

Vehicle Safety Performance 2024



This pamphlet summarizes the results of the FY2024 evaluation of the overall safety performance of new vehicles on the market.

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

Table of Contents

- P2. What is Vehicle Safety Performance Evaluation?
Evaluation Items for Vehicle Safety Performance in FY2024
- P4. How to Read the Evaluation Results of Vehicle Safety Performance 2024
- P5. Evaluation Results of Vehicle Safety Performance 2024
- P7. Determining the Overall Evaluation
- P8. List of Evaluation Results of Vehicle Safety Performance 2024

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 MLIT (the Ministry of Land, Infrastructure, Transport and Tourism) 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 of safer vehicles.
- Promoting the development of safe vehicles by manufacturers

MLIT・NASVA



A full-wrap collision test



A test of collision damage reduction brakes

- Evaluation of vehicle safety performance
- Publishing of evaluation results

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Visualization of safety performance

Expanding the use of safer vehicles

How drivers benefit



Car users are able to select safer cars based on evaluation results.

How manufacturers benefit

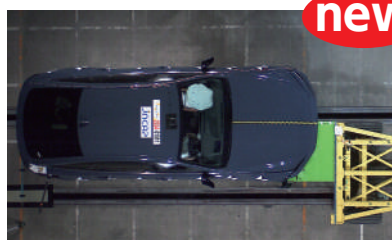


Manufacturers are able to develop safer vehicles based on evaluation results

Evaluation Items for Vehicle Safety Performance in FY2024

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.



new



new

[Evaluation items for collision safety performance]

<Technology to protect the occupants of a car>

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

<Technology to protect pedestrians>

- Pedestrian head protection performance
- Pedestrian leg protection performance (collision involving the femur, knee and tibia) **new**

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.



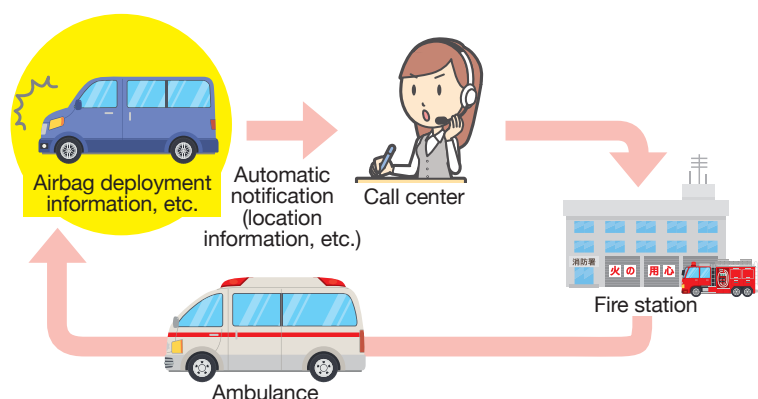
[Evaluation items for preventive safety performance]

- Autonomous Emergency Braking System (AEBS)
 - For collisions with pedestrians in front of the vehicle: during daytime
 - For collisions with pedestrians in front of the vehicle: during nighttime [roads with/without street lights]
 - For collisions with bicycles in front of the vehicle
 - For collisions with oncoming traffic when turning right at intersections **new**
 - For collisions with crossing pedestrians when turning right or left at intersections **new**
- 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)

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



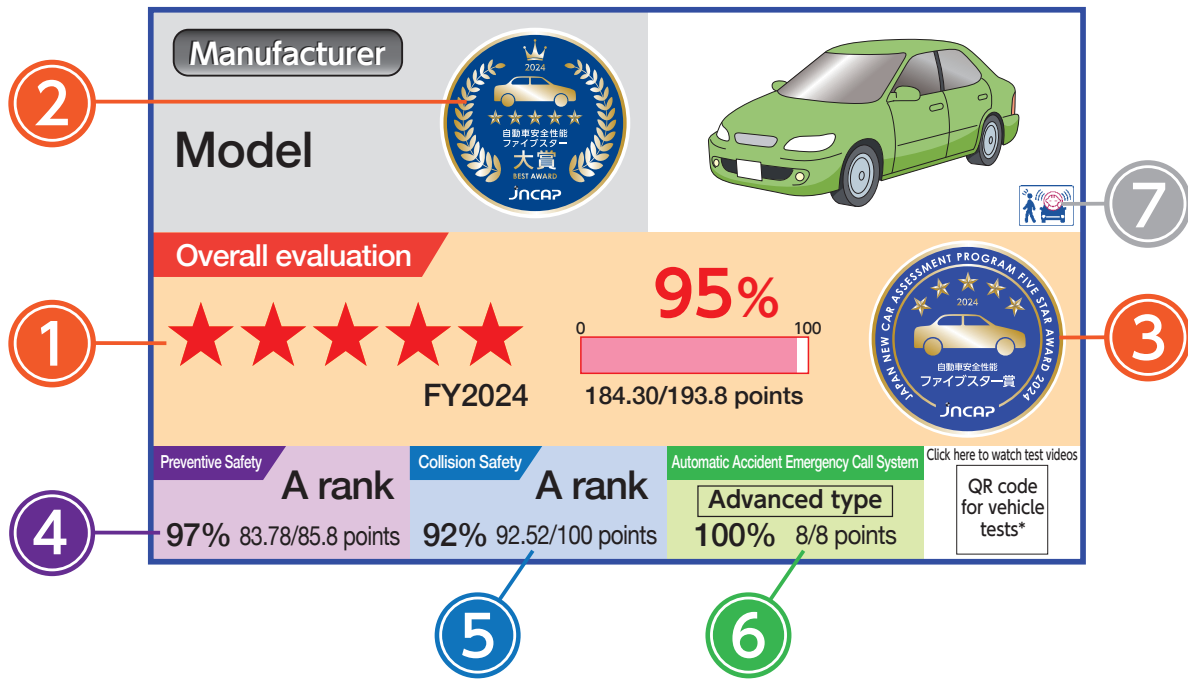
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How to Read the Evaluation Results of Vehicle Safety Performance 2024



