

MRC Technical eBulletin



Introduction

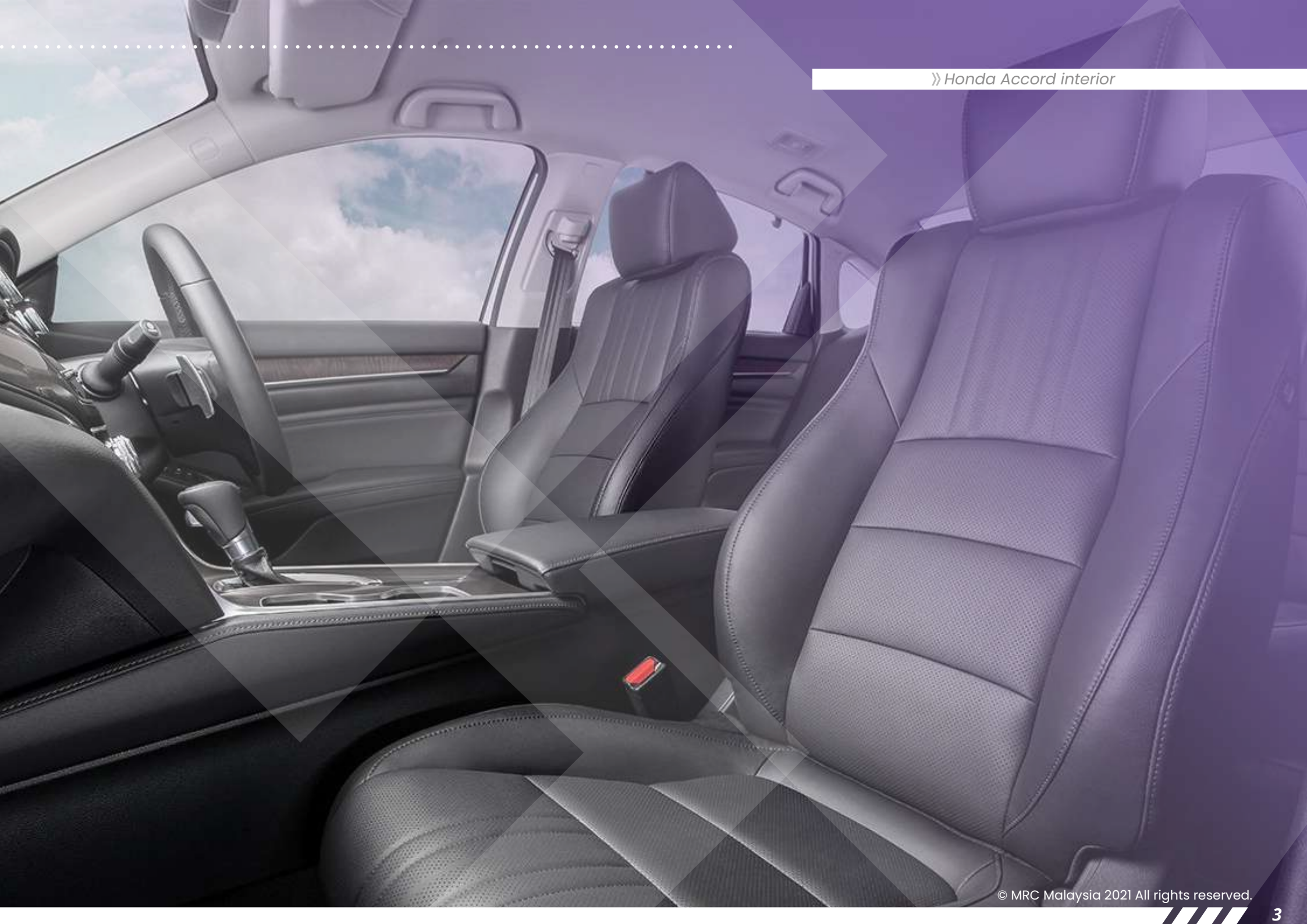
Hello everyone,

We bring insights into a number of new vehicles recently launched in Malaysia, along with information regarding recalls for the Toyota Avanza as well as recall on the Honda vehicles, with concerns regarding fuel pumps. We also include information on the ASEAN NCAP vehicle safety test and the overall rating for Proton Persona and Iriz.

