Crash Tests

New Car Safety

Ford Falcon

07/2002 on 04/2008 - Dual Frontal

Overall Evaluation



Overall Score Variant: BA XT 4 Dr Sedan 27.27 out of 37 Engine: 4 Litre 6 cvl Category: Large Car

Model History and Safety Features

The tested model of FORD FALCON BA was introduced in 2002.

Dual front airbags are standard equipment. Side airbags are standard on some variants and available as an option on others. ABS brakes, an intelligent safety system and a driver's seat belt reminder are standard on all 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. These seat belts also have load limiters. A three point seat belt is fitted to the centre rear seat. This provides better protection than a two point seat belt.

Overall Evaluation: 4

The FORD FALCON BA scored 11.82 out of 16 in the offset crash test. The passenger compartment held its shape well. There was a marginal risk of serious chest injury for the driver and passenger and lower leg injury for the driver.

The vehicle scored 14.45 out of 16 in the side impact crash test. There was a marginal risk of serious chest injury for the driver.

Frontal Offset Crash Test

Body region scores out of 4 points each: Head/neck 4pts, chest 2pts, upper legs 4pts, lower legs 1.82pts.

The passenger compartment held its shape well in the offset crash test. The brake pedal moved rearwards by 71mm and upwards 25mm., relative to the driver's seat. By design, the brake pedal hinge separated during the crash, allowing the brake pedal to swing freely. This reduces the risk of lower leg injury. The floor panel separated slightly from the sill but structure was maintained. The feet were protected from footwell deformation by a laminated insert under the carpet. The dash moved 91mm towards the driver. The steering wheel hub moved rearwards 28mm, upwards 20.4mm and sideways 14mm. The front ("A") pillar moved 40mm rearwards. The roof was only slightly deformed. The width of the driver's doorway shortened by 40mm. All doors remained closed during the crash. After the crash all doors opened normally.

The airbag cushioned the head of the driver and contact was stable. The passenger's head was cushioned by the airbag. The passenger's knees hit the glove box.

Side Impact Crash Test

Body region scores out of 4 points each: Head 4pts, chest 2.45pts, abdomen 4pts, pelvis 4pts.

The vehicle was not eligible for a Pole Impact Test since it did not have headprotecting side airbags. This test can earn eligible vehicles an extra two points.

Pedestrian rating (v3.1)



2.64 points out of 36 (7%); Child head impacts 1.42pts; Adult head impacts 1.22pts; Upper leg zero pts and Lower leg impacts zero pts.

Offset crash test at 64km/hr



Injury Measurements

Refer to the information sheet	Offset Crash Test at 64km/h		Side Impact
'How the tests are done'	(v3.1)		Crash Test aa
			50km/h (v3.1)
	Driver	Passn	Driver
Head			
- HIC	518	299	119
- Acceleration (g for 3ms)	55.2	43	51.1
Neck			
- Shear (kN)	0.43	0.88	
- Tension (kN)	1.65	1.39	
- Extension (Nm)	36.9	24.6	
Chest			
- Acceleration (g for 3ms)	46.6	47.2	
- Compression (mm)	36	31.4	29.77
- Viscous Criterion (m/s)	0.17	0.19	0.471
Abdomen			
- Force (kN)			0.3
Pelvis			
- Force (kN)			2.18
Upper Legs Force (kN)			
- Left	0.85	0.19	
- Right	1.1	0.24	
Knee Displacement (kN)			
- Left	0.25	0.21	
- Right	1.4	0.16	
Lower Legs Force (kN)			
- Left	1.74	1.85	
- Right	3.07	1.43	
Index (Upper Lower)	l		
- Left	0.51 0.23	0.42 0.18	
- Right	0.55 0.89	0.41 0.48	

Bonus points (maximum 5)

Pole Test: Not eligible - zero points Seat Belt Reminders: Fitted to driver's seat only - 1 point

Modifiers for offset test scores

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

Modifiers for side impact test scores

Head No deduction Chest Backplate load 0.35kN Not applied Upper leg No deduction Lower leg No deduction Foot score No deduction Structure Door opening during crash No deduction



Version 1, Published on: 7/04/2006 Published by **New Car Assessment Program** PO Box 1555 Canberra ACT Australia 2601