

New overall evaluation for vehicle safety

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96.5 points

Occupants protection 58.46 points
Pedestrian Protection 34.08 points
PSBR 4.0 points

Test vehicle : FORESTER Sold : 2018.9

Manufacture : SUBARU CORPORATION

Type : 5AA-SKE Displacement : 1,995cc Vehicle weight : 1,640kg

Specification : Length  $\times$  Width  $\times$  Height:  $4,625 \times 1,815 \times 1,715$ mm

Station wagon, CVT, AWD, Seating Capacity: 5

Tire : 225/55R18

Test Vehicle Weight: Full-wrap:1,828kg

Offset: 1,831kg Side: 1,722kg

## Collision Tests

#### Full-wrap frontal collision test

	Head Neck						Chest		Logs											Body deformation					
Pa	senger 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	Femu [kl			Righ	t leg			Left	leg		Steering deforma		Brake deforma	pedal tion[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	12.00	100.0%	599.0	0.96	1.60	13.99	None		18.01		1.06	1.31	0.35	0.19	2.23	2.77	0.20	0.37	1.56	1.81	0	0	7	3
passenge r's seat	Level5	12.00	100.0%	312.6	0.40	0.78	13.52			14.79	None	0.26	80.0												

				Door op	enability					Rescuability		
Front		Driver side				Front pass	enger side		Fuel			
Driver nt pass	Door op	enability	Door I	ocked	Door op	enability	Door	ocked	leakage after	Driver's	Front	
's seat	First row (1st row) Second row (2nd row)		(1et 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

	Head Neck							Chest		Legs										Body deformation						
	Passenger pro	tection per			Injury load	Shearing load	Tensile load	Moment of extension	upper	Resultant accelerati on	Chest displacem ent	Riding up of wrap belt	Femu [k		Right leg			Lef	ft leg		Steering column deformation[mm]		Brake deformat	e pedal stion[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 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's	11.59	96.6%		388.8	0.53	1.21	18.24	None		22.42		0.91	0.88	0.33	0.56	1.91	2.34	0.30	0.50	1.74	1.99	0	0	15	0
r's seat	Rear Level5	11.98	99.9%	None			1.71				23.03	None	0.07	0.18												

				Door op	enability					Rescuability		
Rear		Drive	r side			Front pass	enger side		Fuel			
Drive r pas	Door openability		Door	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	

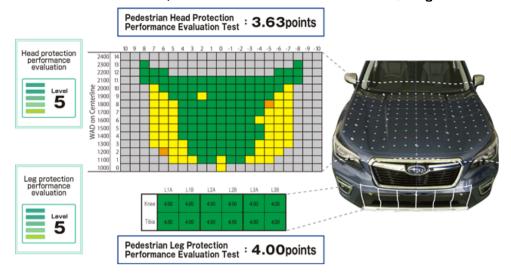
#### Side collision test

	Passenger protection performance		Head		Chest	Abdomen			Door op	enability			Resucuabi lity		
Pas			injury	Shoulder load	displacem ent		Lumbar load		Front pass	senger side		Fuel leakage		Vehicle turned	
									Door op	enability	Door	locked	. 0	Front 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%	21.8	0.97	7.78	8.45	0.37	One hand	One hand	None	None	None	Hand	None

## Neck Injury Protection Rear-end Collision Performance Test

	Passe	enger protection perform	nance	NIC		Upper	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	10.96	91.3%	13.2	0.2	358.6	12.3	3.9	160.7	74.0	4.2	2.6		
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

		Earlinnant	t Condition							Det	ails							
-			Condition			Front	passenger's	s seat		Rear passenger's seat								
EV	Front Rear passenger passenger			А	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	
L	evel5	0	0	0	Α	40	0	G	Α	10	0	Α	25	0	G	Α	25	

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## **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