

# MRC TECHNICAL eBULLETIN

RAISING STANDARDS FOR THE AUTOMOTIVE INDUSTRY



**AUDI MALAYSIA  
RECALLS 2,767 CARS**

**IBIS GLOBAL  
SUMMIT 2023**


**NEW MRC VEHICLE  
INFORMATION FACT SHEET**

Thank you for reading this MRC Technical eBulletin issue #02/2023/008. If you have any questions regarding the content, or suggestion for improvement, please contact MRC Malaysia via

 No.7, Jalan Pelukis U1/46A, Kawasan Perindustrian Temasya, 40150 Shah Alam, Selangor

 03-5568 1888

 [www.mrc.com.my](http://www.mrc.com.my)

 [ardd@mrc.com.my](mailto:ardd@mrc.com.my)

ISSUE #02/2023/008



# Introduction

Hello everyone,

We bring insights into a newly introduced MRC Vehicle Information (MVI) Fact Sheet for new vehicles in Malaysia, along with information regarding recalls for the Audi vehicles with concerns on Takata airbags. We also like to share the latest news from MRC Malaysia attendance at the IBIS Global Summit 2023 along with the 11th edition of INAPA 2023 and Malaysia Autoshow 2023.

Furthermore, in this edition, we would like to share the latest updates from the MRC Academy on National Training Week 2023 (NTW 2023) and the MRC e-Learning platform where there are a number of new online courses offered to improve technical knowledge and skills.

Malaysia is celebrating the 66th National Day of Malaysia on 31 August 2023. The theme for the celebration this year will follow the concept of "Malaysia Madani : Tekad Perpaduan, Penuhi Harapan". I would like to take this opportunity to wish "Selamat Menyambut Hari Kemerdekaan" to all Malaysians and may this day bring fortune and success to every one of us.



**Steve Miller**  
Chief Executive Officer, MRC Malaysia



05



09

15



17

# 05

## MVI Fact Sheet

Newly introduced MRC Vehicle Information Fact Sheets for Perodua Axia 2023, Kia Carnival 2022, Proton X90 2023 and Volvo XC40 2022.

# 09

## Recalls

Recalls by PHS Automotive Malaysia (PHSAM) on various models of Audi vehicles.



# 11

## Database Releases at a Glance

Summary of the past four months of MRC database releases.

# 15

## MRC Malaysia News

Sharing the latest news and updates of MRC Malaysia from the IBIS Global Summit 2023, 11th edition of INAPA 2023 and the Malaysia Autoshow 2023.

# 17

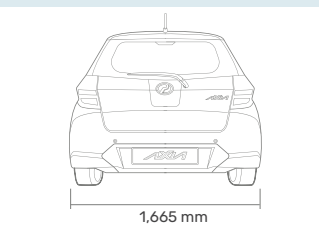
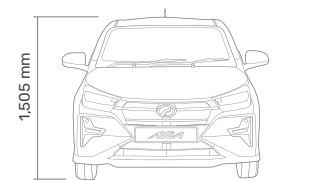
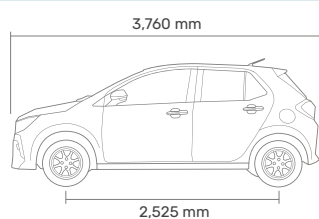
## MRC Academy News

Sharing the latest updates and activities from the MRC Academy on the National Training Week 2023 (NTW 2023) and the MRC e-Learning platform.

VEHICLE

Manufacturer : Perodua  
 Model : Axia  
 Year : 2023 On  
 MVI Code : PE209 - PE212  
 MRC Times : TC022  
 Version : MVI230801\_R1

DIMENSION



CRASH SAFETY RATING



Overall Score  
**73.55**



VEHICLE SPECIFICATIONS

Variant	Axia 1.0L G	Axia 1.0L X	Axia 1.0L SE	Axia 1.0L AV
Price	RM 38,600	RM 40,000	RM 44,000	RM 49,500
Engine	12-valve DOHC, Naturally Aspirated with Variable Valve Timing			
Capacity	998 cc			
Power	67 hp at 6,000 rpm			
Torque	91 Nm at 4,400 rpm			
Transmission Type	CVT Automatic			
MVI Code	PE209	PE210	PE211	PE212
TTS Code	TC022			

