



FIA FORMULA 1 WORLD CHAMPIONSHIP



2024 SINGAPORE GRAND PRIX

20 - 22 September 2024

From	The FIA Formula One Media Delegate	Document	10
To	All Teams, All Officials	Date	20 September 2024
		Time	14:49

Title Car Presentation Submissions

Description Car Presentation Submissions

Enclosed 2024 Singapore Grand Prix - Car Presentation Submissions.pdf

Roman De Lauw

The FIA Formula One Media Delegate



FIA FORMULA 1 WORLD CHAMPIONSHIP

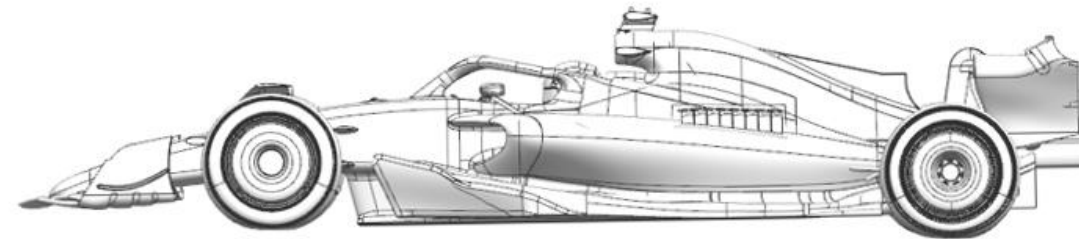
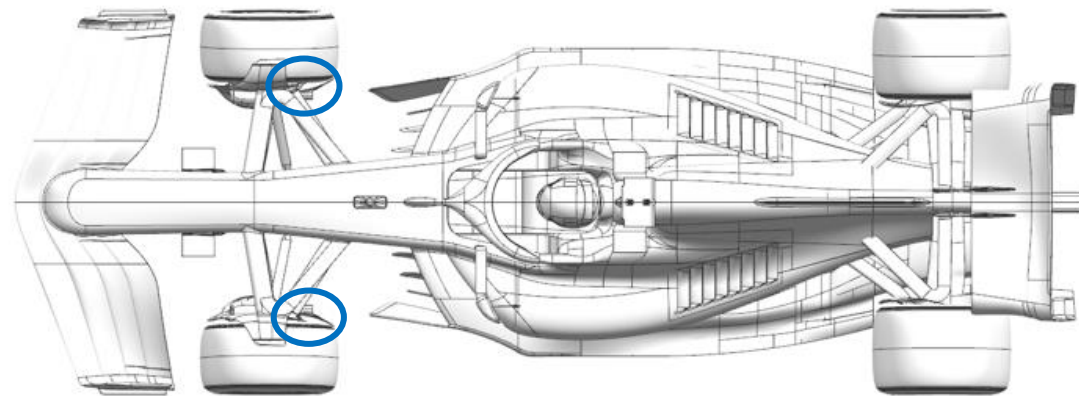
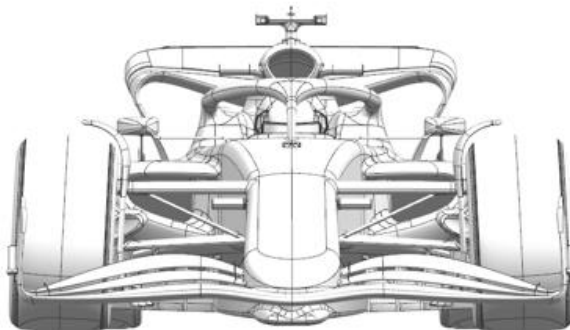
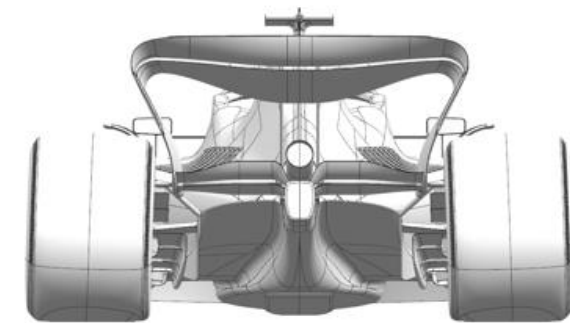


Car Presentation – Singapore Grand Prix Red Bull Racing

	Updated component	Primary reason for update	Geometric differences compared to previous version	Brief description on how the update works (min 20, max 100 words)
1	Front Corner	Circuit specific - Cooling Range	Enlarged front brake duct exit geometry	To attain more front brake material cooling, a larger exit duct has been designed and made to cope with the demands of Singapore.