At the time of writing, Malaysia has introduced a National Recovery Plan (PPN) where several changes have been made to standard operating procedures (SOPs) involving the automotive sector following positive development on the national vaccination rate. This is likely to have an impact on vehicle sales, production, and after sales, so hopefully I'll be able to share details on that next edition.

Until then, stay safe.

Steve Miller
Chief Executive Officer, MRC Malaysia



» Honda Accord interior

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Newly Launched Cars

Toyota Corolla Cross SUV launched

The 2021 Toyota Corolla Cross has finally made its Malaysian debut and it comes with two variants, 1.8G and 1.8V. The first batch of Corolla Cross is fully imported from Thailand and priced at RM124,000 for the 1.8G variant and RM129,266 for the 1.8V variant.

Both models come with a Blind Spot Monitor (BSM) with Rear Cross-Traffic Alert (RCTA) as standard, as well as passive cruise control, Tyre Pressure Warning System (TPWS), Vehicle Stability Control (VHC) with Traction Control (TRC), Hill-Start Assist Control (HAC), seven SRS airbags and 360-degree surround-view camera and front-facing dashcam.

However, the 1.8V is the only variant to get the Toyota Safety Sense which comes with Autonomous Emergency Braking (AEB), Pre-Collision System (PCS), Lane Departure Alert (LDA) with Steering Assist, Lane Tracing Assist (LTA), Dynamic Radar Cruise Control (DRCC) and Automatic High Beam (AHB).

MODEL	Toyota Corolla Cross 2021	
VARIANT	1.8G A/T	1.8V A/T
Retails Price	RM124,000	RM129,266
Body Type	SUV	
Horsepower	139 PS	
Engine	4-cylinder, In-line, 16-valve DOHC with Dual VVT-i	
Transmission	Continuous Variable Transmission (CVT)	
Length x Width x Height (mm)	4,460 x 1,825 x 1,620	
Fuel Economy	7.3 L/100 km	
Segment	C-Segment	



» Toyota Corolla Cross was released in MRCDB P57.0

“MRC Malaysia is
keep up to date with the
evolution of technology.”

Newly Launched Cars

Honda City 5th Generation launched

Honda Malaysia has now officially launched and announced the 5th generation of Honda City for the Malaysian market. The new Honda City is available in four variants which are 1.5S, 1.5E, 1.5V and 1.5 RS e:HEV and they are priced between RM74,191 to RM105,950.

For variants 1.5S, 1.5E and 1.5V, these three grades will share the same 1.5 liter naturally aspirated i-VTEC engine with a new DOHC version of 121 PS at 6,600 rpm and 145 Nm at 4,300 rpm. For RS e:HEV variant, it is equipped with two-motor i-MMD hybrid system which produced 108 PS and 253 Nm. Besides, it is also equipped with 1.5 litre Atkinson-cycle DOHC i-VTEC engine of 98 PS at 5,600 to 6,400 rpm and 127 Nm at 4,500 to 5,000 rpm.

MODEL	Honda City 2020			
VARIANT	City 1.5S	City 1.5E	City 1.5V	City 1.5 RS
Retails Price	RM 74,191.27	RM 81,664.82	RM 86,561.45	RM 105,950.45
Body Type	Sedan			
Horsepower	121 PS / 145 Nm			108 PS / 253 Nm
Engine	4 Cylinder, 16 Valve, DOHC i-VTEC			4 Cylinder, 16 Valve, DOHC i-VTEC (Atkinson Cycle)
Transmission	Continuous Variable Transmission (CVT)			Electric Continuous Variable Transmission (e-CVT)
Length x Width x Height (mm)	4,553 x 1,748 x 1,467			
Fuel Economy	5.4 L/100 km			3.6 L/100 km
Segment	C-Segment			



» Honda City was released in MRCDB P57.0

“MRC Malaysia is calling for a more cost-effective repair solution”

UMW Toyota Motor Malaysia Recalls Avanza

UMW Toyota Motor, Malaysia's official distributor for Toyota has issued recall for Toyota Avanza over an issue with their fuel pumps. Under this recall campaign, affects a total of 3,923 vehicles built from October 2017 to June 2019.

