



New overall evaluation for vehicle safety

★★★★★ **185.7** points

Occupants protection **93.26** points

Pedestrian Protection	88.5 points
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PSBR 4.0 points



Test vehicle	:	DEMIO
Sold	:	2014.9
Manufacture	:	Mazda Motor Corporation
Type	:	DBA-DJ3FS
Displacement	:	1,298cc
Vehicle weight	:	1,030kg
Specification	:	Length × Width × Height: 4,060 × 1,695 × 1,500mm 5-door hatchback, 6AT, FF, Seating Capacity:5
Tire (Size/Manufacture)	:	185/65R15 88S, YOKOHAMA BluEarth A
Test Vehicle Weight	:	Full-wrap: 1,230kg Offset: 1,232kg Side: 1,114kg

Collision Tests

Full-wrap frontal collision test

Passenger protection performance				Head	Neck			Chest		Legs						Body deformation			
				Injury load	Shearing load	Tensile load	Moment of extension	Resultant acceleration	Chest displacement	Femur load [kN]		Right leg		Left leg		Steering column deformation[mm]		Brake pedal deformation[mm]	
										Right leg	Left leg	Upper TI	Lower TI	Upper TI	Lower TI	Rear displacement	Upper displacement	Rear displacement	Upper displacement
Evaluation	Overall points	Score rate	[HIC]	[kN]	[kN]	[Nm]	[m/s ² -3ms]	[mm]											
Driver's seat	Level5	10.80	90.0%	297.7	0.72	1.11	12.80	432.25	20.61	0.18	0.16	0.49	0.37	0.44	0.27	0	0	0	0
Front passenger's seat	Level5	11.52	96.0%	335.2	0.46	0.73	8.55	361.43	23.74	0.74	0.77	0.52	0.36	0.39	0.39				

Driver's seat/ Front passenger's seat	Door operability								Fuel leakage after collision	Rescuability	
	Driver side				Front passenger side					Driver's seat	Front passenger's seat
	Door operability		Door locked		Door operability		Door locked				
	First row (1st row)	Second row (2nd row)	First row (1st row)	Second row (2nd row)	First row (1st row)	Second row (2nd row)	First row (1st row)	Second row (2nd row)			
	One hand	One hand	None	None	One hand	One hand	None	None			
									None	Hand	Hand

Offset frontal collision test

Passenger protection performance				Head		Neck			Chest		Legs						Body deformation				
				Secondary collision	Injury load	Shearing load	Tensile load	Moment of extension	Resultant acceleration	Chest displacement	Riding up of wrap belt from pelvis	Femur load [kN]		Right leg		Left leg		Steering column deformation[mm]		Brake pedal deformation[mm]	
												Right leg	Left leg	Upper TI	Lower TI	Upper TI	Lower TI	Rear displacement	Upper displacement	Rear displacement	Upper displacement
	Evaluation	Overall points	Score rate		[HIC]	[kN]	[kN]	[Nm]	[m/s ² -3ms]	[mm]											
Driver's seat	Level5	11.16	93.0%		180.2	0.54	1.10	12.80	387.37	21.28		0.21	0.39	0.41	0.26	0.58	0.69	0	0	0	0
Rear passenger seat	Level4	9.68	80.7%	None			2.23			37.46	None	0.13	0.05								

Driver's seat/ Rear passenger's seat	Door operability								Fuel leakage after collision	Rescuability	
	Driver side				Front passenger side					Driver's seat	Front passenger's seat
	Door operability		Door locked		Door operability		Door locked				
	First row (1st row)	Second row (2nd row)	First row (1st row)	Second row (2nd row)	First row (1st row)	Second row (2nd row)	First row (1st row)	Second row (2nd row)			
	One hand	One hand	None	None	One hand	One hand	None	None	None	Hand	Hand

