

New overall evaluation for vehicle safety

187.3 * points

Occupants protection
Pedestrian Protection

95.45 points 81.12 points

1.12 points
4.0 points

PSBR 4.0 points

* 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.)

Test vehicle : CX-5 Sold : 2017.2

Manufacture : Mazda Motor Corporation

Type : LDA-KF2P
Displacement : 2,188cc
Vehicle weight : 1,620kg

 $Specification \qquad : \qquad Length \times Width \times Height: 4,545 \times 1,840 \times 1,690 mm$

Stationwagon、6EC-AT、FF、Seating Capacity:5

Side: 1,704kg

Collision Tests

Full-wrap frontal collision test

				Head		Neck			Chest				Le	gs				Body def	ormation	
Pas	senger prote	ction perfo	mance	Injury load	Shearing load	Tensile load	Moment of extension	Secondary contact of upper chest	Resultant accelerati on	Chest displacem ent	Femu [k	r load N]	Righ	t leg	Left	leg	Steering deforma	column tion[mm]	Brake deformat	
	Evaluation	Overall points	Score rate	[HIC]	[kN]	[kN]]	[Nm]	and steering wheel	[m/s²- 3ms]	[mm]	Right leg	Left leg	Upper TI	Lower TI	Upper TI	Lower TI	Rear displacem ent	Upper displacem ent	Rear displacem ent	Upper displacem ent
Driver's seat	Level5	11.40	95.1%	271.7	0.55	1.11	14.36	None		21.49	0.44	0.50	0.69	0.54	0.45	0.60	0	0	0	0
Front passeng er's seat	Level5	11.52	96.1%	485.2	0.36	0.81	23.55			21.73	1.76	0.83	0.63	0.28	0.52	0.27				

				Door op	enability					Rescu	ability
Fron		Drive	r side			Front pass	enger side		Fuel		
Driver' Front passe	Door op	enability	Door I	ocked	Door op	enability	Door	locked	leakage after	Driver's	Front passenger
s seat	First row (1st row)	Second row (2nd row)	collision	seat	s seat						
seat	One hand	One hand	None	None	One hand	One hand	None	None	None	Hand	Hand

Offset frontal collision test

				He	ead		Neck			Chest					Legs					Body de	formation	
Pa	ssenger prote	ection perfo		Secondary	Injury load	Shearing load	Tensile load			Resultant	Chest displacem ent	Riding up of wrap belt		r load N]	Righ	t leg	Left	t leg	Steering deformat	g column tion[mm]		pedal tion[mm]
	Evaluation	Overall points	Score rate	collision	[HIC]	[kN]	[kN]	[Nm]	and steering wheel	[m/s²- 3ms]	[mm]	from pelvis	Right leg	Left leg	Upper TI	Lower TI	Upper TI	Lower TI	Rear displacem ent	Upper displacem ent	Rear displacem ent	Upper displacem ent
Driver's seat	Level5	11.62	96.8%		158.2	0.48	1.25	15.32	None		22.05		0.16	0.23	0.54	0.34	0.47	0.58	0	0	0	0
passeng er's seat	Level5	10.64	88.7%	None			1.45				33.59	None	0.07	0.08								

				Door op	enability					Rescu	uability
Real		Drive	r side	side		Front pass	enger side		Fuel		
Driver Rear pass	Door op	enability	Door I	locked	Door op	enability	Door	locked	leakage after	Driver's	Front passenger'
's seat enger's	First row (1st row)	Second row (2nd row)	collision	seat	s seat						
seat	One hand	One hand	None	None	One hand	One hand	None	None	None	Hand	Hand

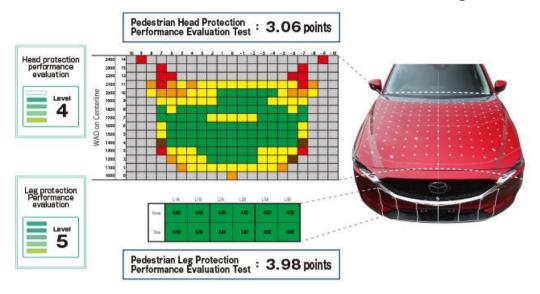
Side collision test

				Head	Chest				Door op	enability			Resucuabil ity	
Pass	senger prote	ction perfo	rmance	injury	displacem ent	Abdomen load	Pubis load		Front pass	enger side		Fuel leakage		Vehicle turned
								Door op	enability	Door	locked		Front passenger'	sideways after
	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)		s seat	impact
Driver's	Level5	12.00	100.0%	38.9	6.17	0.35	0.59	One hand	One hand	None	None	None	Hand	None

Neck Injury Protection Rear-end Collision Performance Test

	Passenger protection performance			NIC		Uppe	r neck		Lower neck					
	Evaluation	Overall points	Score rate	[m²/s²]	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	11.14	92.9%	12.7	3.7	284.9	8.8	2.8	128.3	72.1	2.8	1.7		
Front passen er's sea	1	1	1	1	1	1	1	1	1	1	1	1		

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



PSBR

	F	t Condition							Det	ails							
Evaluation		Condition	Front passenger's seat							Rear passenger's seat							
	Front Rear passenger'		Auditory alarm				Visual	alarm		A	uditory aları	m		Visual alarm			
	s seat	s seat	Sound	Range	Score	Display	Position	Range	Score	Sound	Range	Score	Display	Position	Range	Score	
Level2	0	1	0	В	40	0	С	В	10	1	1	1	-	1	1	-	

Rear passenger's Seat Belt Usability Evaluation Test

Radar	abant.		Seat belt accessibility		Insertabilit		comfortability [N]		Rear seat
Radar	cnart		[mm]	Buckle	y of tongue	50mm position	25mm position		
Front passenger seat side	Driver's seat side		Design standard position	on	into buckle	Design standard position	Design standard position	Center seat	Remarks
Front passenger seat side	Driver's seat side		Forward most seat position		Duckie	Forward most seat position	Forward most seat position		
According Landship	Acceptable	2nd row [Driver's seat side]		b	f&g	7.4	1.8	3 point	
Confortability	Confertability	2nd row [Front passeng er side]	1	1	1	1	1	style	

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:Provided/Front passenger side: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

X1 [O] indicates that the vehicle has equipment with proper functions. [-] indicates that the vehicle does not have such equipment.

X2 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.

X3 In the "Position" column, "A" means in front of the driver's seat. "B" means in front of the friver's seat. "B" 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 celling area. "G" means room mirror part, "H" means Indicator area, and "Z" refers to other area.