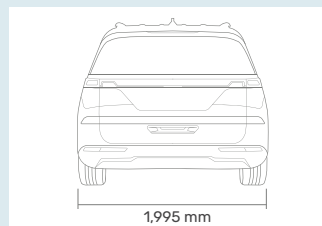
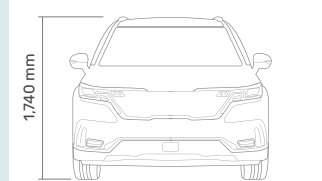
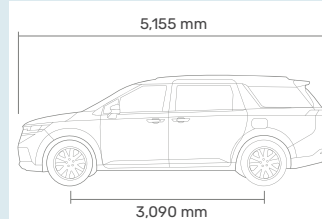
VEHICLE FEATURES

<b>AEB</b> AUTONOMOUS EMERGENCY BRAKING PE212 ONLY	<b>LKA</b> LANE-KEEPING ASSIST PE212 ONLY	<b>LDW</b> LANE DEPARTURE WARNING PE212 ONLY	<b>BSD</b> BLIND SPOT DETECTION PE212 ONLY	<b>FCW</b> FORWARD COLLISION WARNING PE212 ONLY
<b>RTA</b> REAR TRAFFIC ALERT PE212 ONLY	<b>HSA</b> HILL-START ASSIST ALL VARIANTS	<b>VSC</b> VEHICLE STABILITY CONTROL ALL VARIANTS	<b>SRS AIRBAGS</b> PE212 ONLY	<b>SRS AIRBAGS</b> PE209, PE210 & PE211
<b>ISOFIX</b> ALL VARIANTS	<b>KEYLESS-ENTRY SYSTEM</b> PE210, PE211 & PE212	<b>PARKING SENSOR</b> PE210, PE211 & PE212	<b>PMC</b> PEDAL MISOPERATION CONTROL PE212 ONLY	<b>IMMOBILIZER</b> ALL VARIANTS

VEHICLE

Manufacturer : Kia  
 Model : Carnival  
 Year : 2022 On  
 MVI Code : KI081 - KI084  
 MRC Times : TC047  
 Version : MVI230801\_R1

DIMENSION



CRASH SAFETY RATING

ASEAN NCAP  
**NOT TESTED**

OTHER NCAP



VEHICLE SPECIFICATIONS

Variant	11-Seater	8-Seater Mid	8-Seater High	7-Seater High
Price	RM 196,340	RM 231,288	RM 247,228	RM 261,228
Engine	16-valve DOHC with Variable Geometry Turbocharger and Direct Injection			
Capacity	2,151 cc			
Power	199 hp at 3,800 rpm			
Torque	440 Nm at 1,750 rpm			
Transmission Type	8-Speed Conventional Automatic			
MVI Code	KI081	KI082	KI083	KI084
TTS Code	TC047			

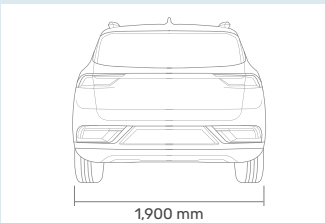
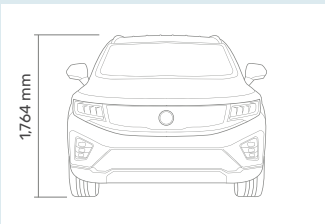
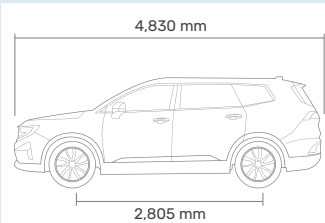
VEHICLE FEATURES

