ORACLE Red Bull RACING

RB19

MAX VERSTAPPEN

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Max Verstappen

F1 world champion rewrites motor racing history



Max Verstappen and Oracle Red Bull Racing prepare to leave the garage during day one of F1 testing at the Bahrain International Circuit on February 23, 2023.

Since his early days in racing, he has proven to be an unstoppable force in Formula 1 and one of the most accomplished drivers in history.

There are people who seem destined to succeed from the day they are born. Max Verstappen is a case in point. The son of former Formula 1 driver Jos Verstappen and successful kart racer Sophie Kumpen, he grew up in a family with a rich motorsport heritage, where steering wheels and speed were part of his life from an early age. At just four and a half years old, he was already able to drive a go-kart. It was only a matter of time before he started securing his first victories. As a teenager, he became European KF and KZ champion. In the latter, the highest category of karting, he would go on to become world champion.

New categories, new triumphs

His dominance in karting suggested a logical jump to single-seaters. In 2014, Max made his debut in the FIA Formula 3 European Championship. To everyone's surprise, he recorded a total of 10 victories and finished



Max Verstappen performs at the F1 Showrun during the Jumbo Racedagen in Zandvoort, the Netherlands, on May 20, 2018.

the season in third place in the overall standings. His impressive performance did not go unnoticed by Red Bull's then motorsport advisor, Helmut Marko, who first invited him to join the Red Bull Junior Team in order to introduce him for the 2015 season as one of the Scuderia Toro Rosso drivers, alongside Carlos Sainz Jr. His Formula 1 debut came at the Australian Grand Prix. At 17, he became the youngest driver to start a World Championship race.

The remarkable season he completed, scoring a total of 49 points in the championship, was enough for him to be promoted to the Red Bull Racing in 2016, replacing Daniil Kvyat. On May 15, he set another record by becoming the youngest driver in history to win a Formula 1 race. It took place at the Spanish Grand Prix and Max was 18 years old at the time. During that historic season, he would go on to score a total of seven podium finishes and a fifth place in the Drivers' Championship.

An exceptional progression

The following years saw Max establish himself as one of the best drivers on the grid. If in both 2017 and 2018 he impressed by winning on demanding circuits such as Austria, from 2020 onwards he showed that his determination and ability to overcome adversity knew no bounds. This enabled him to win his first World Drivers' Championship in 2021 – beating Lewis Hamilton on the last lap of the decisive race in Abu Dhabi – and the following year, to retain his title by breaking all records with a total of 15 Grand Prix victories.

Every season, when Max Verstappen gets behind the wheel of his car, the fans roar in the knowledge that the brilliant Oracle Red Bull Racing driver is going to put on a show and discover new approaches to driving that are revolutionizing the world of Formula 1.

ORACLE Red Bull RACING

Becoming Max Verstappen

The secret to being a winner



It has been a continuous process of growth, learning, and improvement. From his family roots to his association with Oracle Red Bull Racing, each step in Max Verstappen's career has been a stepping stone to a greater goal, making him one of Formula 1's great legends.

There is no doubt today that the name Max Verstappen is synonymous with talent, speed, and determination. Despite his remarkable youth, he has already established himself as one of the most outstanding drivers in Formula 1 history, a position that is not earned overnight. From his early days in karting to his meteoric rise in Formula 1, the Dutchman has shown that being the best is not just a matter of innate talent, but also of meticulous preparation and an unwavering mentality. From his childhood, Max managed to surround himself with people who helped him become the unstoppable force he is today, most notably his bond with the Oracle Red Bull Racing team, which provided him with the tools he needed to transform his potential into world titles.

A young Max Verstappen in the Toro Rosso garage at the 2014 United States Grand Prix. He would drive for the team in 2015.

Learning to win

Being born into a family very familiar with motor racing allowed Max

to do something extraordinarily important in the preparation of a future champion: to learn how to manage both victories and defeats. From the time he started racing go-karts at the age of four, he began extensive training under the supervision of his father. Given his experience in the world of Formula 1, Jos Verstappen immediately sensed his son's enormous talent and made sure that Max had the best possible preparation. The two travelled from race to race, covering thousands of kilometers every year. And those experiences helped the rookie lay the foundations for victory; not only with the knowledge of the necessary technical skills, but also the mental fortitude to face the challenges of the world's elite.

