Crash Tests

New Car Safety

FORD LASER

1999 on Driver's airbag

Overall Evaluation



Overall score

17.24 out of 34

Variant: Sedan Engine: 4 Cyl. 1.6 litre. Kerb weight: 1120 kg Category: LIGHT/SMALL CAR

Vehicles built: Nov-99 and Jan-00

Note: This assessment is based on crash tests of a Mazda 323 Protégé sedan. A Ford Laser sedan with the same specifications can be expected to perform the same as the Protégé.

Safety features

A driver's airbag is standard equipment. A passenger airbag is available as an option on the Ford Laser for about \$990.

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.

OVERALL EVALUATION: 3 Stars

The vehicle scored 7.18 out of 16 in the offset crash test. The passenger compartment held its shape well except for the firewall, which was substantially deformed. The driver's contact with the airbag was unstable. Protection from serious leg injury was poor for the driver.

The vehicle scored 10.06 out of 16 in the side impact crash. There was a moderate risk of life threatening chest injury for the driver

FRONTAL OFFSET CRASH TEST

The passenger compartment held its shape well except for the firewall, which was substantially deformed. The front part of the driver's floor was pushed rearwards 264mm. The brake pedal moved rearwards by 417mm, ending up above the seat cushion, where it may have been struck by the driver's groin. The dash moved 118mm towards the driver. The width of the driver's doorway shortened by 135mm. All doors remained closed during the crash. After the crash the doors could be opened without tools.

The steering column moved rearward 98mm and upward 138mm. This may have affected airbag positioning. The airbag cushioned the head of the driver but the head then rolled off the side of the airbag. The side of the head then hit the window sill. The driver's knees hit the dash, steering column and steering column adjuster. The passenger's head hit the dash with a moderate impact. The passenger's knees hit the glove box and dash.

SIDE IMPACT CRASH TEST

The centre pillar and the side doors were pushed inwards substantially. The floor was folded in the region of the centre pillar.

The back of the driver's head glanced the centre pillar then rebounded.



Offset crash test at 64km/h

The vehicle was not eligible for a Pole Impact Test since it did not have head-protecting side airbags. This test can earn eligible vehicles an extra two points, giving a maximum possible overall score of 34 points.

INJURY MEASUREMENTS

Refer to the information sheet "How the test are done"		Offset Crash Test at 64km/h		Side Impact Crash Test at 50km/h
		Driver	Passn	Driver
Head HIC		471	433	192
Acceleration (g for 3ms)		61.0	57.1	52.1
Neck - Shear (kN)		0.4	0.9	-
Tension (kN)		2.40	1.70	-
Extension (Nm)		43.53	17.43	-
Chest Accln (g for 3ms)		53.5	35.2	-
Compression (mm)		29.43	34.10	35.46
Viscous criterion (m/s)		0.2	0.1	0.35
Abdomen - Force (kN)		-	-	1.59
Pelvis - Force ((kN)	-	-	4.26
Upper legs Force	Left	0.93	0.65	
(kN)	Right	5.19	1.38	
Knee displ (mm)	Left	0.69	0.45	
	Right	0.28	0.4	
Lower legs Force Left		2.02	1.19	
(kN)	Right	1.72	0.87	
Index (Upper/Low)	Left	0.66/0.54	0.30/0.17	
	Right	0.64/1.69	0.32/0.16	

Offset test modifiers:

Head Unstable airbag contact 1 pt penalty Steering col. movement 1 pt penalty 1 pt penalty Chest A-pillar movement 0.7 pt penalty Upper leg Variable contact, L 1 pt penalty Foot score Brake pedal movement Zero score

PEDESTRIAN RATING:



20.6 pts out of 36 (57% of 36)

Child head impacts 9.58pts; adult head impacts 6pts; upper leg 1.01pts and lower leg impacts 4pts.



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