



# Williams Grand Prix Engineering

(Redirected from [Williams Grand Prix](#))



**Williams Grand Prix Engineering Limited**, currently racing in [Formula One](#) as **Williams Racing**, is a British Formula One team and constructor. It was founded by Sir [Frank Williams](#) (1942–2021) and Sir [Patrick Head](#). The team was formed in [1977](#) after Frank Williams's earlier unsuccessful F1 operation: [Frank Williams Racing Cars](#) (which later became [Wolf–Williams Racing](#) in 1976). The team is based in [Grove, Oxfordshire](#), on a 60-acre (24 ha) site.<sup>[6]</sup>

The team's first race was the [1977 Spanish Grand Prix](#), where the new team ran a [March](#) chassis for [Patrick Nève](#). Williams started manufacturing its own cars the following year, and [Clay Regazzoni](#) won Williams's first race at the [1979 British Grand Prix](#). At the [1997 British Grand Prix](#), [Jacques Villeneuve](#) scored the team's 100th race victory, making Williams one of only five teams in Formula One, alongside [Ferrari](#), [McLaren](#), [Mercedes](#), and [Red Bull Racing](#) to win 100 races. Williams won nine [Constructors' Championships](#) between [1980](#) and [1997](#). This was a record until [Ferrari](#) won its tenth championship in [2000](#).

Notable drivers for Williams include: [Alan Jones](#), [Keke Rosberg](#), [Nigel Mansell](#), [Damon Hill](#), [David Coulthard](#), [Jenson Button](#), [Juan Pablo Montoya](#), [Alain Prost](#), [Nelson Piquet](#), [Ayrton Senna](#), [Riccardo Patrese](#), [Valtteri Bottas](#), [Carlos Reutemann](#), [Felipe Massa](#) and [Jacques Villeneuve](#). Of these drivers, Jones, Rosberg, Mansell, Hill, Piquet, Prost, and Villeneuve won the [Drivers' title](#) with the team. Of those who have won the championship with Williams, only Jones, Rosberg and Villeneuve defended their title while still with the team; as Piquet moved to [Lotus](#) after winning the [1987](#) championship; Mansell left F1 to compete in the

## Williams-Mercedes

<b>WILLIAMS RACING</b>	
Full name	Williams Racing
Base	<a href="#">Grove, Oxfordshire</a> , <a href="#">England</a> , <a href="#">UK</a>
Team principal(s)	<a href="#">James Vowles</a>
Chief Technical Officer	<a href="#">Pat Fry</a>
Founder(s)	<a href="#">Frank Williams</a> <div><a href="#">Patrick Head</a></div>
Website	<a href="http://www.williamsf1.com">www.williamsf1.com</a> ( <a href="https://www.williamsf1.com">https://www.williamsf1.com</a> )
<b>2024 Formula One World Championship</b>	
Race drivers	2. <a href="#">Logan Sargeant</a> <sup>[1]</sup> <div>23.  <a href="#">Alex Albon</a><sup>[2]</sup><div>43.  <a href="#">Franco Colapinto</a><sup>[3]</sup></div></div>
Test drivers	<a href="#">Franco Colapinto</a>
Chassis	<a href="#">FW46</a> <sup>[4]</sup>
Engine	<a href="#">Mercedes M15 E Performance</a>
Tyres	<a href="#">Pirelli</a>
<b>Formula One World Championship career</b>	
First entry	<i>As a team</i> <div><a href="#">1977 Spanish Grand Prix</a></div> <i>As a constructor</i> <div><a href="#">1978 Argentine Grand Prix</a></div>
Last entry	<a href="#">2024 Italian Grand Prix</a>
Races entered	<i>As a team</i> : 830 entries (826 starts) <div><i>As a constructor</i>: 819 entries (818 starts)</div>
Engines	<a href="#">Ford</a> , <a href="#">Honda</a> , <a href="#">Judd</a> , <a href="#">Renault</a> , <a href="#">Mecachrome</a> , <a href="#">Supertec</a> , <a href="#">BMW</a> , <a href="#">Cosworth</a> , <a href="#">Toyota</a> , <a href="#">Mercedes</a>
Constructors' Championships	9 ( <a href="#">1980</a> , <a href="#">1981</a> , <a href="#">1986</a> , <a href="#">1987</a> , <a href="#">1992</a> , <a href="#">1993</a> , <a href="#">1994</a> , <a href="#">1996</a> , <a href="#">1997</a> )

CART series after winning the 1992 championship, Prost retired after winning the 1993 championship, and Hill moved to Arrows after winning the 1996 championship. None of Williams's Drivers' Champions went on to win another championship after their success with Williams.

Williams have worked with many engine manufacturers, most successfully with Renault, winning five of their nine Constructors' titles with the company. Along with Ferrari, McLaren, Benetton and Renault, Williams is one of a group of five teams that won every Constructors' Championship between 1979 and 2008 and every Drivers' Championship from 1984 to 2008. Williams also has business interests beyond Formula One. They have established Williams Advanced Engineering and Williams Hybrid Power, who take technology originally developed for Formula One and adapt it for commercial applications. In April 2014, Williams Hybrid Power was sold to GKN. In May 2020, Williams announced they were seeking buyers for a portion of the team due to poor financial performance in 2019 and that they had terminated the contract of title sponsor ROKiT. On 21 August 2020, Williams was acquired by Dorilton Capital. Frank and Claire Williams stepped down from being Manager and Deputy Manager of the team on 6 September 2020, with the 2020 Italian Grand Prix being their last time in their respective positions.<sup>[7]</sup>

<b>Drivers'</b>	7 ( <u>1980</u> , <u>1982</u> , <u>1987</u> , <u>1992</u> ,
<b>Championships</b>	<u>1993</u> , <u>1996</u> , <u>1997</u> )
<b>Race victories</b>	114
<b>Podiums</b>	313
<b>Points</b>	3620 (3626) <sup>[5]</sup>
<b>Pole positions</b>	128
<b>Fastest laps</b>	133
<b><u>2023</u> position</b>	7th (28 pts)



Williams FW36

## Origins

Frank Williams founded Williams in 1977 after his previous team, Frank Williams Racing Cars, failed to achieve the success he desired. Despite the promise of a new owner, Canadian millionaire Walter Wolf, and the team's rebranding as Wolf-Williams Racing in 1976, the cars still were not competitive. Eventually, Williams left the rechristened Walter Wolf Racing and moved to Didcot to rebuild his team as Williams Grand Prix Engineering. Frank recruited Patrick Head to work for the team, creating the Williams-Head partnership.<sup>[8]</sup>

## Racing history – Formula One

### Ford-Cosworth engines (1977–1983)

#### 1977 season



Frank Williams, Founder of Williams Racing

Williams entered a March 761 for the 1977 season. Lone driver Patrick Nève competed in 11 races that year, starting with the Spanish Grand Prix. The new team failed to score a point, achieving a best finish of 7th at the Italian Grand Prix.<sup>[9]</sup>



The original Williams logo

## 1978 season



The 1978 Williams FW06 at Silverstone in 2007

For the 1978 season, Patrick Head designed the first Williams car: the FW06. Williams signed Alan Jones, who had won the Austrian Grand Prix the previous season for a devastated Shadow team following the death of their lead driver, Tom Pryce. Jones's first race for the team was the Argentine Grand Prix where he qualified in 14th position but retired after 36 laps due to a fuel system failure. The team scored its first championship points two races later at the South African Grand Prix when Jones finished in fourth. Williams earnt their first podium at the United States

Grand Prix, where Jones came second, 20 seconds behind the Ferrari of Carlos Reutemann.<sup>[10]</sup> Williams finished the season in ninth place in the Constructors' Championship, with a respectable 11 points, while Alan Jones finished 11th in the Drivers' Championship. Towards the end of 1978, Frank Williams recruited Frank Dernie to join Patrick Head in the design office.