Max's transition to cars was as quick as it was impressive. By the age of 16 he was racing in Formula 3, and a year later he was breaking youth and performance records in Formula 1, where he began to rub shoulders with the likes of Kimi Räikkönen, Sebastian Vettel, and Lewis Hamilton. His brashness on the track was interpreted almost as insolence by some of his veteran rivals. However, his immediate achievements confirmed to Oracle Red Bull Racing that they had found their next great champion in Max.

A winning partnership

There is no doubt that the meeting between driver and team was key to the revolution that Formula 1 has undergone in recent years. Both team principal Christian Horner and his chief advisor, former driver Helmut Marko, were able to create an ideal environment for Verstappen to exploit his potential to the full. Red Bull had already demonstrated in various sporting disciplines its extraordinary ability to identify and nurture young talent, and with Max it did so again.

Despite criticism of the driver's youth and inexperience, Marko and Horner were confident in his ability and did everything in their power to ensure that the new signing was able to adapt to the demands of modern Formula 1, perfecting his driving style and maturing as a driver. This required a permanent accompaniment of the young driver. Just as in his early years he had always had the close guidance of his father, Max now found himself under the protection of a team that placed its full confidence in him.

Under pressure

It didn't take Max long to realize what his father had warned him so often: in Formula 1 it's not enough to be the fastest driver. The pressure on the teams at Grand Prix races is extraordinary and everyone in the team, from the youngest to the oldest, has to be able to handle it. For that reason, the new signing understood that he would have to dedicate hours and hours to physical and mental training if he really wanted to make it onto the podium. Formula 1 is a sport that demands not only quick reflexes and great physical endurance, but also extraordinary mental strength. The team at Oracle Red Bull Racing ensured that Max worked hard to improve in all these areas, making sure that every aspect of his performance was optimized.

One of the key elements in his preparation was the ability to stay focused and manage pressure. Already following many of the lessons his father had taught him, and with the help of an expert like Marko, Verstappen was learning day by day how to channel all the adrenaline and tension generated in the race to his own advantage. Already in practice, the fruits of this systematic preparation began to show, not least in the driver's ability to perform high-risk maneuvers with almost surgical precision; even in adverse conditions such as rain, where his natural talent seemed to shine even brighter. Verstappen's meticulous training now had to start translating into wins.



Max Verstappen driving the (33) Red Bull Racing RB16B Honda during the F1 Abu Dhabi Grand Prix at Yas Marina Circuit on December 12, 2021, in Abu Dhabi, United Arab Emirates.

Great in battle

As the best strategists know, true courage is only proven in the heat of battle. And it was time for Max Verstappen to enter the fray. It would be a battle that would pit him against the likes of Nico Rosberg, Felipe Massa, Fernando Alonso, Vettel, and Hamilton. And these tussles were crucial to Max's development as a driver, as he had to prove not only that he had learned to manage his aggression when jumping on the track, but also that he had developed an exceptional ability to read races and make decisions under pressure.

One of the highlights of his career was the 2021 season, in which Max and Hamilton played out one of the most intense and exciting rivalries in Formula 1 history. The championship fight was decided on the final lap of the last race of the year, at the Abu Dhabi Grand Prix. Max, showing admirable coolness and determination, overtook Hamilton to win his first world title. This triumph not only cemented his place in the history of the sport, but also demonstrated his ability to perform at the highest level in the moments of greatest pressure, to come up big in battle. And with him the legend had begun.

The birth of the RB19

The quest for maximum efficiency



Verstappen driving the (1) Oracle Red Bull Racing RB19 on track during day one of F1 testing at Bahrain International Circuit on February 23, 2023.

The creation of the RB19 was not a stroke of luck, but the result of a continuous process of evolution with the podium always in focus.

Following the success of the RB18 in 2022, Oracle Red Bull Racing was faced with the task of designing a car that would not only be competitive, but exceed the standards they had set themselves. Instead of a revolution, the team decided to opt for evolution, improving on the aspects that had already proved effective in the RB18.

