

Delivering Products Which Help Prevent Traffic Accidents



Progress in FY2022

Safety Support Car S Wide Models
[FY2021: 17 vehicle models]

16 vehicle models

Models Certified by the Ministry of Land, Infrastructure, Transport and Tourism (MLIT) as Having Forward Collision Mitigation Braking
[FY2021: 15 vehicle models]

15 vehicle models

Models Certified by the MLIT as having Pedal Misapplication Prevention Devices
[FY2021: 17 vehicle models]

16 vehicle models

Models adopting the Collision Safety Technology "RISE" (Excluding Vehicle Models Provided by OEM)
[FY2021: 12 vehicle models]

12 vehicle models

- The new "Delica Mini" (launched in May 2023) is certified as a Safety Support Car S Wide Models.
- Furthermore, its forward collision mitigation brake and pedal misapplication prevention device are certified as achieving a certain degree of performance under the MLIT's Performance Certification System.

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Basic Approach

MITSUBISHI MOTORS is aware of its responsibility towards traffic safety as an automaker, and we have identified "Delivering products which help prevent traffic accidents" as a key part of our sustainability activities.

Approximately 1.35 million people are lost in traffic accidents worldwide every year.* As vehicle ownership increases in emerging countries in particular, traffic accident fatalities are also on the rise. Reducing the number of traffic accidents is an urgent matter globally. A target was adopted for Target 3.6 of the Sustainable Development Goals (SDGs) at the 74th UN General Assembly held in 2020. This target calls for halving the number of global deaths and injuries from road traffic accidents between 2021 and 2030.

We are upholding the safety philosophy towards a car society with zero traffic accidents. To this end, we are taking action from two perspectives: developing and disseminating safety technologies and promoting traffic safety education.

*2018 World Health Organization (WHO) survey

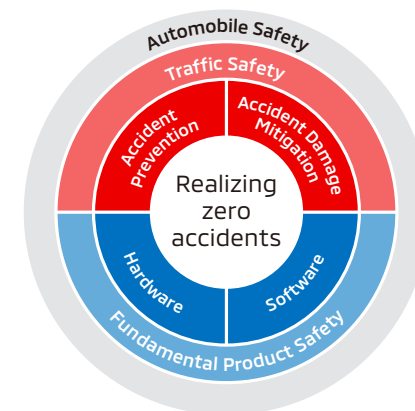
Management Structure

With regard to product development, the product safety committee has established guidelines and a strategy for safe development based on the MITSUBISHI MOTORS' safety philosophy. The committee also formulated an automobile safety framework as our approach to safety technology. We are conducting initiatives based on three points:

1. Technology to help prevent traffic accidents (active safety)
2. Technology to mitigate damage from traffic accidents (passive safety)
3. Avoidance of dangers, both in hardware and software, assumed as industrial products (fundamental product safety)

We are also working to enhance the management structure by educating R&D personnel, promoting awareness of the safety philosophy and automobile safety framework.

Automobile Safety Framework





Development of Safety Technology

By reflecting a variety of safety technologies in our products, MITSUBISHI MOTORS aims to help our customers drive in safety, peace of mind and comfort.

Active Safety Technology to “Avoid Crashes”

We are working to develop and install various active safety technologies to help to eliminate traffic accidents preemptively.

MITSUBISHI MOTORS Safety Sensing [MMSS]

Using millimeter-wave radar and cameras, these technologies help to detect the risk of accidents and help prevent, avoid or mitigate damage.