## 1979 season

Head designed the FW07 chassis and gearbox for the 1979 season with Frank Dernie picking up the suspension, aerodynamic development and skirt design. This was the team's first ground effect car, a technology that was first introduced by Colin Chapman and Team Lotus. Williams also obtained membership of the Formula One Constructors' Association (FOCA) which expressed a preference for teams to run two cars, so Jones was joined at the team by Clay Regazzoni.<sup>[11]</sup> It was not until the seventh round of the championship, the Monaco Grand Prix, that they finished in the points. Regazzoni came close to taking the team's first win but finished second, less than a second behind race winner Jody Scheckter. The next race, the French Grand Prix, is remembered for the final lap battle between René Arnoux and Gilles Villeneuve, but also saw both cars finish in the points for the first time; as Jones was fourth with Regazzoni in sixth.<sup>[12]</sup> The team's first win came at the British Grand Prix (their home Grand Prix) when Regazzoni finished 25 seconds ahead of second place.

Greater success followed when Williams got a 1-2 finish at the next round in Germany, Jones in first with Regazzoni two seconds behind in second. Jones then made it three wins in a row at the Austrian Grand Prix, finishing half a minute ahead of Gilles Villeneuve's Ferrari. Three wins in a row became four two weeks later at the Dutch Grand Prix, with Alan Jones winning yet again by a comfortable margin over Jody Scheckter's Ferrari. Scheckter ended Williams's winning streak when he won the Italian Grand Prix; with Regazzoni finishing third behind Scheckter and Villeneuve. Alan Jones managed another win at the penultimate race in Canada to cap off a great season.

Williams had greatly improved their Constructors' Championship position, finishing eight places higher than the previous year and scoring 59 more points. Alan Jones was the closest driver to the Ferrari duo of Villeneuve and 1979 champion Jody Scheckter. Jones scored 43 points, 17 points behind Scheckter, while Regazzoni was two places behind him with 32 points.

### 1980 season

Before the start of the 1980 season, Regazzoni left the team. So, Carlos Reutemann joined the team. Williams started strong in the championship, with Jones winning the first race of the season in Argentina. Jones won four more races: the French Grand Prix, the British Grand Prix, the Canadian Grand Prix and, the last race of the season, the United States Grand Prix. Jones became the first of seven Williams drivers to win the Drivers' Championship, 17 points ahead of Nelson Piquet's Brabham. Williams also won its first Constructors' Championship, scoring 120 points, almost twice as many as second-placed Ligier.

### 1981 season

Williams won four races in 1981. Alan Jones won the first race of the season, the United States West Grand Prix, and the final race of the season, the Caesars Palace Grand Prix. Meanwhile, Carlos Reutemann won the Brazilian Grand Prix and the Belgian Grand Prix. Williams won the Constructors' title for the second year in a row, scoring 95 points, 34 points more than second-placed Brabham.

### 1982 season

This season, Alan Jones retired from Formula One (though he would come back a year later for a single race with the Arrows team). The Australian was replaced by Keke Rosberg, the father of 2016 World Champion Nico Rosberg. Rosberg had not scored a single point the previous year. He won the Drivers' title that year despite winning only one race, the Swiss Grand Prix. Rosberg's teammate, Reutemann, finished in 15th place having quit Formula One after just two races of the new season. His seat was filled by Mario Andretti for the United States Grand Prix West; before Derek Daly took over for the rest of the year. Williams finished fourth in the Constructors' Championship that year, 16 points behind first-place Ferrari.



Keke Rosberg's FW08 used during the 1982 season when Rosberg won the Drivers' Championship recording only a single win during the season

## Honda engines (1983–1987)

### 1983 season

Frank Williams looked towards Honda, who was developing a turbocharged V6 engine with Spirit. A deal between Honda and Williams was settled early in 1983 and the team used the engines for the 1984 season. For the 1983 season however, Williams continued to use the Ford engine except for the last race

of the year in South Africa; where Keke Rosberg finished in an impressive fifth place. The team finished fourth in the Constructors' Championship, scoring 36 points. Also, Rosberg won that year's Monaco Grand Prix.

### 1984 season

For the 1984 season, the team ran an FW09. Keke Rosberg won the Dallas Grand Prix and finished in second at the opening race in Brazil. Rosberg's new teammate, Jacques Laffite, came 14th in the Drivers' Championship with five points. The team finished sixth in the Constructors' with 25.5 points, with Rosberg finishing in eighth in the Drivers' Championship.

### 1985 season

In 1985, Head designed the FW10, the team's first chassis to employ the carbon-fibre composite technology pioneered by McLaren. Nigel Mansell replaced Laffite to partner with Rosberg. Dernie produced another competitive aerodynamic package. The team scored four wins with Rosberg winning the Detroit and Australian Grands Prix, and Mansell won the European Grand Prix and the South African Grand Prix. Williams finished in third in the Constructors' Championship, scoring 71 points.



Nigel Mansell's Williams FW10 chassis used during the 1985 season

During qualifying for the British Grand Prix, Rosberg completed a lap of the circuit in 1:05.591. The lap's average speed was 160.938 mph (259.005 km/h). This was the fastest recorded lap in Formula One history to that point.

From 1985 until 1993, Williams ran their famous yellow, blue and white Canon livery.

### 1986 season

In March 1986, Frank Williams faced the most serious challenge of his life. While returning to the airport at Nice, France, after pre-season testing, he was involved in a road accident that left him paralysed. He did not return to the pit lane for almost a year.<sup>[13]</sup> Despite the lack of his trackside presence, the Williams team won nine Grands Prix and the Constructors' Championship and came close to winning the Drivers' Championship with Nigel Mansell, but the British driver's left-rear tyre blew at the Australian Grand Prix, the final race of the season, while his fellow championship rival and new teammate, Nelson Piquet made a pitstop shortly after Mansell's retirement as a precaution. This left Alain Prost to defend his title successfully, despite being in a slower car.

### 1987 season

The 1987 season brought the Williams-Honda partnership its first and only Drivers' Championship title in the hands of Nelson Piquet. Piquet won three races and scored 73 points in the Drivers' Championship. His teammate Mansell came in second place with six victories and 61 points. Williams won the



Constructors' Championship for the second year in a row, scoring 137 points, 61 points ahead of their nearest rivals, McLaren. Despite this success, Honda ended their partnership with Williams at the end of the year in favour of McLaren.

## Judd engines (1988)

### 1988 season

Unable to make a deal with another major engine manufacturer, Williams used naturally aspirated Judd engines for the 1988 season.<sup>[14]</sup> This left them with a significant performance deficit compared with their turbo-powered rivals. Piquet left Williams to join Lotus who had retained their Honda engines for the 1988 season, helped by having Satoru Nakajima as number 2 driver to Piquet. Nelson Piquet called Frank Dernie every week to persuade him to join Lotus. Eventually Dernie moved to Lotus to become their new Technical Director. Williams brought in Riccardo Patrese to replace Piquet. The team did not win a race that season and finished seventh in the Constructors' Championship, scoring 20 points. The highlights of the season for the team were two second-place finishes by Mansell. When Mansell was forced to miss two races due to illness, he was replaced by Martin Brundle for Belgium and Jean-Louis Schlesser for Italy. Schlesser's collision with Ayrton Senna in that race would deny McLaren a clean sweep of race wins that season.

## Renault engines (1989–1997)

The team secured Renault as their engine supplier in 1989. Renault engines subsequently powered Williams's drivers to another four Drivers' and five Constructors' Championships up until Renault's departure from Formula One at the end of 1997. The team brought in Adrian Newey to replace Frank Dernie. The combination of Renault's powerful engine and Adrian Newey's designing expertise led to the team dominating the sport in the mid-1990s alongside McLaren. Mansell had a record-breaking 1992 season, winning the title in record time and leading numerous races from pole to finish.