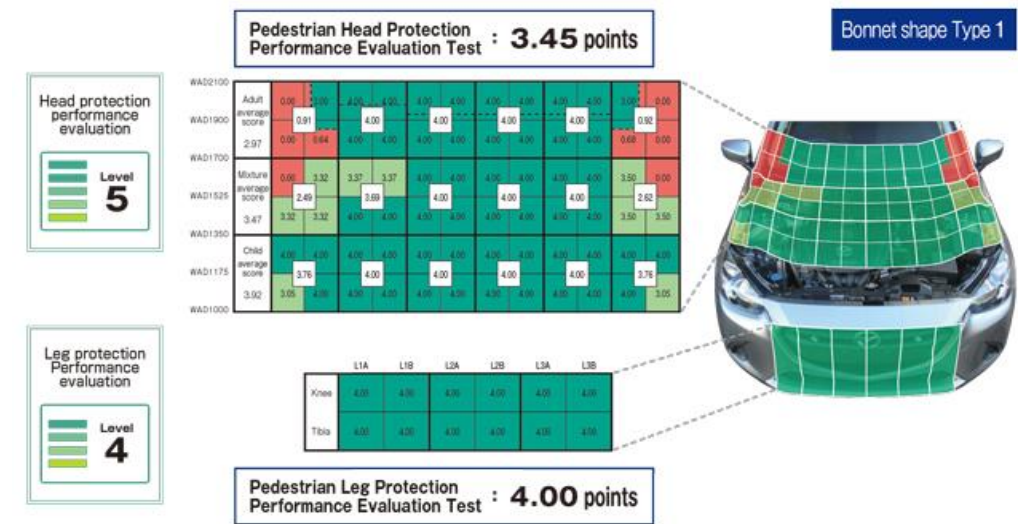
Side collision test

Passenger protection performance				Head injury value	Chest displacement	Abdomen load	Pubis load	Door openability				Fuel leakage after collision	Resucability	Vehicle turned sideways after impact
								Front passenger side						
								Door openability		Door locked				
	Evaluation	Overall points	Score rate	[HPC]	[mm]	[kN]	[kN]	First row (1st row)	Second row (2nd row)	First row (1st row)	Second row (2nd row)		Front passenger's seat	
Driver's seat	Level5	12.00	100.0%	74.4	13.96	0.67	1.55	One hand	One hand	None	None	None	Hand	None

Neck Injury Protection Rear-end Collision Performance Test

[illegible]

Pedestrian Protection (Head Protection Performance Test / Leg Protection Performance Test)



PSBR

Evaluation	Equipment Condition		Details													
			Front passenger's seat							Rear passenger's seat						
	Front passenger's seat	Rear passenger's seat	Auditory alarm			Visual alarm				Auditory alarm			Visual alarm			
			Sound	Range	Score	Display	Position	Range	Score	Sound	Range	Score	Display	Position	Range	Score
Level2	○	—	○	B	40	○	C	B	10	—	—	—	—	—	—	—

※1 [○] indicates that the vehicle has equipment with proper functions. [—] indicates that the vehicle does not have such equipment.

※2 In the "Range" column, "A" means driver's seat only, "B" means driver's seat and the passenger's seat concerned, and "C" means the passenger's seat concerned only.



※3 In the "Position" column, "A" means in front of the driver's seat, "B" means in front of the front passenger's seat, "C" means the center console area, "D" means in front of the rear seat on the window side, "E" means close to the center area of the rear seat, "F" means near the central ceiling area, "G" means room mirror part, and "H" refers to other areas.

Braking Performance Test

Dry road surface		Wet road surface	
Stopping distance[m]	crosses the lane	Stopping distance[m]	crosses the lane
42.2 (Note)	None	42.5 (Note)	None

(note)···Because the weather conditions resulted in temperatures lower than the road temperatures designated for the braking tests, there is a possibility that the braking distances are slightly short.

Rear passenger's Seat Belt Usability Evaluation Test

Radar chart		Seat belt accessibility [mm]	Buckle identificati on	Insertabili y of tongue into buckle	Seat belt wearing comfortability [N]		Rear seat	
Front passenger seat side	Driver's seat side				50mm position	25mm position	Center seat	Remarks
					Design standard position	Design standard position		
		Forward most seat position			Forward most seat position	Forward most seat position		
		2nd row [Driver's seat side]	↓	↓	↓	↓	3 point style	When three persons take a backseat after the buckle for rear center seats had been outside suitable, there is a possibility that the buckle concerned may disappear.
		2nd row [Front passeng er side]	188	b	f&g	8.1		

Installation Conditions Of Safety Devices

ABS	Provided
Air bag	Driver's seat:Provided./Front passenger seat:Provided
Side air bag	Provided
Side curtain Air bag	Provided
Stability Contorol System	Provided
Damage Mitigation Brake System	Provided
Seat Type	Driver's seat:Passive seat Front passenger seat:Passive seat
Seatbelt pretensioner	First row:Driver's seat:Provided/Front passenger seat:Provided Second row:Driver's side:Not provided/Front passenger side:Not provided/Center seat:Not provided
Seat belt force (load) limiter	First row:Driver's seat:Provided/Front passenger seat:Provided Second row:Driver's side:Provided/Front passenger side:Provided/Center seat:Not provided
Seatbelt Reminder	Front passenger seat:Provided Rear passenger seat:Not provided