*"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 193.8.

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 FY2024.

③ Five Star Award

This award is given to models receiving the highest rating (★★★★★) in the overall evaluation for FY2024.

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 85.8.

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.

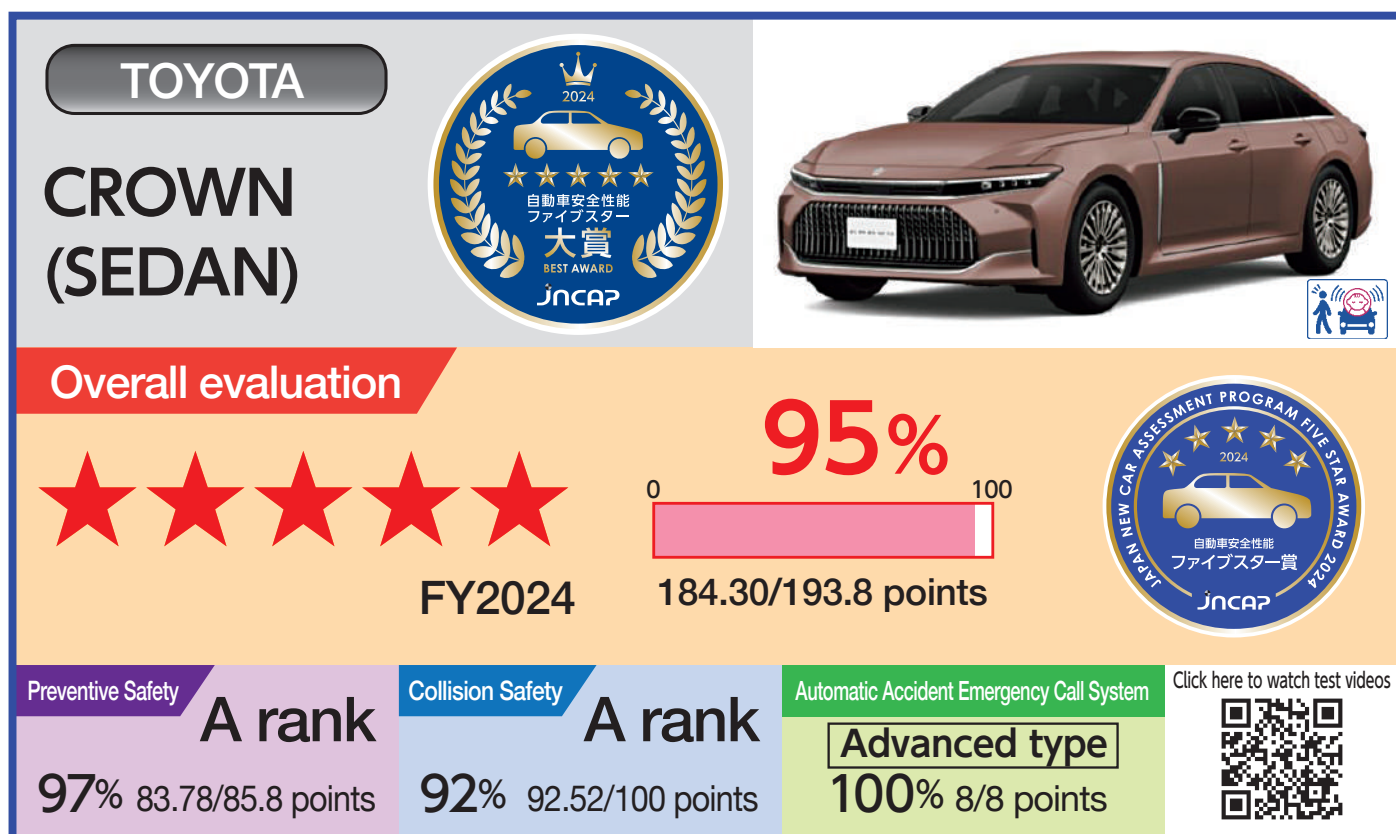
“Basic type” (2 points): Automatic emergency notification of the occurrence of an accident

“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.