### 1989 season

The Renault era started in 1989, with Riccardo Patrese and Thierry Boutsen at the helm of the two Williams cars. Boutsen replaced Mansell, who had signed a contract with Ferrari. The engine's first Grand Prix in Brazil was one that the team would prefer to forget: Boutsen retired with an engine failure and Patrese with an alternator failure. Williams managed to get back on track with Boutsen finishing in fourth at the next race in Italy; winning the team three points. Two races later at the Mexican Grand Prix, the team managed to achieve their first podium with the Renault engine, as Patrese finished second, 15 seconds behind Ayrton Senna in first. The next race saw Patrese finish second again, having started from 14th on the grid, with Boutsen finishing in 6th. At the sixth round in Canada, Williams not only scored their first win with the Renault engine but also their first one-two: with Boutsen finishing in first followed by Patrese in second. This won the team



Nelson Piquet's championship-winning FW11B from 1987 was the only Honda-powered Williams to win a Drivers' Championship.



Williams FW12C, the first powered by a Renault engine

15 points. Williams came second in the Constructors' Championship, scoring 77 points, 64 points behind McLaren. Patrese finished 3rd in the Drivers' Championship with 40 points, 41 points behind second-placed Alain Prost. Boutsen finished 5th in the championship with 37 points after also winning in Australia. Boutsen's win gave Williams the distinction of having won both the first and last Grand Prix of the 1980s.

### 1990 season

In the 1990 season, Williams kept Patrese and Boutsen as the team's drivers. The team scored 20 fewer points than the previous year and finished fourth in the Constructors' Championship two positions lower than in 1989. In the Drivers' Championship, Boutsen finished sixth with 34 points and Patrese in seventh with 23 points.

### 1991 season

Boutsen left Williams and joined Ligier at the start of the 1991 season. Replacing him was a returning Nigel Mansell, who had spent the previous two seasons driving for Ferrari. Williams also recruited future 1996 world champion, Damon Hill, as their reserve driver. Williams failed to finish the first Grand Prix of the season, the US Grand Prix, with both drivers retiring due to gearbox problems. Patrese got back on track for the team in the next Grand Prix at Interlagos, coming second behind McLaren's Ayrton Senna. The 1991 San Marino Grand Prix saw both cars retiring yet again: with Mansell crashing and Patrese suffering from an electrical failure. The Monaco Grand Prix saw Mansell finish in the points, coming in second. At the next race, the Canadian Grand Prix, Williams locked out the front row only for Patrese to drop back with gearbox problems and Mansell to retire from the lead on the final lap due to an electrical fault. At the following race in Mexico, Williams achieved a 1–2 finish, with Patrese finishing in first and Mansell finishing in second. Williams then ran a streak of victories, with Mansell winning the French Grand Prix, five seconds ahead of Alain Prost's Ferrari. Mansell then won again at the British Grand Prix; it had been four years since a Briton had won the Grand Prix, Mansell having won it in 1987. Three consecutive victories became four when Mansell won again in Germany, with Patrese about 10 seconds behind him in second place. Senna ended Williams's run of victories by winning in Hungary, finishing five seconds ahead of Mansell. Mansell later won the Italian Grand Prix and the Spanish Grand Prix, while Patrese won the Portuguese Grand Prix after Mansell's race was ruined by a botched pitstop in which only three wheel nuts were fitted. Williams finished second in the Constructors' Championship, scoring 125 points in total, 14 points behind McLaren. Mansell finished second in the Drivers' Championship with 72 points, 24 points behind Senna.



1991 British Grand Prix winner Nigel Mansell giving Ayrton Senna a lift back to the Silverstone paddock after Senna had run out of fuel

### 1992 season

Williams took a step up for the 1992 season, keeping their 1991 driver line-up of Patrese and Mansell. Mansell dominated the first round in South Africa, qualifying in pole position and winning the race by 24 seconds from his teammate, Patrese. Nigel Mansell won the next four rounds for Williams, at Mexico City, Interlagos, Catalunya and Imola, Patrese coming second in all but one (the Spanish Grand Prix at Catalunya, where he retired after spinning off). Mansell's five victories in the opening five races was a new record in Formula One. Senna won the next race in Monaco, ahead of both Williams cars, which

finished second and third. In the next race, in Canada, both Williams cars retired: Mansell spun off on entering the final corner (he claimed that Senna pushed him off) and Patrese had a gearbox failure. Mansell went on to record four more Grand Prix wins, including at the British Grand Prix. (In the final round, in Adelaide, the two Williams cars again retired, Mansell after Senna violently crashed into the back of him, and Patrese with electrical problems.) Williams won the Constructors' Championship with 164 points, 65 points more than second-place McLaren. Mansell became World Champion, scoring 108 points, with Patrese finishing second with 56 points. Placing first in nine races, Mansell had set a new record for the most wins by a single driver in one year. Despite this, there looked to be significant upheaval at Williams for 1993; what followed led to a domino effect that had not only effects on the World Championship, but also the CART-sanctioned PPG IndyCar Series.



Nigel Mansell's Williams FW14B used for the 1992 season when he won the Drivers' Championship and the team won the Constructors' Championship

### 1992 off-season

Williams was interested in signing Alain Prost to drive one of its two cars for 1993 as he was returning from his year long sabbatical after being sacked by Scuderia Ferrari during the 1991 World Championship. Patrese, perhaps figuring that he would be the driver being sacked in order for Prost to take one of the two available rides, decided to leave after driving for Williams since 1987. He would join up with Benetton, where he would replace Martin Brundle alongside Michael Schumacher in the team's Camel-backed Fords.

Mansell, meanwhile, was not pleased that Williams was looking to bring Prost aboard. Prost and Gerhard Berger had essentially swapped rides after the 1989 season with Prost becoming Mansell's teammate at Ferrari. The acrimonious relationship between the two that ensued nearly resulted in Mansell retiring from the sport altogether and he had not forgotten this; as such, Mansell began looking for other options to continue his racing career. He eventually decided to move over to CART, where he paired with Mario Andretti at Newman/Haas Racing.

That seat, meanwhile, had opened up because Andretti's son, Michael, was leaving CART to replace Berger at McLaren. McLaren also was potentially dealing with losing a driver, as Ayrton Senna's contract had expired following the 1992 season. In addition to this, McLaren's arrangement with Honda to provide engines had also expired, and the team had signed to run Ford engines for 1993. With McLaren having fallen behind Williams on the grid, combined with his uncertainty regarding the new engine supplier, Senna approached Williams and offered to take over the second car. His interest was such that he was willing to drive for Williams while collecting no salary.

However, like with Mansell, Prost had a rather testy relationship with Senna from when the two were teammates and rivals at McLaren in the 1980s. As such, he negotiated a two-year contract with Williams that gave him the power to approve or disapprove any driver Williams would seek to have him team with for 1993. Once the contract was signed, Prost used that power to freeze Senna out of driving for Williams; he would return to McLaren for one more season with the team running Ford engines.



Needing a replacement, Williams decided not to pursue any of the available drivers such as Berger and Brundle. Instead, they chose to promote former Brabham driver Damon Hill, who had been their test driver since Brabham collapsed and folded during the 1992 season, to join Prost in the other Renault.

### 1993 season

The Williams FW15C was an extremely dominant car, with active suspension and traction control systems beyond anything available to the other teams.<sup>[15]</sup> Prost won on his debut for the team in South Africa and, like Mansell, dominated the weekend, taking pole position and finishing a minute ahead of Senna, who was second. The next Grand Prix in Brazil saw Prost collide with Christian Fittipaldi's Minardi in the rain on lap 29, while Hill went on to his first podium finish: second, 16 seconds behind Senna. Prost won three of the next four Grands Prix for Williams, Senna winning the other race. Prost and Hill later scored a 1–2 in France: the only 1–2 of the season for Williams. Prost won the next two Grands Prix at Silverstone and Hockenheim. Hill proved competitive especially in the second half of the season. Mechanical problems cost Hill leads in Britain and Germany, but he went on to win the next three Grands Prix at Hungary, Belgium and Italy which moved him to second in the standings, as well as giving him a chance of taking the Drivers' title. After Italy, Williams would not win a Grand Prix for the rest of the season, as a young Michael Schumacher won the following race in Portugal, and Senna took Japan and Australia to overtake Hill in the points. Williams retained their Constructors' title, 84 points ahead of second-placed McLaren. Prost clinched the Drivers' Championship in Portugal and finished the season 26 points ahead of second-placed Senna.

