

## **RELEASE NOTES FOR MRC DATABASE VERSION T10.0 (VEHICLE SPECIFIC REAL TIMES) DECEMBER 2024**

### **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. Vehicle Specific Real Times which is repair times based on 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. 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 collaborating with local vehicle manufacturers to build locally researched 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 specific real times.

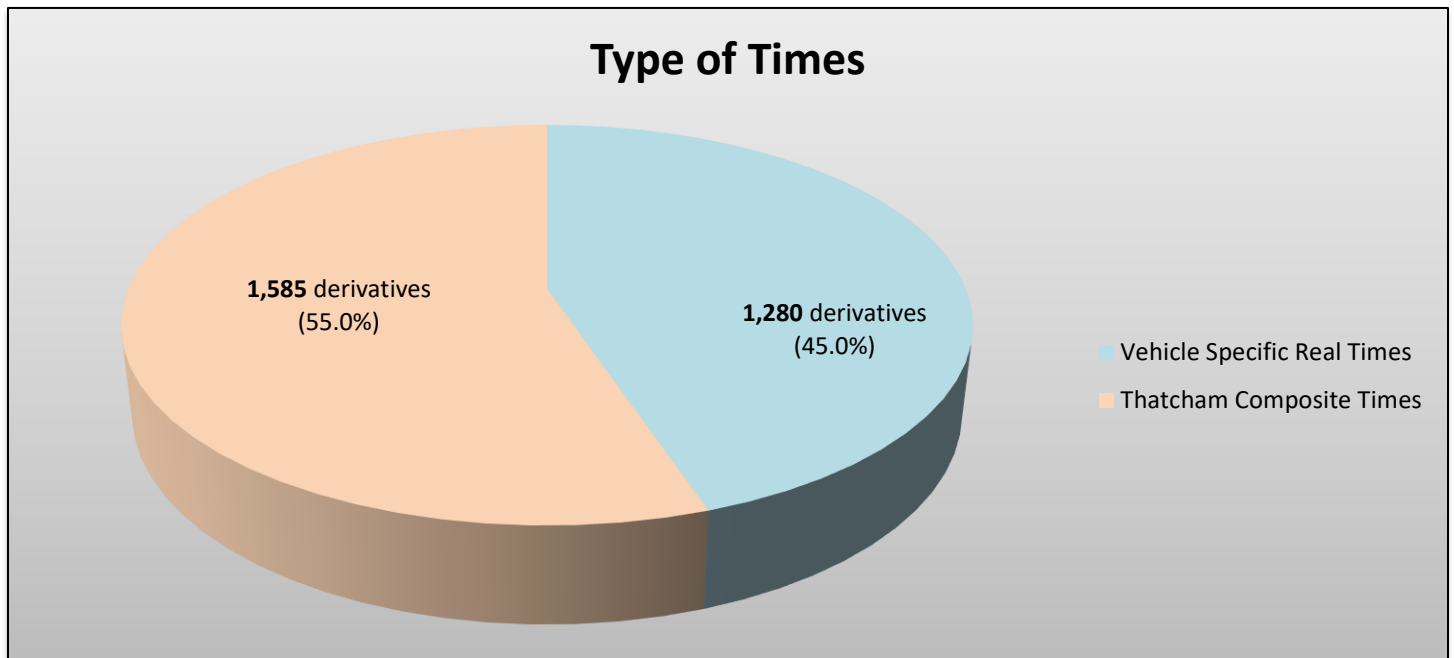
The repair times for every task and its sub-operation will be transparent and visible in real times. It would be beneficial for future audits and can also be used as a reference for resolving any dispute on claim estimates.