Examples of Preventive Safety Features

Function	Description
Forward Collision Mitigation Brake System	Detects vehicles and pedestrians ahead. If there is a risk of collision, the system alerts the driver or applies the brakes to help avoid a collision or mitigate collision damage.
Forward Collision Prediction Warning	Monitors two vehicles in front of the traveler. It detects a change in the situation ahead which is difficult to see from the driver, and alerts the driver with an alarm and a display.
Lane Departure Warning System and Lane Departure Prevention Function	The warning system monitors the lane markers ahead of the vehicle and provides alarms and displays to alert the driver if the vehicle appears likely to drive out of the lane. In addition, the Lane Departure Prevention Function takes control of the brakes for a short period of time, helping to keep the vehicle in its lane.
Adaptive Cruise Control System	This system automatically follows the vehicle ahead by accelerating, decelerating or stopping. By helping to maintain a set distance between vehicles, the system reduces the burden on the driver.
Ultrasonic Misacceleration Mitigation System	When the driver drives forward or in reverse, the system helps to prevent acceleration caused by misoperation of the gear shift or accelerator pedal.
Automatic High Beam	Automatically switches between low beams and high beams by detecting whether there is an approaching vehicle or vehicle ahead, the ambient lighting conditions, and other factors, helping safer nighttime driving.

Scope of Support Cars Expanded

Safety support cars are vehicles equipped with advanced technologies that support safe driving. It is a new automotive safety concept, as an effort to help prevent traffic accidents among senior drivers, being promoted in Japan through collaboration between the government and private sectors. Vehicles are classified into the following categories: “Safety Support Cars” or and “Safety Support Cars S” (Basic, Basic +, and Wide) depending on the features in each vehicle. We are expanding our lineup of Safety Support Car S Wide Models.

Safety Support Car Models (As of June 2023)

Safety Support Car S Wide Models	
OUTLANDER PHEV model	
ECLIPSE CROSS PHEV model	
ECLIPSE CROSS gasoline model	
RVR	
DELICA D:5	DELICA D:5 URBAN GEAR
eK X EV	eK X
eK WAGON	eK SPACE
Delica Mini	
DELICA D:2	DELICA D:2 CUSTOM
TOWN BOX	
MINICAB VAN*	MINICAB TRUCK*

Note: Some grades are excluded.

In addition, our forward collision mitigation braking system and pedal misapplication prevention device have been certified as achieving a certain degree of performance under the Ministry of Land, Infrastructure, Transport and Tourism’s “Advanced Safety Technology Performance Evaluation Certification System.”

Certified Models (As of June 2023)

(Forward Vehicles) Forward Collision Mitigation Braking System
(Pedestrians) Forward Collision Mitigation Braking System

OUTLANDER PHEV model	
ECLIPES CROSS PHEV model* ¹	
ECLIPES CROSS gasoline model* ¹	
DELICA D:5* ²	DELICA D:5 URBAN GEAR* ²
eK X EV	eK X
eK WAGON	eK SPACE
Delica Mini	
DELICA D:2	DELICA D:2 CUSTOM
TOWN BOX	
MINICAB VAN* ³	MINICAB TRUCK* ³

*¹ For some grades, forward vehicles only

*² Forward vehicles only

*³ For some grades only

Pedal Misapplication Prevention Device

OUTLANDER PHEV model	
ECLIPES CROSS PHEV model	
ECLIPES CROSS gasoline model	
RVR* ⁴	
DELICA D:5* ⁴	DELICA D:5 URBAN GEAR* ⁴
eK X EV	eK X
eK WAGON	eK SPACE
Delica Mini	
DELICA D:2	DELICA D:2 CUSTOM
TOWN BOX	
MINICAB VAN* ⁵	MINICAB TRUCK* ⁵

*⁴ Forward only

*⁵ For some grades only

Vehicles which Pedal Misapplication Prevention Device can be retrofitted

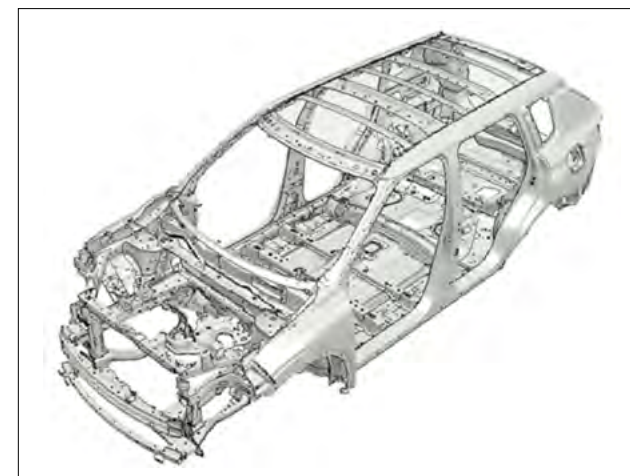
eK WAGON (2013–2019)	eK CUSTOM (2013–2019)
eK SPACE (2014–2020)	eK SPACE CUSTOM (2014–2020)
MIRAGE (2012–2023)	DELICA D:5 (from 2007)

