

New overall evaluation for vehicle safety

Occupants protection
Pedestrian Protection
PSBR

89.7 points

56.96 points 29.96 points 2.83 points Test vehicle : ECLIPSE CROSS

Sold : 2018.3

Manufacture : Mitsubishi Motors Corporation

Type : DBA-GK1W Displacement : 1,498cc Vehicle weight : 1,550kg

Specification : Length  $\times$  Width  $\times$  Height: 4,405  $\times$  1,805  $\times$  1,685mm

SUV, CVT, 4WD, Seating Capacity: 5

Tire : 225/55R18
Test Vehicle Weight: Full-wrap:1,746kg

Offset:1,733kg Side:1,631kg

## Collision Tests

### Full-wrap frontal collision test

	Head Neck							Chest		Legs											Body deformation				
Pa	ssenger prote	ection perfo	rmance	Injury load	Shearing load	Tensile load	Moment of extension	Secondary contact of upper chest		Chest displacem ent	Riding up of wrap belt	of wrap [kN]		Right leg				Left leg				Steering column deformation[mm]		Brake pedal deformation[mm]	
	Evaluation	Overall points	Score rate	[HIC]	[kN]	[kN]]	[Nm]	and steering wheel	[m/s²- 3ms]	[mm]	from pelvis	Right leg	Left leg	Upper TI	Lower TI	Upper Tibia load [kN]	Lower Tibia load [kN]	Upper TI	Lower TI	Upper Tibia load [kN]	Lower Tibia load [kN]	Rear displacem ent	Upper displacem ent	Rear displacem ent	Upper displacem ent
Driver's seat	Level5	10.83	90.3%	347.8	0.48	1.82	17.11	None		27.08		1.68	1.83	0.51	0.31	2.48	2.45	0.45	0.44	2.26	2.85	0	0	39	21
passenge r's seat	Level5	11.69	97.4%	315.0	0.41	0.87	11.56			20.31	None	0.20	0.40								$\overline{/}$				

				Door op	enability					Rescuability		
Front		Drive	r side			Front pass	enger side		Fuel			
Driver	Door op	enability	Door	locked	Door op	enability	Door	ocked	leakage after	Driver's	Front passenger	
's seat	First row (2nd row		v (1st row row		First row (1st row)	Second row (2nd row)	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

				Н	ead		Neck			Chest		Legs										Body deformation				
	Passenger prot	ection per	rformance	Secondary	/ Injury load	Shearing load	Tensile load	Moment of extension	Secondary contact of upper chest	Resultant accelerati on	Chest displacem ent	Riding up Femur load of wrap [kN]		Right leg			Left leg			Steering column deformation[mm]		Brake pedal deformation[mm]				
	Evaluation	Overal points		collision	[HIC]	[kN]	[kN]	[Nm]	and steering wheel	[m/s²= 3ms]	[mm]	from pelvis	Right leg	Left leg	Upper TI	Lower TI	Upper Tibia load [kN]	Lower Tibia load [kN]	Upper TI	Lower TI	Upper Tibia load [kN]	Lower Tibia load [kN]	Rear displacem ent	Upper displacem ent	Rear displacem ent	Upper displacem ent
seat	Driver Level5	11.68	97.4%		235.9	0.35	1.29	12.14	None		23.69		1.12	1.08	0.30	0.36	1.72	1.75	0.29	0.14	1.63	1.66	0	0	41	0
r's seat	Rear Level5	11.70	97.6%	None			1.73				25.09	None	0.19	0.14												

				Door op	enability					Rescu	ability
Rear		Drive	r side			Front pass	enger side		Fuel		
Driver'	Door openability		Door I	ocked	Door op	enability	Door	ocked	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

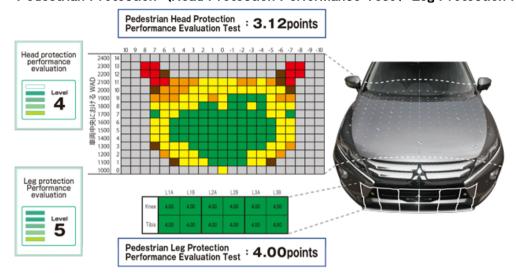
### Side collision test

				Head		Chest	Chest Abdomen			Door op	enability			Resucuabi lity	
Pas	Passenger protection performance		injury	Shoulder load	displacem ent		Lumbar load		Front pass	enger side		Fuel leakage	Front	Vehicle turned	
									Door op	enability	Door	locked	. 6	passenger	sideways after
	Evaluation	Overall points	Score rate	[HIC]	[kN]	[mm]	[mm]	[kN]	First row (1st row)	Second row (2nd row)	First row (1st row)	Second row (2nd row)		's seat	impact
Driver's seat	Level5	12.00	100.0%	51.6	1.06	14.53	17.47	0.97	One hand	One hand	None	None	None	Hand	None

## Neck Injury Protection Rear-end Collision Performance Test

	Passe	enger protection perform	mance	NIC		Upper	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	10.65	88.8%	15.4	7.1	371.0	7.2	10.3	231.4	97.6	1.5	4.7		
Front passenge r's seat	1	1	1	1	1	1	1	1	1	1	1	1		

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



## **PSBR**

	Earlin mant	Candition		Details														
Equipment Condition					Front	passenger's	seat		Rear passenger's seat									
Front passenger		Rear passenger	A	uditory alar	m		Visual	alarm		А	uditory alar	m	Visual alarm					
	's seat	's seat	Sound	Range	Score	Display	Position	Range	Score	Sound	Range	Score	Display	Position	Range	Score		
Level3	0	0	0	Α	40	0	O	Α	10	-	-	-	0	O	1	20.83		

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 and the passenger's seat concerned. "B" means driver's seat only, 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 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 front of the driver pass, and "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 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 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 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 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 front of the rear seat, "F" means the center consoler area, "D" means in front of the rear seat on the window side, "E" means close to the center area.

## **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
Seatbelt pretensioner	First row.Driver's seat:Provided/Front passenger seat:Provided Second row:Driver 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 side:Provided/Front passenger side:Provided/Center seat:Not provided
Seatbelt Reminder	Front passenger seat:Provided Rear passenger seat:Provided