

THE LINE-UP

MERCEDES

Lewis Hamilton, 34
Valtteri Bottas, 29

44 77

FERRARI

Sebastian Vettel, 31
Charles Leclerc, 21

5 16

RED BULL

Max Verstappen, 21
Pierre Gasly, 23

33 10

RACING POINT

Sergio Perez, 29
Lance Stroll, 20

11 18

RENAULT

Nico Hulkenberg, 31
Daniel Ricciardo, 29

27 3

WILLIAMS

Robert Kubica, 34
George Russell, 21

88 63

MCLAREN

Carlos Sainz, 24
Lando Norris, 19

55 4

TORO ROSSO

Daniil Kvyat, 24
Alexander Albon, 22

26 23

HAAS

Romain Grosjean, 32
Kevin Magnussen, 26

8 20

ALFA ROMEO

Kimi Raikkonen, 39
Antonio Giovinazzi, 25

7 99

Who will wing it this time?

Changes to the chassis have been made to promote closer racing. The wake of turbulent airflow coming off a car will be less aerodynamically disruptive for chasing drivers. They should be able to get closer and have a better chance of overtaking.

SAFETY

BIOMETRIC GLOVES

- Sensors monitor heart rate and blood oxygen levels.
- Transmit potentially life-saving data in a medical emergency.



ULTRA-PROTECTIVE HELMETS

- Conform to higher FIA standards, including greater resistance to crushing and penetration.
- Visor front lowered by 100mm to reduce debris risks.
- Helmet tests include a 225g metal disc fired at 250km/h; a 10kg weight falling 5m; an air rifle shot directly at the visor; and exposure to a 790 deg C flame.

MORE REAR WING LIGHTS

- One on each endplate, in addition to the traditional central light.
- To increase visibility in poor weather conditions, illuminated when using intermediate or wet-weather tyres.

TYRES

- The rainbow range is now just three colours:



White (hardest) Yellow (medium) Red (softest)

- Five compounds (C1: hardest to C5), with three available for each race as before.
- New materials and new compounds will help reduce surface overheating and tyre blistering experienced last year, said Pirelli F1 boss Mario Isola.
- Shinier, with the use of a new chrome treatment in the moulds.

CHASSIS

FRONT WING

- Wider by 200mm, taller by 20mm and moved forward by 25mm. Extra height makes the car less sensitive to stall, so it is less likely to suddenly lose front-end grip when closing in.
- Endplates: Almost the full width of the wing can be used to create direct downforce. Complex ones that divert airflow around the front tyres are banned.
- Multiple under-wing strakes now limited to two on each side, meaning more of the airflow is fed to the underbody and less disruptive.

BARGEBOARDS

- Reduced in height by 150mm and moved forward by 100mm to "better join up" the flow from the front wing.
- Makes the wake less disruptive for following drivers.

REAR WING

- Simpler, higher by 20mm and wider by 100mm to take the disruptive wake higher into the air and create "a bigger hole in the air" to help the chasing car.
- Drag reduction system (DRS) opening increased by 2cm, boosting its potential power by about 25 per cent.



BRAKE DUCTS

- Simplified design to reduce "aerodynamic exploitation".
- Also means less downforce reduction when that area of the car is in choppy air, which again would benefit chasing drivers.

