

2021 BRAZILIAN GRAND PRIX

11 - 14 November 2021

From	The FIA Formula One Race Director	Document	7
To	All Teams, All Officials	Date	11 November 2021
		Time	17:12

Title Race Directors' Event Notes Version 2

Description Event Notes Version 2

Enclosed 2021 Brazilian F1 Grand Prix Event Notes V2 Doc 7.pdf

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The FIA Formula One Race Director

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11 – 14 November 2021

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To	All Teams, All Officials	Date	11 November 2021
		Time	17:10

EVENT NOTES VERSION 2 **General Instructions**

1) Pit lane map

- 1.1 Safety Car lines.
- 1.2 The location of the pit entry and the pit exit.
- 1.3 Designated garage areas.
- 1.4 Safety Car position for first lap and rest of race.
- 1.5 Blue flag marshal at the pit exit.
- 1.6 Track light panels displaying pit entry status.

2) Pirelli Event Preview

- 2.1 With reference to Article 24.4a) of the Sporting Regulations see the attached document provided by the official tyre supplier.

3) Red zones for photographers in the pit lane during practice sessions

- 3.1 See the attached drawing.

4) Track light panels

- 4.1 The FIA track light panels have been installed in the positions shown on the circuit map. In accordance with Appendix H to the ISC the light signals have the same meaning as flag signals.

5) Track light panel displaying pit entry status

- 5.1 The light panel indicated on the pit lane map will display a flashing yellow arrow if cars are required to use the pit lane once the Safety Car has been deployed during the race.
- 5.2 The light panel indicated on the pit lane map will display a flashing red cross if the pit lane is closed at any point during the sprint qualifying session or race.

6) Drivers leaving their pit stop position in the pit lane

- 6.1 For safety reasons, no car should be driven from its pit stop position at any time unless:
 - a) It has first been driven into the pit stop position having just entered the pit lane from the track, and;
 - b) It is then driven immediately back onto the track from the pit stop position.

7) Observing yellow flags during free practice and qualifying

- 7.1 Double waved: Any driver passing through a double waved yellow marshalling sector must reduce speed significantly and be prepared to change direction or stop. In order for the stewards to be satisfied that any such driver has complied with these requirements it must be clear that he has not attempted to set a meaningful lap time, for practical purposes any driver in a double yellow sector will have that lap time deleted.
- 7.2 Single waved: Drivers should reduce their speed and be prepared to change direction. It must be clear that a driver has reduced speed and, in order for this to be clear, a driver would be expected to have braked earlier and/or discernibly reduced speed in the relevant marshalling sector.
- Drivers should not overtake any car in a single waved yellow marshalling sector unless it is clear that a car is slowing with a completely obvious problem, e.g. obvious accident damage or a deflated tyre.

8) In laps during qualifying and reconnaissance laps

- 8.1 In order to ensure that cars are not driven unnecessarily slowly on in laps during and after the end of qualifying or during reconnaissance laps when the pit exit is opened for the sprint qualifying session or the race, drivers must stay below the maximum time set by the FIA between the Safety Car lines shown on the pit lane map.

You will be informed of the maximum time after the first free practice session.

9) Parc Fermé Cameras

- 9.1 To assist with the revised FIA Event procedures, the Parc Fermé cameras must be uncovered and operational at all times during the Event.

10) Operational personnel curfew

- 10.1 Boards warning anyone attempting to enter the paddock that the curfew is in operation will be placed immediately before the turnstiles at the appropriate times.
- 10.2 At this Event, Personnel will be permitted to enter the Paddock 30 minutes prior to the curfew to assist social distancing. No work is permitted to be undertaken until the curfew has ended.

11) Tyre Blanket Usage during Pit Stops in the Race

- 11.1 For reasons of safety, tyre blankets are not permitted in the Pit Lane at any time during the sprint qualifying session or the race.

12) Lapping during the sprint qualifying session or the race

- 12.1 The ISC requires drivers who are caught by another car about to lap him to allow the faster driver past at the first available opportunity. The F1 Marshalling System has been developed in order to ensure that the point at which a driver is shown blue flags is consistent, rather than trusting the ability of marshals to identify situations that require blue flags.

