Vehicle Safety Performance 2023

This pamphlet summarizes the results of the FY2023 evaluation of the overall safety performance of new vehicles on the market.

Please use this pamphlet as a guide to choosing a safer car.

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Japan New Car Assessment Program Search

Ministry of Land, Infrastructure, Transport and Tourism

National Agency for Automotive Safety and Victims' Aid

What is Vehicle Safety Performance Evaluation?

The Japan New Car Assessment Program conducted by the Ministry of Land, Infrastructure, Transport and Tourism (MLIT) and NASVA (the National Agency for Automotive Safety & Victims' Aid) promotes car safety through the following activities:
- Evaluating and publicizing "Vehicle Safety Performance" to aid drivers in the selection safer vehicles.
- Promoting the development of safe cars by manufacturers committed to a high standard of safety performance.

MLIT · NASVA

Crash test

Collision damage reduction brake test

- Evaluation of vehicle safety performance
- Publication of evaluation results
- Visualization of safety performance

Establishing a cycle to promote safer cars

How drivers benefit

Car user can buy safer cars based on evaluation results.

How manufacturers benefit

Automobile manufacturers are guided to improved safety performance of their products based on evaluation results

Evaluation Technologies for Vehicle Safety Performance in FY2023

Technologies to protect people in crashes (Collision Safety Performance)

Technologies to protect driver, vehicle occupants, and pedestrians in event of an accident, evaluated by a combination of tests duplicating vehicle and barrier impacts and vehicle and human-body impacts.

[Evaluation items for collision safety performance]

<Technology to protect the occupants of a car>

- Full frontal collision (Frontal collision)
- Offset frontal collision (Partial collision with an oncoming vehicle)
- Side collision
- Electric shock protection performance after collision
- Performance for neck-injury protection in a rear-end collision
- Passenger Seat Belt Reminder (PSBR) Evaluation

<Technology to protect pedestrians>

- Pedestrian head protection performance
- Pedestrian leg protection performance

New technologies to avoid crashes (Preventive Safety Performance)

An extensive range of preventive safety technologies are evaluated to assist the driver; driver alerts and automatic braking to preclude a collision are examples.

[Evaluation items for preventive safety performance]

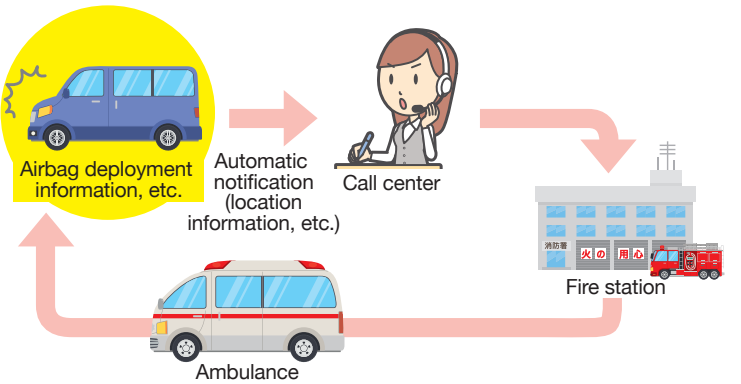
- Autonomous Emergency Braking System (AEBS)
  - · Rear-end Collision with a vehicle in front
  - · Collision with a pedestrian in front during the day
  - · Collision with a pedestrian in the front at night (with or without street lamp)
  - · Collision with a bicycle in front
- Lane Departure Prevention System (LDPS) (prevents straying onto the oncoming traffic lane)
- High-performance headlights (This function automatically switches between the high-beam and low-beam illumination range of headlights)
- Pedal misapplication prevention (reduces acceleration due to pedal misapplication when starting)

  *Introduction of evaluation corresponding to accidents with pedestrians new

Technology to prepare for serious accidents (automatic emergency notifications in serious accidents)

The program evaluates systems that provide automatic accident notifications on behalf of the driver or a witness in serious accidents, such as cases involving vehicle airbag deployment.