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 T10.0, MRC Malaysia has successfully completed vehicle specific real times project for 18 vehicle manufacturers with 53 vehicle models and 152 vehicle derivatives. The vehicle models with the new vehicle specific real times are Audi A1 2011, Audi Q2 2011, Audi Q7 2006, Audi Q7 2015, BWWX6 2008, BMW X6 2015, Citroen C4 20025, Citroen C4 2014, Citroen Xsara 1999, Ford S-Max 2011-2016, Ford Transit (LCV) 2014, Ford Transit (LCV) 2016, Honda Freed 2010, Honda Jazz 2014, Hyundai I302020, Hyundai Ioniq 2016, Hyundai Ioniq 2019, Hyundai Kona 2020, Hyundai 2021, Hyundai Santa FE 2013, Inokom Santa FE 2013, Isuzu D-Max 2021, Lexus IS 2013, Lexus IS 2015, Lexus IS 2017, Lexus LS 2012, Lexus LS 2018, Lexus RX 2015-2019, Lexus RX Hybrid 2015-2019, Land Rover Defender 1998, Mercedes Benz C-Class 2014, Mini Cooper 2018, Mini Paceman 2013, Mazda 3 2011, Mazda 3 2019, Mazda CX30 2020, Mazda CX5 2017, Mazda CX5 2018, Mazda CX5 2019, Mazda CX5 2021, Mazda MX-30 2022, Nissan X-Trail2010, Renault Captur 2016, Renault Koleos 2012, Renault Koleos 2016, Subaru Outback 2015, Toyota GR Yaris 2020, Volvo S60 2001, Volvo V70 1998, Volvo XC60 2018, Volvo XC PHEV 2018, Volvo XC90 2018 and Volvo XC90 PHEV 2015.

With this new release, the current times database status as of December 13, 2024, out of 2,865 derivatives of car model variants in the MRC Database, 1,585 derivatives (55.0%) are Thatcham Composite Times and 1,280 derivatives (45.0%) are vehicle specific real times. (Chart 1.0)



**Chart 1.0: MRC Coverage in Vehicle Specific Real Times. Based on MRC vehicle derivatives (2,865 derivatives) as of December 12, 2024.**

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**1.0 NEW VEHICLES IN DETAIL:**

New TTS projects have been carried out to replace previously used Thatcham Composite Times (Generic) with the new TTS Real Times (Actual/Similar Vehicle). This batch consists of 152 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	AD027	Audi	A1 2011 On	TFSI (AT)	1.4	TC019	AD027
2	AD038	Audi	A1 2011 On	Sportback TFSI (DCT)	1.4	TC022	AD038
3	AD065	Audi	Q2 2019 On	TFSI (DCT)	1.4	TC025	AD065
4	AD028	Audi	Q7 2006 On	FSI (AT)	4.2	TC037	AD048
5	AD029	Audi	Q7 2006 On	TDI (AT)	3.0	TC037	AD048
6	AD047	Audi	Q7 2015 On	TFSI Quattro (AT)	3.0	TC037	AD048
7	AD048	Audi	Q7 2015 On	TFSI Quattro (AT)	2.0	TC037	AD048
8	BM060	BMW	X6 2008 On (08/2008 - 06/2012)	xDrive35i (E71) N54 (AT)	3.0	TC037	BM121
9	BM092	BMW	X6 2008 On	xDrive35i (E71) N54 (AT)	3.0	TC037	BM121
10	BM120	BMW	X6 2015 On	xDrive35i M Sport (F16) (AT)	3.0	TC037	BM121
11	BM121	BMW	X6 2015 On	M (F86) 575Bhp (AT)	4.4	TC037	BM121
12	CT005	Citreon	C4 2005 On	Grand Picasso (AT)	2.0	TC032	CT005
13	CT020	Citreon	C4 2014 On	Picasso THP 165 (AT)	1.6	TC022	CT020

