

Crash Tests

New Car Safety

MITSUBISHI MAGNA

August 2001 on

Driver airbag

Overall Evaluation*



Overall score*

17.5 out of 34

* High risk of life threatening chest injury in side impact test.

Variant: Executive Sedan. Engine: V6. 3.5 litre. Auto.
Kerb weight: 1480 kg Category: LARGE/MEDIUM CAR
Vehicles built: 9/00# and 1/01#
#Results apply only to vehicles with build dates from August 2001 on.

Safety features

A driver's airbag is standard equipment on all variants. Dual front airbags are standard on the Advance variant.

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. Webbing grabbers are fitted to the front seat belts. The centre rear seat has a 3-point seat belt.

During the crash the hazard lights and other emergency mode features activated. The trip computer has a speed alarm.

OVERALL EVALUATION : 3 Stars

The MITSUBISHI MAGNA perform marginally in the offset crash test (score 6.40 out of 16). The passenger compartment was substantially deformed. There was a risk of serious chest injury with both the driver and passenger. Protection from lower leg injury was poor for the driver.

The vehicle scored better in the side impact crash (score 11.01 out of 16) but there was a high risk of life threatening chest injury for the driver.

FRONTAL OFFSET CRASH TEST

The passenger compartment was substantially deformed in the offset crash test. The front part of the driver's floor was pushed rearwards 200mm and was severely deformed. The brake pedal moved rearwards by 210mm. The dash moved 150mm towards the driver. The roof buckled upwards above the driver and the width of the driver's doorway shortened by 130mm. All doors remained closed during the crash. After the crash high manual effort was required to open the driver's door but the rear door required tools.

The airbag cushioned the head of the driver and contact was stable. Upward steering column movement occurred after the peak of the crash and did not affect airbag performance. The large airbag (designed for the US market) provided extra protection. The steering column shroud is designed to protect the driver's knees from the steering column adjuster mounting bracket. However, the metal arm of the steering column adjuster is a hazard to the driver's left knee. The glove box latch caused a cut to the passenger dummy's leg and an invalid knee displacement reading. The rear seat cushion became dislodged under the child restraints during the crash and could pose of hazard to rear seat occupants.

SIDE IMPACT CRASH TEST

The centre pillar and the side doors were pushed inwards substantially. The driver's seat was pushed sideways but the seat anchorages held. The back of the driver's head glanced the centre pillar then rebounded.

The vehicle was not eligible for a Pole Impact Test since it did not have head-protecting side airbags. This test can earn eligible



Offset crash test at 64km/h

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	438	397	289
Acceleration (g for 3ms)	56.1	48.9	65.1
Neck - Shear (kN)			-
Tension (kN)	1.72	2	-
Extension (Nm)			-
Chest Accln (g for 3ms)	50.5	38.4	-
Compression (mm)	37.6	42.5	48.452
Viscous criterion (m/s)	0.15	0.21	1.77
Abdomen - Force (kN)	-	-	1.338
Pelvis - Force (kN)	-	-	2.26
Upper legs Force	5.18	2.01	
Left			
(kN) Right	3.77	2.05	
Knee displ (mm) Left	0.87	Invalid	
Right	1.74	4.6	
Lower legs Force	10.29	1.58	
Left			
(kN) Right	1.68	2.58	
Index (Upper/Low)	2.21/2.57	0.36/0.42	
Left			
Right	0.5/0.96	0.32/0.59	

Modifiers for offset test scores

Head		No penalty
Chest	A-pillar movement	1.32 pt penalty
Upper leg	Conc. loading	1 pt
penalty L		
Lower leg	Upward brake pedal movement	0.75
penalty		
Foot score	Brake pedal movement	Zero score

Pedestrian rating:



12.43 points out of 36 (34.5%)

Child head impacts 5.87 points; adult head impacts 6.56 points; upper leg impacts and lower leg impacts zero points.



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