

## **RELEASE NOTES FOR MRC DATABASE VERSION T7.0 (TTS REAL TIMES) NOVEMBER 2022**

### **INTRODUCTION**

MRC Malaysia has provides a repair times database for use in estimating the time required to remove and replace vehicle panels and parts. It also incorporates the repair methodology to meet manufacturers' specifications. There are two types of repair times:

1. Thatcham Composite Times which is repair times categorised based on vehicle types and sizes, whilst.
2. Real Times Acquired from Thatcham and Real Times Locally Research which are repair times based on vehicle specific makes and models.

Prior to 2018, only composite times have been used in the claim estimating process. Subsequently, we have introduced vehicle specific real times to further improve by matching the actual measurements, parts, components and methods. Vehicle specific real times are produced by analysing panel structures and methods review.

MRC Malaysia, in partnership with Thatcham Research, has continuously acquired vehicle specific real times to accommodate similar vehicle models in Malaysia. MRC Malaysia is also collaborating with the local vehicle manufacturers to build locally research vehicle specific real times.

### **BENEFITS**

Although composite times is generally acceptable and fairly accurate, there are some instances that the actual repair time values deviate slightly from the grouped average due to some car unique design or parts component. These discrepancies can be corrected in vehicle specific real times.

The repair times for every task and its sub-operation will be transparent and visible in real times. It would be beneficial for future audits and can also be used as a reference for resolving any dispute on claim estimates.

Motor insurers / takaful operators and the vehicle repair industry can confidently produce accurate vehicle repair estimates using detailed vehicle repair information specifically for the local market. This will help improve transparency as well as provide better quality repair estimates guided by standard maintenance repair work based on actual manufacturer vehicle models.

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In this release version T7.0, MRC Malaysia has successfully completed real times research for 10 vehicle manufacturers with 25 vehicle models and 81 vehicle derivatives. The vehicle models with the new vehicle specific real times are Audi TT 2007, Audi A4 2016, BMW 3-Series 2012-2019, BMW 5-Series 2017-2019, BMW 5-Series 2019, BMW 5-Series Hybrid 2017-2019, BMW 5-Series Hybrid 2019, BMW X2 2018, BMW 3-Series 2019-2020, BMW 3-Series 2020, Ford S-Max 2016, Honda CR-V 2017-2020, Honda CR-V 2020, Mazda CX-3 2015, Mazda MX-5 2005-2015, Mini Clubman 2016, Mitsubishi Outlander 2016, Mitsubishi Triton 2015-2019, Renault Clio 2014, Subaru Forester 2013-2019, Subaru WRX 2014, Toyota Hilux 2016-2020, Toyota Hilux 2020, Toyota Yaris 2019-2020 and Toyota Yaris 2020.

With this new release, the current times database status as of November 2022, out of 2,534 derivatives of car model variants in the MRC Database, 1,543 derivatives (60.9%) are Thatcham Composite Times, 839 derivatives (33.1%) are Real Times acquired from Thatcham and 152 derivatives (6.0%) are locally research MRC Real Times. (Chart 1.0)