According to UMW Toyota Motor, the issue concerned with fuel pumps that may stop working and warning lights and messages may appear on the vehicle's instrument panel. It may affect the engine output and also compromise the driver's control of the vehicle as a result.

On top of that, models otherwise not listed in this recall campaign are not affected and UMW Toyota Motor will send a notification letter to affected owners to schedule replacement work at no charge to the customer.





Honda Malaysia Recalls Various Models

Honda Malaysia has announced product recalls involving 77,708 units of various Honda models to replace the fuel pump as a precautionary measure and this recall campaign is the extension of recall campaign made in June last year.

Under this campaign, the affected Honda models involved in the latest exercise were manufactured between 2018 and 2020 as listed in the chart below. According to them, all current selling models are not affected by this recall.

MODEL	Year Model	Units Affected
Accord	2018	512
	2019	780
BR-V	2018	7,112
	2020	6
City	2019	30,388
City (HEV)	2019	390
Civic	2018	6,240
	2019	2,776
CR-V	2019	9,843
	2020	1,381
HR-V	2018	7,679
HR-V (HEV)	2018	62
Jazz	2019	5,791
	2020	4,626
Jazz (HEV)	2019	92
	2020	30

Honda Malaysia urged all affected customers to contact any Honda authorised dealer to make an appointment upon receipt of notification to replace the fuel pump subject to parts availability and any repairs to be conducted are free of charge.





ARTICLE BY PAULTAN.ORG

2022 Proton Iriz, Persona facelift – why still no AEB?



One of the big questions on people's minds during the launch of the facelifted 2022 Proton Iriz and Persona was why did they still not come with autonomous emergency braking. After all, even perennial laggard Perodua has bucked up and offered active safety features – including AEB – on its bread-and-butter Myvi, so the once-leading B-segment models are falling further and further behind the curve.

The discussion surrounding AEB on the Iriz and Persona is nothing new – even during the Iriz's original launch back in 2014, Proton was already testing a prototype with LG's Advanced Drive Assistance System (ADAS) camera, showing that there were clear plans to implement the technology. And yet still, seven years after, there's no sign of it. Eyebrows were already raised when AEB was given a miss during the first facelift in 2019, but the omission is particularly glaring now.

We posed the question during last week's roundtable interview with the cars' vehicle programme executive Adzrai Aziz Ibrahim. He said that with the limited budget available for the project, the team had to prioritise the features that it thought customers would appreciate.

"We did a benchmark, the Japanese OEMs have all these high-spec ADAS features, and even the other competitor [Perodua] has some ADAS features that it has marketed. But we had a constraint – we didn't want to increase the cost of the car so that we could maintain the selling price and give more value to the customer; we had to be careful about what we wanted to add to the car," he said.

Adzrai added that the safety improvements were focused on improving crash protection, in order for the Iriz and Persona to retain their five-star rating in the ASEAN NCAP 2017-2020 protocol. "Firstly, we had to see if we could meet the latest ASEAN NCAP protocol. So we added side airbags to all variants, seat belt reminders, and this got us to achieve the latest standards – our protection in terms of occupant safety in a crash is good. We didn't need these additional [ADAS] features to [get a five-star rating]."

"So we [then] had to decide, do we want to put in [ADAS] or do we put other things that customers will eventually use? We balanced out our investments – we met the ASEAN NCAP 2020 [protocols], so we needed to spend our money on more useful things for the customer."

Elaborating on the potential cost of adding ADAS features, Adzrai made a distinction between the Perodua's simpler camera-based system (with collision warning and partial AEB) and a more advanced radar-based package that would add features like adaptive cruise control to the mix. We should point out that Perodua itself offers camera-based adaptive cruise control on the Atega (as does Honda on the City and new Civic), so a radar isn't strictly necessary for implementing additional features.

"There are two ways [to implement ADAS]. We have full ADAS, which is what Toyota and Honda are applying on their cars, and then there's mid-level ADAS, which only gives you indicators and buzzers with a camera [to detect obstacles] and [offers] limited functionality.

"I cannot share with you the [total] cost of doing this, but full ADAS will definitely go beyond RM2,000 in terms of the [cost of] components to be added to the car. It also requires an update in the electrical and electronic architecture, because [the system] needs to communicate [with the car]. So that's a big investment.

