Crash Tests

New Car Safety

ALFA ROMEO 147 (LHD)

2000 on

Front+side+head airbags

Overall Evaluation



Overall score

21.35 out of 34

Variant:3 DR HATCH Eng:4Cyl 1.6 litre.

Kerb weight: 1212 kg Category: LIGHT/SMALL CAR

Vehicles built: 2001 Tested by EuroNCAP

Important note: The *left-hand-drive* European model was tested by EuroNCAP. 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 Alfa Romeo 147 was introduced in Australia during 2001. It was launched in Europe in 2000.

A dual front airbags, side airbags and head-protecting side curtains are standard equipment. Pretensioners are fitted to the front seat belts to reduce slack in the event of a crash. These seat belts also have load limiters.

OVERALL EVALUATION: 3 Stars

The ALFA ROMEO 147 scored 3.433 out of 16 in the offset crash test. The passenger compartment was compromised. Protection from serious injury was marginal for the head, chest and legs of the driver.

The vehicle scored 15.92 out of 16 in the side impact crash test and an extra two points in the optional pole test.

FRONTAL OFFSET CRASH TEST

Body region scores out of 4 points each: Head/neck 2pts, chest 1.43pts, upper legs 0pts, lower legs 0pts.

The passenger compartment was comprised in the offset crash test and this resulted in a loss of one point. The brake pedal moved rearwards by 306mm and upwards 127mm. The dash rail separated from the a-pillar. The steering wheel hub moved rearwards 165mm, downwards 4mm and sideways 97mm. The a-pillar moved 106mm rearwards. All doors remained closed during the crash. After the crash high manual effort was required to open the driver's door.

The driver's head moved past the airbag and struck the dash. Hard components behind the dash were hazardous the driver's knees. The passenger knee impact area was also considered to be hazardous

SIDE IMPACT CRASH TEST

Body region scores out of 4 points each: Head 4pts, chest 4pts, abdomen 4pts, pelvis 3.92pts.

The side airbag and head-protecting curtain helped to provide good protection for the driver in the side impact crash test.



Offset crash test at 64km/h

The vehicle was eligible for an optional pole impact test, since it had head-protecting side airbags and scored four points for the head in the side impact test. The manufacturer decided to go ahead with the pole test and the vehicle earned a further two points.

INJURY MEASUREMENTS

Refer to the informati sheet "How the test of done"		Offset Crash Test at 64km/h		Side Impact Crash Test at 50km/h
		Driver	Passn	Driver
Head HIC		340.8	309.4	63
Acceleration (g for 3m	s)	50.59	47.19	24.81
Neck - Shear (kN)		0.55	0.77	-
Tension (kN)		1.83	1.44	-
Extension (Nm)		6.79	8.69	-
Chest Accln (g for 3ms)				-
Compression (mm)		32.13	28.86	9.04
Viscous criterion (m/s)	0.04	0.09	0.03
Abdomen - Force (kN))	-	-	0.93
Pelvis - Force (kN)	ı	-	-	3.06
Upper legs Force Le	ft	1.73	4.47	
(kN) Rig	ght	15.33	0.83	
Knee displ (mm) Lef	t	3.56	9.39	
Rig	ght	0.93	2.29	
Lower legs Force Left		1.83	4.11	
(kN) Rig	ght	4.04	1.99	
Index (Upper/Low) Le	ft	0.51/0.55	0.78/0.36	
Rig	ght	0.99/0.72	0.43/0.47	

Modifiers for offset test scores

Head	Steering col. movement	1 pt penalty
	Airbag performance	1 pt penalty
Chest	A-pillar movement	0.12 pt penalty
	Structure compromised	1 pt penalty
Upper leg	Variable & conc. loading	2pt penalty L&R
Lower leg	Brake pedal upward	1 pt penalty
Foot score	Brake pedal rearward	Zero score

Pedestrian rating

16.86 points out of 36 (46.8%)



Child head impacts 8pts; adult head impacts 6pts; upper leg 1.84pts and lower leg impacts 1.02pts.



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