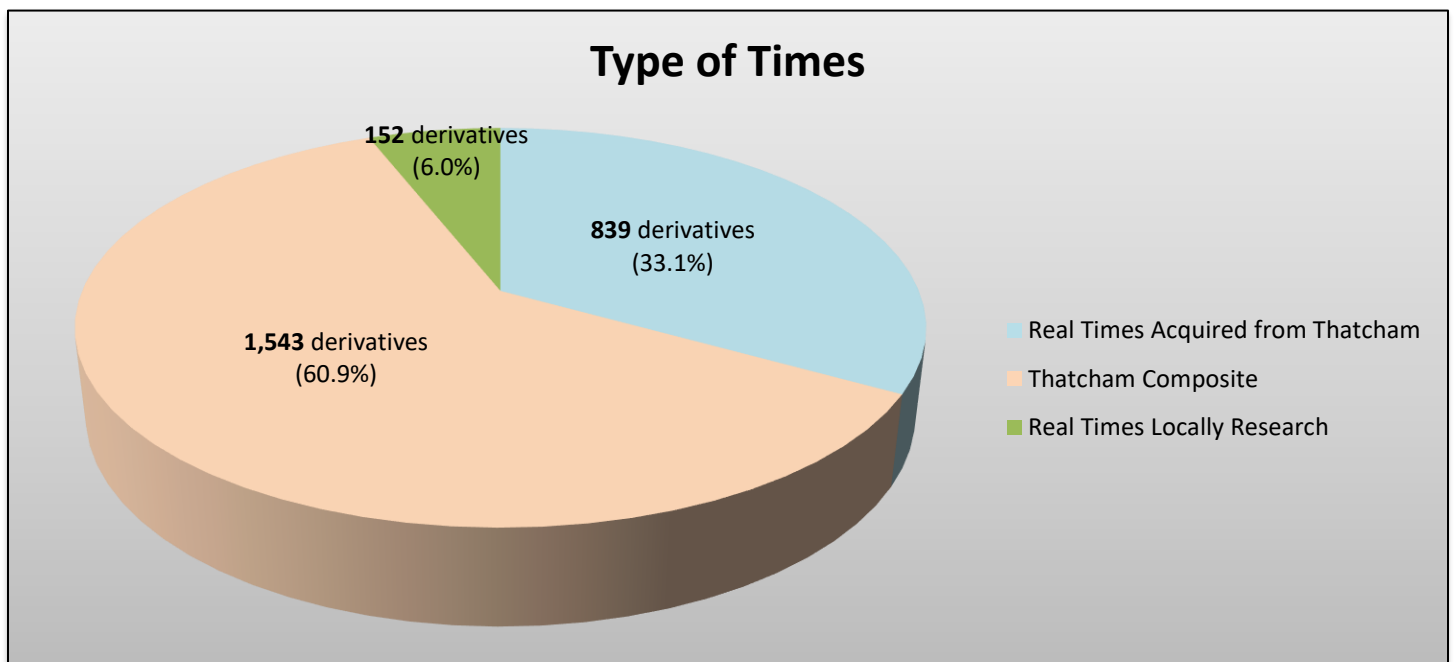


Chart 1.0: MRC Coverage in TTS Specific Real Times. Based on MRC vehicle derivatives (2,534 derivatives) as of November 2022.

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## 1.0 NEW VEHICLES IN DETAIL:

New TTS projects have been carried out to replace previously used Thatcham Composite Time (Generic) with the new TTS Real Time (Actual/Similar Vehicle). This batch consists of 81 derivatives and the vehicle make and model details are as follow:

No	TVI Project Code	Make	Model	Trim	Engine Size	Current TTS Project Code	New TTS Project Code
1	AD018	Audi	TT 2007 On	TFSI AUTO 197Bhp	2.0	TC026	AD018
2	AD053	Audi	A4 2016 On	TFSI with Tech Pack (B9) 150Bhp	1.4	TC027	AD033
3	AD054	Audi	A4 2016 On	TFSI with Tech Pack (B9) 190Bhp	2.0	TC027	AD033
4	AD055	Audi	A4 2016 On	TFSI S Line with Tech Pack (B9) 190Bhp	2.0	TC027	AD033
5	AD056	Audi	A4 2016 On	TFSI Quattro S Line (B9) 252Bhp	2.0	TC027	AD033
6	AD057	Audi	A4 2016 On	TFSI Quattro S Line with Tech Pack (B9) 252Bhp	2.0	TC027	AD033
7	BM118	BMW	3-Series 2012-2019	330e M Sport AUTO 184Bhp	2.0	TC027	BM095
8	BM119	BMW	3-Series 2012-2019	330e Sport AUTO 184Bhp	2.0	TC027	BM095
9	BM133	BMW	3-Series 2012-2019	328i GT Sport (F34)	2.0	TC027	BM095
10	BM134	BMW	3-Series 2012-2019	320d GT Luxury (F34)	2.0	TC027	BM095
11	BM131	BMW	5-Series 2017-2019	530i M Sport (G30) AUTO 252Bhp	2.0	TC027	BM131
12	BM160	BMW	5-Series 2019 On	520i Luxury (G30) AUTO 181hp	2.0	TC027	BM131
13	BM132	BMW	5-Series Hybrid 2017-2019	530e Sport (G30) AUTO 181Bhp	2.0	TC027	BM132
14	BM167	BMW	5-Series Hybrid 2019 On	530e M Sport (G30) AUTO 181Bhp	2.0	TC027	BM132
15	BM152	BMW	X2 2018 On	sDrive20i M (F39) 192Bhp	2.0	TC031	BM158
16	BM158	BMW	X2 2018 On	M35i (F39) AUTO 302Bhp	2.0	TC031	BM158
17	BM154	BMW	3-Series 2019-2020	330i M Sport (G20 CBU) AUTO 258Bhp	2.0	TC027	BM155