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14	CT021	Citreon	C4 2014 On	Picasso L2 Seduction (AT)	1.6	TC022	CT020
15	CT014	Citreon	Xsara 1999 On	i SX 9 (AT)	1.6	TC007	CT014
16	FD099	Ford	S-MAX 2011 To 2016	EcoBoost (AT)	2.0	TC032	FD099
17	FD125	Ford	Transit (LCV) 2014 On	Panel Van (350L) (MT)	2.2	TC061	FD126
18	FD126	Ford	Transit (LCV) 2014 On	Window Van (370L) (MT)	2.2	TC060	FD126
19	FD127	Ford	Transit (LCV) 2016 On	Panel Van (350L) (MT)	2.2	TC061	FD126
20	FD128	Ford	Transit (LCV) 2016 On	Window Van (370L) (MT)	2.2	TC060	FD126
21	HD089	Honda	Freed 2010 On (04/2010 - 12/2012)	i-VTEC (Grade E) (AT)	1.5	TC023	HD145
22	HD145	Honda	Freed 2010 On	i-VTEC (Grade S) (AT)	1.5	TC023	HD145
23	HD146	Honda	Freed 2010 On	i-VTEC (Grade E) (AT)	1.5	TC023	HD145
24	HD147	Honda	Freed 2010 On (07/2012 - 12/2012)	i-VTEC (Grade S) (AT)	1.5	TC023	HD145
25	HD151	Honda	Jazz 2014 On	1.5 Hybrid (DCT)	1.5	TC022	HD151
26	HY126	Hyundai	i30 2020 On	N Performance (MT)	2.0	TC029	HY126
27	HY098	Hyundai	Ioniq 2016 On	HEV Plus (DCT)	1.6	TC022	HY122
28	HY099	Hyundai	Ioniq 2016 On	HEV (DCT)	1.6	TC022	HY122

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29	HY121	Hyundai	Ioniq 2019 On	HEV (DCT)	1.6	TC022	HY122
30	HY122	Hyundai	Ioniq 2019 On	HEV Plus (DCT)	1.6	TC022	HY122
31	HY123	Hyundai	Kona 2020 On	2.0 (AT)	2.0	TC025	HY135
32	HY124	Hyundai	Kona 2020 On	2.0 Active (AT)	2.0	TC025	HY135
33	HY125	Hyundai	Kona 2020 On	1.6 Turbo (AT)	1.6	TC025	HY135
34	HY132	Hyundai	Kona 2021 On	2.0 (CVT)	2.0	TC025	HY135
35	HY133	Hyundai	Kona 2021 On	2.0 Active (CVT)	2.0	TC025	HY135
36	HY134	Hyundai	Kona 2021 On	1.6 Turbo (DCT)	1.6	TC025	HY135
37	HY135	Hyundai	Kona 2021 On	1.6 Turbo N Line (DCT)	1.6	TC025	HY135
38	HY092	Hyundai	Santa Fe 2013 On	MPI (Executive Plus) (AT)	2.4	TC031	HY096
39	HY093	Hyundai	Santa Fe 2013 On	MPI (Elegance) (AT)	2.4	TC031	HY096
40	HY094	Hyundai	Santa Fe 2013 On	CRDi (Executive Plus) (AT)	2.2	TC031	HY096
41	HY095	Hyundai	Santa Fe 2013 On	CRDi (Elegance) (AT)	2.2	TC031	HY096
42	HY096	Hyundai	Santa Fe 2013 On	Premium (AT)	2.4	TC031	HY096
43	HY097	Hyundai	Santa Fe 2013 On	CRDi (Premium) (AT)	2.2	TC031	HY096
44	IN042	Inokom	Santa Fe 2013 On	CRDi (Elegance) (AT)	2.2	TC031	HY096

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45	IN043	Inokom	Santa Fe 2013 On	CRDi (Executive Plus) (AT)	2.2	TC031	HY096
46	IN044	Inokom	Santa Fe 2013 On	MPI (Elegance) (AT)	2.4	TC031	HY096
47	IN045	Inokom	Santa Fe 2013 On	MPI (Executive Plus) (AT)	2.4	TC031	HY096
48	IS083	Isuzu	D-MAX 2021 On	4X4 Standard (MT)	1.9	TC064	IS088
49	IS084	Isuzu	D-MAX 2021 On	4X4 Standard (AT)	1.9	TC064	IS088
50	IS085	Isuzu	D-MAX 2021 On	4X4 Premium (AT)	1.9	TC064	IS088
51	IS086	Isuzu	D-MAX 2021 On	4X4 Premium (AT)	3.0	TC064	IS088
52	IS087	Isuzu	D-MAX 2021 On	4X4 X-Terrain (AT)	3.0	TC064	IS088
53	IS088	Isuzu	D-MAX 2021 On	4X2 Plus (AT)	1.9	TC064	IS088
54	LE003	Lexus	IS 2013 On	IS 250 (AT)	2.5	TC027	LE020
55	LE004	Lexus	IS 2013 On	IS 250 LUXURY (AT)	2.5	TC027	LE020
56	LE005	Lexus	IS 2013 On	IS 250 F-SPORT (AT)	2.5	TC027	LE020
57	LE006	Lexus	IS 2013 On	IS 300h (AT)	2.5	TC027	LE020
58	LE013	Lexus	IS 2015 On	200t Premium (AT)	2.0	TC027	LE020
59	LE014	Lexus	IS 2015 On	200t Luxury (AT)	2.0	TC027	LE020
60	LE015	Lexus	IS 2015 On	200t F Sport (AT)	2.0	TC027	LE020