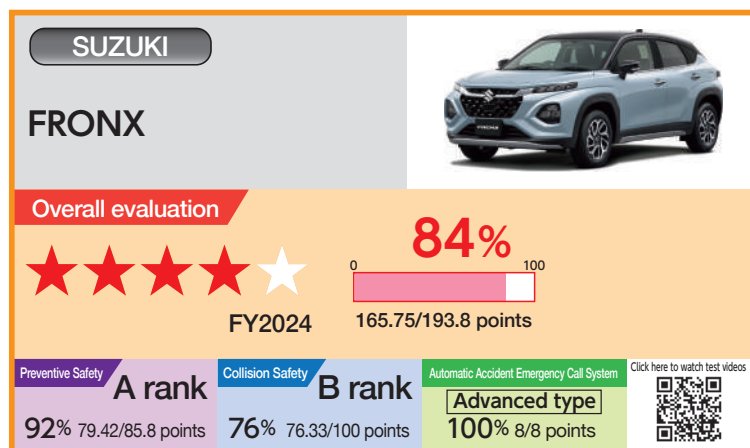
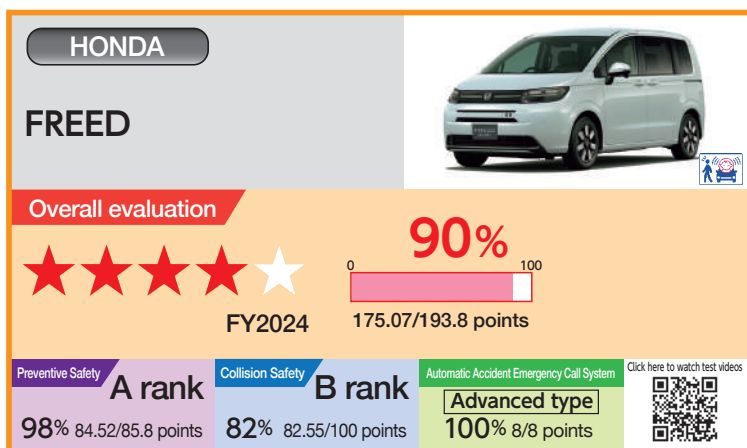
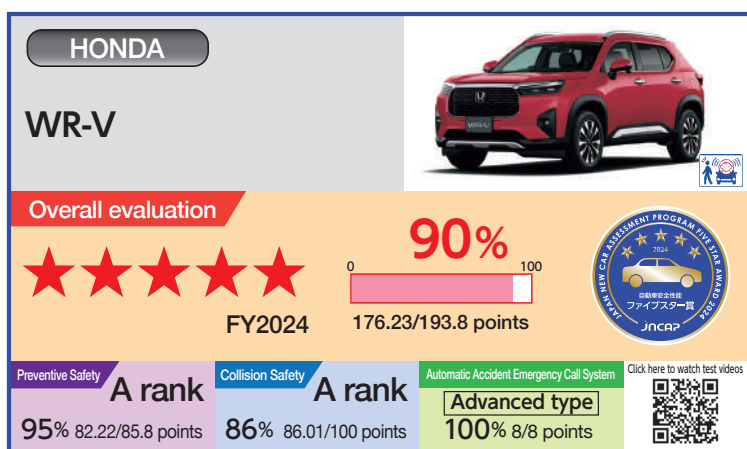
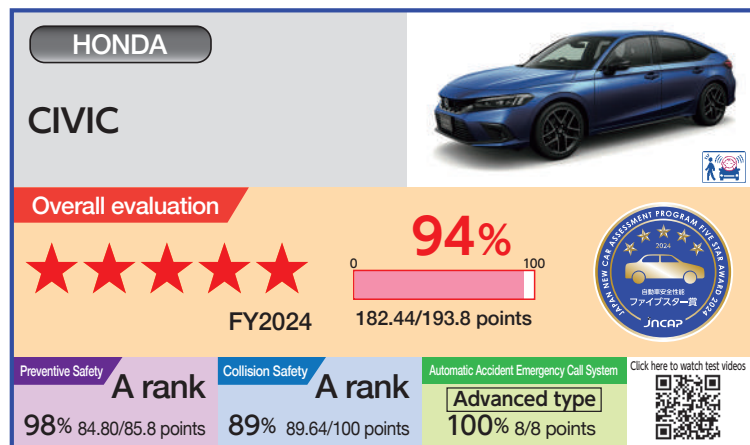
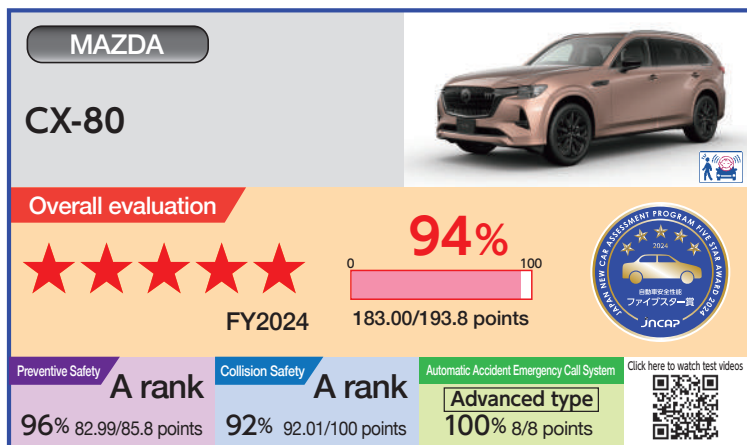
TOYOTA CROWN (SEDAN) wins Five Star Best Award



