Crash Tests

New Car Safety

MERCEDES A-CLASS(LHD)

2005 on Front+side & head airbags

Occupant Protection



Occupant Protection Score 3

35.96 out of 37

Variant: A150 Classic 5dr hatch Eng: 1.5 litre

Kerb weight: 1230 kg Category: SMALL CAR Vehicles built: 2005 Test by Euro NCAP

Important note: The *left-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 Mercedes Benz A-Class was introduced in Australia during 2005.

Dual front airbags, side airbags and head-protecting side curtains are standard equipment. ABS/EBD brakes and electronic stability control are also standard. Advanced seat belt reminders are fitted to all seats.

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. Pre-tensioners 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.

OCCUPANT PROTECTION: 5 Stars

The Mercedes Benz A-Class scored 14.96 out of 16 in the offset crash test. The passenger compartment held its shape very well. There was a slight risk of serious chest and lower leg injury for the driver.

The vehicle scored 16 out of 16 in the side impact crash test. A further 2 points were scored in the optional pole test

FRONTAL OFFSET CRASH TEST

Body region scores out of 4 points each: Head/neck 4pts, chest 3.05pts, upper legs 4pts, lower legs 3.91pts.

The passenger compartment held its shape well in the offset crash test. The brake pedal moved rearwards by 30 mm and downwards 4mm. The steering wheel hub moved forwards 2mm and downwards 3mm. The front ("A") pillar moved 3 mm rearwards. All doors remained closed during the crash. After the crash moderate effort was required to open the driver's door.

The airbags cushioned the head of the driver and passenger contact was stable for each.

SIDE IMPACT CRASH TEST

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

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.



Offset crash test at 64km/h

INJURY MEASUREMENTS

Refer to the information sheet "How the test are done"	Offset Crash Test at 64km/h (v4.1)		Side Impact Crash Test at 50km/h (v4.1)
	Driver	Passn	Driver
Head HIC	447	399	79
Acceleration (g for 3ms)	52.7	50.2	44.3
Neck - Shear (kN)	0.55	0.54	-
Tension (kN)	0.86	1.29	-
Extension (Nm)	10.0	11.4	-
Chest Accln (g for 3ms))		-
Compression (mm)	28.65	26.25	19.60
Viscous criterion (m/s)	0.16	0.09	0.11
Abdomen - Force (kN)	-	-	0.610
Pelvis - Force (kN)	-	-	0.740
Upper legs Force Left	0.19	0.18	
(kN) Righ	t 0.19	0.10	
Knee displ (mm) Left	0.00	0.00	
Righ	t 0.00	0.00	
Lower legs Force Left	2.02	1.56	
(kN) Righ	t 1.92	1.37	
Index (Upper/Low) Left	0.42 /0.36	0.39 /0.11	
Righ	t 0.40 /0.17	.35/.1	

Bonus points (maximum 5)

Pole Test: 2pts Seat belt reminders: 3

Modifiers - offset test scores

Head No deduction
Chest No deduction
Upper leg No deduction
Lower leg No deduction
Foot score Score 4 points

Modifiers - side impact test scores

Chest No deduction

PEDESTRIAN PROTECTION RATING (v4.1)

Child head impacts	3.98	Upper leg impacts	2.55
Adult head impacts	4	Lower leg impacts	6
Total (out of 36)	16.53	**	N



December 2005

Published by New Car Assessment Program PO Box 1555 Canberra ACT Australia 2601

mb_a05.doc issued 1/12/2005