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No	TVI Project Code	Make	Model	Trim	Engine Size	Current TTS Project Code	New TTS Project Code
61	LE016	Lexus	IS 2015 On	300h Hybrid (CVT)	2.5	TC027	LE020
62	LE017	Lexus	IS 2017 On	200t Premium (AT)	2.0	TC027	LE020
63	LE018	Lexus	IS 2017 On	200t Luxury (AT)	2.0	TC027	LE020
64	LE019	Lexus	IS 2017 On	200t F Sport (AT)	2.0	TC027	LE020
65	LE020	Lexus	IS 2017 On	300h Hybrid (AT)	2.5	TC027	LE020
66	LE028	Lexus	LS 2012 On	LS 460 (AT)	4.6	TC035	LE036
67	LE029	Lexus	LS 2012 On	LS 460 F Sport (AT)	4.6	TC035	LE036
68	LE030	Lexus	LS 2012 On	LS 460L (AT)	4.6	TC035	LE036
69	LE031	Lexus	LS 2012 On	LS 600h L (CVT)	5.0	TC035	LE036
70	LE034	Lexus	LS 2018 On	500 Luxury (AT)	3.5	TC035	LE036
71	LE035	Lexus	LS 2018 On	500 Executive (AT)	3.5	TC035	LE036
72	LE036	Lexus	LS 2018 On	500h Executive (AT)	3.5	TC035	LE036
73	LE021	Lexus	RX 2015 To 2019	200t Premium (AT)	2.0	TC037	LE025
74	LE022	Lexus	RX 2015 To 2019	200t Luxury (AT)	2.0	TC037	LE025
75	LE023	Lexus	RX 2015 To 2019	200t F Sport (AT)	2.0	TC037	LE025
76	LE024	Lexus	RX 2015 To 2019	350 Luxury (AT)	3.5	TC037	LE025

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77	LE025	Lexus	RX 2015 To 2019	350 F Sport (AT)	3.5	TC037	LE025
78	LE026	Lexus	RX Hybrid 2015 To 2019	450h (CVT)	3.5	TC037	LE026
79	LR022	Land Rover	Defender 1998 On (01/1998 - 12/2006)	110 Td5 Hi Capacity (MT)	2.5	TC009	LR023
80	LR023	Land Rover	Defender 1998 On	110 Td5 Hi Capacity (MT)	2.5	TC042	LR023
81	MB617	Mercedes Benz	C-Class 2014 On	C200 Coupe AMG Line (W205) (AT)	2.0	TC033	MB617
82	MB618	Mercedes Benz	C-Class 2014 On	C250 Coupe AMG Line (W205) (AT)	2.0	TC033	MB617
83	MB619	Mercedes Benz	C-Class 2014 On	C300 Coupe AMG Line (W205) (AT)	2.0	TC033	MB617
84	MN013	Mini	Cooper 2018 On	S (F55 LCI) (DCT)	2.0	TC022	MN013
85	MN009	Mini	Paceman 2013 On	Cooper S (AT)	1.6	TC019	MN009
86	MZ042	Mazda	3 2011 On	GL (AT) 4 Dr	1.6	TC020	MZ007
87	MZ043	Mazda	3 2011 On	GLS (AT) 4 Dr	2.0	TC020	MZ008
88	MZ038	Mazda	3 2011 On	MPS (MT) 5 Dr	2.3	TC022	MZ045
89	MZ044	Mazda	3 2011 On	GL (AT) 5 Dr	1.6	TC022	MZ045
90	MZ045	Mazda	3 2011 On	GLS (AT) 5 Dr	2.0	TC022	MZ045
91	MZ105	Mazda	3 2019 On	SkyActiv-G (AT) 4 Dr	1.5	TC027	MZ050