FIA FORMULA 1 WORLD CHAMPIONSHIP





FIA FORMULA 1 WORLD CHAMPIONSHIP



**Car Presentation – Singapore Grand Prix
Mercedes-AMG PETRONAS F1 Team**

No updates submitted for this event.



FIA FORMULA 1 WORLD CHAMPIONSHIP

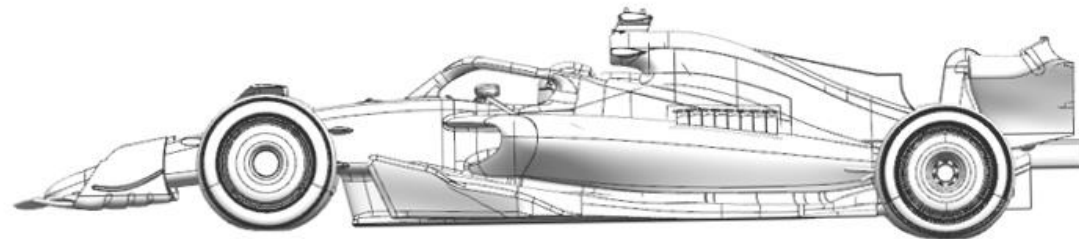
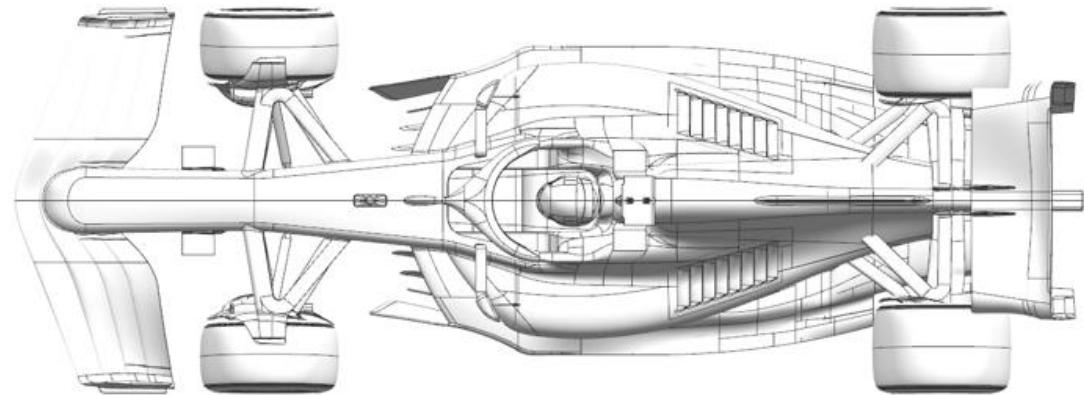
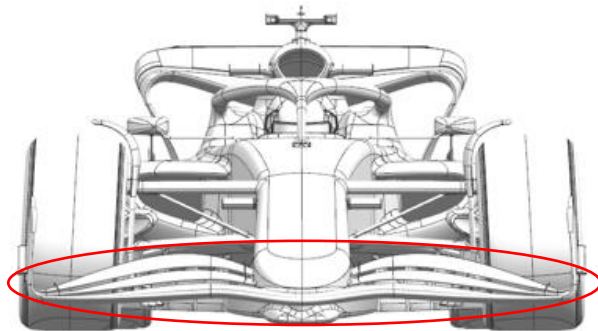
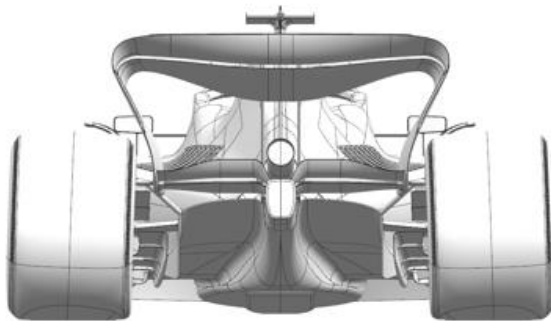