Based on his victory in the 1992 World Championship, Mansell would have been issued car number 1 for the 1993 season, and his teammate issued number 2. However, Mansell's move to the IndyCar series meant that number 1 was not issued; instead, the team was issued the number 0, which was placed on Hill's car, while Prost was issued number 2.

1993 marked the final season that Williams ran with Canon as its primary backer.

### 1994 season

During the 1994 season, Williams used FW16 (developed during the pre-season) and FW16B (with shorter sidepods and optimised for the revised floor regulations which were introduced during the season).

After Canon left the team Williams signed a contract with tobacco company Rothmans International for 1994, and their namesake brand became its primary sponsor from 1994 to 1997.<sup>[16]</sup>

Despite Prost's continued unwillingness to have his former McLaren teammate run with him, pressure from various sources including the team's new sponsor led Williams to agree to terms with Ayrton Senna for 1994. The veto power in Prost's contract was only in effect for the 1993 season, and since Williams was now free to do as it desired and that Senna was again a free agent, the team decided it would bring in the multi-time former champion. To appease Prost, who decided to retire from racing permanently after Senna's signing, Williams agreed to pay him his full salary for the second half of the contract.



Williams FW16B used in the second half of the 1994 season when Rothmans debuted as the team's primary backer

Given this was the same team that had won the previous two World Championships with vastly superior cars, Senna was a natural and presumptive pre-season title favourite, with second-year driver Damon Hill intended to play the supporting role. Between them, Prost, Senna, and Hill had won every race in 1993 but one, which was taken by Benetton's Michael Schumacher.

As with 1993, Williams's cars were issued numbers 0 and 2, following Prost's victory in the 1993 championship and subsequent retirement. Hill retained the number 0, while Senna's car was issued number 2.

Pre-season testing showed the FW16 had speed but was difficult to drive. The Fédération Internationale de l'Automobile (FIA) had banned electronic driver's aids, such as active suspension, traction control and ABS, to make the sport more "human". It was these technological advancements that the Williams chassis of the previous years had been built around. With their removal in 1994, Williams had not been a good-handling car, as observed by other F1 drivers, having been seen to be very loose at the rear. Senna himself had made numerous comments that the Williams FW16 had quirks that needed to be ironed out. It was obvious that the FW16, after the regulation changes banning active suspension and traction control, exhibited none of the superiority of the FW15C and Williams FW14B cars that had preceded it. The surprise of testing was Benetton-Ford which was less powerful but more nimble than the Williams.

The first four rounds were won by Michael Schumacher in the Benetton-Ford. Senna took pole in the first two races but failed to finish either of them. In the third race, the 1994 San Marino Grand Prix in Imola, Senna again took pole position, but was involved in a fatal crash at the second corner after completing six laps.<sup>[17]</sup> The repercussions of Senna's fatal accident were severe for the team itself, as the Italian prosecutors tried to charge the team and Frank Williams with manslaughter, an episode which was not over until 2005.<sup>[18]</sup> At the next race in Monaco, Damon Hill was the only Williams on the grid, as a mark of respect to Senna,<sup>[19]</sup> and retired on the first lap. Since Senna's death, every Williams F1 car has carried a Senna 's' on its livery in his honour and to symbolise the team's ongoing support of the Instituto Ayrton Senna, but cars from 2022 onwards will not have the Senna S, with CEO Capito stating it was time to "move on".<sup>[20][21]</sup>

At the next race in Spain, Williams brought in test driver David Coulthard as Hill's new teammate. Hill took the team's first victory of the season, by almost half a minute over Schumacher's Benetton, while Coulthard would retire due to an electrical problem. In Montreal, both Williams cars finished in the points for the first time that season, with Hill finishing second and Coulthard finishing fifth. In France, Nigel Mansell replaced Coulthard (in the first of four appearances), at the behest of Renault. At Silverstone, Damon Hill accomplished what had eluded his father, twice Formula One World Champion Graham Hill, by winning the British Grand Prix. Hill closed the points gap with Schumacher, who was disqualified from first at Spa after the Stewards found floorboard irregularities on his Benetton. He was banned for the next two races, and Hill capitalised on this with wins in Italy and a Williams 1–2 in Portugal.

With three races left, 1992 champion Nigel Mansell returned from CART (where the season had concluded) to replace Coulthard for the remainder of the season. Mansell would get approximately £900,000 *per race*, while Hill was paid £300,000 for the entire season, though Hill remained as lead driver.<sup>[22][23]</sup>

Schumacher came back after his suspension for the European Grand Prix, which he won by about 25 seconds, to take a lead of 5 points into the penultimate round in Japan. The race in Japan was held in torrential rain, with Hill managing to win the restarted race, by three seconds on aggregate over

Schumacher who finished second. Going into the final round at Adelaide, Schumacher led Hill by a single point. Mansell took pole for Williams but had a poor start which let Hill and Schumacher through to fight for the lead and the 1994 title. Midway through the race, Schumacher's perceived need for a low downforce setup cost him, as he lost control and clipped the outside wall at the 5th corner (out of sight of Hill). As Schumacher recovered, Hill came around the corner and attempted to overtake into the next corner. Schumacher turned in and the resulting contact (Schumacher in the wall and Hill retiring with bent suspension), meant Schumacher was the champion. This collision has been controversial. Some, such as Williams's Patrick Head, have suggested that this was a deliberate attempt by Schumacher to take Hill out of the race.<sup>[24]</sup> Others, such as then BBC commentator Murray Walker, defended Schumacher, calling the accident a "racing incident". Meanwhile, Nigel Mansell won the last Grand Prix of his career here, driving the second Williams car.

Williams would end the season as Constructors' Champion for the third consecutive year, scoring 118 points, while Hill finished second in the Drivers' Championship with 91 points.

### 1995 season



Damon Hill in the FW17 at Montreal in 1995 when he qualified second but retired after 50 race laps due to a gearbox problem

In 1995, Nigel Mansell was not retained, Williams favouring Coulthard over him to partner Hill. Schumacher, whose Benetton team had switched engine suppliers from Ford to Renault in the off-season, won the first round in Brazil, with Coulthard taking second. However, both were disqualified from the race after it was found that Elf supplied their teams with a type of fuel for which samples had not been provided to the FIA. Thus, Gerhard Berger and Ferrari were declared winners. Schumacher and Coulthard had their positions reinstated after appeal, though Benetton and Williams were not awarded their Constructors' points. Hill won the next two races in Argentina and San Marino and would later win races at The Hungaroring and in Adelaide. Hill won two laps

ahead of the field at Adelaide in one of F1's most dominating victories. Coulthard recorded his only 1995 win for the Williams team at Estoril, before moving to McLaren.

Williams's champion streak was ended by Benetton, who elected to switch engine suppliers from Ford to Renault, the same as Williams. As such, Benetton outscored Williams by 29 points in the Constructors' Championship. Damon Hill placed second in the Drivers' Championship, 33 points behind Benetton's Michael Schumacher.

### 1996 season

For 1996, Williams had the quickest and most reliable car, the FW18.<sup>[25]</sup> Coulthard had left Williams to join Mika Häkkinen at McLaren, and Williams replaced him with Canadian Jacques Villeneuve, who had won the CART series title in 1995, while Hill remained with the team. Schumacher left Benetton to join Ferrari. Williams won the first five Grands Prix, Hill winning all but one of them. Olivier Panis would take victory at the sixth round in Monaco after both Williams cars retired. Hill would retire for the second time in a row after he spun-off in Spain, while his teammate, Villeneuve, took third place. Hill and Villeneuve dominated the next Grand Prix in Canada, with a 1–2 in qualifying and a 1–2 finish. Williams made it a second 1–2 after Hill won the French Grand Prix. Villeneuve won his second race in F1 at Silverstone after Hill retired with a wheel bearing failure on lap 26. Hill was victorious in the next Grand

Prix in Germany while Villeneuve won the race after that in Hungary. Schumacher's Ferrari would then take the next two Grands Prix at Spa-Francorchamps and Monza. Villeneuve mounted a title challenge going into the final race of the season at Japan, but Hill reasserted his dominance to take the race and the 1996 title, while Villeneuve lost a wheel and retired.



