

UNVEILING THE 2022 FORMULA ONE CAR

Fast and furious: Closing the gap

The new rules come into effect next year and are aimed at promoting closer racing, with more potential for overtaking. Here are some of the key changes.

The downforce effect

Currently, loss of downforce is 35% when running 20m behind a car, while it rises to 47% when the gap is 10m. The new rules to reduce "dirty air" will cut those losses to 4% and 18% respectively. By drastically reducing the downforce loss, drivers can now manoeuvre more closely and overtake in corners.

Bigger wheels

For the first time, 18-inch (45.7cm) wheels will be used instead of the 13-inch version to reduce overheating. The safety improvements, plus the bigger tyres, mean the minimum car weight will rise 5% to 790kg

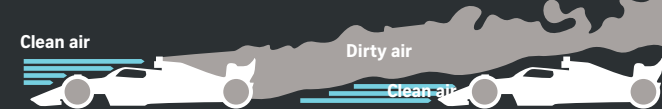
Wake-control devices

Over-wheel winglets and wheel covers will cut down on turbulence

Previous model



2022 model



Rear wing

Directs airflow higher upwards, thus allowing a following car to drive through less disrupted air. DRS (drag reduction system) retained

Power unit

Same 1.6-litre turbo-hybrid units with DRS, fuelled by a new biofuel known as E-10, containing 10% sustainable ethanol

3D- Shaped floor

The design helps to generate more efficient downforce, without disturbing airflow behind

Front wing

Dubbed an "anti-outwash" front wing, it generates downforce and directs front-wheel wake down the side of the car

Front nose/safety

Stronger chassis all around and longer front nose to dissipate energy in a crash

Profile of models at a glance

2021



2022