<b>FCW</b> FORWARD COLLISION WARNING KI083 & KI084	<b>AEB</b> AUTONOMOUS EMERGENCY BRAKING KI083 & KI084	<b>R-AEB</b> REAR AUTONOMOUS EMERGENCY BRAKING KI083 & KI084	<b>LKA</b> LANE-KEEPING ASSIST KI083 & KI084	<b>RTA</b> REAR TRAFFIC ALERT KI081, KI083 & KI084
<b>BSD</b> BLIND SPOT DETECTION KI083 & KI084	<b>360°</b> 360-DEGREE CAMERA KI081, KI083 & KI084	<b>ACC</b> ADAPTIVE CRUISE CONTROL KI083 & KI084	<b>SRS AIRBAGS</b> ALL VARIANTS	<b>AHB</b> AUTO HIGH BEAM KI083 & KI084
<b>HSA</b> HILL-START ASSIST ALL VARIANTS	<b>EPB</b> ELECTRONIC PARKING BRAKE ALL VARIANTS	<b>POWER DOOR</b> ALL VARIANTS	<b>POWER TAILGATE</b> ALL VARIANTS	<b>PADDLE SHIFT</b> ALL VARIANTS

VEHICLE

Manufacturer : Proton  
 Model : X90  
 Year : 2023 On  
 MVI Code : PR286 - PR289  
 MRC Times : TC037  
 Version : MVI230801\_R1

DIMENSION



VEHICLE SPECIFICATIONS

Variant	Standard	Executive	Premium	Flagship
Price	RM 123,800	RM 130,800	RM 144,800	RM 152,800
Engine	Inline-3 12V DOHC Turbocharged Direct Injection			
Capacity	1,477 cc			
Power	177 hp at 5,500 rpm			
Torque	255 Nm at 1,500 rpm			
Transmission Type	7-Speed Dual-clutch Automatic (Wet)			
MVI Code	PR286	PR287	PR288	PR289
TTS Code	TC037			

VEHICLE FEATURES

 <b>AEB</b> AUTONOMOUS EMERGENCY BRAKING PR288 & PR289	 <b>FCW</b> FORWARD COLLISION WARNING ALL VARIANTS	 <b>ACC</b> ADAPTIVE CRUISE CONTROL PR288 & PR289	 <b>PA</b> AUTO PARK ASSIST PR287, PR288 & PR289	 <b>LKA</b> LANE-KEEPING ASSIST PR288 & PR289
 <b>RTA</b> REAR TRAFFIC ALERT ALL VARIANTS	 <b>BSD</b> BLIND SPOT DETECTION ALL VARIANTS	 <b>360°</b> 360-DEGREE CAMERA PR287, PR288 & PR289	 <b>HSA</b> HILL-START ASSIST ALL VARIANTS	 <b>SRS AIRBAGS</b> ALL VARIANTS
 <b>AHB</b> AUTO HIGH BEAM PR288 & PR289	 <b>POWER TAILGATE</b> PR288 & PR289	 <b>AUTO START STOP</b> ALL VARIANTS	 <b>EPB</b> ELECTRONIC PARKING BRAKE ALL VARIANTS	 <b>DASHCAM</b> PR289 ONLY

CRASH SAFETY RATING



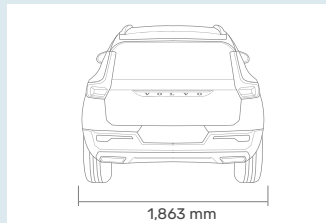
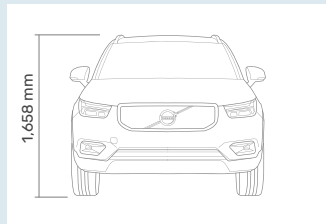
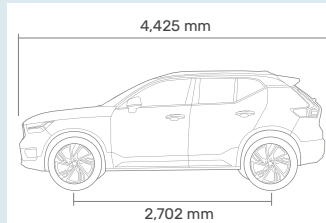
Overall Score  
83.75



VEHICLE

Manufacturer : Volvo  
 Model : XC40 EV  
 Year : 2022 On  
 MVI Code : V0089  
 MRC Times : TC025  
 Version : MVI230801\_R1

DIMENSION



VEHICLE SPECIFICATIONS

Variant	Recharge P8
Price	RM 262,459
Engine	Dual electric permanent magnet synchron front and rear motors
Battery Capacity	78.0 kWh
Motor Power	402 hp
Motor Torque	660 Nm
EV Range	418 km
MVI Code	V0089
TTS Code	TC025

