—	●	●
SAFETY ASSIST			
Seat Belt Reminder	●	●	●

SAFETY EQUIPMENT (NEXT)

OTHER SYSTEMS	
Active Bonnet	✘
AEB Vulnerable Road Users	●
AEB Pedestrian - Reverse	○
Cyclist Dooring Prevention	○
AEB Motorcyclist	●
AEB Car-to-Car	●
Speed Assistance	●
Lane Assist System	●
Fatigue / Distraction Detection	●

Note: Other equipment may be available on the vehicle but was not considered in the test year.


- Fitted to the vehicle as standard
- Fitted to the vehicle as part of the safety pack
- Not fitted to the test vehicle but available as option or as part of the safety pack
- ✘ Not available
- Not applicable

 ADULT OCCUPANT


Total 33.1 Pts / 82%


 GOOD  ADEQUATE  MARGINAL  WEAK  POOR

Frontal Impact 11.7 / 16 Pts




Mobile Progressive Deformable Barrier






Full Width Rigid Barrier


Lateral Impact 15.0 / 16 Pts




Side Mobile Barrier



Side Pole




Far-Side Excursion




Occupant Interaction

Rear Impact 3.8 / 4 Pts



Rear Seat




Front Seat

 ADULT OCCUPANT

Total 33.1 Pts / 82%

■ GOOD
 ■ ADEQUATE
 ■ MARGINAL
 ■ WEAK
 ■ POOR

Rescue and Extrication		2.7 / 4 Pts
Rescue Sheet	Available, ISO compliant	
Advanced eCall	Available	
Multi Collision Brake	Available	
Submergence Check	Compliant	

Comments

The passenger compartment of the Lexus LBX remained stable in the frontal offset test. Dummy readings indicated good protection of the knees and femurs of both the driver and passenger. Structures in the dashboard were thought to pose a risk of injury to occupants of different sizes and to those sitting in different positions, and the score for this part of the body was penalised. Protection of the driver's chest was also rated as marginal, based on dummy readings of chest compression. Analysis of the deceleration of the impact trolley during the test, and analysis of the deformable barrier after the test, revealed that the Lexus LBX would be a benign impact partner in a frontal collision. In the full-width rigid barrier test, protection of the head of the rear passenger dummy was rated as marginal, based on the extent to which the head travelled forward in the impact. However, in both the side barrier test and the more severe side pole impact, protection of all critical body regions was good, and the LBX scored maximum points in this part of the assessment. Control of excursion (the extent to which a body is thrown to the other side of the vehicle when it is hit from the far side) was found to be adequate. The Lexus LBX has a countermeasure to mitigate against occupant-to-occupant injuries in such impacts. The performance of this countermeasure was not assessed, as it was considered to interfere with the results of the near-side pole test. As a result, the score was penalised. Tests on the front seats and head restraints demonstrated good protection against whiplash injuries in the event of a rear-end collision. A geometric analysis of the rear seats also indicated good whiplash protection. The car has an advanced eCall system which alerts the emergency services in the event of a crash, and a system to prevent secondary impacts after the car has been in a collision. Lexus demonstrated that the doors and windows would be openable to allow occupants to escape in the event of vehicle submergence.

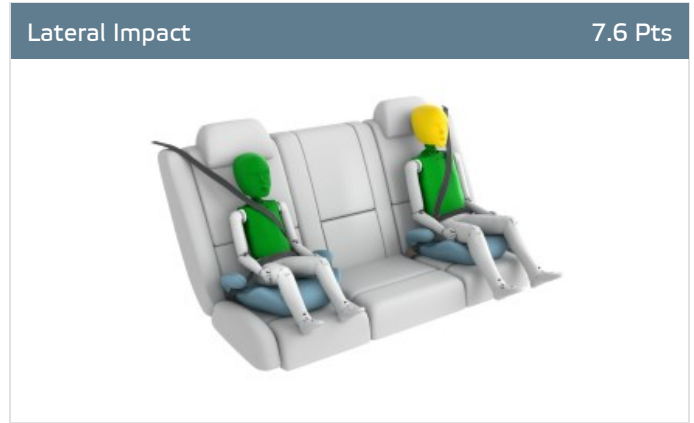
CHILD OCCUPANT

Total 41.1 Pts / 83%

■ GOOD
 ■ ADEQUATE
 ■ MARGINAL
 ■ WEAK
 ■ POOR

Crash Test Performance based on 6 & 10 year old children

22.6 / 24 Pts



Restraint for 6 year old child: *LEXUS KIDFIX i-size*
 Restraint for 10 year old child: *Graco Booster Basic*