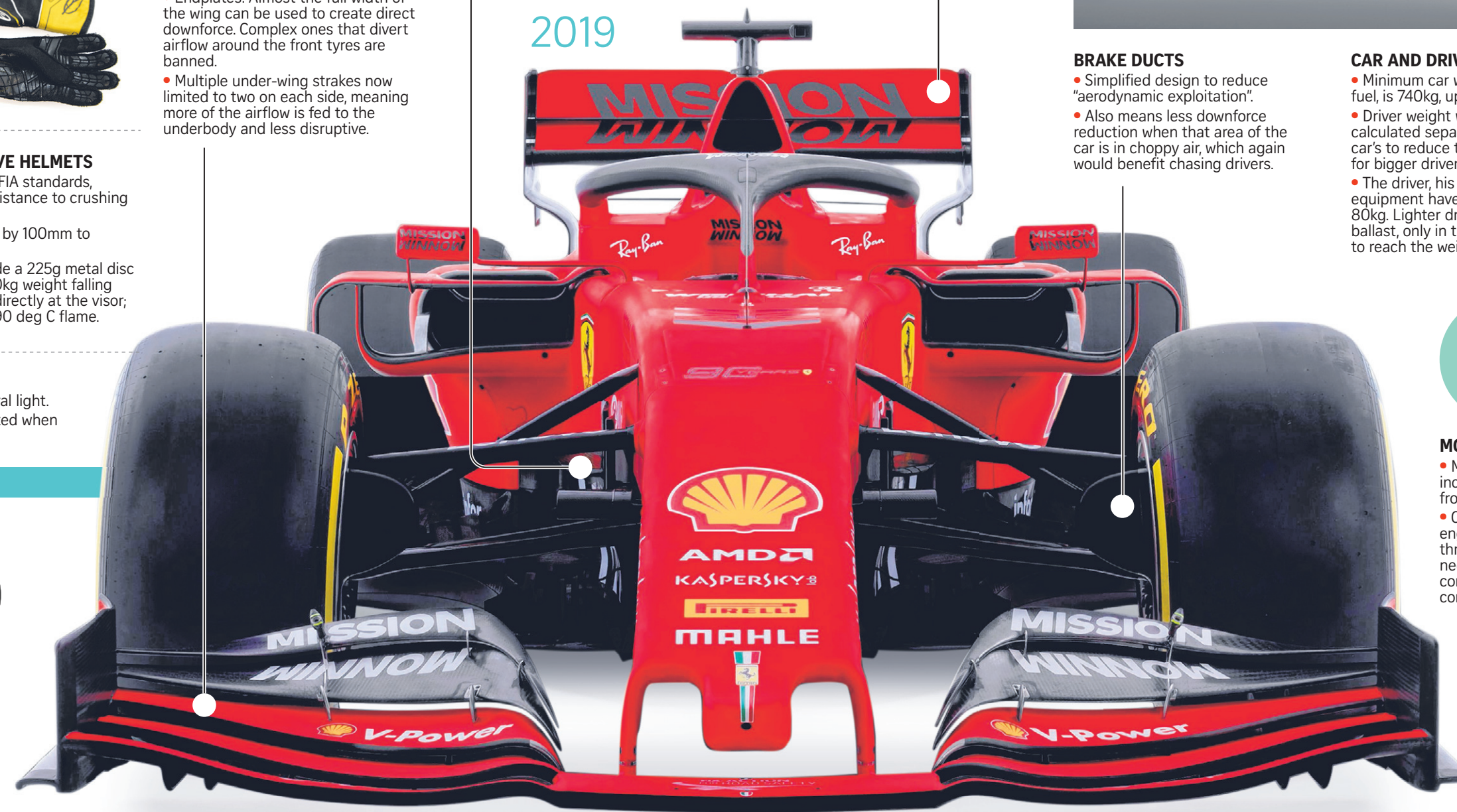
CAR AND DRIVER WEIGHT

- Minimum car weight, without fuel, is 740kg, up from 733kg.
- Driver weight will now be calculated separately from the car's to reduce the disadvantage for bigger drivers.
- The driver, his seat and driving equipment have to be at least 80kg. Lighter drivers can use ballast, only in the cockpit area, to reach the weight limit.



MORE FUEL

- Maximum increased to 110kg from 105kg.
- Can race at full engine power throughout, if needed, without concerns about conserving fuel.