Jacques Villeneuve in the FW18 at the 1996 Canadian Grand Prix

Williams's dominance was such that they had clinched the Constructors' Championship and only their drivers had a mathematical chance of taking the title, several races before the season concluded. Around that time, Frank Williams announced that Hill would not be re-signed after his contract expired, despite Hill's successes and eventual Drivers' Championship, so he joined Arrows for 1997. Adrian Newey had ambitions as a technical director (rather than just chief designer), but this was not possible at Williams, as Patrick Head was a founder and shareholder of the team. McLaren lured Newey away, though he was forced to take garden leave for the majority of 1997.

## 1997 season

For what would be the final season of Williams-Renault and a car designed with Newey's input, Frank Williams brought in German Heinz-Harald Frentzen, who had created a good impression on Williams during his first few seasons in Formula One. Frentzen proved to be a disappointment though, and won only one race in two years with Williams, the 1997 San Marino Grand Prix. Jacques Villeneuve won seven races during 1997, compared to five wins by his main rival, Michael Schumacher of a resurgent Ferrari. Williams also achieved the 100-race-win milestone at the British Grand Prix. Coming to the final round of the season at Jerez, Schumacher led Villeneuve by 1 point; however, on lap 48, Schumacher and Villeneuve collided. Schumacher was disqualified from second place in the championship as the accident was deemed by the FIA as "avoidable". Williams won the Constructors' title for the second time in a row, scoring 123 points. Jacques Villeneuve won the Drivers' Championship by three points to Michael Schumacher, who kept his points total despite being removed from second place; thus, runner-up went to Frentzen with 42 points.<sup>[26]</sup>

## Mecachrome engines (1998)

### 1998 season

After 1997, the team was unable to maintain their dominance in Formula 1 as Renault ended their full-time involvement in Formula 1, and Adrian Newey moved to the rival team, McLaren. Williams then had to pay for Mecachrome engines, which were old, rebadged Renault F1 engines.<sup>[27]</sup> This meant that the FW20 not only featured a very similar aerodynamic package to their 1997 car but also virtually the same engine, leading some to comment that they ran what was virtually the same car, adjusted for the 1998 regulations. There were changes on the sponsorship front, as Rothmans opted to promote their Winfield brand, replacing the popular blue and white livery with a red one.<sup>[28]</sup> For



Jacques Villeneuve in the FW20 at the 1998 Italian Grand Prix



1998, Williams kept both drivers from the previous season, the first time since 1983 that a reigning world champion remained driving for the team. While Ferrari and McLaren battled for the Constructors' and Drivers' titles, Williams fell to the middle of the field. The team won no races and took only 3 podiums during the season, with Frentzen finishing in third at the first round in Australia and Villeneuve finishing third in Germany and Hungary. Williams finished third in the Constructors' Championship, scoring 38 points, while Villeneuve finished fifth in the Drivers' Championship with 21 points, and his German teammate, Frentzen, finished 4 points behind him in seventh.

## Supertec engines (1999)

### 1999 season



Alessandro Zanardi in the FW21 at the 1999 Canadian Grand Prix

In 1999, Williams employed the Supertec engine, which was a rebadged Mecachrome-Renault unit, and a new driver line-up. Villeneuve moved to the new British American Racing (BAR) team, while Frentzen moved to Jordan trading places with fellow German Ralf Schumacher who joined Williams. To replace Villeneuve, Williams signed Italian Alex Zanardi, who after an unsuccessful F1 career in the early 1990s had been racing in the CART series for Chip Ganassi Racing, winning two series championships and a total of fifteen races in his three years. As with Schumacher, a driver trade was made with Ganassi, where Zanardi would join Williams and the team's test driver at the time,

Juan Pablo Montoya, would join CART in Zanardi's car for 1999 and 2000.

The team managed three podiums, all scored by Ralf Schumacher, with third place in Australia and Britain and a second place in Italy. Zanardi, meanwhile, struggled through the entire season and failed to finish in the points at any race. Due in large part to this, the team finished fifth in the Constructors' Championship, the lowest finish for Williams in the 1990s; the team finished behind Stewart and Jordan, with Schumacher scoring all of the team's 35 points.

After the season, deciding the relationship was not working, Zanardi's contract with the team was terminated by mutual agreement. He would eventually return to CART in 2001.

## BMW engines (2000–2005)

In 1998, the team signed a long-term agreement with German manufacturer BMW to supply engines and expertise for a period of 6 years. As part of the deal, BMW expected at least one driver to be German, which led to the team's signing of Ralf Schumacher for the subsequent season. In 1999, the team had a Williams car with a BMW engine testing at circuits, in preparation for a debut in the 2000 season.



Team logo during partnership with BMW

There were major sponsorship changes for 2000–2005, as Rothmans International had been purchased in 1999 by British American Tobacco (BAT), which owned British American Racing and chose not to renew Rothmans's contract with Williams. BMW paid for Williams cars to be entirely in blue and white – unlike the standard motorsport livery scheme, dominated by the

colours of the team or major sponsors with the logos of minor sponsors in their own colour schemes. Williams's second major sponsor became Compaq, and following Compaq's acquisition the team debuted Hewlett-Packard (HP) sponsorship at the 2002 British Grand Prix. In a cross-promotion of this technological partnership, a worldwide television commercial featured drivers Ralf Schumacher and Juan Pablo Montoya seemingly driving their BMW Williams cars around a track by radio control from a grandstand.<sup>[29]</sup>

The new "clean" image allowed Williams to sign a cigarette anti-craving brand, Niquitin,<sup>[30]</sup> and Anheuser-Busch, alternating with the Budweiser beer brand<sup>[31]</sup> and SeaWorld Adventure Parks,<sup>[32]</sup> in compliance with trademark disputes or alcohol bans.

## 2000 season

To replace Zanardi, Britain's Jenson Button made his series debut. The first season of Williams's partnership with BMW did not yield a single victory, but they managed to get on the podium three times, with Ralf Schumacher responsible for all three. Williams finished third in the Constructors' Championship, with 36 points, one more than the prior year. Ralf Schumacher finished fifth in the Drivers' Championship, while Button, in his debut season, finished in eighth. Button made scrappy mistakes in early races (Monaco, Europe), but overall made an impressive debut in Melbourne, and continued to impress, notably at Silverstone, Spa, and Suzuka.

## 2001 season



Williams returned to the winner's rostrum in 2001 with four Grands Prix victories including one for Ralf Schumacher in Montreal.

In 2001, the arrangement between Williams and Ganassi came to an end, and thus Williams was able to bring Juan Pablo Montoya back to drive full-time for the team. He was returning after two successful years in CART, where he succeeded Zanardi as champion for 1999 and won ten races total; he also had become the first CART driver since the infamous 1996 split of American open-wheel racing to win the Indianapolis 500, doing so in 2000.

Since Montoya was returning to Williams, this left Jenson Button as the odd man out. He would move over to Benetton, which was still running rebadged Renault engines, for what was the team's final season under that name.

The FW23 won four races, three by Ralf Schumacher at Imola, Montreal, and his home Grand Prix in Germany. His teammate, Montoya, was victorious at Monza, and would have won a few more races if not for the FW23's unreliability and pit crew blunders. The car proved to be quicker than the Ferrari and McLaren counterparts in several races, but Williams's 2001 campaign only yielded third place in the Constructors' Championship.

## 2002 season

Williams maintained their driver line-up for the 2002 season. The team only won one race, which was at Malaysia, one of only 2 races not won by Ferrari in a year dominated by the Ferraris of Michael Schumacher and Rubens Barrichello.<sup>[33]</sup> Despite Montoya qualifying on pole for 7 races, he ended up

having a winless season. Williams did improve on their Constructors' Championship position, finishing in second. Montoya finished third in the Drivers' Championship, eight points ahead of Ralf Schumacher, who finished fourth.

