



New overall evaluation for vehicle safety



163.0 * points

Occupants protection **75.76 points**
 Pedestrian Protection **73.42 points**
 PSBR **4.0 points**

Test vehicle : WAGON R / WAGON R STINGRAY / MAZDA FLAIR
 Sold : 2017.2
 Manufacture : SUZUKI MOTOR CORPORATION
 Type : DAA-MH55S
 Displacement : 658cc
 Vehicle weight : 770kg
 Specification : Length × Width × Height : 3,395 × 1,475 × 1,650mm
 5-door hatchback、CVT、FF、Seating Capacity:4
 Tire : 155/65R14 75S
 Test Vehicle Weight : Full-wrap:975kg
 Offset:971kg
 Side :854kg

* As the evaluation method for the pedestrian protection performance was changed, it was multiplied by the correction coefficient so that it would be equal to the collision safety performance evaluations for FY 2011 to 2015.)

Collision Tests

Full-wrap frontal collision test

Passenger protection performance				Head		Neck				Chest			Legs				Body deformation						
				Evaluation	Overall points	Score rate	Injury load	Shearing load	Tensile load	Moment of extension	Secondary contact of upper chest and steering wheel	Resultant acceleration	Chest displacement	Femur load [kN]		Right leg		Left leg		Steering column deformation[mm]		Brake pedal deformation[mm]	
							[HIC]	[kN]	[kN]	[Nm]	[m/s ² -3ms]	[mm]	Right leg	Left leg	Upper TI	Lower TI	Upper TI	Lower TI	Rear displacement	Upper displacement	Rear displacement	Upper displacement	
Driver's seat	Level4	9.04	75.4%	555.3	0.51	1.78	22.96	None	/	32.54	3.60	4.54	0.76	0.50	0.89	0.60	0	0	8	39			
Front passenger's seat	Level4	9.60	80.1%	487.1	0.34	0.84	13.05	/	/	29.84	0.99	1.26	0.86	0.69	0.65	0.54	/	/	/	/			

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			
	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								
				Evaluation	Overall points	Score rate	Secondary collision	Injury load	Shearing load	Tensile load	Moment of extension	Secondary contact of upper chest and steering wheel	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]	
							[HIC]	[kN]	[kN]	[Nm]	[m/s ² -3ms]	[mm]	Right leg	Left leg	Upper TI	Lower TI	Upper TI	Lower TI	Rear displacement	Upper displacement	Rear displacement	Upper displacement			
Driver's seat	Level4	10.07	83.9%	/	380.1	0.36	1.52	15.95	None	/	29.81	/	4.67	3.47	0.56	0.30	0.64	0.44	0	0	0	0			
Rear passenger's seat	Level3	8.00	66.7%	None	/	/	3.32	/	/	/	48.23	None	0.60	0.73	/	/	/	/	/	/	/	/			

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			
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※Since the seat belt of the rear seat dummy was deflected from shoulder to upper arm due to the impact of the collision, it might be resulted in the higher chest injury value (scored based on the length of chest displacement).

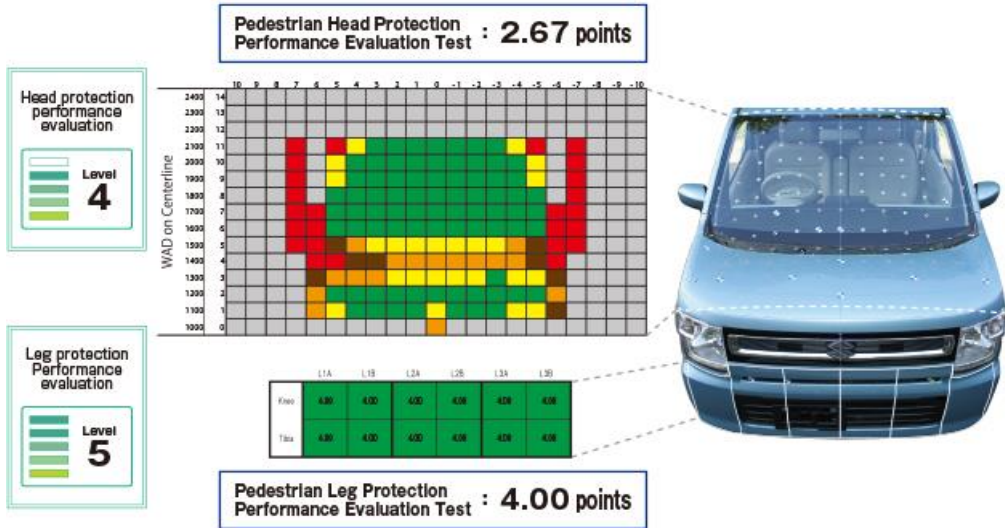
Side collision test

Passenger protection performance				Head injury value	Chest displacement	Abdomen load	Pubis load	Door operability				Fuel leakage after collision	Rescuability	Vehicle turned sideways after impact
								Front passenger side		Door operability	Door locked			
								First row (1st row)	Second row (2nd row)					
Driver's seat	Level5	11.53	96.1%	247.1	9.72	1.30	3.10	One hand	One hand	None	None	None	Hand	None

Neck Injury Protection Rear-end Collision Performance Test

Passenger protection performance				NIC [m/s ²]	Upper neck				Lower neck			
Evaluation	Overall points	Score rate			Shearing load [N]	Axial force load [N]	Horizontal axial moment (Flexion) [Nm]	Horizontal axial moment (Extension) [Nm]	Shearing load [N]	Axial force load [N]	Horizontal axial moment (Flexion) [Nm]	Horizontal axial moment (Extension) [Nm]
Driver's seat	Level5	10.83	90.3%	14.4	5.5	234.7	6.9	9.8	224.9	51.8	2.7	3.9
Front passenger's seat	Level4	10.12	84.3%	18.3	18.8	310.7	5.9	9.9	242.8	79.5	1.8	6.9

— 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	○	H	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, "H" means Indicator area, and "Z" refers to other areas.

— Rear passenger's Seat Belt Usability Evaluation Test

Radar chart		Seat belt accessibility [mm]	Buckle identification	Insertability 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		
		2nd row [Driver's seat side]	↓	↓	↓	↓	-	
		2nd row [Front passenger side]	232/364	b	f&g	6.4/8.2	1.7/1.9	

— Installation Conditions Of Safety Devices

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