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92	MZ106	Mazda	3 2019 On	SkyActiv-G (High) (AT) 4 Dr	2.0	TC027	MZ050
93	MZ107	Mazda	3 2019 On	SkyActiv-G (High Plus) (AT) 4 Dr	2.0	TC027	MZ050
94	MZ108	Mazda	3 2019 On	SkyActiv-G (AT) 5 Dr	1.5	TC029	MZ109
95	MZ109	Mazda	3 2019 On	SkyActiv-G (High Plus) (AT) 5 Dr	2.0	TC029	MZ109
96	MZ120	Mazda	CX-30 2020 On (01/2020 - 05/2020)	SkyActiv-G (GVC) (AT)	2.0	TC025	MZ102
97	MZ121	Mazda	CX-30 2020 On	High SkyActiv-G (GVC) (AT)	2.0	TC025	MZ102
98	MZ122	Mazda	CX-30 2020 On	High SkyActiv-D (GVC) (AT)	1.8	TC025	MZ102
99	MZ123	Mazda	CX-30 2020 On	SkyActiv-G (GVC) (AT)	2.0	TC025	MZ102
100	MZ124	Mazda	CX-30 2020 On	High SkyActiv-G (GVC) (AT)	2.0	TC025	MZ102
101	MZ083	Mazda	CX-5 2017 On	GL SkyActiv-G (GVC) (AT)	2.0	TC031	MZ119
102	MZ084	Mazda	CX-5 2017 On	GLS SkyActiv-G (GVC) (AT)	2.0	TC031	MZ119
103	MZ085	Mazda	CX-5 2017 On	GLS SkyActiv-G (GVC) (AT)	2.5	TC031	MZ119
104	MZ086	Mazda	CX-5 2017 On	GLS SkyActiv-D (GVC) (AT)	2.2	TC031	MZ119
105	MZ087	Mazda	CX-5 2017 On	GLS SkyActiv-D (GVC) AWD (AT)	2.2	TC031	MZ119
106	MZ110	Mazda	CX-5 2018 On	GL SkyActiv-G (GVC) (AT)	2.0	TC031	MZ119
107	MZ111	Mazda	CX-5 2018 On	GLS SkyActiv-G (GVC) (AT)	2.0	TC031	MZ119

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108	MZ112	Mazda	CX-5 2018 On	GLS SkyActiv-G (GVC) (AT)	2.5	TC031	MZ119
109	MZ113	Mazda	CX-5 2018 On	GLS SkyActiv-D (GVC) (AT)	2.2	TC031	MZ119
110	MZ114	Mazda	CX-5 2018 On	GLS SkyActiv-D (GVC) AWD (AT)	2.2	TC031	MZ119
111	MZ115	Mazda	CX-5 2019 On	SkyActiv-G (Mid) (AT)	2.0	TC031	MZ119
112	MZ116	Mazda	CX-5 2019 On	SkyActiv-G (High) (AT)	2.0	TC031	MZ119
113	MZ117	Mazda	CX-5 2019 On	GLS SkyActiv-G (AT)	2.5	TC031	MZ119
114	MZ118	Mazda	CX-5 2019 On	GLS SkyActiv-D (AT)	2.2	TC031	MZ119
115	MZ119	Mazda	CX-5 2019 On	SkyActiv-G Turbo 4WD (AT)	2.5	TC031	MZ119
116	MZ145	Mazda	MX-30 2022 On	EV Mid e-Skyactiv (AT) EV Mid	Electric	TC025	MZ146
117	MZ146	Mazda	MX-30 2022 On	EV High e-Skyactiv (AT) EV High	Electric	TC025	MZ146
118	NS091	Nissan	X-Trail 2010 On (08/2010 - 03/2013)	(AT)	2.0	TC025	NS109
119	NS109	Nissan	X-Trail 2010 On (04/2013 - 01/2015)	(AT)	2.0	TC025	NS109
120	RN017	Renault	Captur 2016 On (03/2016 - 04/2018)	TCe 120 EDC (Mk1) (DCT)	1.2	TC025	RN018
121	RN018	Renault	Captur 2016 On	TCe 120 EDC (Mk1) (DCT)	1.2	TC025	RN018
122	RN022	Renault	Koleos 2012 On (06/2012 - 02/2014)	2.5 (CVT)	2.5	TC025	RN026