In qualifying for the Italian Grand Prix at the 5.793 km (3.600 mi) Monza circuit, Montoya lapped his Williams FW24 in 1:20.264 for an average speed of 161.449 mph (259.827 km/h), breaking the speed record of 160.938 mph (259.005 km/h) set by Keke Rosberg in a Honda turbo-powered Williams FW10 at Silverstone for the 1985 British Grand Prix.

## 2003 season

2003 would see Williams come closest to winning its first title since 1997. During pre-season, Frank Williams was very confident that the FW25 would challenge for the title.<sup>[34]</sup> The team won four races, with Montoya winning at Monaco and Germany, while Ralf Schumacher won at the Nürburgring and the following race at Magny-Cours. Montoya stayed in contention for the Drivers' Championship during the season, and finished third, 11 points behind Michael Schumacher, while Ralf Schumacher finished fifth, 24 points behind Montoya. Williams finished second in the Constructors' Championship, two points ahead of McLaren.



Schumacher in the FW25 at the 2003 United States Grand Prix where he qualified fifth before retiring after 21 race laps

## 2004 season



Juan Pablo Montoya in the "Walrus-Nose" designed Williams FW26 during the 2004 United States Grand Prix when he qualified fifth for the race but was disqualified for illegally using the spare car

At the start of the 2004 season, it was announced that Montoya would be moving to McLaren in 2005. The team began the season with a radical nose-cone design, known as the "Walrus-Nose", that proved uncompetitive and was replaced by a more conventional assembly in Hungary. Ferrari dominated for a third consecutive season, winning 15 of the 18 races. Williams picked up a win at the final race in Brazil, with Juan Pablo Montoya finishing one second ahead of Kimi Räikkönen's McLaren; this remained Williams's last F1 win until the 2012 Spanish Grand Prix. Another low part of the season was when both Williams and Toyota were disqualified from the Canadian Grand Prix after it was discovered that both cars had brake irregularities, the brake ducts seemingly not conforming to regulations. Williams finished the season in fourth, scoring 88 points and finishing on the podium six times,

while Montoya was the highest-placed Williams driver that year, scoring 58 points to finish in fifth position.

## 2005 season

For the 2005 season, Schumacher moved to Toyota, while Montoya moved to McLaren. Taking their places were Australian Mark Webber and German Nick Heidfeld.<sup>[35][36]</sup> Jenson Button was to have driven for Williams in 2005,<sup>[37]</sup> but an FIA ruling forced Button to remain with his current team, BAR.<sup>[38]</sup> Antônio Pizzonia served as the test driver for the team during the 2005 season. Meanwhile, Button signed a contract to drive for Williams in 2006.

Although there was some positive moments, such as a double podium finish in Monaco and Heidfeld qualifying on pole position at the Nürburgring, Williams slipped further back down the field in 2005, due in part to the return to form of rivals McLaren and the emergence of Toyota as a front-running team. Williams failed to win a race for the first time since 2000, and only registered four podium finishes over the course of the season, finishing fifth in the constructors' championship with 66 points. Heidfeld was replaced by Pizzonia for the last five races of the season after the former suffered firstly a testing accident, and then was hit by a motorbike when out cycling prior to the race in Brazil. Pizzonia could only contribute two points towards the team's tally.



Nick Heidfeld in the FW27 during practice for the 2005 United States GP

During the course of the 2004 and 2005 F1 seasons, BMW Motorsport and director Mario Theissen increasingly became publicly critical of the Williams F1 team's inability to create a package capable of winning the Constructors' Championship, or even multiple victories within a single season.<sup>[39]</sup> Williams, on the other hand, blamed BMW for not producing a good enough engine.<sup>[40]</sup> Williams's failed attempt to prise Jenson Button out of his BAR contract may also have been an issue with Theissen. Despite Frank Williams's rare decision to capitulate to commercial demands by employing German driver Nick Heidfeld when he allegedly preferred Antônio Pizzonia, the fallout between Williams and BMW continued through the 2005 Formula One season. Despite BMW's contract with Williams to supply engines until 2009, this public deterioration of the relationship between Williams and BMW was a factor in the decision by BMW Motorsport to buy Sauber and rebrand that team to feature the BMW name.<sup>[41]</sup>

## Cosworth engines (2006)

### 2006 season

Williams opted for Cosworth V8 engines for the 2006 which saw Nico Rosberg replace German Nick Heidfeld, who departed for BMW Sauber, while Mark Webber stayed on with the team. Despite having signed a contract to race for Williams, Jenson Button decided to stay with BAR for 2006 as it was to become a Honda works team. In September 2005 a deal was reached to allow Button to remain with BAR, with Williams receiving around £24m, some of it paid by Button himself, to cancel this contract.<sup>[42]</sup>

Williams and Cosworth entered a partnership agreement where Cosworth would supply engines, transmissions and associated electronics and software for the team.<sup>[43]</sup> Major sponsors Hewlett-Packard concluded sponsorship agreements one year before their official end of contract. The Williams team also switched to Bridgestone tyres.

The season started well, with both drivers scoring points in the opening race of the season, and Nico Rosberg setting the fastest lap at the Bahrain Grand Prix. The rest of the season was disappointing for Williams, with 20 retirements out of 36 starts for the two cars. The team failed to finish on the podium all



Nico Rosberg in the FW28-Cosworth at the 2006 Canadian Grand Prix



season, the first time this had happened since Williams's debut season in 1977. The team eventually finished eighth in the Constructors' Championship, with only 11 points.

## Toyota engines (2007–2009)

### 2007–2009 seasons

Following Williams's worst points tally since 1978, the team announced that Japanese manufacturer Toyota would be supplying the leased customer engines for the 2007 season.<sup>[44]</sup> In addition, the Toyota engine customer deal also included Magneti Marelli Step 11 engine control unit (ECU) systems as it was used by works Toyota team. A number of other changes were announced for 2007: Alexander Wurz, who had been a test driver at Williams since 2006, became the team's second driver to replace the outgoing Mark Webber; Japanese driver Kazuki Nakajima, son of Satoru, replaced Wurz as a test driver alongside Karthikeyan. Sponsorship saw a change in 2007, as it was announced that AT&T would become the title sponsors for the team from the upcoming season.<sup>[45]</sup> AT&T was previously involved as minor sponsors with the Jaguar and McLaren teams but moved to Williams following McLaren's announcement of a title sponsorship deal with Vodafone, a competitor of AT&T.<sup>[46]</sup> On 2 February, the new FW29 was presented to the media in the UK. Soon afterwards, the team secured a sponsorship deal with Lenovo who built the team's new supercomputer.

Rosberg and Wurz gave Williams a more productive season in terms of points and, in Montreal, Wurz scored the team's first podium finish since Nick Heidfeld's second-place at the 2005 European Grand Prix. Over the course of the year, Rosberg was consistently in the points, scoring 20 during the season; in comparison, teammate Wurz finished in the points three times. Following the announcement that Wurz would be retiring from the sport,<sup>[47]</sup> Williams brought in their young test driver Nakajima to drive the second car for them in the final race in Brazil. The Japanese driver finished in tenth despite starting from near the back of the grid, while Rosberg enjoyed his best race of the season, finishing in fourth. Williams finished fourth in the Constructors' Championship that year.

For the 2008 season, Williams confirmed Nico Rosberg and Kazuki Nakajima as their race drivers. Rosberg was confirmed as staying with Williams until the end of 2009 on 9 December 2007, ending speculation that he could take Fernando Alonso's vacated seat at McLaren.<sup>[48]</sup> During the Winter testing sessions, the team ran six different liveries to celebrate their 30th year in the sport and their 500th Grand Prix.<sup>[49]</sup>



Alexander Wurz at the 2007 Malaysian Grand Prix



Kazuki Nakajima at the 2008 Canadian Grand Prix



Nico Rosberg at the 2009 Turkish Grand Prix

The 2008 season was a mixture of success and disappointment for Williams. While Rosberg managed to obtain 2 podiums in Australia and Singapore, the team struggled at circuits with high-speed corners. The fact that the team was one of the first to switch development to their 2009 car (when new regulations came in) also hindered their season and Williams finished a disappointing 8th in the Constructors' Championship. Rosberg stated that unless the team was more competitive in the near future, he would look to drive elsewhere. Williams retained Rosberg and Nakajima for the 2009 season.