Car Presentation – Singapore Grand Prix SCUDERIA FERRARI

	Updated component	Primary reason for update	Geometric differences compared to previous version	Brief description on how the update works (min 20, max 100 words)
1	Front Wing	Performance - Flow Conditioning	Revised 3 rd and 4 th element spanwise loading distribution, updated tip details	Not specific to the Singapore circuit, this front wing upgrade offers performance and downstream flow features improvements over a wider polar range



FIA FORMULA 1 WORLD CHAMPIONSHIP





FIA FORMULA 1 WORLD CHAMPIONSHIP

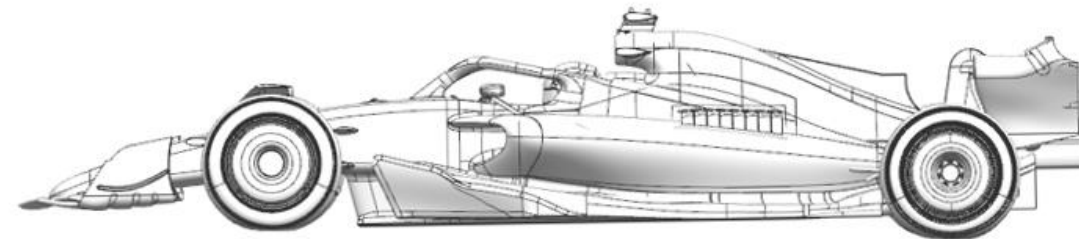
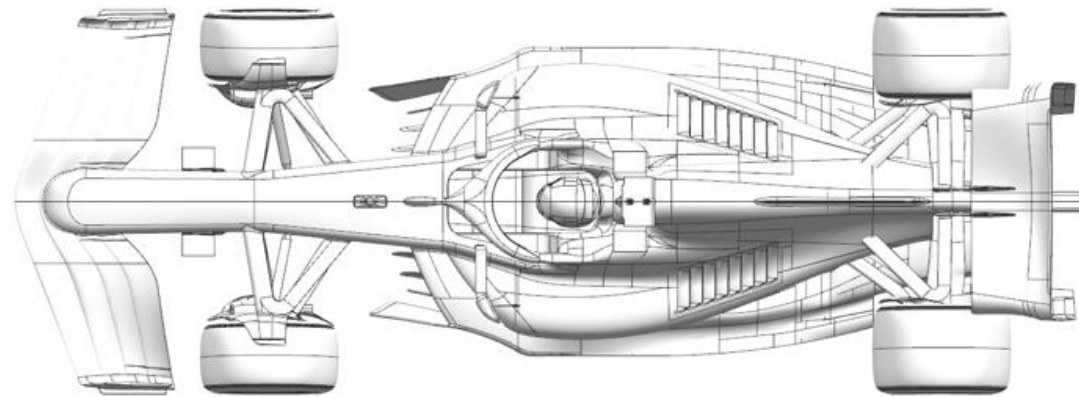
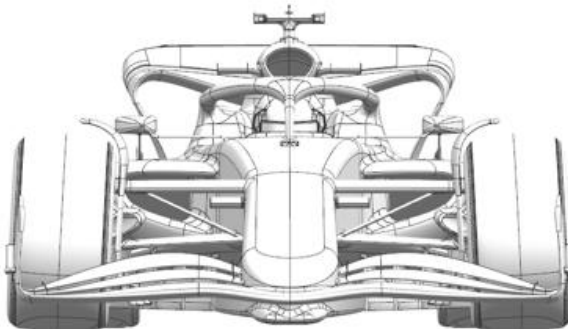
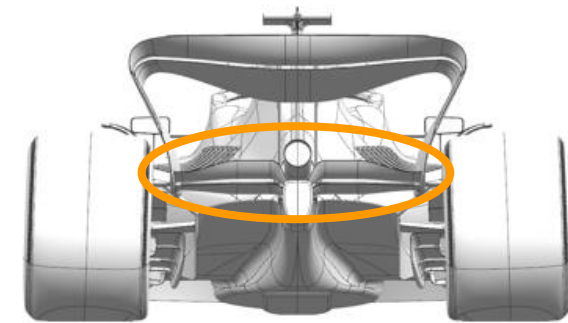


Car Presentation – Singapore Grand Prix McLaren Formula 1 Team

	Updated component	Primary reason for update	Geometric differences compared to previous version	Brief description on how the update works (min 20, max 100 words)
1	Beam Wing	Circuit specific - Drag Range	Higher Downforce Beam Wing	As required by the track characteristics a more loaded Beam Wing has been designed which efficiently increases overall aerodynamic load.