Safety Features

7.0 / 13 Pts

	Front Passenger	2nd row outboard	2nd row center
Isofix	✗	●	✗
i-Size	✗	●	✗
Integrated CRS	✗	✗	✗
Top tether	✗	●	✗
Child Presence Detection	●	●	●

● Fitted to test car as standard
 ○ Not on test car but available as option
 ✗ Not available

CRS Installation Check

11.5 / 12 Pts

i-Size	Seat Position				
	Front		2nd row		
			Left	center	Right
	—	—	●	—	●

● Easy
 ● Difficult
 ● Safety critical
 ✗ Not allowed
✗ Airbag ON
 Rearward facing restraint installation not allowed
✗ Airbag OFF

Version 251124

CHILD OCCUPANT

Total 41.1 Pts / 83%


Isofix	Seat Position				
	Front		2nd row		
			Left	center	Right
	-	-	●	-	●
	-	-	●	-	●
	-	-	●	-	●
	-	-	●	-	●
	-	-	●	-	●
	-	-	●	-	●

● Easy
 ● Difficult
 ● Safety critical
 ✘ Not allowed
✘ Airbag ON
 Rearward facing restraint installation not allowed
✘ Airbag OFF

Seatbelt Attached	Seat Position				
	Front		2nd row		
			Left	center	Right
	✘	●	●	●	●
	●	●	●	●	●
	●	●	●	●	●
	●	●	●	●	●
	●	●	●	✘	●
	✘	●	●	✘	●

● Easy
 ● Difficult
 ● Safety critical
 ✘ Not allowed
✘ Airbag ON
 Rearward facing restraint installation not allowed
✘ Airbag OFF

Version 251124

 CHILD OCCUPANT

Total 41.1 Pts / 83%

Comments

In both the frontal offset test and the more severe side pole impact, protection of all critical parts of the body was good or adequate for the 6 and 10 year dummies. 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. The LBX is equipped with an indirect 'child presence detection' system, which issues a warning when it recognises that a child or infant may have been left in the car. All of the child restraint types for which the Lexus LBX is designed could be properly installed and accommodated in the car, apart from two belt-mounted restraints in the rear centre seat.

VULNERABLE ROAD USERS

Total 50.0 Pts / 79%



VRU Impact Protection

27.4 / 36 Pts



Pedestrian & Cyclist Head	12.7 Pts
Pelvis	3.5 Pts
Femur	2.2 Pts
Knee & Tibia	9.0 Pts

VRU Impact Mitigation

22.6 / 27 Pts

System Name	Pre-Collision System with Pedestrian Detection as part of Toyota Safety Sense
Type	Auto-Brake with Forward Collision Warning
Operational From	5 km/h
PERFORMANCE	

AEB Pedestrian

6.8 / 9 Pts

Scenario	Day time	Night time
Car reversing into adult or child		—
Adult crossing a road into which a car is turning		—
Adult crossing the road		
Child running from behind parked vehicles		
Adult along the roadside		

— Currently not tested

AEB Cyclist

7.8 / 8 Pts

Scenario	Day time
Approaching cyclist crossing from behind parked vehicles	
Turning across path of an oncoming cyclist	
Approaching a crossing cyclist	
Approaching a cyclist along the roadside	

Version 251124

VULNERABLE ROAD USERS

Total 50.0 Pts / 79%

GOOD
 ADEQUATE
 MARGINAL
 WEAK
 POOR

Cyclist Dooring Prevention

0.0 / 1 Pts

Scenario	
Dooring a passing cyclist	, driver door only"

