

#### New overall evaluation for $\star$ $\star$ $\star$ $\star$ $\star$ 166.0 \* points vehicle safety Occupants protection

75.67 points

75.81 points 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.)

#### **Collision Tests**

PSBR

**Pedestrian Protection** 

#### Full-wrap frontal collision test

				Head		Neck			Chest				Le	gs				Body def	formation	
F	assenger prote	ection perfo	mance	Injury Ioad	Shearing Ioad	Tensile Ioad	Moment of extension	Secondary contact of upper chest	and a state with the	Chest displacem ent		r load N]	Righ	t leg	Left	t leg	Steering deforma			pedal tion[mm]
	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
seat		9.38	78.2%	508.9	0.54	1.58	30.14	None		32.35	2.18	1.67	0.74	0.50	0.64	0.42	0	0	92	10
passeng er's seat	Front Level4	10.02	83.5%	510.2	0.73	1.34	31.47			29.90	1.94	0.75	0.60	0.41	0.65	0.45				

				Door op	enability					Rescu	uability
Driver' Front pass		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'
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

### Offset frontal collision test

				He	ad		Neck			Chest					Legs					Body de	formation	
Pa	ssenger prote	ction perfo			Injury load	Shearing Ioad	Tensile load			Resultant accelerati on		Riding up of wrap belt	Femu [k	r load N]	Righ	t leg	Lef	t leg	Steering deforma	g column tion[mm]		e pedal ition[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	Level4	9.96	83.0%	$\checkmark$	459.3	0.51	1.95	13.06	None	$\square$	25.86		2.13	1.55	0.44	0.43	0.44	1.05	0	9	76	0
passeng er's seat	Level3	8.00	66.7%	None			3.34		$\checkmark$	$\checkmark$	54.46	None	0.36	0.22					$\checkmark$			
				Door op	enability					Rescu	uability											
Rea		Drive	r side			Front pass	enger side		Fuel													

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Driver ear pass	Door op	enability	Door I	Door locked		enability	Door	locked	leakage after	Driver's	Front passenger'
r's seat∕ senger'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

XSince 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

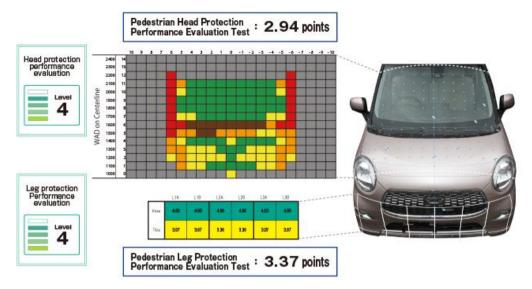
				Head	Chest				Door op	enability			Resucuabil ity	
Pa	senger protection performance		rmance	injury value	displacem ent	Abdomen load	Pubis load		Front pass	enger side		Fuel leakage		Vehicle turned
								Door op	enability	Door	locked	after	Front passenger'	sideways after
	Evaluation	Overall points	Score rate	[HPC]	[mm]	[kN]	[kN]	First row (1st row)	Second row (2nd row)	First row (1st row)	Second row (2nd row)	collision	s seat	impact
Driver's seat	Level5	10.84	90.3%	358.0	7.17	1.85	3.04	One hand	One hand	None	None	None	Hand	Occurre d
∦Str	uck side rea	ar latch w	as broken	during cra	ash put th	e door did	not open	due to do	or telesco	ped into t	he body.			

#### Neck Injury Protection Rear-end Collision Performance Test

	Pass	enger protection perform	nance	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	10.92	91.1%	13.9	32.0	407.7	6.1	5.4	227.8	143.4	3.0	4.9		
Front passeng er's seat	1	Ť	Ť	Ť	Ť	Ť	Ť	Ť	Ť	Ť	Ť	Ť		

Test vehicle	:	CAST / CAST ACTIVA / CAST SPORT / TOYOTA PIXIS JOY FASHION / PIXIS JOY CROSS OVER / PIXIS JOY SPORT
Sold	:	2015.9
Manufacture	:	DAIHATSU MOTOR CO.,LTD.
Туре	:	DBA-LA250S
Displacement	:	658cc
Vehicle weight	:	840kg
Specification	:	Length × Width × Height : 3,395 × 1,475 × 1,600mm
		5-door hatchback、CVT、FF、Seating Capacity:4
Tire	:	165/55R15 75V
Test Vehicle Weight	:	Full-wrap:1,040kg
		Offset:1,041kg
		Side:921kg

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



### - PSBR

	Equipment	Qualities							Det	ails						
Evaluation	Equipment	Condition			Front	passenger's	s seat			Rear passenger's seat						
	Front bassenger'	Rear passenger'	A	uditory aları	n		Visual	alarm		Α	uditory alar	m		Visual	alarm	
	s seat	s seat	Sound	Range	Score	Display	Position	Range	Score	Sound	Range	Score	Display	Position	Range	Score
Level2	0	-	0	В	40	0	А	А	10	-	-	-	0	0	0	-

(1) Up indicates that the vehicle has equipment with proper futures, (1) indicates that the vehicle was even equipment. (2) In the "Range" colum, "A" means driver's seat on the passe and the passenger's seat concerned only. (3) In the "Position" colum, "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 (3) In the "Position" column, "A" means in orm information 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 (1) Information of the rear seat, "B" means information of the rear 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 (1) Information of the rear seat, "B" means information of the rear seat, "C" means the center console area, "D" means in front of the rear seat, "E" means information of the rear seat, "E" mea

# - Rear passenger's Seat Belt Usability Evaluation Test

Radar	- hand		Seat belt accessibility		Insertabilit		comfortability [N]		Rear seat
Radar	chart		[mm]	Buckle identificati	У	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		
		2nd row [Driver's seat side]		Ţ	Ļ	Ļ	Ļ	_	
Contrast		2nd row [Front passeng er side]	123/255	b	f&g	2.4/6.2	0.3/1.2		

## 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.Normal seat Front passenger seat.Normal 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