The system will be set to give a pre-warning when the faster car is within 3.0s of the car about to be lapped, this should be used by the team of the slower car to warn their driver he is soon going to be lapped and that allowing the faster car through should be considered a priority. When the faster car is within 1.2s of the car about to be lapped blue flags will be shown to the slower car (in addition to blue light panels, blue cockpit lights and a message on the timing monitors) and the driver must allow the following driver to overtake at the first available opportunity.

It should be noted that the aim of using F1MS is to ensure consistent application of the regulations, additional instructions may also be given by race control when necessary.

Event Specific Instructions

13) Formula 1 Sporting Regulations Article 21.6

13.1 In accordance with the provisions of Article 21.6a)ii), this Event is an Open Event.

14) Changes to the circuit

14.1 A small area at the apex of Turn 4 has been resurfaced.

14.2 The apex kerbs at Turn 6 and Turn 7 have been replaced with a new Bevel Kerb.

14.3 The track surface has been grooved to assist drainage between Turns 9 and 10 and on the right-hand side of the pit straight.

15) Specific Technical Procedures

15.1 The provisions of Technical Directive Ref: TD012 Issue A and TD003 Issue F must be complied with at all times during the Event.

15.2 Any tyres that are removed from a car and could be re-used during a session should be presented for scanning before being rewrapped and reheated. If time constraints do not permit this then all tyres used during a session must be presented to the tyre checker at the front of the garage at the end of any session. This applies to dry, wet and intermediate tyres.

15.3 Both TD012 Issue: A and TD003 Issue F will be amended after the Event to reflect any additional operational requirements as required.

16) Weighing and weighing platform

16.1 The FIA weighing platform will be available for teams to use at the following times, however, no more than 8 team personnel may be present during any visit. Each visit should last no more than 10 minutes unless no other team is waiting in the pit lane:

a) From 12:30 on Thursday until 11:30 on Friday.

b) From 13:30 until 15:30 on Friday (each visit will be restricted to five (5) minutes).

c) From when the cars are returned to the teams after the qualifying practice session until 20:30 on Friday.

d) From 09:00 until 15:30 on Saturday (between 13:00 and 15:30 on Saturday each visit will be restricted to five (5) minutes).

e) From when the cars are returned to the teams after the sprint qualifying session until 20:30 on Saturday.

f) From 09:00 until 10:00 and 12:00 until 13:20 on Sunday.

Any team found to be abusing the time limits set out above, which we will be enforced by FIA security personnel and our own CCTV, will not be permitted to use the weighbridge again during the Event.

17) Practice starts

17.1 Practice starts may only be carried out on the asphalt on the left-hand side of the fast lane at the pit exit and, for the avoidance of doubt, this includes any time the pit exit is open for the sprint qualifying session and race. Room must always be left on the right for another car to pass if necessary.

There will be marshals on the left behind the guardrail in the pit exit who will wave white flags when a car is stopped for the purpose of carrying out a practice start.

17.2 Due to the nature of the pit exit we do not expect any driver intending to carry out a practice start to carry out any pre-start routines if there is another car behind them, this will be considered driving unnecessarily slowly in the pit exit and a report will be made to the stewards.

Therefore, and for the avoidance of doubt, any driver intending to carry out a practice start at the pit exit must drive to the allocated place as quickly as possible without slowing to carry out "burn-outs" or any associated pre-start routine if there is another car behind them.

- 17.3 Drivers should take no more than five seconds to prepare for their car for a practice start if any cars are waiting behind them.
- 17.4 For reasons of safety and sporting equity, cars may not stop in the fast lane at any time the pit exit is open without a justifiable reason (a practice start is not considered a justifiable reason).
- 17.5 For reasons of safety and sporting equity, at any time the pit exit is open and when practice starts are permitted to be carried out, any car who wishes to perform a practice start must form up in a line and leave in the order they got there unless another car is unduly delayed.

18) Lines or bollards at the Pit Entry and Pit Exit

- 18.1 In accordance with Chapter 4 (Section 5) of Appendix L to the ISC drivers must keep to the left of the solid white line at the pit exit when leaving the pits. No part of any car leaving the pits may cross this line.
- 18.2 For safety reasons drivers must keep to the left of the of the solid white line immediately prior to the pit entry when they are entering the pits.
- 18.3 Except in the cases of force majeure (accepted as such by the Stewards), the crossing by any part of the car, in any direction, of the painted area between the pit entry and the track, by a driver who, in the opinion of the Stewards, had committed to entering the pit lane is prohibited.
- 18.4 There is a small warning light panel on the left-hand side at the pit entry which will be operated if a car is stopped or going slowly around the corner of the pit entry.