FIA FORMULA 1 WORLD CHAMPIONSHIP





FIA FORMULA 1 WORLD CHAMPIONSHIP

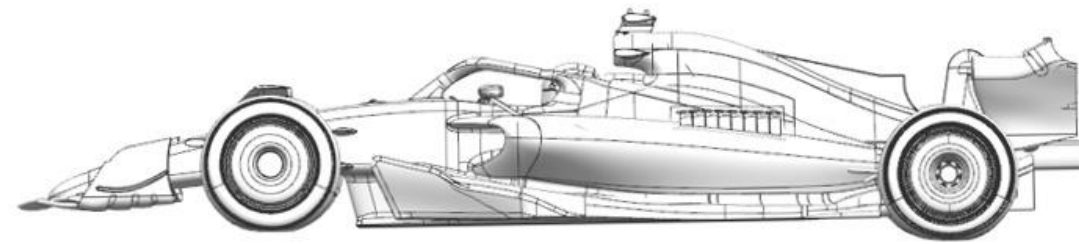
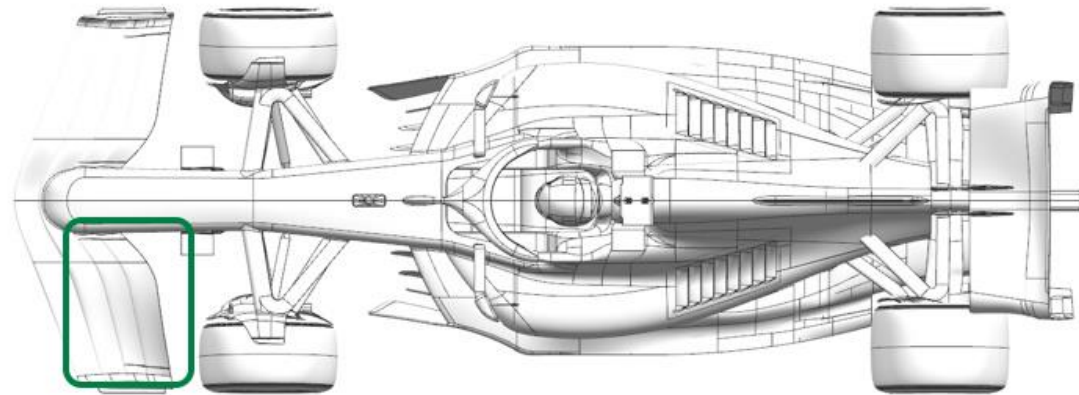
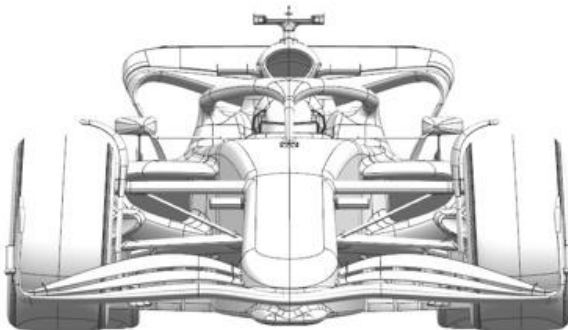
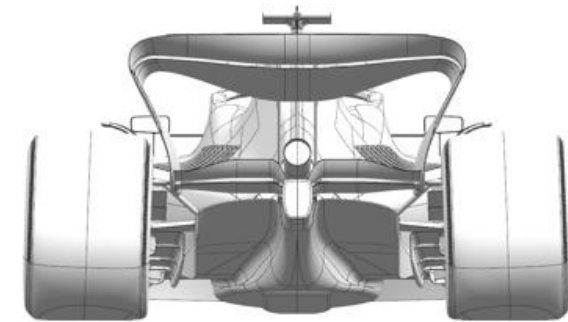


Car Presentation – Singapore Grand Prix Aston Martin Aramco F1 Team

	Updated component	Primary reason for update	Geometric differences compared to previous version	Brief description on how the update works (min 20, max 100 words)
1	Front Wing	Circuit specific - Balance Range	A more aggressive flap with increased incidence mid-span.	The increased aggression of the flap increases the load generated by the front wing to balance the rear wing level expected to be run at this event.