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18	BM155	BMW	3-Series 2019-2020	330i M Sport (G20 CKD) AUTO 258Bhp	2.0	TC027	BM155
19	BM162	BMW	3-Series 2020 On	320i Sport AUTO 181hp	2.0	TC027	BM155
20	BM163	BMW	3-Series 2020 On	330i M Sport AUTO 258hp	2.0	TC027	BM155
21	BM172	BMW	3-Series 2020 On	330Li M Sport AUTO 255hp	2.0	TC027	BM155
22	BM173	BMW	3-Series 2020 On	M340i xDrive AUTO 382hp	3.0	TC027	BM155
23	BM174	BMW	3-Series 2020 On	M3 Competition AUTO 503hp	3.0	TC027	BM155
24	FD100	Ford	S-MAX 2016 On	EcoBoost AUTO 237Bhp	2.0	TC032	FD100
25	HD153	Honda	CR-V 2017-2020	2.0 2WD 153Bhp	2.0	TC031	HD156
26	HD154	Honda	CR-V 2017-2020	1.5TC 2WD 190Bhp	1.5	TC031	HD156
27	HD155	Honda	CR-V 2017-2020	1.5TC 4WD 190Bhp	1.5	TC031	HD156
28	HD156	Honda	CR-V 2017-2020	1.5TC-P 2WD 190Bhp	1.5	TC031	HD156
29	HD168	Honda	CR-V 2020 On	2.0 2WD 153Bhp	2.0	TC031	HD156
30	HD169	Honda	CR-V 2020 On	1.5TC-P 2WD 190Bhp	1.5	TC031	HD156
31	HD170	Honda	CR-V 2020 On	1.5TC-P 4WD 190Bhp	1.5	TC031	HD156
32	MZ062	Mazda	CX-3 2015 On	SkyActiv-G AUTO 154Bhp	2.0	TC025	MZ102
33	MZ069	Mazda	CX-3 2015 On	SkyActiv-D AUTO 104Bhp	1.5	TC025	MZ102
34	MZ102	Mazda	CX-3 2015 On	SkyActiv-G (GVC) AUTO 154Bhp	2.0	TC025	MZ102
35	MZ030	Mazda	MX-5 2005-2015		2.0	TC026	MZ031
36	MN010	Mini	Clubman 2016 On	Cooper (F54) AUTO 136Bhp	1.5	TC021	MN012
37	MN011	Mini	Clubman 2016 On	Cooper S (F54) AUTO 192Bhp	2.0	TC021	MN012

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38	MN012	Mini	Clubman 2016 On	John Cooper Works (F54) AUTO 231Bhp	2.0	TC021	MN012
39	MT084	Mitsubishi	Outlander 2016 On	4WD 165Bhp	2.4	TC025	MT102
40	MT102	Mitsubishi	Outlander 2016 On	4WD 143Bhp	2.0	TC025	MT102
41	MT085	Mitsubishi	Triton 2015-2019	VGT Adventure AUTO 176Bhp	2.5	TC043	MT094
42	MT086	Mitsubishi	Triton 2015-2019	VGT AUTO 176Bhp	2.5	TC043	MT094
43	MT087	Mitsubishi	Triton 2015-2019	VGT 176Bhp	2.5	TC043	MT094
44	MT088	Mitsubishi	Triton 2015-2019	4X4 134Bhp	2.5	TC043	MT094
45	MT089	Mitsubishi	Triton 2015-2019	Quest 108Bhp	2.5	TC043	MT094
46	MT090	Mitsubishi	Triton 2015-2019	VGT 179Bhp	2.4	TC043	MT094
47	MT091	Mitsubishi	Triton 2015-2019	VGT AUTO 179Bhp	2.4	TC043	MT094
48	MT092	Mitsubishi	Triton 2015-2019	VGT Adventure AUTO 179Bhp	2.4	TC043	MT094
49	MT093	Mitsubishi	Triton 2015-2019	VGT Adventure X AUTO 179Bhp	2.4	TC043	MT094
50	MT094	Mitsubishi	Triton 2015-2019	VGT GL AUTO 179Bhp	2.4	TC043	MT094
51	RN015	Renault	Clio 2014 On	RS 200 EDC 200Bhp	1.6	TC019	RN016
52	RN016	Renault	Clio 2014 On	GT Line 118Bhp	1.2	TC022	RN016
53	SB006	Subaru	Forester 2013-2019	2.0 XT 237Bhp	2.0	TC031	SB010
54	SB007	Subaru	Forester 2013-2019	2.0i-L 148Bhp	2.0	TC031	SB010
55	SB008	Subaru	Forester 2013-2019	2.0i 148Bhp	2.0	TC031	SB010
56	SB009	Subaru	Forester 2013-2019	2.0i-P 148Bhp	2.0	TC031	SB010
57	SB010	Subaru	Forester 2013-2019	2.0 XT 237Bhp	2.0	TC031	SB010