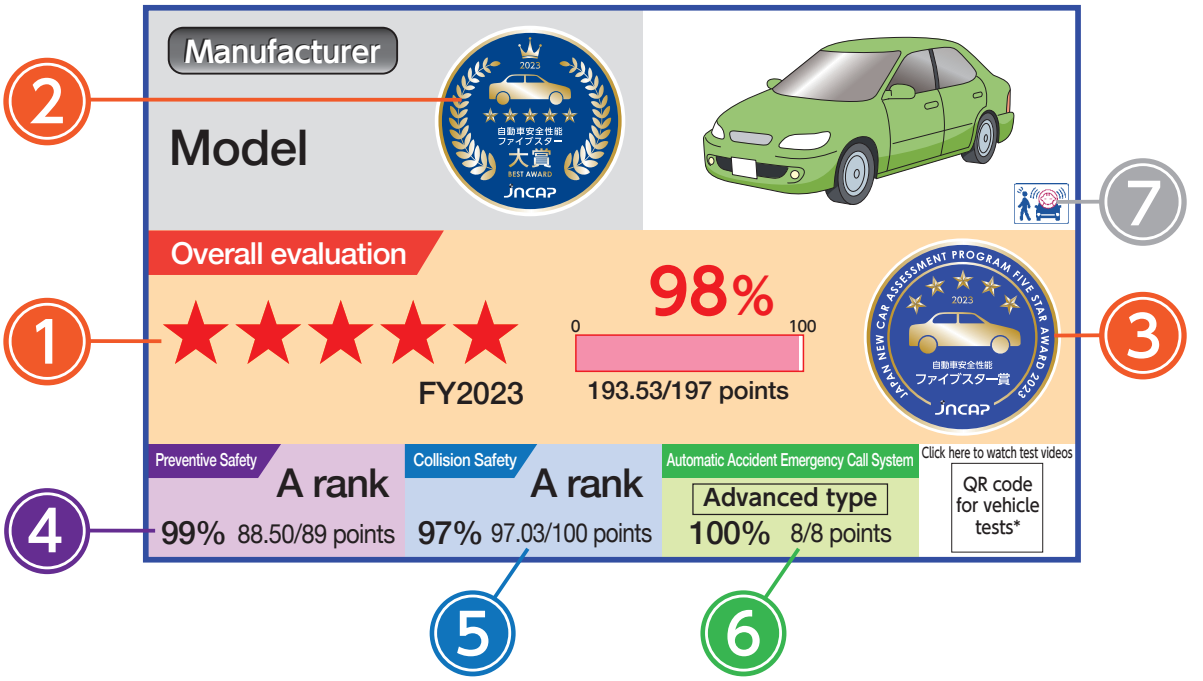
Flow of automatic emergency notifications in case of an accident



Refer to our Web page for details

JNCAP Search

How to Read the Evaluation Results of Vehicle Safety Performance 2023



*"QR code" is a registered trademark of Denso Wave

① Overall evaluation

The star rating system ranks vehicle safety performance on a scale of one to five stars. The higher the number of ★, the higher is the overall safety performance ranking. The percentage indicates the score ratio to the full score when all the scores for collision safety performance, preventive safety performance, and automatic emergency call system for accidents are totaled. The full score is 197.

② FIVE STAR BEST AWARD

This safety assurance is awarded to models that receives the highest test score among ★★★★★ models in the overall evaluation for FY2023.

③ FIVE STAR AWARD

This award is given to models receiving the highest rating (★★★★★) in the overall evaluation for FY2023.

④ Preventive Safety

The scores are indicated in a five-level ranking, from A to E, based on the total score of the preventive safety performance evaluation. The percentages represent the score ratio to the full score. The full score is 89.
From "Vehicle Safety Performance 2023," an evaluation corresponding to accidents with pedestrians has been newly introduced in the evaluation of "Acceleration Control Devices for Pedal Mistakes". Due to the changes in the evaluation content, the distribution of points has been changed. Therefore, direct comparisons of safety performance with vehicle models that have been evaluated in the past cannot be made by the size of the points.

⑤ Collision Safety

The five-point scale from A to E is used based on the total score of the collision safety performance evaluation. The percentages indicate the score ratio to the full score. The full score is 100 points.