Conquering lightness

One of the key points in the creation of the RB19 was weight reduction. Max Verstappen, Oracle Red Bull Racing's star driver, had been clear about his need for a lighter car. During 2022, the RB18 had proven to be an exceptional car, but with one small drawback: its weight. While all teams struggled to meet the 798 kg (1,759 lb) weight limit, Oracle Red Bull Racing knew there was room for improvement.

Team boss Christian Horner revealed that they managed to shave 44 lb (20 kg) off the RB18 for the new model, an impressive achievement given that F1 cars are already engineered throughout to be as light as possible. This weight reduction was achieved not in a single component, but in multiple areas of the car, allowing Oracle Red Bull Racing to create a car that was more agile and capable of performing at its best on all types of circuits.



Oracle Red Bull Racing team at work at the Formula 1 Bahrain Grand Prix in Bahrain, March 5, 2023.

Adapting to each track

Weight was not the only tricky area that Red Bull wanted to improve in order to achieve a truly competitive car. While the RB18 had proven to be a formidable performer, it was not perfect. Slow cornering speed was one area where the car showed some weaknesses. Pierre Wache, Oracle Red Bull Racing's technical director, said that the 2022 Brazilian Grand Prix in particular, with its combination of corners at different speeds, highlighted where the RB18 still had room for improvement.

For the 2023 season, the aim was to create a car that would not be compromised on any circuit, whatever its layout and its

The price of victory



Christian Horner reveals why intrinsic motivation is key to Formula 1 success.

With the RB19, Oracle Red Bull Racing team set an almost unattainable standard for its rivals. However, the team knew throughout that there was no room for complacency. Christian Horner pointed out that, although they had made significant progress under current regulations, marginal profits were diminishing, making it harder to maintain this level of dominance. At every race, the price of victory was getting higher every day.

Max Verstappen at the wheel of the RB19 in its Texas livery at the 2023 F1 United States Grand Prix in Austin, Texas.

peculiarities. The key was to ensure that the car's handling was more important than the characteristics of the track. Much of the work therefore went into creating a more balanced model, capable of succeeding on both high-speed circuits and those with more technical corners. Later, the team's chief engineer, Paul Monaghan, boasted of having achieved the goal, pointing to victories at circuits as different as Silverstone and Monaco to demonstrate the RB19's versatility.

The best-kept secret

The RB19 has also become a benchmark in terms of aerodynamic design. Rival teams were quick to adopt elements of Oracle Red Bull Racing's design, such as the sidepod concept with aerodynamic camber, which was markedly different to the Ferrari and Mercedes designs. Yet despite these innovations, originality was not the main priority for the team. Adrian Newey, Oracle Red Bull Racing's former chief techical officer, is known for looking closely at the designs of rivals' cars. Any detail, no matter how small, can be useful in improving his own car. Wache said that at Oracle Red Bull Racing they are not afraid to learn from others, even from teams behind them on the grid. This humility and willingness to learn from others is one of the reasons for the success of the RB19.

It also counts to be able to hide developments from others. For example, the RB19's intricate floor design became a well-kept secret, revealed only in part when Sergio Pérez's car was lifted by a crane in Monaco after an accident. While this allowed rivals to get a glimpse of the car's design, Oracle Red Bull Racing knew there was much more at stake than simply copying what was visible from the outside.

This design came about as a result of adapting to the new technical regulations imposed by the Fédération Internationale de l'Automobile (FIA) for 2023, particularly to reduce the problem of "porpoising" that affected several teams in 2022. Although all the teams were forced to adapt their cars to these new rules, Oracle Red Bull Racing was one of the least affected by these changes and was undoubtedly the team that made the most of them.

Teamwork: the key to success

The success of the RB19 was only possible thanks to the coordinated work of the entire Oracle Red Bull Racing team. More than 600 people worked tirelessly to ensure that every aspect of the car performed flawlessly. Wache was keen to highlight three key figures in the development of the RB19: Ben Waterhouse, head of performance engineering; Enrico Balbo, head of aerodynamics; and Craig Skinner, chief designer. These leaders, with the help of their respective teams, played a pivotal role in creating a car that would far exceed all expectations.