"For [mid-level ADAS] with a camera and warnings, that is doable, just like what Perodua is doing. But currently, we are still in the research phase. We are trying to determine what is the best solution in this segment, with the price that we want to sell and the additional cost we need to add to our cars. If we feel that these features are necessary in the future, we will introduce them."



The Iriz was tested with ADAS as early as 2014

Adzrai said that while other software features like the expanded “Hi Proton” voice control function also required updates to the electrical architecture, they did not require a comprehensive revamp, reducing the cost required. “Things like voice control are independent; they do not require a redevelopment of the entire car, because they only operate in their own unit, so the cost of [upgrading] is not high.

“We were able to expand the functionality to the [driver’s] window and air-con because the ability to signal to [those components] is available in the unit. So we were able to apply these items without incurring a lot of investment and we could just tap into [the system] accordingly.”

Later, when asked if Proton will at least consider adding blind spot monitoring and rear cross traffic alert, Adzrai said, “We do [have plans]. We are looking at these two functions in particular, and when these items are more cost effective for us to apply to our cars, then we will implement them. Maybe they will be added in a future update; for sure, we will fit them to new models. But yes, we are looking at it – mainly these two functions – if we can apply them in the most cost-effective manner.”

Of course, you can make up your own mind on whether safety features like AEB are vital at this price range, and it’s true that Proton does not have an infinite amount of money to spend on these ageing vehicles – especially given the Iriz’s relatively low sales volumes.

There’s also the unavoidable fact that because the Iriz and Persona are homegrown products, Proton would have to develop an ADAS system in-house instead of pilfering from Geely’s parts bin, whereas Perodua can simply take plug-and-play parts directly from Daihatsu. Still, there’s no denying that even basic systems like the one in the Myvi not only save lives but also thousands of ringgit in accident repairs – you can’t put a price on that, no matter how Proton tries to spin it.

And make no mistake, customers are sitting up and taking notice. You only have to look at Perodua expanding the availability of its Advanced Safety Assist (ASA) suite to even the cheaper 1.3 litre models of the Myvi to know how much buyers value their safety these days. An ASA-equipped Myvi can now be had for under RM47,000, so it’s not like AEB is only for the rich.

Ironically, Proton updating the Iriz and Persona to pass an ASEAN NCAP protocol that expired last year shows just how far it has lagged behind. It’s telling that the company rushed to crash test its cars a full



eight months before actually putting them on sale, because it’s highly unlikely it would have retained a five-star rating under the 2021-2025 protocol (which places a greater emphasis on active safety).

Meanwhile, the Perodua Atila – which offers AEB as standard – breezed through its crash test this year, becoming the first five-star car under the new protocol. Again, everyone is entitled to their opinion, but at least in terms of safety, we think Proton has missed the mark with the new Iriz and Persona.

**This article is extracted from Paultan.org. The views expressed here are those of the author and do not necessarily represent the views of MRC Malaysia.*

MRC Malaysia would also like to note that the terminology used in this article, i.e. high-spec ADAS, mid-level ADAS, full ADAS, etc. are language used by various OEMs and not the common terminology used by MRC Malaysia. MRC Malaysia will cover this ADAS terminology and basic principles of ADAS in our next eBulletin issue.



