

## **2023 HUNGARIAN GRAND PRIX**

21 - 23 July 2023

From The FIA Formula One Technical Delegate Document

To The Stewards Date 21 July 2023

**Time** 09:25

6

Title Technical Delegate's Report

**Description** PU elements used per driver up to now

Enclosed 12 HUN GP 23 TDR1.pdf

Jo Bauer

The FIA Formula One Technical Delegate



## **2023 HUNGARIAN GRAND PRIX**

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## **Technical Delegate's Report**

The drivers entered in the 2023 Formula One Championship have used the below listed number of power unit elements during this season so far:

ICE Internal Combustion Engine  MGU-H Motor Generator Unit – Heat  ES Energy Store  EX Engine EXhaust system		MGU-K Motor Generator Unit – Kinetic CE Control Electronics						
Car	Driver	ICE	TC	MGU-H	MGU-K	ES	CE	EX
RBR RBPT				3				4
RBR RBPT			3		3		3	4
Ferrari					3		4	4
Ferrari					3			4
Mercedes	•		3	3	3	2	2	4
			2		2			3
•								4
	•							5
			2		2			4
						2		5
			2	2	2	1	2	4
			2			1	1	4
			2		2			3
						2	2	3
	Kevin Magnussen					1	1	4
						1		5
			3	3	3			4
								3
								3
Williams Mercedes	Logan Sargeant	2	2	2	2	2	2	4
	<ul> <li>Motor Generator Unit Energy Store         Engine EXhaust system         Car         RBR RBPT         RBR RBPT         Ferrari         Ferrari</li> </ul>	H Motor Generator Unit – Heat Energy Store Engine EXhaust system  Car  RBR RBPT RBR RBPT Ferrari Ferrari Mercedes Mercedes Mercedes Alpine Renault Alpine Renault McLaren Mercedes Alfa Romeo Ferrari Alfa Romeo Ferrari Aston Martin Mercedes Max Verstappen Merce Garlos Sainz George Russell Lewis Hamilton Esteban Ocon Pierre Gasly Oscar Piastri Lando Norris Valtteri Bottas Zhou Guanyu Lance Stroll Fernando Alonso Kevin Magnussen Nico Hülkenberg Nyck de Vries AlphaTauri RBPT Nyck de Vries Yuki Tsunoda Williams Mercedes	H Motor Generator Unit – Heat Energy Store Engine EXhaust system  Car BRR RBPT RBR RBPT Sergio Perez Carlos Sainz Ferrari Carlos Sainz George Russell Lewis Hamilton Esteban Ocon Alpine Renault McLaren Mercedes Alfa Romeo Ferrari Alfa Romeo Ferrari Castos Sainz Aston Martin Mercedes Lance Stroll Alpha Ferrari Carlos Sainz 3 Mercedes Lewis Hamilton 2 Alpine Renault Pierre Gasly McLaren Mercedes Lando Norris Alfa Romeo Ferrari Alfa Romeo Ferrari Aston Martin Mercedes Aston Martin Mercedes Aston Martin Mercedes Haas Ferrari Haas Ferrari Alpha Ferrari Alpha Tauri RBPT Nyck de Vries Alexander Albon Williams Mercedes Alexander Albon	H Motor Generator Unit – Heat Energy Store Engine EXhaust system  Car  RBR RBPT RBR RBPT Sergio Perez Carlos Sainz Ferrari Carlos Sainz Mercedes Me	H Motor Generator Unit – Heat Energy Store Engine EXhaust system  Car  RBR RBPT RBR RBPT Sergio Perez Carlos Sainz Ferrari Carlos Sainz Mercedes George Russell Alpine Renault McLaren Mercedes McLaren Mercedes Max Verstappen Max Ver	H Motor Generator Unit – Heat Energy Store Engine EXhaust system  Car Driver RBR RBPT RBR RBPT Sergio Perez Carlos Sainz Ferrari Carlos Sainz George Russell Mercedes Carlos Sainz Mercedes Carlos Marilon Carlos Mercedes Carlos Mercedes Carlos Mercedes Carlos Megu-H MGU-H MGU-H MGU-H MGU-H MGU-H MGU-H MGU-H MGU-K CE Control Electronics Carlos Sainz As a sergio Perez As a se	H Motor Generator Unit – Heat Energy Store Engine EXhaust system  Car Driver ICE TC MGU-H MGU-K ES RBR RBPT Max Verstappen 3 3 3 3 3 2 RBR RBPT Sergio Perez 3 3 3 3 3 3 3 Ferrari Charles Leclerc 3 3 3 3 3 3 3 Ferrari Carlos Sainz 3 3 3 3 3 2 Mercedes George Russell 3 3 3 3 3 2 Mercedes Lewis Hamilton 2 2 2 2 2 2 2 Alpine Renault Pierre Gasly 4 4 4 4 4 2 McLaren Mercedes Lando Norris 3 3 3 3 3 2 McLaren Mercedes Lando Norris 3 3 3 3 3 2 Alfa Romeo Ferrari Valtteri Bottas 3 2 2 2 2 1 Aston Martin Mercedes Lance Stroll 2 2 2 2 2 2 Aston Martin Mercedes Fernando Alonso 2 2 2 2 2 2 Aston Martin Mercedes Fernando Alonso 2 2 2 2 2 2 Alfa Serrari Kevin Magnussen 3 3 3 3 3 3 AlphaTauri RBPT Nyck de Vries 3 3 3 3 3 3 AlphaTauri RBPT Yuki Tsunoda 3 3 3 3 3 Williams Mercedes Alexander Albon 3 3 3 3 3	H         Motor Generator Unit – Heat Energy Store         MGU-K CE         Motor Generator Unit – Kinet CE         Control Electronics           Engine EXhaust system         CE         Control Electronics         CE         Control Electronics           Car         Driver         ICE         TC         MGU-H         MGU-K         ES         CE           RBR RBPT         Max Verstappen         3         3         3         3         2         2           RBR RBPT         Sergio Perez         3         3         3         3         3         3         3         3         4           Ferrari         Charles Leclerc         3         3         3         3         3         3         4         4         4         4         4         4         4         4         4         4         4         4         4         4         2