19) DRS

- 19.1 DRS Detection will be automatically disabled in each individual zone if any of the light panels in that particular zone are displaying yellow. The zone and corresponding light panels are as follows:
 - a) Zone 1: Panels 3, 4, 5
 - b) Zone 2: Panels 15, 16, 1, 2

20) Fire extinguishers around the circuit

- 20.1 Indicated by white boards with a red letter "F" attached to the debris fences and barriers **and these are accompanied by a small orange sticker. In these locations' extinguishers are manned.**
- 20.2 **Where there are only small orange stickers present, there is an extinguisher but it is not manned.**

21) Places where drivers may leave the track

- 21.1 Indicated by fluorescent orange panels on the walls or guardrails.

22) Places to remove cars from the track

- 22.1 Indicated by fluorescent orange panels on the barriers.
- 22.2 Should a car stop on the track during a session, the driver must keep all of their protective clothing (Helmet, Gloves, etc) on until they have returned to their garage.

23) Access to the grid prior to the Start Procedure

- 23.1 To assist social distancing in accessing the grid prior to the commencement of the start procedure, Team personnel and equipment will be granted access to the grid from:
 - a) 1545hrs on Saturday 13th November.
 - b) 1300hrs on Sunday 14th November.

24) Removing cars from the grid

- 24.1 Through the gate in the pit wall located adjacent to grid position 17.

25) Car number light panels for the start

25.1 On the right-hand side of the grid.

26) Post-race parc fermé

26.1 All cars must enter the pit lane and, with the exception of the first three (3), should be driven directly to the weighing area at the pit entry.

26.2 The first three (3) cars must follow the post-race procedure which will be distributed prior to the start of the race.