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123	RN023	Renault	Koleos 2012 On (03/2014 - 08/2016)	2.5 (CVT)	2.5	TC025	RN026
124	RN024	Renault	Koleos 2016 On	2.5 (CVT)	2.5	TC025	RN026
125	RN025	Renault	Koleos 2016 On	2.5 4WD (CVT)	2.5	TC025	RN026
126	RN026	Renault	Koleos 2016 On	2.5 Signature 2WD (CVT)	2.5	TC025	RN026
127	SB011	Subaru	Outback 2015 On (04/2015 - 06/2018)	2.5i-S (CVT)	2.5	TC028	SB014
128	SB014	Subaru	Outback 2015 On	2.5i-S (CVT)	2.5	TC028	SB014
129	TY270	Toyota	GR Yaris 2020 On	1.6L (MT)	1.6	TC019	TY270
130	VO028	Volvo	S60 2001 On	T5 (AT)	2.0	TC027	VO030
131	VO029	Volvo	S60 2001 On	T5 (AT)	2.3	TC027	VO030
132	VO030	Volvo	S60 2001 On	T5 (AT)	2.4	TC027	VO030
133	VO004	Volvo	V70 1998 On	GLE (AT)	2.0	TC012	VO004
134	VO009	Volvo	V70 1998 On	XC (AT)	2.3	TC028	VO009
135	VO077	Volvo	XC60 2018 On (01/2018 - 04/2020)	T5 Momentum (AT)	2.0	TC031	VO077
136	VO078	Volvo	XC60 2018 On (04/2020 - 11/2021)	T5 Momentum (AT)	2.0	TC031	VO077
137	VO079	Volvo	XC60 2018 On	Momentum B5 (AT)	2.0	TC031	VO077

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138	VO080	Volvo	XC60 PHEV 2018 On	Inscription Plus (CBU) T8 (AT)	2.0	TC031	VO077
139	VO081	Volvo	XC60 PHEV 2018 On	Inscription T8 (AT)	2.0	TC031	VO077
140	VO082	Volvo	XC60 PHEV 2018 On	Inscription Plus T8 (AT)	2.0	TC031	VO077
141	VO083	Volvo	XC60 PHEV 2018 On	Inscription Plus (FL) T8 Recharge (AT)	2.0	TC031	VO077
142	VO071	Volvo	XC90 2018 On (09/2018 - 11/2019)	T5 Momentum (AT)	2.0	TC037	VO071
143	VO072	Volvo	XC90 2018 On (11/2019 - 04/2021)	T5 Momentum (AT)	2.0	TC037	VO071
144	VO073	Volvo	XC90 2018 On	T5 Momentum (AT)	2.0	TC037	VO071
145	VO074	Volvo	XC90 2018 On	Inscription Plus (AT)	2.0	TC037	VO071
146	VO064	Volvo	XC90 PHEV 2015 On (12/2015 - 05/2016)	Inscription T8 (AT)	2.0	TC037	VO071
147	VO065	Volvo	XC90 PHEV 2015 On	Inscription (CKD) T8 (AT)	2.0	TC037	VO071
148	VO066	Volvo	XC90 PHEV 2015 On (01/2018 - 11/2019)	Inscription T8 (AT)	2.0	TC037	VO071
149	VO067	Volvo	XC90 PHEV 2015 On	Inscription Plus T8 (AT)	2.0	TC037	VO071
150	VO068	Volvo	XC90 PHEV 2015 On	Inscription (FL) T8 (AT)	2.0	TC037	VO071
151	VO069	Volvo	XC90 PHEV 2015 On	Inscription Plus (FL) T8 (AT)	2.0	TC037	VO071
152	VO070	Volvo	XC90 PHEV 2015 On	Inscription Plus (FL) (AT)	2.0	TC037	VO071

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**2.0 ADDITIONAL NOTES & INFORMATION :**

NIL

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NOTE: This is computer generated and no signature is required.