YOUNG GUNS

The average age is just 27 years and 2 months, half the grid is aged 25 or under

Pierre Gasly, 23

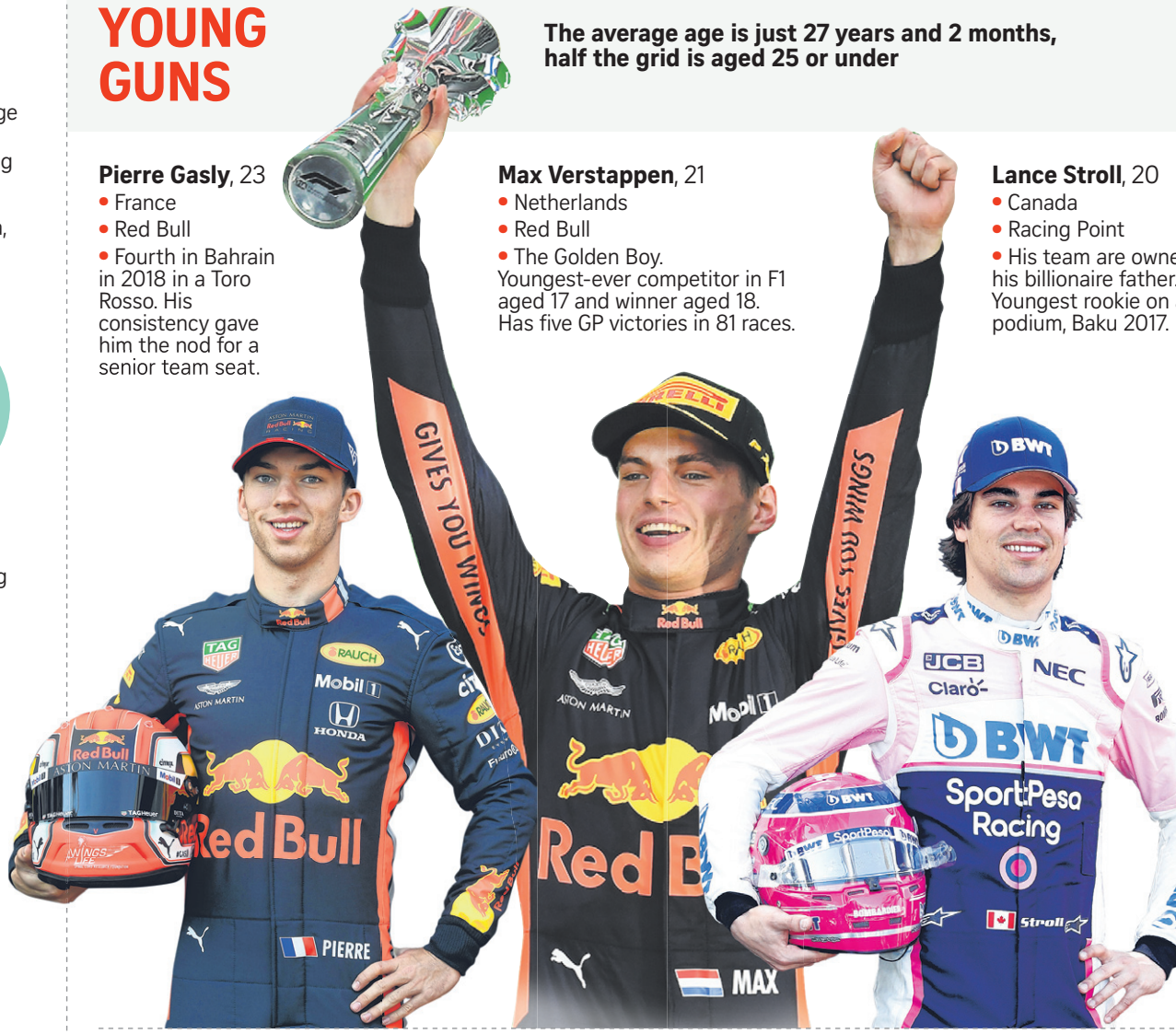
- France
- Red Bull
- Fourth in Bahrain in 2018 in a Toro Rosso. His consistency gave him the nod for a senior team seat.

Max Verstappen, 21

- Netherlands
- Red Bull
- The Golden Boy. Youngest-ever competitor in F1 aged 17 and winner aged 18. Has five GP victories in 81 races.

Lance Stroll, 20

- Canada
- Racing Point
- His team are owned by his billionaire father. Youngest rookie on a GP podium, Baku 2017.



Source: AFP, REUTERS, FORMULA1.COM PHOTOS: AFP, REUTERS, EPA-EFE, FERRARI STRAITS TIMES GRAPHICS: MARLONE RUBIO

THE RACES

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
Australia Melbourne - March 17	Bahrain Sakhir - March 31	China Shanghai - April 14	Azerbaijan Baku - April 28	Spain Catalunya - May 12	Monaco Monte Carlo - May 26	Canada Montreal - June 9	France Le Castellet - June 23	Austria Spielberg - June 30	Britain Silverstone - July 14	Germany Hockenheim - July 28	Hungary Budapest - Aug 4	Belgium Spa - Sept 1	Italy Monza - Sept 8	Singapore Marina Bay - Sept 22	Russia Sochi - Sept 29	Japan Suzuka - Oct 13	Mexico Mexico City - Oct 27	USA Austin - Nov 3	Brazil Sao Paulo - Nov 17	Abu Dhabi Yas Marina - Dec 1	
Laps	Laps	Laps	Laps	Laps	Laps	Laps	Laps	Laps	Laps	Laps	Laps	Laps	Laps	Laps	Laps	Laps	Laps	Laps	Laps	Laps	
Lap distance - Total	58 5.303km - 307.574km	57 5.412km - 308.238km	56 5.451km - 305.066km	51 6.003km - 306.049km	66 4.655km - 307.104km	78 3.337km - 260.286km	70 4.361km - 305.270km	53 5.842km - 309.690km	71 4.318km - 306.452km	52 5.891km - 306.198km	67 4.574km - 306.458km	70 4.381km - 306.630km	44 7.004km - 308.052km	53 5.793km - 306.720km	61 5.063km - 308.706km	53 5.848km - 309.745km	53 5.807km - 307.471km	71 4.304km - 305.354	56 5.513km - 308.405km	71 4.309km - 305.909km	55 5.554km - 305.355km