

## 2022 BRAZILIAN GRAND PRIX

10 - 13 November 2022

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<b>From</b>	The FIA Formula One Technical Delegate	<b>Document</b>	48
<b>To</b>	The Stewards	<b>Date</b>	13 November 2022
		<b>Time</b>	12:55

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### Technical Delegate's Report

The following parts and parameters have been replaced / changed during the Parc Fermé yesterday and today:

#### Mercedes:

Car 63: Rear heave unit  
RHS rear tyre temperature sensor  
RHS front inner brake caliper duct  
RHS rear outer brake duct drum  
LHS rear inner brake drum duct

Car 44: RHS rear out brake duct drum

#### Red Bull Racing RBPT:

Car 01: Forward tailpipe section  
Turbo heatshield  
Gearbox tailpipe heatshield  
Headrest  
Front wing/nose assembly

Car 11: Rear transponder loom connector  
RNC gearbox assembly (previously used RNC)  
Gearbox control hydraulics  
Gearbox torque sensor  
LHS and RHS outboard rear suspension assemblies  
LHS and RHS outboard rear brake duct assemblies  
Parameter changes associated with the RNC and control hydraulic replacement

**Ferrari:**

Car 55: Forward floor plank section  
LHS mirror housing  
RHS trumpet sensor  
Parameter changes associated with the RHS trumpet sensor replacement

**McLaren Mercedes:**

Car 03: Parameters associated with the torque pedal map  
Floor assembly  
Floor plank  
Front wing/nose assembly  
RHS driver mirror lens

Car 04: Silicone engine breather tube  
Parameters associated with the torque pedal map  
Drivers' headrest padding

**Alpine Renault:**

Car 14: ICE water pump assembly  
Front wing/nose assembly  
LHS front brake drum flick  
Engine cover  
RHS sidepod  
T-tray hatch panel  
LHS front track rod

Car 31: Upper gearbox heatshields  
Lower gearbox heatshields  
Engine cover  
Rear bodywork 'coke panels'  
Louvre panels  
LHS and RHS sidepods  
Floor assembly  
ICE (previously used)  
TC (previously used)  
MGU-K (previously used)  
MGU-H (previously used)  
Exhaust set (previously used)

## Parameters associated with the change of PU element(s)

### **AlphaTauri RBPT:**

- Car 10: Rear water cooler assembly  
T-Tray fairing
- Car 22: RHS driver mirror lens  
Rear beam wing fixings  
Front axle TPMS extension loom

### **Aston Martin Mercedes:**

- Car 18: Fire extinguisher unit  
Gearbox mainshaft speed sensor  
Parameter changes associated with the mainshaft speed sensor replacement
- Car 05: Forward floor plank section  
LHS floor skids

### **Williams Mercedes:**

- Car 23: Driver's seat (L.Sargeant)  
Throttle pedal assembly (L.Sargeant)  
Brake pedal assembly (L.Sargeant)  
Crotch strap seatbelt (L.Sargeant)  
ECU parameters associated with the use of an additional driver in P2  
RNC gearbox assembly (previously used RNC)  
Gearbox control hydraulics  
LHS and RHS outboard rear suspension assemblies  
LHS and RHS outboard rear brake duct assemblies  
Brake by wire unit  
Fuel primer pump pressure sensor & associated parameters.  
Parameters associated with the change of RNC and associated hydraulics  
Parameters associated with the change of brake by wire unit  
Driver's seat (A.Albon)  
Throttle pedal assembly (A.Albon)  
Brake pedal assembly (A.Albon)  
Crotch strap seatbelt (A.Albon)  
ECU parameters associated with reverting to race driver for the Sprint  
Forward floor beam  
Forward floor skids

RHS front tyre shield vane  
RHS front brake duct scoop  
RHS forward floor stay support bracket  
LHS front inboard brake duct donut  
Front wing/nose assembly

Car 06: LHS rear upright clevis  
Floor assembly  
Floor plank  
Forward floor cover  
Water system PRV

### **Alfa Romeo Racing Ferrari:**

Car 77: Engine water bottle assembly  
Front wing/nose assembly

Car 24: RHS driver mirror lens  
Front brake duct bracket

### **Haas Ferrari:**

Car 20: Heatshield mounting bracket  
Floor assembly

Car 47: RHS inboard lower beam wing cover  
LHS sidepod

All above parts have been replaced with the approval of the FIA technical delegate following a written request from the team concerned, this being in accordance with Article 40.3 of the 2022 Formula One Sporting Regulations.

**Jo Bauer**

**The FIA Formula One Technical Delegate**