FIA FORMULA 1 WORLD CHAMPIONSHIP





FIA FORMULA 1 WORLD CHAMPIONSHIP

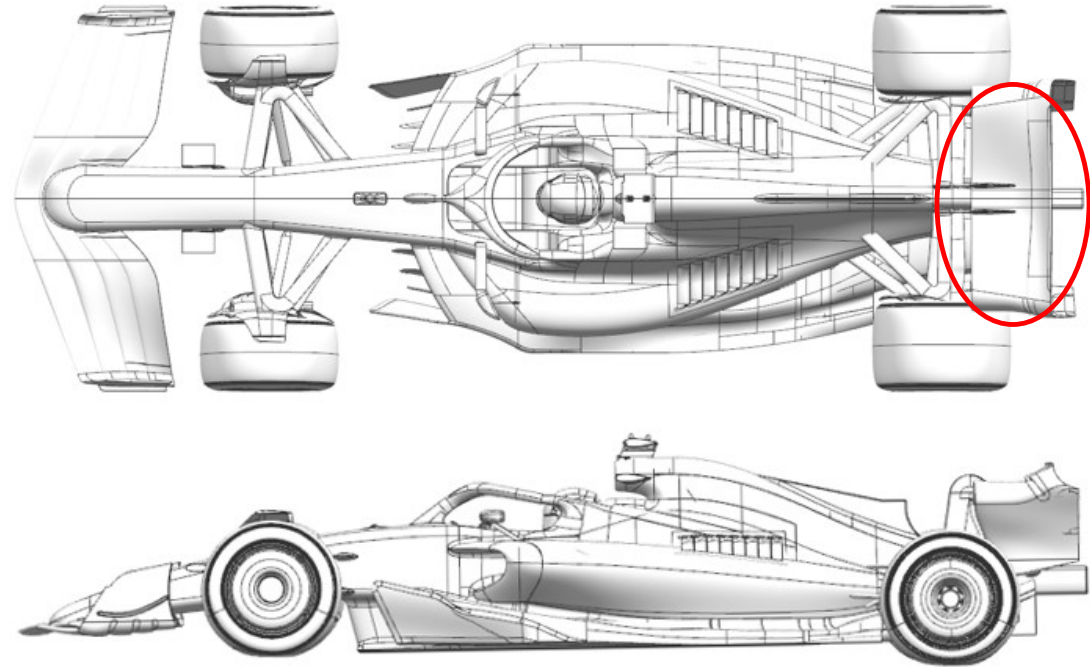
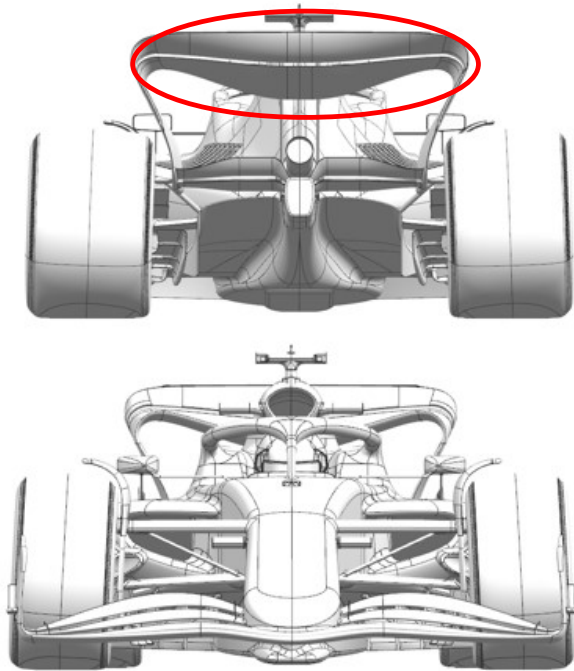


Car Presentation – Singapore Grand Prix BWT Alpine F1 Team

	Updated component	Primary reason for update	Geometric differences compared to previous version	Brief description on how the update works (min 20, max 100 words)
1	Rear Wing	Performance - Local Load	Reprofiled top rear wing main plane suited for track characteristics and its high downforce nature	The top rear wing has been reprofiled to increase rear wing loading with the aim of improving lap time at such low efficiency track.