⑥ Automatic Accident Emergency Call System

This evaluation indicates the presence or absence of a function that automatically reports occurrence of an accident. The percentages indicate the score ratio to the full score.
“Basic type" (2 points): Automatic emergency notification of the occurrence of an accident
“Advanced type" (8 points): In addition to the basic notification, this type transmits information pertaining to predicted occupant injury.

⑦ Assistive Devices for Preventing Children from Being Left Behind in Vehicles

Indicates that the vehicle is equipped with an in-vehicle child safety device.

Evaluation Results of Vehicle Safety Performance 2023

SUBARU

CROSSTREK
IMPREZA

Overall evaluation

★★★★★ FY2023

98%
0 100
193.53/197 points

Preventive Safety	Collision Safety	Automatic Accident Emergency Call System	Click here to watch test videos
A rank	A rank	Advanced type	
99% 88.50/89 points	97% 97.03/100 points	100% 8/8 points	

TOYOTA

CROWN CROSSOVER/
CROWN SPORT

Overall evaluation

★★★★★ FY2023

95%
0 100
188.39/197 points

Preventive Safety	Collision Safety	Automatic Accident Emergency Call System	Click here to watch test videos
A rank	A rank	Advanced type	
100% 89.00/89 points	91% 91.39/100 points	100% 8/8 points	

MAZDA

CX-60

Overall evaluation

★★★★★ FY2023

94%
0 100
186.77/197 points

Preventive Safety	Collision Safety	Automatic Accident Emergency Call System	Click here to watch test videos
A rank	A rank	Advanced type	
99% 88.21/89 points	90% 90.57/100 points	100% 8/8 points	

*This test model was subjected to the "Rear-end Collision Neck Protection Performance Test" and the "Acceleration Control System Performance Test for Pedestrian Accidents (under certain conditions)" in accordance with changes in the main structure of the seat, the start of the Acceleration Control System Performance Test (for pedestrians), and changes in the control software used for the system. Other parts are evaluated based on the test results of the same model in FY2022. Vehicles with VIN numbers KH3R3P-111927 or later, KH3P-110566 or later, KH5P-104884 or later, and KH553P-101099 or later are subject to the tests.

HONDA

ZR-V

Overall evaluation

★★★★★ FY2023

94%
0 100
185.41/197 points

Preventive Safety	Collision Safety	Automatic Accident Emergency Call System	Click here to watch test videos
A rank	A rank	Advanced type	
99% 88.70/89 points	88% 88.71/100 points	100% 8/8 points	

LEXUS

RX

Overall evaluation

★★★★★ FY2023

93%
0 100
184.52/197 points

Preventive Safety	Collision Safety	Automatic Accident Emergency Call System	Click here to watch test videos
A rank	A rank	Advanced type	
99% 88.82/89 points	87% 87.70/100 points	100% 8/8 points	

Important notice: Preventive safety technologies are systems that assist the driver and no panacea for all driving conditions.
Please read carefully all relevant instruction manuals, always drive safely without overconfidence and a reliance on the system.

Note: The operating conditions of the system may differ, and it may not be fully effective depending on the surrounding conditions.