Body Structures that “Protect People”

In the event of a collision, it is crucial to have a vehicle body structure that mitigates the impact on passengers and provides adequate space. MITSUBISHI MOTORS has adopted the Reinforced Impact Safety Evolution (RISE) body, and enhance collision safety performance in all directions: front, rear, and sides.

For example, the “OUTLANDER gasoline model,” which launched in North America in April 2021 and the “OUTLANDER PHEV model,” which also launched in Japan in December 2021, use a front-to-rear straight frame structure that can efficiently absorb collision energy. The vehicle interior (cabin) uses high-tensile-strength steel, as in the past. In addition, hot-stamped ultrahigh-tensile-strength steel is used to achieve enhanced passenger safety while reducing weight.

We are also pursuing safety with regard to pedestrians, as well as drivers and passengers. For example, we have adopted energy-absorbing structures in the hood, cowl top, windshield wipers and other parts to mitigate injury to pedestrians' heads. Energy-absorbing structures that help to protect pedestrians' legs are used in bumper faces and headlights, for example.



RISE Body used in the “OUTLANDER PHEV model”

Models Adopting

(As of June 2023: Excluding Models Provided by OEM)

Reinforced Impact Safety Evolution (RISE)

OUTLANDER PHEV model	
ECLIPES CROSS PHEV model	
ECLIPES CROSS gasoline model	
RVR	
DELICA D:5	DELICA D:5 URBAN GEAR
eK X EV	eK X
eK WAGON	eK SPACE
Delica Mini	
MINICAB-MiEV	

Results of Major Third-Party Safety Assessment (As of June 2023)

Region	Third-Party Evaluation	Rating	Model
Japan	JNCAP ^{*1}	5☆	OUTLANDER PHEV model ECLIPES CROSS gasoline model eK X EV
Australia	ANCAP ^{*1}	5☆	OUTLANDER PHEV model OUTLANDER gasoline model ECLIPES CROSS PHEV model ECLIPES CROSS gasoline model
United States	IIHS ^{*2}	2022 Top Safety Pick+	OUTLANDER gasoline model
		2023 Top Safety Pick	OUTLANDER PHEV model ^{*3}
Latin America	Latin NCAP ^{*1}	5☆	OUTLANDER gasoline model
ASEAN	ASEAN NCAP ^{*1}	5☆	ECLIPES CROSS gasoline model

^{*1} Abbreviation of New Car Assessment Program. An automobile safety testing and assessment program implemented by a third-party organization in each country or region.

^{*2} Abbreviation of Insurance Institute for Highway Safety.

^{*3} Vehicles produced after May 2023

Avoidance of Dangers Assumed as Industrial Products

On the hardware (physical) side, MITSUBISHI MOTORS uses flame-retardant materials, employ isolation structures on high-voltage components and use other technologies to enhance safety and security.

On the software side, we use firewalls on vehicle networks and employ encrypted communications to reduce the risk of cyber threats via electrical equipment mounted in vehicles.

Traffic Safety Education and Promotion

We seek to reduce the number of traffic accidents by conducting traffic safety education and promoting awareness. In these ways, we are working to raise safety awareness throughout society.

Dissemination of Traffic Safety Information

Automobile Safety Facts Guide Website

We disseminate information on website on the proper use of equipment and other topics that require drivers' special attention so that drivers will use automobiles more safely.



Automobile Safety Facts Guide

(WEB) <https://www.mitsubishi-motors.co.jp/support/safety/popup/index.html>
(only in Japanese)