VEHICLE FEATURES

 <b>FCW</b> FORWARD COLLISION WARNING	 <b>LKA</b> LANE-KEEPING ASSIST	 <b>AEB</b> AUTONOMOUS EMERGENCY BRAKING	 <b>R-AEB</b> REAR AUTONOMOUS EMERGENCY BRAKING	 <b>ACC</b> ADAPTIVE CRUISE CONTROL
 <b>BSD</b> BLIND SPOT DETECTION	 <b>PA</b> AUTO PARK ASSIST	 <b>360°</b> 360-DEGREE CAMERA	 <b>SRS AIRBAGS</b>	 <b>ISOFIX</b>
 <b>AHB</b> AUTO HIGH BEAM	 <b>EPB</b> ELECTRONIC PARKING BRAKE	 <b>POWER TAILGATE</b>	 <b>HSA</b> HILL-START ASSIST	 <b>0-100km/h</b> 4.9 SECOND

CRASH SAFETY RATING

ASEAN NCAP  
NOT TESTED



# ... Recalls

## Audi Malaysia recalls 2,767 cars on Takata airbag issue

The new Audi distributor in Malaysia, PHS Automotive Malaysia (PHSAM) has announced a voluntary recall for 2,767 of Audi cars that were fitted with Takata airbags or gas generator for the airbag unit on the driver's side, passenger side and the curtain. Based on the manufacturer's latest update, there is a potential that the gas generator housing may be damaged if the airbag is deployed. This could cause small metal parts to become dislodged from the housing and this poses a serious safety risk.



This exercise involves Audi A4 Sedan, A5 Sportback, A6 Sedan, Q5 and TT Coupe models manufactured between 2008 and 2017. According to PHSAM, owners of the vehicles are urged to bring their cars to any Audi Centre for a complimentary inspection and replacement of the parts, if necessary.

"At Audi, safety is paramount, and this will continue to be one of the distinguishing factors in our ongoing efforts to improve aftersales service. We recognize that the top reasons customers choose Audi are for its performance and safety features, and it is a high standard we will continue to uphold responsibly," said Erik Winter, MD of PHSAM.