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.



Determining the Overall Evaluation

Until FY2019, preventive safety performance and collision safety performance were evaluated separately.

From FY2020 onward, the “Overall Evaluation” is used, which is determined from the sum total of the scores of these two evaluations, as well as other factors.

Under this system, motorists can be informed the overall safety performance of a vehicle in an easier-to-understand manner, expressed in the number of stars (★) awarded.

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



Preventive safety performance (Total maximum score of 85.8 points)

Evaluation results	Total score for preventive safety performance
A rank	69.44 points or more
B rank	50.20 or more and under 69.44 points
C rank	33.20 or more and under 50.20 points
D rank	16.52 or more and under 33.20 points
E rank	Under 16.52 points

*The five-level rank is determined based on the sum total of each evaluation item for both preventive safety performance and collision safety performance. If an individual evaluation item is below a certain level, rank A cannot be obtained. The scores for both performance categories are calculated based on the achieved effect on reducing the number of fatalities and serious injuries in accidents.



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 46.35 points



Automatic accident emergency call system (Full score: 8 points)



Overall evaluation (Total maximum score of 193.8 points)

Evaluation results	Total score for preventive safety performance and collision safety performance
★★★★★	154.07 points or more
★★★★	122.09 or more and under 154.07 points
★★★	92.27 or more and under 122.09 points
★★	62.85 or more and under 92.27 points
★	Under 62.85 points

*Requirements for a five-star rating:

The preventive safety performance rating and collision safety performance rating of the vehicle must both be rank A, and the vehicle must also be equipped with an automatic accident emergency call system.

List of Evaluation Results of Vehicle Safety Performance 2024

		TOYOTA CROWN (SEDAN)	MAZDA CX-80	HONDA CIVIC	HONDA WR-V	HONDA FREED	SUZUKI FRONX
rank/A・B・C・D・E Preventive Safety	Rank	A	A	A	A	A	A
	Score ratio	97%	96%	98%	95%	98%	92%
	Total score [85.8]	83.78	82.99	84.80	82.22	84.52	79.42
rank/A・B・C・D・E Collision Safety	Rank	A	A	A	A	B	B
	Score ratio	92%	92%	89%	86%	82%	76%
	Total score [100.0]	92.52	92.01	89.64	86.01	82.55	76.33
Automatic Accident Emergency Call System	Type	Advanced type	Advanced type	Advanced type	Advanced type	Advanced type	Advanced type
	Score ratio	100%	100%	100%	100%	100%	100%
	Score [8]	8	8	8	8	8	8
Overall evaluation	Evaluation Results	★★★★★	★★★★★	★★★★★	★★★★★	★★★★☆	★★★★☆
	Score ratio	95%	94%	94%	90%	90%	84%
	Total score [193.8]	184.30	183.00	182.44	176.23	175.07	163.75

*From Vehicle Safety Performance 2024, evaluations have been introduced covering a vehicle's Automatic Emergency Braking System (AEBS) for accidents at intersections, offset frontal collisions which takes into account the impact on the other vehicle, and pedestrian leg protection, which also includes the thighs. In addition, for full-wrap frontal collisions, the type and position of the crash dummies used during tests have been changed. Due to these changes in the evaluation content, the distribution of points has also changed, and direct comparison of safety performance with previously evaluated vehicle types is consequently not possible.



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Japan New Car Assessment Program



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