DATABASE RELEASES AT A GLANCE

MRCDB P53.1 JUNE 2021

MANUFACTURER'S PRICE UPDATE



7 VEHICLE MANUFACTURERS

355,180
PRICE CHANGES

1,429
NO. NEW PARTS



MRCDB P54.0 JUNE 2021

NEW VEHICLE RELEASE



AUDI Q8

MODEL YEAR
3/2019

TPS CODE
AD066

TTS CODE
TC037

BODY SHAPE
5 Dr. SUV

TRIM
TFSI Quattro

847
TOTAL LINE ITEMS



PERODUA ARUZ

MODEL YEAR
5/2021

TPS CODE
PE197 / PE198

TTS CODE
TC031

BODY SHAPE
5 Dr. SUV

TRIM
1.5 AV / 1.5 X

1,878
TOTAL LINE ITEMS



TOYOTA HILUX

MODEL YEAR
3/2018
8/2019

TPS CODE
TY273 / TY274
TY275

TTS CODE
TC064

BODY SHAPE
D/Cab Pickup

TRIM
L-Edition /
Black Edition

2,842
TOTAL LINE ITEMS

MANUFACTURER'S PRICE UPDATE

3 VEHICLE MANUFACTURERS

3,824
PRICE CHANGES

1,922
NEW PARTS PRICE

16,944
PARTS SUPERSESSION

DATABASE RELEASES AT A GLANCE

MRCDB P54.0 JUNE 2021

ALTERNATIVE PARTS PRICE DATABASE



 PERODUA



5 VEHICLE MANUFACTURERS

1,664

NEW PARTS PRICE



MRCDB P54.1 JULY 2021

MANUFACTURER'S PRICE UPDATE



 SUZUKI

 LEXUS



5 VEHICLE MANUFACTURERS

305

PRICE CHANGES

535

NO. NEW PARTS

ALTERNATIVE PARTS PRICE DATABASE

1 VEHICLE MANUFACTURER

499

PRICE UPDATES

DATABASE RELEASES AT A GLANCE

MRCDB P55.0 JULY 2021

NEW VEHICLE RELEASE



MAZDA 6

MODEL YEAR

9/2019

TPS CODE

MZ134/MZ135
MZ136/MZ137

TTS CODE

MZ046,MZ047
MZ048

BODY SHAPE

4 Dr. Sedan
5 Dr. Estate

TRIM

SkyActiv-G (GVC)
SkyActiv-D (GVC)
SkyActiv-G Grand
Touring (GVC)

2,675

TOTAL LINE ITEMS



MAZDA CX-9

MODEL YEAR

3/2020

TPS CODE

MZ138
MZ139

TTS CODE

TC037

BODY SHAPE

5 Dr. SUV

TRIM

SkyActiv-G Turbo 4WD
SkyActiv-G Turbo 2WD

1,637

TOTAL LINE ITEMS



TOYOTA HILUX

MODEL YEAR

10/2020

TPS CODE

TY260/TY261/TY262
TY263/TY264

TTS CODE

TC063 / TC064

BODY SHAPE

2 Dr. D/Cab Pick-Up
4 Dr. D/Cab Pick-Up

TRIM

MT (GUNI25RBEFLXE A1)
G (MT) (GUNI25RDEFSXE A2)
E (AT) (GUNI25RDETSXE A3)
V (AT) (GUNI25RDETHXE A4)
ROGUE (GUNI26RDETHXE A5)

4,663

TOTAL LINE ITEMS



TOYOTA VIOS

MODEL YEAR

12/2020

TPS CODE

TY276 / TY277
TY278 / TY279

TTS CODE

TC020

BODY SHAPE

4 Dr. Sedan

TRIM

J (NSP151RBEXDKE W1)
E (NSP151RBEXRKE W2)
G (NSP151RBEXGKE W3)
GR Sport
(NSP151RBEXGKE W3)

3,608

TOTAL LINE ITEMS



ISUZU



MANUFACTURER'S PRICE UPDATE

7 VEHICLE MANUFACTURERS

102,541

PRICE CHANGES

5,102

NEW PARTS PRICE

18,201

PARTS SUPERSESSION

DATABASE RELEASES AT A GLANCE

MRCDB P55.1 AUGUST 2021

MANUFACTURER'S PRICE UPDATE



11 VEHICLE MANUFACTURERS

1,170

PRICE CHANGES

3,808

NO. NEW PARTS

6,578

NO. SUPERSESSION



TOYOTA



MRCDB P56.0 AUG-SEPT 2021

NEW VEHICLE RELEASE



HONDA BR-V

MODEL YEAR
4/2019

TPS CODE
HD165

TTS CODE
TC031

BODY SHAPE
5 Dr. SUV

TRIM
SE

761
TOTAL LINE ITEMS



TOYOTA YARIS

MODEL YEAR
12/2020

TPS CODE
TY267 / TY268
TY269

TTS CODE
TC022

BODY SHAPE
5 Dr. H/back

TRIM
J (NSP151RBHDXKE ZQ)
E (NSP151RBHXRKE ZR)
G (NSP151RBHXGKE ZS)

2,780
TOTAL LINE ITEMS



TOYOTA INNOVA

MODEL YEAR
4/2021

TPS CODE
TY280 / TY281
TY282

TTS CODE
TC032

BODY SHAPE
M.P.V

TRIM
E (TGN140RMETSKE C1)
G (TGN140RMETHKE C2)
X (TGN140RMETHKE C3)