FIA FORMULA 1 WORLD CHAMPIONSHIP





FIA FORMULA 1 WORLD CHAMPIONSHIP

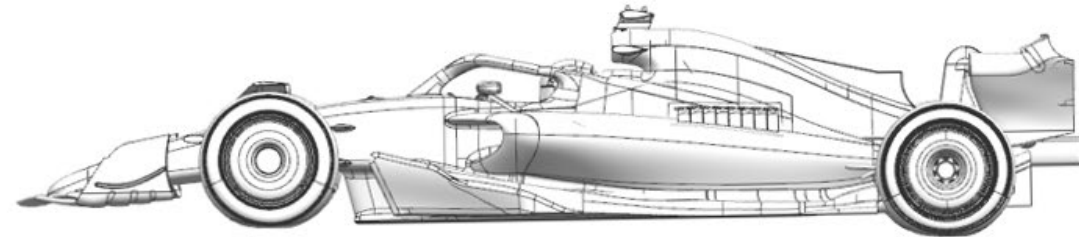
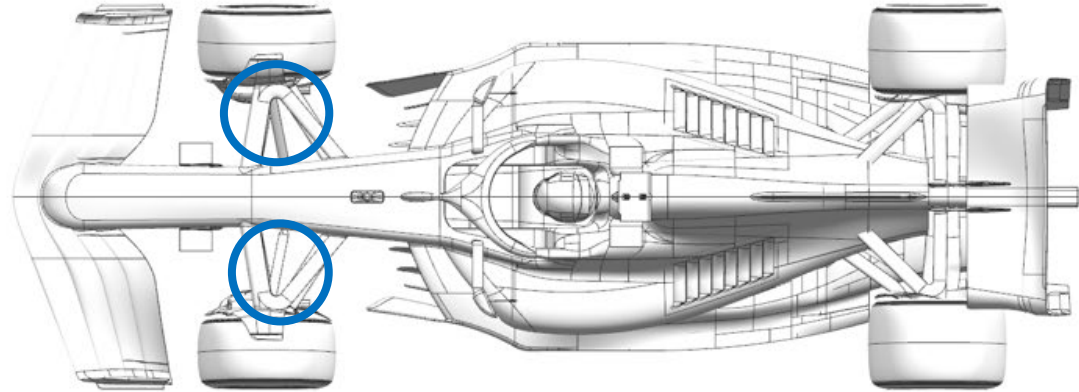
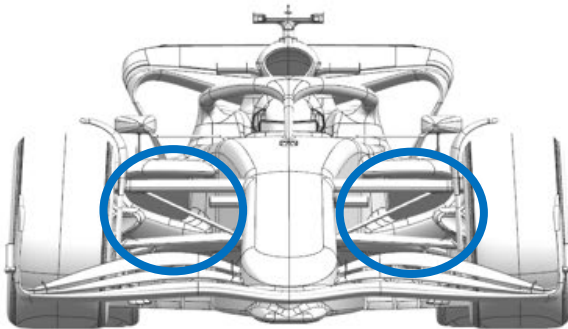
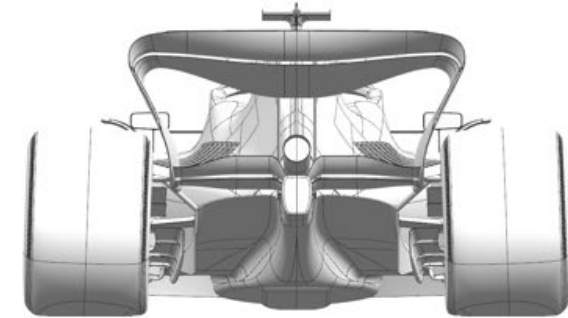


Car Presentation – Singapore Grand Prix Williams Racing

	Updated component	Primary reason for update	Geometric differences compared to previous version	Brief description on how the update works (min 20, max 100 words)
1	Front Suspension	Performance - Flow Conditioning	Front wishbones, track rod and pushrod geometries are updated. Minor updates to some of the brake duct surfaces, boot panels, and chassis leg fairings compliment the revised leg geometries.	These changes condition the flow ahead of the surfaces that were updated for the Dutch GP. The revised onset flow helps deliver more local load from the previous update.