Frank Williams had admitted that he had regretted parting with BMW but stated that Toyota had a tremendous ability to become a top engine supplier. Speculation had been surrounding Toyota's future on the Formula 1 grid. This was due to the fact that for a big-budget team, Toyota had only managed second place as their best result. In December 2008, Williams confirmed their commitment to F1 following the Honda withdrawal announcement.<sup>[50]</sup>

Ahead of the 2009 Brazilian Grand Prix, Williams announced that it would be ending its three-year partnership with Toyota and finding a new engine supplier for 2010.

## Return to Cosworth engines (2010–2011)

### 2010–2011 seasons

After the termination of their Toyota contract, Williams announced that from the 2010 season they were to enter into a "long-term partnership" with Cosworth, and would be using an updated version of the CA V8 engine which powered their cars in 2006.<sup>[51]</sup> Williams also announced a complete driver change for the 2010 season. Rubens Barrichello joined from 2009 Constructors' Champion Brawn GP, whilst GP2 champion Nico Hülkenberg graduated from the test driver seat. Replacing Hülkenberg in the test seat was Finland's Valtteri Bottas, who finished third in the 2009 Formula Three Euroseries as well as winning the non-championship Masters of Formula 3 event at Zandvoort.<sup>[52]</sup>



Nico Hülkenberg at the 2010 Malaysian Grand Prix

Their new 2010 car, the Williams FW32, was unveiled for the first time at a shakedown test at Silverstone.<sup>[53]</sup> Its first official test was on 1 February at Circuit Ricardo Tormo in Valencia. Hülkenberg took the team's first pole position in over five years, in variable conditions at the Brazilian Grand Prix.<sup>[54]</sup> Hülkenberg was dropped from the team ahead of the 2011 season, and replaced by Venezuelan newcomer and reigning GP2 Series champion Pastor Maldonado.<sup>[55]</sup> The combination of Barrichello and Maldonado meant that 2011 would be the first time since 1981 that Williams would start a season without a European driver in their line-up.

At the second pre-season test in Jerez, Barrichello posted the fastest time of the week on the last day. That was to no avail as Williams endured one of their worst seasons to date: two ninth places for Barrichello and one tenth place for Maldonado were their best results during the entire year. After Brazil, the team ended with a ninth place in the Constructors' Championship.

## Return to Renault engines (2012–2013)

### 2012–2013 seasons



Valtteri Bottas, the team's 2012 reserve driver, participated in 15 free practice sessions including at the Malaysian Grand Prix then was promoted to a race seat for the 2013 season.

On 4 July 2011, Williams announced they would be reuniting with engine-supplier Renault who were to supply the team's engines from 2012 onwards.<sup>[56]</sup> On 1 December 2011, it was confirmed that Maldonado would be retained for the 2012 season, along with reserve driver Valtteri Bottas, who took part in 15 Friday practice sessions.<sup>[57]</sup> In January 2012, it was confirmed that Bruno Senna would be the driver to partner Maldonado, effectively ending Rubens Barrichello's F1 career.

Prior to the 2012 season, Patrick Head moved from the Williams F1 team to Williams Hybrid Power Limited, another subsidiary of Williams Grand Prix Holdings.<sup>[58]</sup>

The team also announced that its relationship with AT&T ended by mutual agreement, and there were negotiations with another telecommunications company for team's title sponsorship.<sup>[59]</sup> At the 2012 Spanish Grand Prix, Pastor Maldonado took his only Grand Prix victory, which was also Williams's first race victory since 2004 Brazilian Grand Prix. Around 90 minutes after celebrating this win, a fire broke out in the garage of the Williams team, damaging the FW34 of Bruno Senna and leaving several injured.<sup>[60]</sup> The team eventually achieved eighth position in the Formula One World Constructors' Championship.<sup>[61]</sup>



Valtteri Bottas at the 2013 Malaysian Grand Prix

Claire Williams, the daughter of team principal Frank Williams, was appointed deputy principal in March 2013.<sup>[62]</sup> Maldonado was retained by the team for 2013 and was joined by Bottas, promoted from his role as test driver.<sup>[63]</sup> The team struggled throughout the season, despite a good qualifying session at the Canadian Grand Prix and a place in the top 10 at the United States Grand Prix, scoring only five points in the World Constructors' Championship.<sup>[64]</sup>

While Williams enjoyed a victory in the 2012 season and occasional points finishes, they did not reach the same heights as was achieved during their domination of Formula One during the 1990s. This, combined with an absolutely dismal 2013 season, prompted Williams to look for a new engine supplier from the 2014 season onwards.

## Mercedes power units (2014–present)

### 2014–2017 seasons

In May 2013, Williams signed a long-term contract with Mercedes to supply engines for the team, the German manufacturer providing 1.6-litre V6 turbo engines from the start of the 2014 season.<sup>[65]</sup> Bottas was retained as driver for 2014, and Felipe Massa was signed from Ferrari to replace Maldonado. The team



The Williams Martini Racing logo (2014-2018)



Valtteri Bottas at the 2015 Canadian Grand Prix

also unveiled a new, multi-year title sponsorship deal with drinks brand Martini. As part of the deal, the team became Williams Martini Racing, except in Bahrain, Russia and Abu Dhabi, where the team is known as Williams Racing because of alcohol advertising restrictions.



Felipe Massa at the 2014 Chinese Grand Prix



Lance Stroll at the 2017 Malaysian Grand Prix

The team won its first pole position since 2012, courtesy of Massa at the Austrian Grand Prix; it was the only time that Mercedes would be beaten to pole position over the course of the 2014 season. With Bottas qualifying alongside Massa, it was also the first time the team had locked out the front row since the 2003 German Grand Prix.<sup>[66]</sup> The team enjoyed an upturn in performance, including a double podium in Abu Dhabi, resulting in them taking third place in the Constructors' Championship.

They repeated this feat in the 2015 season, despite a low-key season owing to the resurgence of Ferrari.

The team went into the 2016 season with Bottas and Massa retained. Former Ferrari Driver Academy member Lance Stroll joined the team as a development driver; Alex Lynn became a reserve driver with Paul di Resta who was announced on 13 March,<sup>[67]</sup> following Susie Wolff's retirement from motorsport.<sup>[68]</sup>



Valtteri Bottas at the 2016 Malaysian Grand Prix

In September 2016, Massa announced his intentions to retire from Formula One, with Stroll later announced as his replacement for 2017.<sup>[69]</sup> Following Nico Rosberg's decision to retire, the team released Bottas from his contract to allow him to take his place at Mercedes, with Massa returning to the team on a one-year deal.<sup>[70]</sup>

Massa was forced to withdraw from the 2017 Hungarian Grand Prix due to illness; the team then announced that Paul di Resta would be racing alongside Stroll instead.<sup>[71]</sup>

## 2018–2019: Continued decline

On 4 November 2017, Felipe Massa announced his decision to retire from F1.<sup>[72]</sup> Renault reserve driver and 2016 GP2 Series 3rd-place finisher Sergey Sirotkin was signed as his replacement for 2018,<sup>[73]</sup> with Robert Kubica joining the team as a reserve and development driver.<sup>[74]</sup>



Williams struggled over the course of the 2018 season, scoring only 7 points and finishing last in the Constructors' Championship standings. Although the [FW41](#) rarely suffered from reliability issues, it was significantly off the pace; the team's highest finish was Stroll's 8th-place finish in [Azerbaijan](#). The team's only other points finish was at the [Italian Grand Prix](#), with Stroll finishing 9th and Sirotkin scoring his first championship point in 10th. This was also the only Grand Prix of the season in which the team reached the third qualifying session, with Stroll starting 10th on the grid.