The team behind the RB19 had already learned an important lesson: a fast Formula 1 car is not just the sum of its parts; it is the perfect interaction between them all. This was particularly evident at the rear of the RB19, where elements such as the DRS, diffuser,

Exploiting weaknesses



Sergio Pérez of Mexico (L) and Max Verstappen of the Netherlands (R) pose for a photo with trophies during Max & Checo's Homecoming at Red Bull Racing Factory on December 13, 2023, in Milton Keynes, England.

In Formula 1, success depends not only on your own performance, but also on the development of your rivals. The success of the RB19 was greatly influenced by the relative stagnation of its competitors. Mercedes and Ferrari, the other big names in the competition, failed to make the qualitative leap they had hoped for during the winter of 2022. This allowed Oracle Red Bull Racing to consolidate its dominance as the season progressed. Unlike its direct antagonists, who had to rethink their design concepts throughout the season, Oracle Red Bull Racing was quickly on the right track with its design philosophy, allowing the team to concentrate solely on fine-tuning the details.

and rear wing worked in perfect harmony to maximize straight-line performance. This holistic approach to car design was one of the reasons Oracle Red Bull Racing managed to maintain its lead over its rivals.

And it wasn't easy. Throughout the season, Oracle Red Bull Racing had to continue to develop the RB19, although this would prove to be a real challenge for Sergio "Checo" Pérez. While Verstappen adapted easily to a car with a looser rear end, Pérez needed more stability to make the most of his smooth driving style. This imbalance led Oracle Red Bull Racing to adjust its approach, ensuring that both drivers could make the most of the car.

The RB19 became the brilliant result of years of evolution, innovation, and teamwork. With it, Oracle Red Bull Racing proved that, in Formula 1, it is not enough to have the fastest car; you need a holistic approach from design to on-track execution. In doing so, the team was able to make the RB19 one of the most competitive cars in Formula 1 history.

BUILD THE

ORACLE Red Bull RACING RB19

MAX VERSTAPPEN

FRONT WING (2)

In this issue we will complete the assembly of the front wing of the Oracle Red Bull Racing RB19.

PIECES IN THIS ISSUE



- **2A** Lower part of the front wing
- **2B** Left endplate
- **2C** Right endplate
- **2D** Lower nose
- **2E** Halo
- **A** Screws 2.3 mm x 4 mm (2 + 1*)

