

New	ov	erall	eva	luation	for
vehic	le	safe	oty		

Occupants protection Pedestrian Protection PSBR

★ ★★	158.4
70.92	points
83.56	points
4.0	points

Test vehicle	:	ALTO LAPIN
Sold	:	2015.6
Manufacture	:	SUZUKI MOTOR CORPORATION
Туре	:	DBA-HE33S
Displacement	:	658cc
Vehicle weight	:	680kg
Specification	:	Length × Width × Height : $3,395 \times 1,475 \times 1,525$ mm
		5-door hatchback、CVT、FF、Seating Capacity:4
Tire	-	155/65R14 75S, DUNLOP ENASAVE EC300+
Test Vehicle Weight	-	Full-wrap:903kg
		Offset:901kg

Side:787kg

- Collision Tests

Full-wrap frontal collision test

				Head		Neck		Cł	iest			Le	egs				Body det	formation	
Pa	ssenger prote	ection perfo	rmance	Injury load	Shearing Ioad		Moment of extension	Resultant accelerati on			r load N]	Righ	it leg	Left	: leg	Steering column deformation[mm]		Brake pedal deformation[mm]	
	Evaluation	Overall points	Score rate	[HIC]	[kN]	[kN]]	[Nm]	[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	Level3	8.93	74.5%	547.1	0.78	1.67	15.90	512.32	33.04	0.65	0.86	0.71	0.41	0.73	0.36	0	16	0	31
passeng er's seat	Level4	9.63	80.3%	383.7	0.80	0.91	21.41	458.00	29.85	0.96	3.28	0.84	0.64	0.54	0.35				

points

				Door op	enability					Rescu	ability
D Front		Drive	r side			Front pass	enger side		Fuel		
Driver t pass	Door op	enability	Door I	ocked	Door op	enability	Door	locked	leakage after	Driver's	Front passenger'
Driver's seat∕ : passenger's 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

Offset frontal collision test

				He	ad		Neck		Cł	iest				Legs					Body def	ormation	
Pa	senger prote	ction perfo		Secondary	Injury load	Shearing load	Tensile load	Moment of extension	Resultant accelerati on		Riding up of wrap belt		r load N]	Righ	t leg	Left	t leg	Steering deforma	column tion[mm]	Brake deforma	
	Evaluation	Overall points	Score rate	collision	[HIC]	[kN]	[kN]	[Nm]	[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	Level4	9.84	82.1%	\nearrow	321.4	0.54	1.57	18.86	396.43	34.24	\square	1.85	1.08	0.49	0.66	0.45	0.25	0	0	0	0
Rear passeng er's seat	Level3	8.00	66.7%	None	\square		2.62		\square	52.80	None	0.13	0.52		\square	\square		\square	\square	\square	\square

				Door op	enability					Rescu	uability
Rear		Drive	r side			Front pass	senger side		Fuel		
	Door op	enability	Door I	ocked	Door op	enability	Door	locked	leakage after	Driver's	Front passenger'
river's seat/ passenger's 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

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).

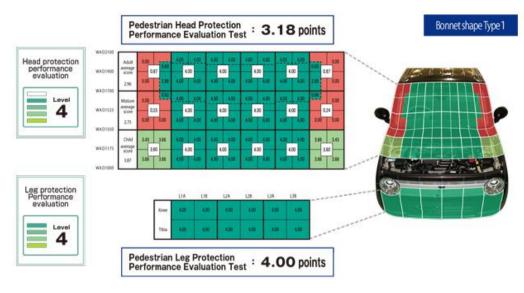
Side collision test

				Head	Chest				Door op	enability			Resucuabil ity	
Pas	assenger protection performance		mance	injury value	displacem ent	Abdomen load	Pubis load		Front pass	senger side		Fuel leakage	_	Vehicle turned
				Value	one			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)	comsion	s seat	impact
Driver's seat	Level4	10.26	85.5%	635.9	21.00	1.93	3.74	One hand	One hand	None	None	None	Hand	None

Neck Injury Protection Rear-end Collision Performance Test

	Passo	enger protection perform	nance	NIC		Upper	r neck			Lower	r 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	Level4	9.03	75.3%	14.1	12.5	324.7	18.5	8.2	209.2	130.5	1.7	5.8
Front passeng er's seat	Ť	Î	Ť	Ť	Ť	Ť	Ť	Ť	t	Ť	Ť	Ť

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



PSBR

	Entimeter	Condition							Det	ails						
Evaluation		Condition			Front	passenger'	s seat					Rear	passenger's	seat		
	Front	Rear passenger'	A	uditory alarr	n		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	-	0	B 40 O A A 1						-	-	-	-	-	-	-

%1 [O] 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 act concerned, and "C" means the passenger's seat concerned only. %3 In the "Propertion" column, "A" means into of the driver's seat, "B" means in front of the graves act concerned, and "C" means the center console area, "D" means in front of the driver's seat, "B" means driver's seat, "F" means arear the central ceiling area, "G" means room mirror part, "H" means Indicator area, and "Z" refers to other areas.

Braking Performance Test

Dry road	d surface	Wet road	d surface
Stopping distance[m]	crosses the lane	Stopping distance[m]	crosses the lane
43.2	None	44.9	None

Rear passenger's Seat Belt Usability Evaluation Test

Radar	- hand		Seat belt accessibility		Insertabilit	Seat belt wearing	comfortability [N]		Rear seat
radar	chart		[mm]	Buckle	of tongue	50mm position	25mm position		
Front passenger seat side	Driver's seat side		Design standard position Forward most seat position	on	into buckle	Design standard position Forward most seat position	Design standard position Forward most seat position	Center seat	Remarks
Acuality (second)		2nd row [Driver's seat side]		Ļ	Ļ	Ļ	ţ	_	
Contradiny	Contrality	2nd row [Front passeng er side]	189	b	f&g	5.4	1.5		

- 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 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
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