27) Any other business

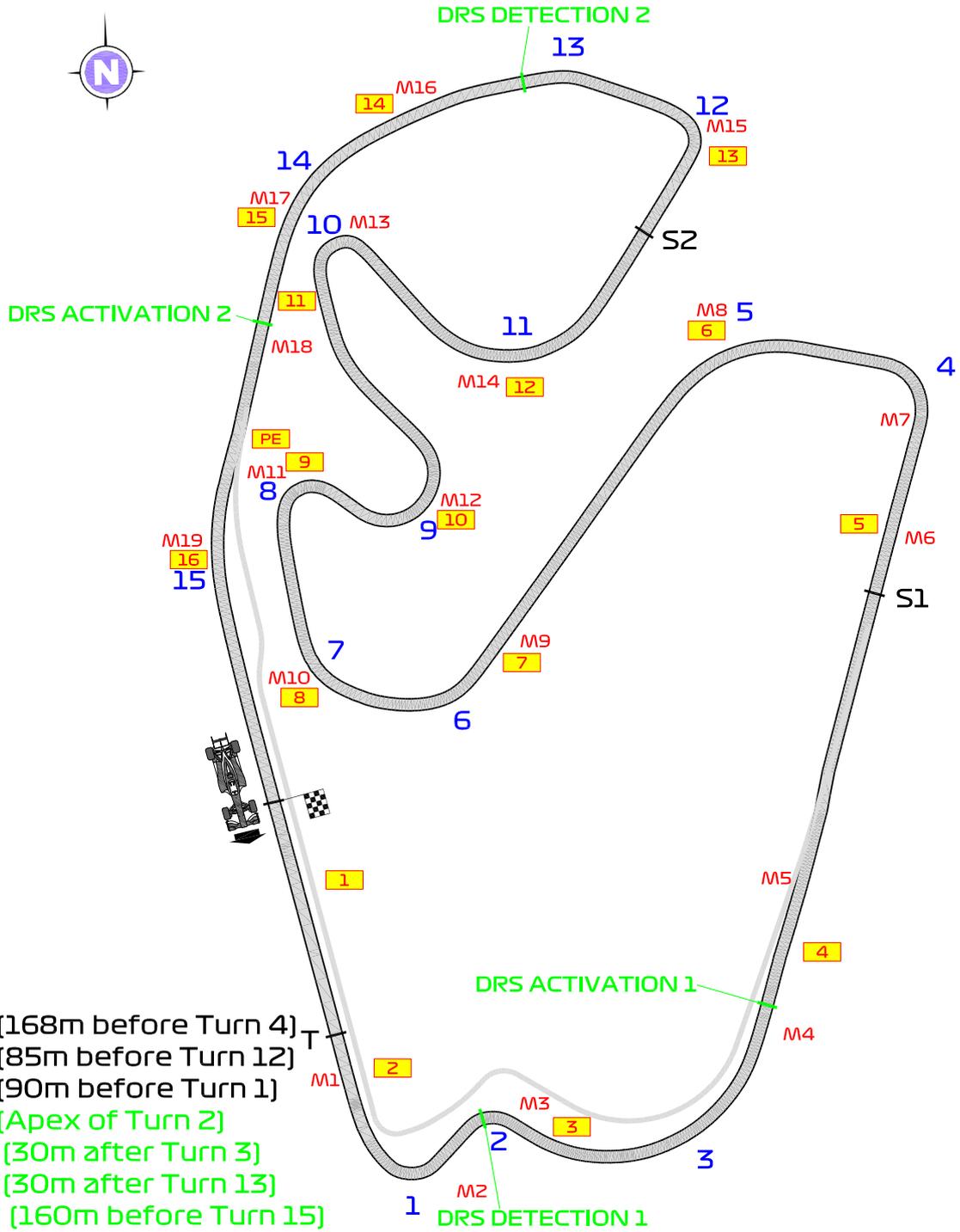
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