NISSAN

SERENA

Overall evaluation

★★★★★

FY2023

93%

0 100

184.34/197 points

Preventive Safety: A rank — 99% 88.93/89 points

Collision Safety: A rank — 87% 87.40/100 points

Automatic Accident Emergency Call System: Advanced type — 100% 8/8 points

Click here to watch test videos

LEXUS

NX

Overall evaluation

★★★★★

FY2023

93%

0 100

183.28/197 points

Preventive Safety: A rank — 100% 89.00/89 points

Collision Safety: A rank — 86% 86.28/100 points

Automatic Accident Emergency Call System: Advanced type — 100% 8/8 points

Click here to watch test videos

HONDA

N-BOX/N-BOX CUSTOM

Overall evaluation

★★★★★

FY2023

91%

0 100

181.20/197 points

Preventive Safety: A rank — 96% 85.58/89 points

Collision Safety: A rank — 87% 87.62/100 points

Automatic Accident Emergency Call System: Advanced type — 100% 8/8 points

Click here to watch test videos

TOYOTA

PRIUS

Overall evaluation

★★★★★

FY2023

91%

0 100

180.60/197 points

Preventive Safety: A rank — 96% 86.12/89 points

Collision Safety: A rank — 86% 86.48/100 points

Automatic Accident Emergency Call System: Advanced type — 100% 8/8 points

Click here to watch test videos

NISSAN

X-TRAIL

Overall evaluation

★★★★★

FY2023

91%

0 100

180.34/197 points

Preventive Safety: A rank — 96% 85.77/89 points

Collision Safety: A rank — 86% 86.57/100 points

Automatic Accident Emergency Call System: Advanced type — 100% 8/8 points

Click here to watch test videos

LEXUS

LBX

Overall evaluation

★★★★☆

FY2023

92%

0 100

182.82/197 points

Preventive Safety: A rank — 100% 89.00/89 points

Collision Safety: B rank — 85% 85.82/100 points

Automatic Accident Emergency Call System: Advanced type — 100% 8/8 points

Click here to watch test videos

TOYOTA

ALPHARD/ VELLFIRE

Overall evaluation

★★★★☆

FY2023

92%

0 100

181.78/197 points

Preventive Safety: A rank — 99% 88.84/89 points

Collision Safety: B rank — 84% 84.93/100 points

Automatic Accident Emergency Call System: Advanced type — 100% 8/8 points

Click here to watch test videos

SUZUKI

SWIFT

Overall evaluation

★★★★☆

FY2023

90%

0 100

177.80/197 points

Preventive Safety: A rank — 99% 88.70/89 points

Collision Safety: B rank — 81% 81.10/100 points

Automatic Accident Emergency Call System: Advanced type — 100% 8/8 points

Click here to watch test videos

SUZUKI

SPACIA/ SPACIA CUSTOM

Overall evaluation

★★★★☆

86%

0 100

FY2023

169.75/197 points

Preventive Safety	Collision Safety	Automatic Accident Emergency Call System	Click here to watch test videos
A rank	B rank	Advanced type	
96% 85.82/89 points	75% 75.93/100 points	100% 8/8 points	

MAZDA

FLAIR WAGON/ FLAIR WAGON CUSTOMSTYLE

Overall evaluation

★★★★☆

82%

0 100

FY2023

161.75/197 points

Preventive Safety	Collision Safety	Automatic Accident Emergency Call System	Click here to watch test videos
A rank	B rank	Not equipped	
96% 85.82/89 points	75% 75.93/100 points	- % - /8 points	

*This test vehicle model was tested for the "confirmation of the installation of the automatic emergency alert system for accidents," which is affected by the difference in equipment between the Suzuki Spacia, which is a joint design, and the Suzuki Spacia, and other parts were evaluated based on the test results of the Suzuki Spacia.

DAIHATSU SUBARU

TANTO CHIFFON

Overall evaluation

★★★★☆

81%

0 100

FY2023

159.63/197 points

Preventive Safety	Collision Safety	Automatic Accident Emergency Call System	Click here to watch test videos
A rank	B rank	Not equipped	
89% 79.26/89 points	80% 80.37/100 points	- % - /8 points	

*This test vehicle model was tested only for Preventive Safety Performance Evaluation due to the change of "Preventive Safety System", and the other parts of the test are based on the test results of the same model in FY2019. Please note that vehicles with VIN numbers of Tanto: LA650S-0110359 to LA650S-09999999, LA650S-1079390 or later,] LA660S-0035387 or later, and Chiffon: LA650F-0005628 or later, LA660F-0002468 or later are eligible vehicles.

Outline of the Comprehensive Evaluation

Prior to fiscal year 2019, collision safety performance and preventive safety performance were evaluated separately. Since fiscal year 2020, these performance criteria have been evaluated comprehensively as a collective unit to provide vehicle owners with “Vehicle Safety Performance” information that is more readily understood.

For more information about the evaluations, please visit our Web site.

Preventive Safety Performance
(Total maximum score of 89 points)

Evaluation results	Total score for preventive safety performance
A rank	72.00 points or more
B rank	52.12 or more and under 72.00 points
C rank	34.48 or more and under 52.12 points
D rank	17.16 or more and under 34.48 points
E rank	Under 17.16 points

The total of each evaluation determines performance positioning in a five-level system of ranking. An individual evaluation falling below a certain level, rules out classification as an A ranking (the highest evaluation result).
In addition,collision damage mitigation brakes for bicycles must be equipped regardless of the level.