AEB Motorcyclist

6.0 / 6 Pts

Scenario	Autobrake function only	Driver reacts to warning
Approaching a stationary motorcyclist		
Approaching a braking motorcyclist		
Turn across the path of an oncoming motorcyclist		—

— Currently not tested

Lane Support Motorcyclist

2.0 / 3 Pts

Scenario	Day time
Changing lane across the path of an oncoming motorcyclist	
Changing lane across the path of an overtaking motorcyclist	

Comments

Protection of the head of a struck pedestrian or cyclist was predominantly good or adequate, with a few poor results recorded only on the stiff windscreen pillars. Protection of the pelvis was good at all test locations. Protection of the pelvis was not poor at any test point, and that of the femur was mixed. Protection of the knee and tibia was good at all test locations. The autonomous emergency braking (AEB) system of the Lexus can respond to vulnerable road users as well as to other vehicles. The system's response to pedestrians was good. A system to protect pedestrians to the rear of the car is available as an option but was not included as part of this assessment. The system's performance in tests of its reaction to cyclists was also good, but protection against 'dooring', where a door is suddenly opened in the path of a cyclist approaching from behind, is optional and not assessed here. Performance of the AEB system was good in tests of its response to motorcyclists.

SAFETY ASSIST

Total 13.8 Pts / 76%

GOOD
 ADEQUATE
 MARGINAL
 WEAK
 POOR

Speed Assistance 2.1 / 3 Pts

System Name	Road Sign Assist with speed limiter
Speed Limit Information Function	Camera & Map, subsigns supported
Speed Limitation Function	Intelligent ACC (accurate to 5km/h)

Occupant Status Monitoring 1.3 / 3 Pts

> Seatbelt Reminder 1.0 / 1 Pts

Applies To	Front and rear seats		
	Driver Seat	Front Passenger(s)	Rear Passenger(s)
Warning			
Visual	●	●	●
Audible	●	●	●
Occupant Detection	—	●	●

● Pass
 ● Fail
 — Not available

> Driver Monitoring 0.3 / 2 Pts

System Name	Driver Monitor Camera (DMC)
Type	Indirect monitoring
Operational From	65 km/h
Fatigue	Drowsiness

SAFETY ASSIST

Total 13.8 Pts / 76%

Lane Support

2.5 / 3 Pts

System Name	Lane Departure Alert (LDA) & Lane Tracking Assist (LTA)
Type	LKA and ELK
Operational From	50 km/h
PERFORMANCE	
Emergency Lane Keeping	GOOD
Lane Keep Assist	GOOD
Human Machine Interface	GOOD

AEB Car-to-Car

8.0 / 9 Pts

System Name	Pre-Collision System
Type	Autonomous emergency braking and forward collision warning
Operational From	5 km/h
Sensor Used	camera and radar

Scenario	Autobrake function only	Driver reacts to warning
Approaching a car crossing a junction		
Approaching a car head-on		—
Turning across the path of an oncoming car		—
Approaching a stationary car		
Approaching a slower moving car		—
Approaching a braking car		—

— Currently not tested



SAFETY ASSIST

Total 13.8 Pts / 76%

Comments

Overall, the performance of the autonomous emergency braking (AEB) system was good in tests of its reaction to other vehicles, with impacts being avoided in most tests. A seatbelt reminder system is fitted as standard to the front and rear seats. The car has an indirect driver status monitoring system as standard, detecting driver fatigue. The lane support system gently corrects the vehicle's path if it is drifting out of lane and also intervenes in some more critical situations. The speed assistance system identifies the local speed limit. The driver can choose to allow the limiter to be set automatically by the system.

RATING VALIDITY

Variants of Model Range

Body Type	Engine	Model Name	Drivetrain	Rating Applies	
				LHD	RHD
5 door SUV	Hybrid 1.5 petrol	LBX	4 x 2 *	✓	✓
5 door SUV	Hybrid 1.5 petrol	LBX	4 x 4	✓	✓

* Tested variant

Annual Reviews and Facelifts

Date	Event	Outcome
December 2024	Rating Published	2024 ★ ★ ★ ★ ★ ✓