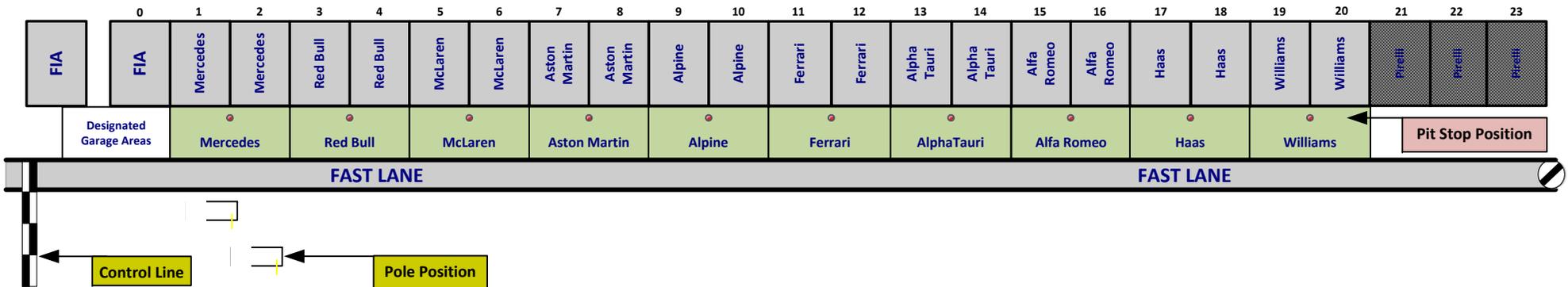
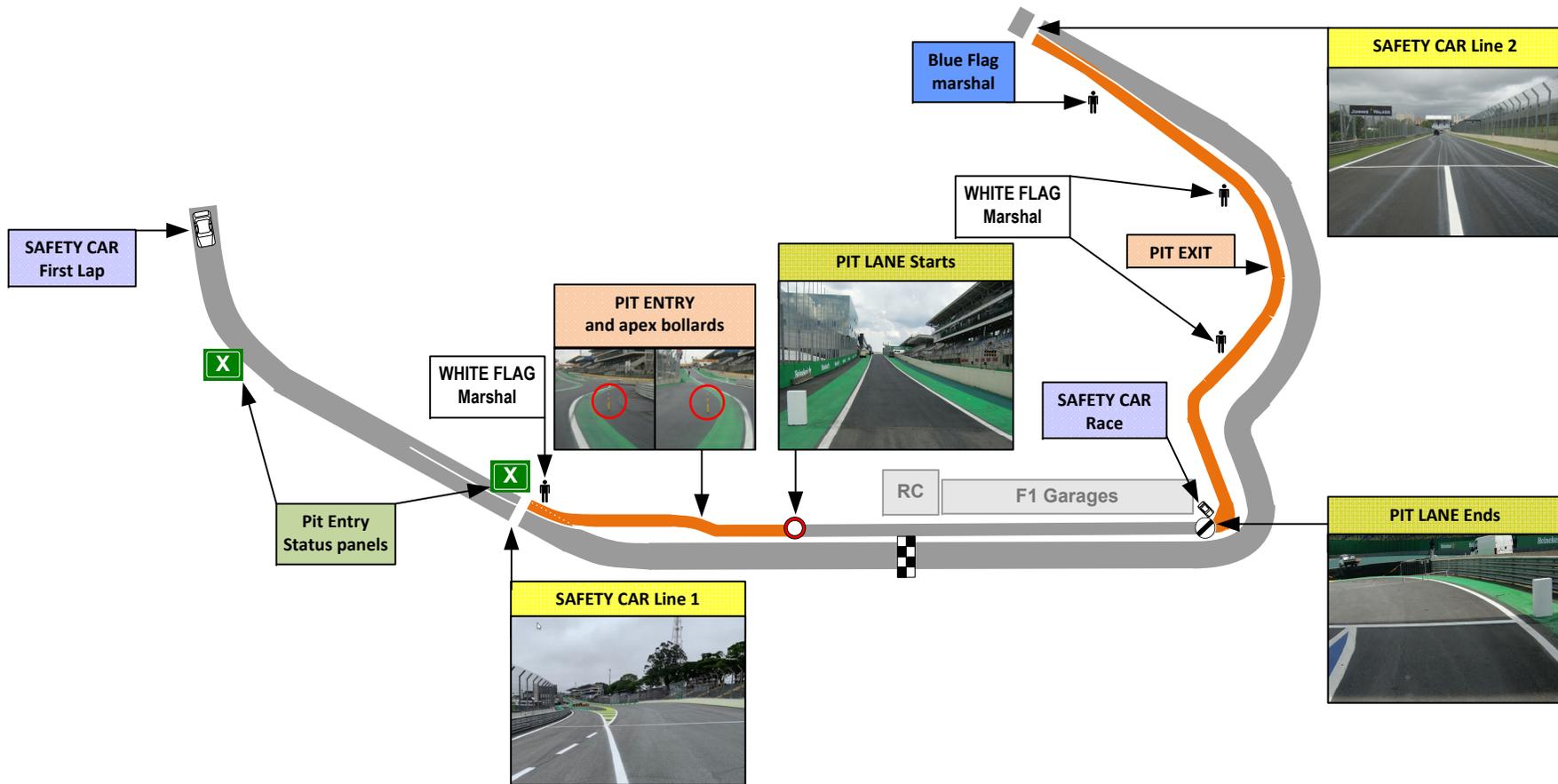
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Circuit Map