Collision Safety Performance
(Total maximum score of 100 points)

Evaluation results	Total score for collision safety performance
A rank	84.63 points or more
B rank	71.89 or more and under 84.63 points
C rank	59.07 or more and under 71.89 points
D rank	46.33 or more and under 59.07 points
E rank	Under 46.33 points

The total of each evaluation determines performance positioning in a five-level system of ranking. An individual evaluation falling below a certain level, rules out classification as an A ranking (the highest evaluation result).

Comprehensive Evaluation

Evaluation results	Total score for preventive safety and collision safety
★★★★★	156.63 points or more
★★★★	124.01 or more and under 156.63 points
★★★	93.55 or more and under 124.01 points
★★	63.49 or more and under 93.55 points
★	Under 63.49 points

* Requirements for a ★★★★★ ranking
A vehicle must have the highest ranking (A-ranking) in preventive safety performance evaluation, the highest ranking in the collision safety performance evaluation, and must be equipped with an automatic accident emergency notification system to receive a five-star ranking.

List of Evaluation Results of Vehicle Safety Performance 2023

		SUBARU CROSSTREK/ IMPREZA	TOYOTA CROWN CROSSOVER/ CROWN SPORT	MAZDA CX-60	HONDA ZR-V	LEXUS RX	NISSAN SERENA	LEXUS NX	HONDA N-BOX/ N-BOX CUSTOM	TOYOTA PRIUS	NISSAN X-TRAIL	LEXUS LBX	TOYOTA ALPHARD/ VELLFIRE	SUZUKI SWIFT	SUZUKI SPACIA/ SPACIA CUSTOM	MAZDA FLAIR WAGON/ FLAIR WAGON CUSTOM HYBRID	DAIHATSU SUBARU TANTO CHIFFON
rank／A·B·C·D·E																	
Preventive Safety	Rank	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	Score ratio	99%	100%	99%	99%	99%	99%	100%	96%	96%	96%	100%	99%	99%	96%	96%	89%
	Total score [89.0]	88.50	89.00	88.21	88.70	88.82	88.93	89.00	85.58	86.12	85.77	89.00	88.84	88.70	85.82	85.82	79.26
rank／A·B·C·D·E																	
Collision Safety	Rank	A	A	A	A	A	A	A	A	A	A	B	B	B	B	B	B
	Score ratio	97%	91%	90%	88%	87%	87%	86%	87%	86%	86%	85%	84%	81%	75%	75%	80%
	Total score [100.0]	97.03	91.39	90.57	88.71	87.70	87.40	86.28	87.62	86.48	86.57	85.82	84.93	81.10	75.93	75.93	80.37
Automatic Accident Emergency Call System	Type	Advanced type	Advanced type	Advanced type	Advanced type	Advanced type	Advanced type	Advanced type	Advanced type	Advanced type	Advanced type	Advanced type	Advanced type	Advanced type	Advanced type	Not equipped	Not equipped
	Score ratio	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	- %	- %
	score [8]	8	8	8	8	8	8	8	8	8	8	8	8	8	8	-	-
Overall evaluation	Evaluation Results	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★☆	★★★★☆
	Score ratio	98%	95%	94%	94%	93%	93%	93%	91%	91%	91%	92%	92%	90%	86%	82%	81%
	Total score [197.0]	193.53	188.39	186.77	185.41	184.52	184.34	183.28	181.20	180.60	180.34	182.82 Note	181.78 Note	177.80 Note	169.75 Note	161.75 Note	159.63 Note

Note:★★★★★ on page 7 does not meet the requirements for ★★★★☆.

*From "Automobile Safety Performance 2023," an evaluation corresponding to accidents with pedestrians has been newly introduced in the evaluation of "Acceleration Control Devices for Pedal Mistakes". Due to the changes in the evaluation content, the distribution of points has been changed. Therefore, direct comparisons of safety performance with vehicle models that have been evaluated in the past cannot be made by the size of the points.

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● Search by Key-word JNCAP Search

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