FIA FORMULA 1 WORLD CHAMPIONSHIP





FIA FORMULA 1 WORLD CHAMPIONSHIP

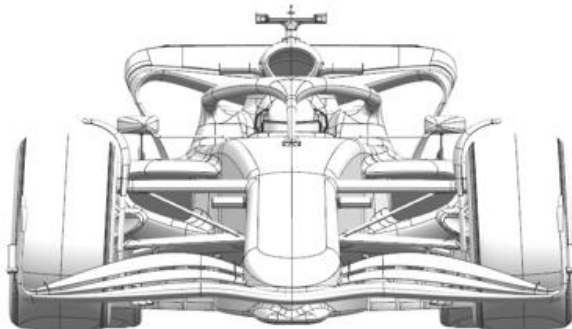
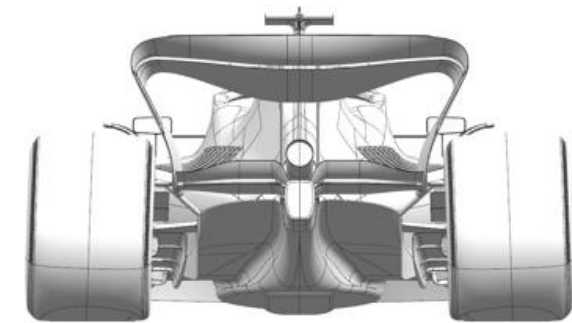


Car Presentation – Singapore Grand Prix Visa Cash App RB

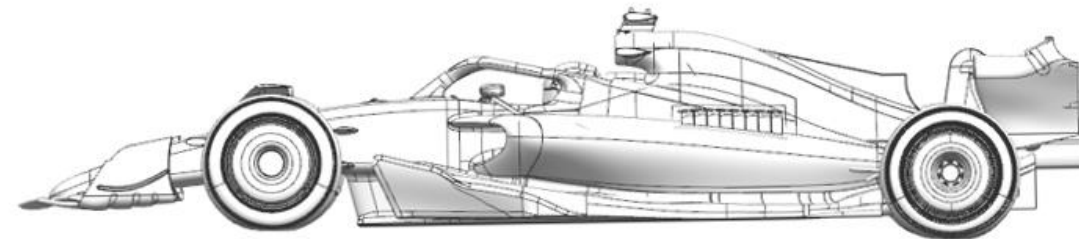
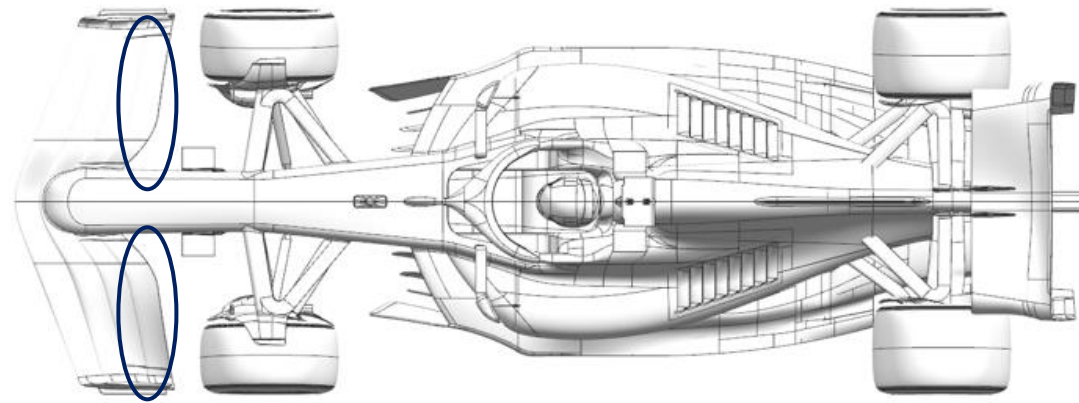
	Updated component	Primary reason for update	Geometric differences compared to previous version	Brief description on how the update works (min 20, max 100 words)
1	Front Wing	Circuit specific - Balance Range	Increased camber & chord flap compared to previous components.	This larger front flap increases the amount of overall load generated by the front wing assembly, to provide the balance range necessary for high-downforce, high-balance circuits.



FIA FORMULA 1 WORLD CHAMPIONSHIP



Front wing





FIA FORMULA 1 WORLD CHAMPIONSHIP



**Car Presentation – Singapore Grand Prix
Stake F1 Team KICK Sauber**

No updates submitted for this event.



FIA FORMULA 1 WORLD CHAMPIONSHIP



**Car Presentation – Singapore Grand Prix
MONEYGRAM HAAS F1 TEAM**

No updates submitted for this event.