- Start Line
- Control Line
- S1 Sector 1 [168m before Turn 4]
- S2 Sector 2 [85m before Turn 12]
- T Speed Trap [90m before Turn 1]
- DRS Detection 1 [Apex of Turn 2]
- DRS Activation 1 [30m after Turn 3]
- DRS Detection 2 [30m after Turn 13]
- DRS Activation 2 [160m before Turn 15]
- 15 Corner Numbers
- M22 Marshal Post
- FIA Marshal Light Number & Location

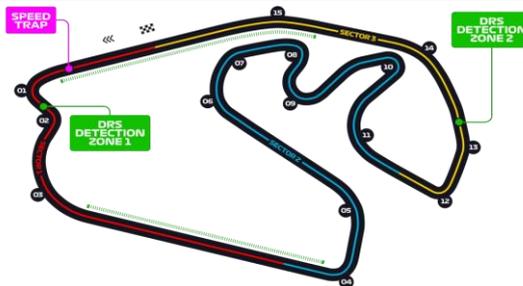
Circuit Centreline Length = 4.309km



In agreement with the FIA and in accordance with Article 24.4 a) of the F1 Sporting Regulations, this document contains the prescriptions for the operation of tyres during the following event.

Document version: 1.1 issue: A

Grand Prix of Brazil 12/11-14/11/2021 (21R19INT)



Compounds selection

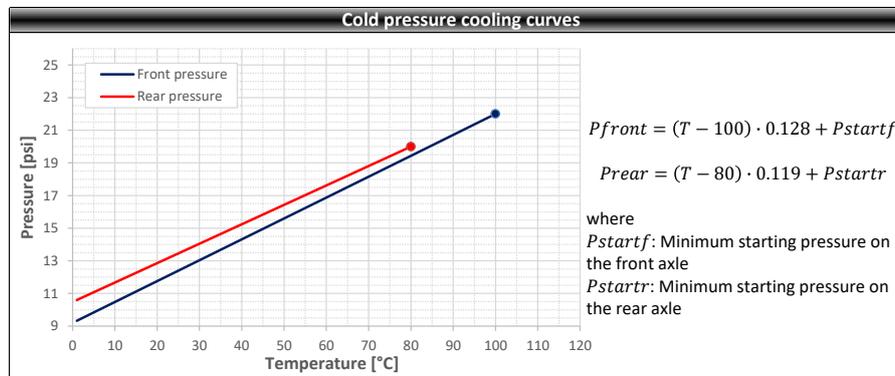
Compound	FL	FR	RL	RR	Mandatory race tyres
C2	2W1	2W2	6W3	6W4	C2
C3	3Y1	3Y2	7Y3	7Y4	C3
C4	4R1	4R2	8R7	8R8	C4
Intermediate	33X	35X	37X	39X	Q3 tyre
Wet	34Y	36Y	37Y	39Y	C4

Prescriptions

Pressures, camber & blistering sensitivity

	Minimum Starting P			Expected stabilized running pressure	Camber limit	Blistering sensitivity
	Slicks	Inter	Wet			
Front	22.0 psi	21.5 psi	20.5 psi	≥23.0 psi	-3.50 °	Medium
Rear	20.0 psi	21.0 psi	20.0 psi	≥21.0 psi	-2.00 °	Medium

Cold pressure cooling curves



Maximum heating times and temperatures (tread & sidewall)

Temperature	0	60	80	100 (°C)
Slicks (front axle)	max. 3h			
Slicks (rear axle)	max. 3h			
Intermediate	max. 2h		max. 30'	
Wet	max. 2h			

- Temperatures refer to tyre tread and side wall temperatures, not blanket or controller set-point temperatures.
- Tyres may only be heated prior to the session in which they are intended to be used.
- The temperatures apply at all times during the event.

Tyres notes

- | | |
|---|--|
| <ul style="list-style-type: none"> • Not permitted to switch tyres from their originally allocated position. • Do not subject tyres to large deformation or heavy impact. • Do not leave fitted tyres exposed at an air temperature lower than 15°C and/or any UV emission. • Revised prescriptions could be issued during the race weekend in accordance with TD003. | <ul style="list-style-type: none"> • Heating time temperature limits apply to the actual tyre surface temperature measured with the IR gun as detailed in the TD003 • Cold cooling curve temperature limits apply to the tyre side wall temperature measured with the probe as detailed in TD003 • BLANKET HEATING TIME for each temperature range to be counted from the moment the blanket control unit is set to reach its targeted temperature within its correspondent interval. |
|---|--|

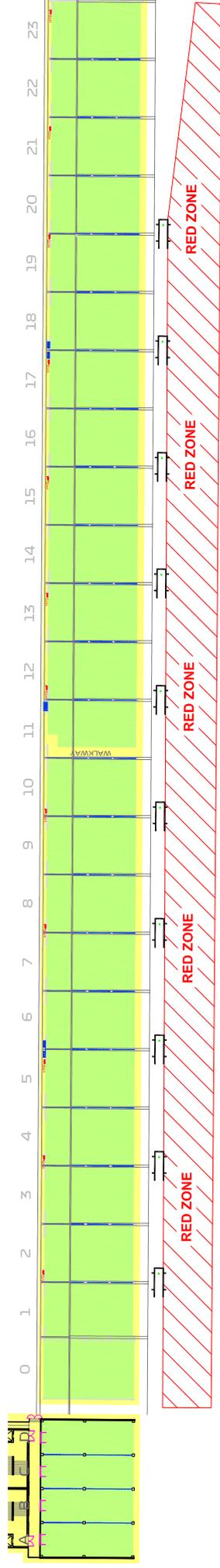
General notes

Teams are kindly reminded that the following will be subject to FIA checks during the event:

- Starting pressures
- Cold pressures (according to the cold pressure cooling curves)
- Re-heat pressures
- EOS Camber
- Maximum tyre temperatures in blankets
- Tyre swapping



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