# Database Release at a Glance

APRIL 2023

## New Vehicle Released



BMW 1-Series 2020



BMW 4-Series 2021



Nissan Serena 2022



3

MODELS



7

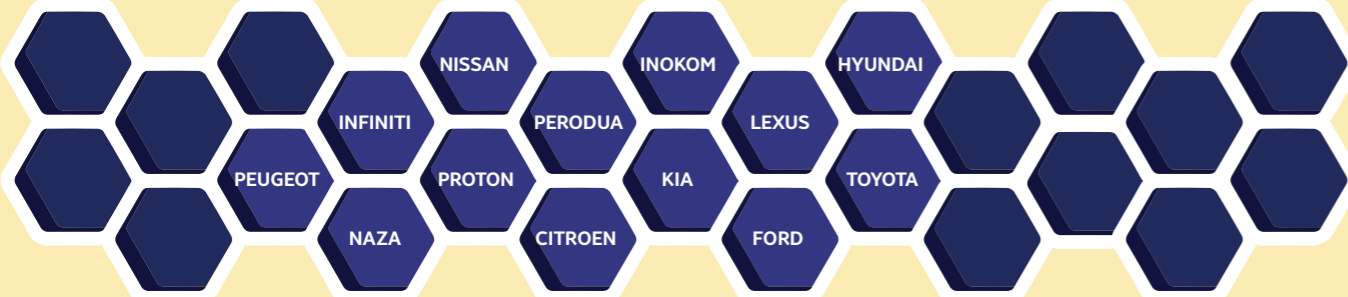
DERIVATIVES



5,125

TOTAL LINE ITEM ATTACHED

## Manufacturer's Price Updates



13

TOTAL VEHICLE MANUFACTURERS



10,764

TOTAL PARTS PRICE CHANGES



7,367

TOTAL NEW PARTS



9,039

TOTAL SUPERSESSION

MAY 2023

## New Vehicle Released



Kia EV6 2022



Kia Carnival 2022



Proton X90 2023



Volvo XC40 2022



6

MODELS



12

DERIVATIVES



8,667

TOTAL LINE ITEM ATTACHED

## Manufacturer's Price Updates



15

TOTAL VEHICLE MANUFACTURERS



3,508

TOTAL PARTS PRICE CHANGES



12,354

TOTAL NEW PARTS



20,164

TOTAL SUPERSESSION

# Database Release at a Glance

JUN 2023

## New Vehicle Released



Mini Cooper EV 2020 & 2021



Toyota Hilux 2022



3

MODELS



4

DERIVATIVES



2,812

TOTAL LINE ITEM ATTACHED

## Manufacturer's Price Updates



14

TOTAL VEHICLE MANUFACTURERS



4,663

TOTAL PARTS PRICE CHANGES



6,110

TOTAL NEW PARTS



13,031

TOTAL SUPERSESSION

JULY 2023

## New Vehicle Released



BMW 5-Series 2021



Honda City 2021 & 2022



Perodua Axia 2023



4

MODELS



9

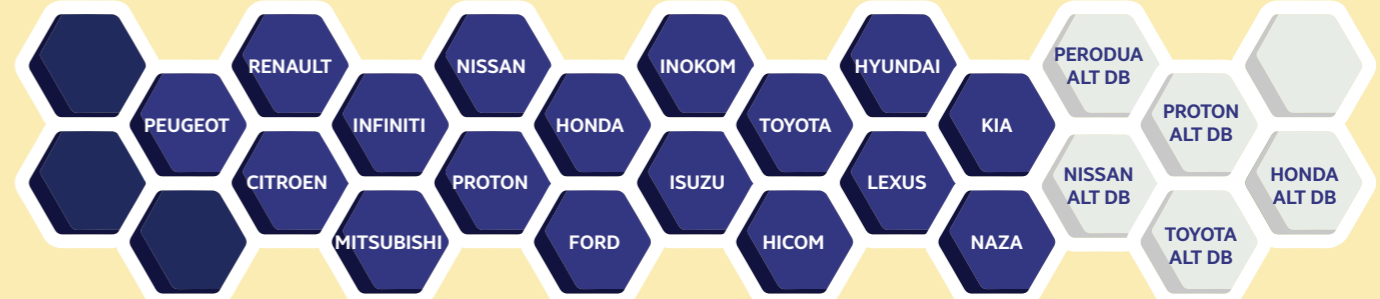
DERIVATIVES



5,803

TOTAL LINE ITEM ATTACHED

## Manufacturer's Price Updates



17

TOTAL VEHICLE MANUFACTURERS



9,730

TOTAL PARTS PRICE CHANGES



13,942

TOTAL NEW PARTS



20,282

TOTAL SUPERSESSION



1,629

TOTAL PARTS PRICE UPDATES (ALT DB)

ALT DB = Alternative Parts Database



# ... MRC Malaysia News



## IBIS Global Summit 2023

MRC Malaysia participated in the esteemed IBIS Global Summit 2023, which was held at the Sheraton Milan San Siro, Italy, from June 28 to June 30, 2023. With an impressive lineup of experts and grassroots speakers, the conference centered around the theme 'Sustainable Strategies for Success,' further advancing the future of the auto collision repair industry on a global scale.

Milan's reputation as a city with rich history and culture makes it an ideal host for this prestigious event. The IBIS Global Summit aims to bring together industry leaders and influencers in the collision repair ecosystem, providing a platform for high-level discussions, innovative problem-solving, and valuable networking opportunities for all stakeholders of the vehicle repair industry.



## International Auto Parts, Accessories and Aftermarket Exhibition (INAPA) 2023



MRC Malaysia participated in the 11th edition of the annual INAPA exhibition which was held at the Jakarta International Expo (JIEXPO) Kemayoran, Jakarta, Indonesia, from May 24 to May 26, 2023. This event created a path for MRC Malaysia to explore the promising opportunities of the Indonesian market.

The exhibition featured a diverse range of products and services related to spare parts, accessories, buses, trucks, bikes, fasteners, tires, lubricants, grease and electric vehicle platforms, with a focus on showcasing the convergence of technologies and products along the value chain.

INAPA served as a significant international trade exhibition for the automotive supporting industry in Indonesia, providing an annual platform for manufacturers and suppliers worldwide to present their latest auto components, parts, equipment, tools, technology and methods to a targeted audience of maintenance professionals from various countries.