3,000
TOTAL LINE ITEMS

MANUFACTURER'S PRICE UPDATE

8 VEHICLE MANUFACTURERS

2,155

PRICE CHANGES

10,345

NEW PARTS PRICE

8,218

PARTS SUPERSESSION

DATABASE RELEASES AT A GLANCE

MRCDB P57.0 SEPT 2021

NEW VEHICLE RELEASE



HONDA BR-V

MODEL YEAR

6/2020

TPS CODE

HD166/HD167

TTS CODE

TC031

BODY SHAPE

5 Dr. SUV

TRIM

E / V

1,519

TOTAL LINE ITEMS



NISSAN NAVARA

MODEL YEAR

4/2021

TPS CODE

NS146 / NS147
NS148 / NS149
NS150 / NS151

TTS CODE

TC063 / TC064

BODY SHAPE

2 Dr. S/Cab Pick-Up
4 Dr. S/Cab Pick-Up

TRIM

NP300 2.5 (M) / NP300 SE (M)
NP300 SE (A) / NP300 V (A)
NP300 VL (A)
NP300 PRO-4X (A)

4,155

TOTAL LINE ITEMS



HONDA CITY

MODEL YEAR

10/2020

TPS CODE

HD162/HD163/HD164

TTS CODE

TC020

BODY SHAPE

4 Dr. Sedan

TRIM

S / E / V

2,303

TOTAL LINE ITEMS



**TOYOTA COROLLA
CROSS**

MODEL YEAR

3/2021

TPS CODE

TY283 / TY284

TTS CODE

TC025

BODY SHAPE

5 Dr. SUV

TRIM

G (ZSG10RDHXGKE CG)
V (ZSG10RDHXEKE CV)

1,870

TOTAL LINE ITEMS



ISUZU



SUZUKI



INFINITI



MANUFACTURER'S PRICE UPDATE

7 VEHICLE MANUFACTURERS

9,126

PRICE CHANGES

3,273

NEW PARTS PRICE

24,818

PARTS SUPERSESSION



Industry News

Overall Rating Proton Persona/Iriz Crash Test

The new edition of Proton Persona and Iriz underwent ASEAN NCAP assessment in late 2020, adhering to its 2017-2020 protocol and rating system. The assessment was carried out by ASEAN NCAP at MIROS PC3 Crash Lab, Melaka in December 2020. Both the Persona and Iriz have the same occupant protection and share similar design and crashworthiness restraint systems. The sedan and hatchback are equipped with a minimum of 4 airbags, Electronic Stability Control, and Seatbelt Reminder System (SBR) for both frontal occupants as standard across all variants.

In addition, both models are also offered SBR for rear occupants as optional features. ISOFIX and top tether fitment are fitted in both of the models in all their variants. The new Proton Persona and Iriz have successfully achieved a total score of 84.13 points in the assessment. This has made them eligible to be awarded a 5-Star ASEAN NCAP rating under the 2017-2020 protocol.



AOP			COP			SAFETY ASSIST			2017-2020 ASEAN NCAP RATING
Item	Point	Max	Item	Point	Max	Item	Point	Max	
ODB	14.63	16.00	FRONTAL	15.20	16.00	EBA	8.00	8.00	
SIDE	15.68	16.00	SIDE	8.00	8.00	SBR	4.50	6.00	
HPT Evaluation	2.00	4.00	Installation	11.72	12.00	BST	-	2.00	5
			Vehicle Based	8.00	13.00	Advance SATs	-	2.00	
Score	32.31	36.00		42.92	49.00		12.50	18.00	
Normalized Score	0.90			0.88			0.69		OVERALL SCORE
Weighting	50%			25%			25%		
Weighted Score	44.88			21.90			17.36		
Maximum Star Rating	5			5			5		5

Source Courtesy of ASEAN NCAP

*AOP – Adult Occupant Protection; COP – Child Occupant Protection

Contact

Thank you for reading the Issue #3, Quarter 4, 2021 MRC Technical eBulletin.
If you have any questions regarding the content, or suggestions
for improvement, please contact MRC Malaysia via



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