

Crash Tests

New Car Safety

Subaru Liberty

07/2004 on 01/2006 - Dual Frontal

Overall Evaluation



Overall Score

Variant: 4 Dr Wagon

32.57 out of 37

Engine: 2.5 Litre

Category: Medium Car

ANCAP was provided with evidence that the results also apply to the Liberty sedan. Vehicles tested after 1 January 2008 will require Electronic Stability Control in order to achieve a 5 star rating. This vehicle was tested prior to this date and may or may not meet this new requirement.

Model History and Safety Features

The Subaru Liberty was released in 2003. These test results apply to models built from 2004 without side curtains.

Dual front airbags are standard equipment on all models. ABS brakes are also standard. Side airbags with head protecting curtain airbags are available as part of a safety pack option. Electronic stability control is available as an option on some variants.

The front seat belt buckles are mounted on the seats and the upper anchorages are adjustable. These features improve the fit of the seat belt. 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 seat belt. Advanced seat belt reminders are fitted to all seating positions.

Overall Evaluation: 5

The Subaru Liberty scored 14.52 out of 16 in the offset crash test. The passenger compartment held its shape very well in the offset crash test. There was a slight risk of chest and lower leg injury for the driver and passenger.

The vehicle scored 15.05 out of 16 in the side impact crash test. There was a high risk of serious chest and abdomen injury for the driver.

Advanced seat belt reminders earned the vehicle three bonus points.

Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4pts, chest 3.21pts, upper legs 4pts, lower legs 3.31pts.

The passenger compartment held its shape very well in the offset crash test. The brake pedal moved rearwards by 25mm and upwards 12mm. The steering wheel hub moved forwards 10mm and upwards 11mm. The front ("A") pillar moved 7mm rearwards. All doors remained closed during the crash. After the crash all doors could be opened with normal effort.

The airbag cushioned the head of the driver and contact was stable. The passenger's head was also cushioned by an airbag.

Side Impact Crash Test

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

The vehicle was not eligible for an optional pole impact test since it did not have head-protecting side airbags.

Pedestrian rating (v4)



18.65 points out of 36.
Child head impacts 5.85pts;
Adult head impacts 5pts;
Upper leg 6pts and lower leg impacts 1.8pts.

Offset crash test at 64km/hr



Injury Measurements

Refer to the information sheet 'How the tests are done'	Offset Crash Test at 64km/h (v4)		Side Impact Crash Test aa 50km/h (v4)
	Driver	Passn	Driver
Head			
- HIC	316	278	41
- Acceleration (g for 3ms)	43.1	40.2	20.3
Neck			
- Shear (kN)	0.61	1.07	
- Tension (kN)	1.09	1.23	
- Extension (Nm)	30.4	15.4	
Chest			
- Acceleration (g for 3ms)			
- Compression (mm)	27.51	25.86	11.77
- Viscous Criterion (m/s)	0.19	0.15	0.08
Abdomen			
- Force (kN)			1.08
Pelvis			
- Force (kN)			1.76
Upper Legs Force (kN)			
- Left	0.61	0.35	
- Right	0.24	0.29	
Knee Displacement (kN)			
- Left	0.4	0.5	
- Right	0.5	1.3	
Lower Legs Force (kN)			
- Left	1.55	1.95	
- Right	1.52	2.48	
Index (Upper Lower)			
- Left	0.27 0.37	0.37 0.24	
- Right	0.48 0.25	0.48 0.555	

Bonus points (maximum 5)

Pole Test: Not eligible

Seat Belt Reminders: Fitted to all seats - 3 points

Modifiers for offset test scores

Head	No deduction
Chest	No deduction
Upper leg	Variable & conc. loading
Lower leg	No deduction
Foot score	Score 4 points
Structure	No deduction

Modifiers for side impact test scores

Head	No deduction
Chest	Backplate load
Upper leg	No deduction
Lower leg	No deduction
Foot score	No deduction
Structure	No deduction



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