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58	SB015	Subaru	WRX 2014 On	2.0 CVT 264Bhp	2.0	TC027	SB018
59	SB016	Subaru	WRX 2014 On	STI 2.5 MT 296Bhp	2.5	TC027	SB018
60	SB017	Subaru	WRX 2014 On	2.0 CVT 264Bhp	2.0	TC027	SB018
61	SB018	Subaru	WRX 2014 On	STI 2.5 MT 296Bhp	2.5	TC027	SB018
62	TY199	Toyota	Hilux 2016-2020	(GUN125R-BEFXHEAJ)	2.4	TC042	TY200
63	TY200	Toyota	Hilux 2016-2020	STD (GUN125R-DEFXHECJ) 148Bhp	2.4	TC043	TY200
64	TY201	Toyota	Hilux 2016-2020	(GUN135R-DEFLHECP) 148Bhp	2.4	TC043	TY200
65	TY202	Toyota	Hilux 2016-2020	G (GUN125R-DEFSHEAK) 148Bhp	2.4	TC043	TY200
66	TY203	Toyota	Hilux 2016-2020	G (GUN125R-DETSHECK) AUTO 148Bhp	2.4	TC043	TY200
67	TY204	Toyota	Hilux 2016-2020	G (GUN126R-DETHHECM) AUTO 175Bhp	2.8	TC043	TY200
68	TY273	Toyota	Hilux 2016-2020	L-Edition (GUN125R-DETSHE)	2.4	TC064	TY200
69	TY274	Toyota	Hilux 2016-2020	L-Edition (GUN126R-DETHHE)	2.8	TC064	TY200
70	TY275	Toyota	Hilux 2016-2020	Black Edition (GUN126R-DETHXE)	2.8	TC064	TY200
71	TY260	Toyota	Hilux 2020 On	GUN125R-BEFLXE A1	2.4	TC063	TY200
72	TY261	Toyota	Hilux 2020 On	G (GUN125R-DEFSXE A2)	2.4	TC064	TY200
73	TY262	Toyota	Hilux 2020 On	E (GUN125R-DETSXE A3)	2.4	TC064	TY200
74	TY263	Toyota	Hilux 2020 On	V (GUN125R-DETHXE A4)	2.4	TC064	TY200
75	TY264	Toyota	Hilux 2020 On	Rogue (GUN126R-DETHXE A5)	2.8	TC064	TY200
76	TY249	Toyota	Yaris 2019-2020	J (NSP151R-BHXDKY YQ) 105Bhp	1.5	TC022	TY251
77	TY250	Toyota	Yaris 2019-2020	E (NSP151R-BHXRKE YR) 105Bhp	1.5	TC022	TY251

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78	TY251	Toyota	Yaris 2019-2020	G (NSP151R-BHXGKE YS) 105Bhp	1.5	TC022	TY251
79	TY267	Toyota	Yaris 2020 On	J (NSP151R-BHXDKKE ZQ)	1.5	TC022	TY251
80	TY268	Toyota	Yaris 2020 On	E (NSP151R-BHXRKE ZR)	1.5	TC022	TY251
81	TY269	Toyota	Yaris 2020 On	G (NSP151R-BHXGKE ZS)	1.5	TC022	TY251

## 2.0 ADDITIONAL NOTES & INFORMATION:

NIL

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NOTE:

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