## Malaysia Autoshow 2023



The Malaysia Autoshow 2023 was held from May 5 to May 7, 2023. This event was organized by the Malaysia Automotive, Robotics, and IoT Institute (MARII) and featured the latest motoring and automotive exhibits. MRC Malaysia also participated as an exhibitor in this event, providing an excellent opportunity for the public to become acquainted with our organization and to provide an insight into the work MRC Malaysia is doing for the industry and the benefits to the consumer.

The event included showcases of latest technology innovation that the public can anticipate in the near future. It was themed 'Mobility Redefined' together with concurrent events such as Malaysia EV Show, Malaysia Bike Show, exclusive CHARGED event, AutoFest event, more than 100 prominent car models on display and 4.5km of test drive route.



# ... MRC Academy News

## National Training Week 2023 (NTW 2023)

The Ministry of Human Resources and HRD Corp led the National Training Week 2023 (NTW 2023), with participation from various government ministries, agencies, industry players, individuals, industry associations, academia and training providers. It is a collective effort to make education accessible and beneficial to all.

NTW 2023, is a week-long event of nationwide training activities which brings together diverse organizations and individuals from different backgrounds and industries, creating abundant opportunities for learning and development.

In conjunction with this event, MRC Malaysia, in partnership with Perak Automobile Workshop Owners' Association (PAWOA) arranged a special training session for ESnet Academy's students at ESnet Jelapang Campus on May 23, 2023.



## MRC e-Learning

MRC Academy's e-Learning section or also known as MRC eCademy's main objective is to develop and enrich its e-Learning portal with up-to-date information on the automotive repair industry. We strongly believe in continuous improvement, recognizing that staying competitive in the automotive world requires regular skills and knowledge upgrading.

In ensuring our e-Learning platform stays current, we actively update our platform with the industry's education and skills programmes. Additionally, our e-Learning certification is eligible to be a part of the CPD program and receives support from AMLA and other automotive related industries.

The e-Learning packages we provide are:



- PACKAGE 1 - ADAS LEVEL 1**
- Advanced Driver Assistance System (ADAS) Awareness
  - ADAS 2.0



- PACKAGE 2 - ADAS LEVEL 2**
- ADAS Operational Parameters & Calibration
  - Automated Driving



- PACKAGE 3 - EV LEVEL 1**
- 48-Volt & Dual Voltage System
  - EV1 - Vehicle Identification
  - EV2 - Health & Safety



- PACKAGE 4 - EV LEVEL 2**
- EV3 - Vehicle Design
  - EV4 - Working Voltages & Equipment
  - EV7 - Post Accident Damage Assessment (Part 1)



- PACKAGE 5 - EV LEVEL 3**
- EV5 - Component Requirements
  - EV6 - General Repair
  - EV8 - Post Accident Damage Assessment (Part 2)



- PACKAGE 6**
- Adhesives & Bonding
  - Aluminium Cosmetic Repairs
  - Aluminium Welding



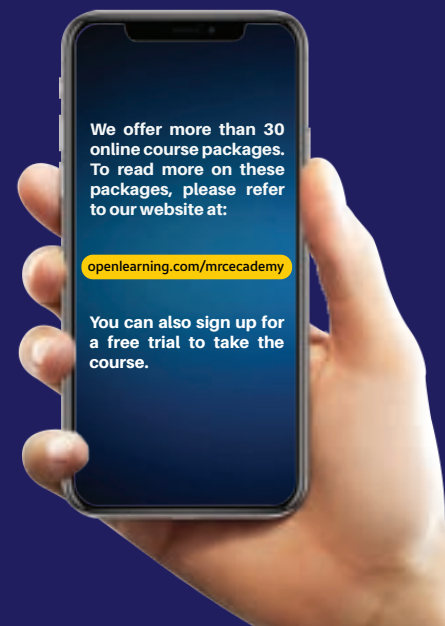
- PACKAGE 7**
- Plastic Repairs
  - Composite & Carbon Fibre



- PACKAGE 8**
- VDA Condition & Damage Appraisal
  - Repair Methods
  - Wheel Alignment
  - Mechanical Systems



- PACKAGE 9**
- CAN - Communication
  - Software Updates



We offer more than 30 online course packages. To read more on these packages, please refer to our website at:

[openlearning.com/mrccademy](https://openlearning.com/mrccademy)

You can also sign up for a free trial to take the course.