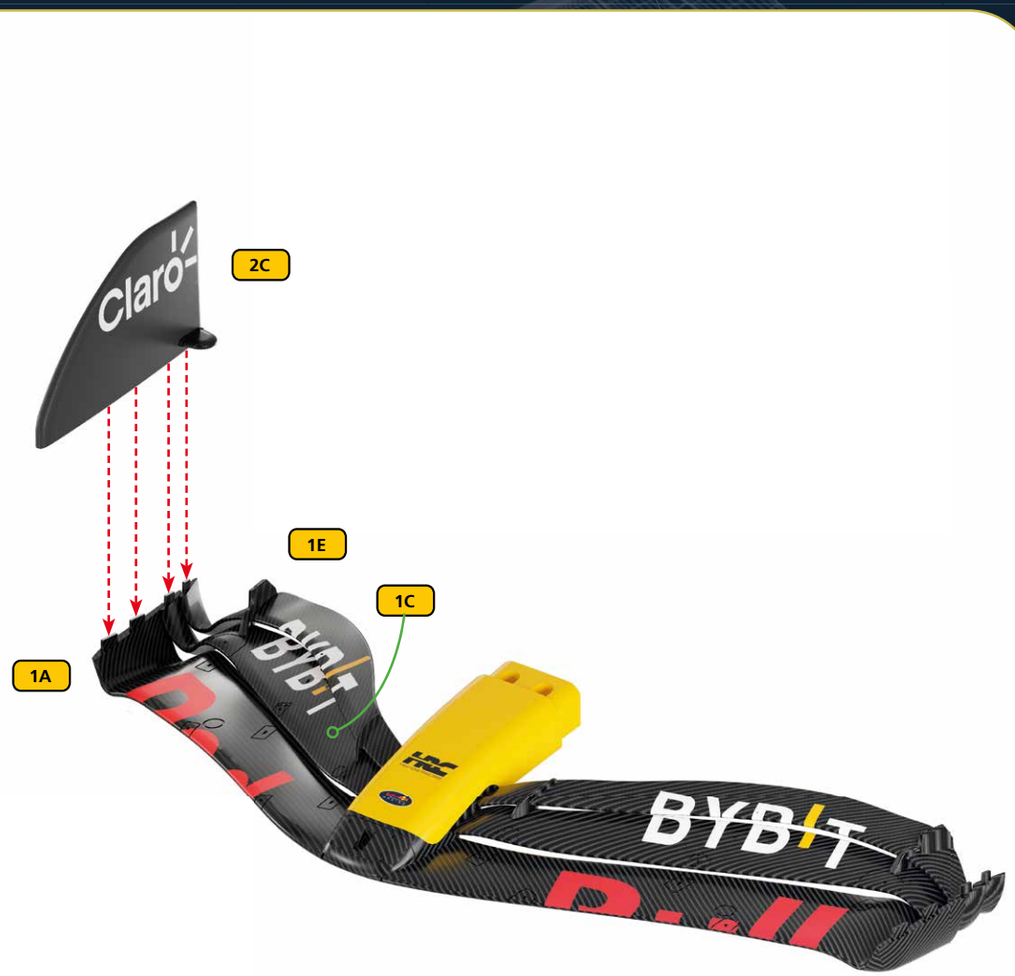
* Spare screw

Front wing (2)

BEFORE STARTING ASSEMBLY
Check that the parts are in perfect condition and read the instructions carefully to avoid any errors in the assembly process.

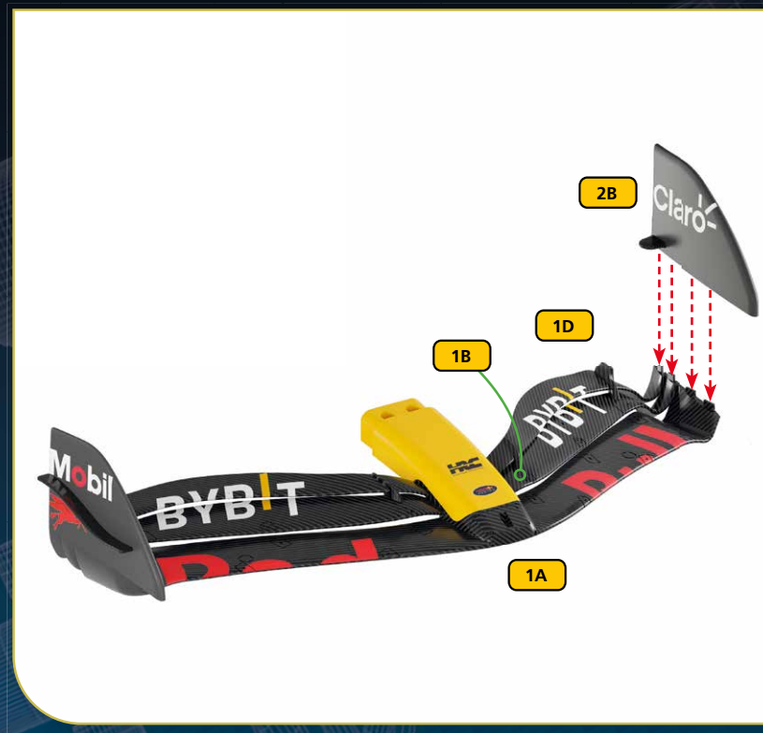
STEP 2-1

First, align the slots on the right endplate **2C** with the highlighted tabs on the upper part of the front wing **1A** and the right flaps **1C** and **1E**.



STEP 2-2

Then align the slots on the left endplate **2B** with the highlighted tabs on the upper part of the front wing **1A** and the left flaps **1B** and **1D**.





STEP 2-3

Turn the assembly over and connect the lower part of the front wing **2A** to the upper part of the wing **1A**, the left endplate **2B**, and the right endplate **2C**.

Front wing (2)



STEP 2-4

Finally, connect the lower nose **2D** to the upper part of the nose **1F** and secure both parts with two **A** screws.

Keep the halo **2E** aside for a later stage of assembly.

FINAL RESULT

This is what the parts that have been assembled at this stage of the assembly look like.