[Sergey Sirotkin](#) driving the [Williams FW41](#) at the [2018 Chinese Grand Prix](#)



[George Russell](#) at the [2019 Austrian Grand Prix](#)

On 27 February 2018

[Martini](#) announced that they would leave Williams and Formula One at the end of the 2018 season.<sup>[75]</sup>

On 12 October 2018, the team announced that reigning [Formula 2](#) champion [George Russell](#) would be joining the team for the [2019](#) season. On 22 November 2018 it was announced that reserve driver [Robert Kubica](#) would be promoted to the other seat, marking his return to Formula One after eight years away from the sport due to injury.<sup>[76][77]</sup> For the 2019 season, the team entered

into a partnership with Polish petroleum company [PKN Orlen](#) and a multi-year title sponsorship arrangement with telecommunications company [ROKiT](#).<sup>[78][79]</sup>

Williams missed the first two-and-a-half days of pre-season testing in [Barcelona](#) due to the [FW42](#) not yet being ready, the only team to suffer such a setback.<sup>[80]</sup> Williams began the season out of reach from being competitive. During qualifying at the season-opener in [Australia](#), their fastest time was almost 1.3 seconds slower than the nearest competitor. In the race, Russell and Kubica finished two and three laps behind the leader respectively. The team's best result of the season came in [Germany](#), where Kubica was classified 10th, the team's only points finish that season. However, this result only came after post-race penalties for other drivers. Upgrades came during the season with which the FW42 began to catch up to its competitors; Russell came within 0.1 seconds of reaching Q2 in qualifying for the [Hungarian Grand Prix](#) and finished close to the points with 12th in [Brazil](#). However, both cars would be eliminated in Q1 at every race of the season. Despite the team's lack of performance in comparison to 2014–2017, it was confirmed that Williams have extended their engine supplier partnership with Mercedes until 2025.<sup>[81]</sup>

On 19 September 2019, Williams announced that Kubica had decided to leave the team at the end of the 2019 season; he would go on to join [Alfa Romeo](#) as a reserve driver.<sup>[82]</sup> [2019 Formula 2 Championship](#) runner-up [Nicholas Latifi](#) was promoted from his role of reserve driver to replace Kubica for the [2020](#) season.<sup>[83]</sup> [Jack Aitken](#) replaced Latifi as reserve driver.<sup>[84]</sup> In May 2020, following publication of significant losses in 2019, Williams announced the immediate termination of its title sponsorship deal with [ROKiT](#).<sup>[85]</sup>

## **2020–present: Buyout and new management**

In the opening race of 2020, the [2020 Austrian Grand Prix](#), Latifi reached 11th place, just outside the points, whereas in qualifying Russell was only 0.15 seconds away from reaching Q2 (Russell retired in the race with a fuel pressure issue). In the wet qualifying for the next race, the [Styrian Grand Prix](#), Russell



George Russell driving the Williams FW43 at the 2020 Tuscan Grand Prix

US investment group Dorilton Capital for €152 million.<sup>[88]</sup> The amount includes settling the debt of the company and it will continue to run under the Williams name and keep its UK base.<sup>[89][90]</sup>

Despite being offered the chance to stay on as Team Principal, Claire Williams announced her departure from the team effective after the weekend of the 2020 Italian Grand Prix. Following this announcement, it will be the first time Williams F1 Team has not been under the leadership of the Williams family since its inception 43 years prior. Simon Roberts, who joined Williams from McLaren in May 2020, became the acting team principal of the team.<sup>[91]</sup> In December 2020, Williams announced Jost Capito will be joining Williams as the new CEO, with Roberts becoming team principal and reporting to Capito.<sup>[92]</sup>



The Williams FW44 at 'The Silverstone Classic'. This car was driven in the 2022 season by Alexander Albon, Nicholas Latifi and Nyck de Vries.

qualifying position. The team also achieved a second consecutive double points finish, as Latifi finished 9th. Russell scored back-to-back points at the 2021 Italian Grand Prix and at the 2021 Russian Grand Prix (9th and 10th respectively; in the latter he qualified 3rd, behind Carlos Sainz Jr. and pole-sitter Lando Norris). Williams finished in 8th place in the Constructors' Championship with 23 points, 10 points ahead of Alfa Romeo, which finished in 9th place.

succeeded in making it out of Q1, the first time a Williams driver had done so since the 2018 Brazilian Grand Prix,<sup>[86]</sup> and, in the slippery conditions, qualified in 12th. Russell started the race in 11th, following the application of penalties for other drivers.<sup>[87]</sup>

At the 2020 Hungarian Grand Prix, both drivers made it out of Q1 for the first time since the 2018 Italian Grand Prix. It was Russell's second time getting out of Q1, and Latifi's first time getting out of Q1.

On 21 August 2020,

Williams was acquired by



Nicholas Latifi driving Williams FW43B at the 2021 Austrian Grand Prix

During the 2021 Monaco Grand Prix, Williams celebrated their 750th Grand Prix start. To celebrate the occasion, Williams launched a competition where the names of 100 Williams supporters were featured on their car, the Williams FW43B, together with the number of races since they started supporting Williams.<sup>[93]</sup> In June 2021, Roberts left the team. Most of his responsibilities were taken over by Capito, with François-Xavier Demaison taking his trackside leadership duties.<sup>[94]</sup> The 2021 Hungarian Grand Prix saw Williams score their first points since the 2019 German Grand Prix with Robert Kubica, and their first double points finish since the 2018 Italian Grand Prix. At the 2021 Belgian Grand Prix, Russell qualified in 2nd place and scored Williams's first podium since the 2017 Azerbaijan Grand Prix, as the race was stopped after only two laps under safety car conditions were completed, allowing most drivers to retain their

For the 2022 season, Russell left Williams to join the Mercedes works team, whose junior team he had been a part of.<sup>[95][96]</sup> Ex-Red Bull driver, Alex Albon, was signed to replace Russell.<sup>[97]</sup> Latifi retained his spot in the team.<sup>[98]</sup> Prior to the season, Williams announced a partnership deal with the battery manufacturer Duracell.<sup>[99]</sup> Albon scored the team's first points of the season in the Australian Grand Prix, where he pitted only once on the last lap and finished tenth.<sup>[100]</sup> Albon also finished ninth in the Miami Grand Prix.<sup>[101]</sup> Latifi achieved his first ever Q3 appearance at the British Grand Prix,<sup>[102]</sup> though he dropped out of the points and finished in twelfth.<sup>[103]</sup> Following a number of penalties for other drivers at the Belgian Grand Prix, Albon qualified ninth and started sixth.<sup>[104]</sup> Albon went on to score Williams's third point position finish by ending the race in tenth.<sup>[105]</sup> Prior to the third practice session at the Italian Grand Prix, Albon withdrew after feeling ill and suffering from appendicitis. Williams announced Nyck de Vries as the replacement.<sup>[106]</sup> In his first ever qualifying session, de Vries qualified thirteenth, but started eighth after penalties.<sup>[107]</sup> de Vries went on to finish ninth,<sup>[108]</sup> scoring points on his debut.<sup>[109]</sup>

Preceding the start of the 2023 race year, Mercedes ex-chief strategist James Vowles was announced to take over as the Team's new Principal, following the resignation of former Team Principal Jost Capito in 2022.<sup>[110]</sup>

For the 2023 season, Williams announced a long-term partnership with Gulf Oil.<sup>[111]</sup> Albon's contract had been extended,<sup>[112][113]</sup> partnering rookie Logan Sargeant; Sargeant, who replaces the departing Nicholas Latifi, is the first American driver to race in Formula One since Alexander Rossi drove for the former Marussia F1 team for five races in 2015.

The season-opener of the Bahrain Grand Prix saw Albon score one point in tenth ahead of Sargeant, who finished twelfth. Albon retired at the following race at the Saudi Arabian Grand Prix due to a brake failure with Sargeant placing sixteenth after he failed to set a time within the 107% rule in qualification due to mechanical issues. In the Australian Grand Prix, Albon retired again after losing control of his car and crashing heavily early into the race, causing a red flag. Sargeant, meanwhile, crashed with AlphaTauri driver Nyck de Vries during lap 56 of 58 after a restart. However, Sargeant was classified as having finished 16th, given that he had completed more than 90% of the race distance. Albon and Sargeant were retained for the 2024 season. The latter will be replaced by Carlos Sainz Jr. in the 2025 season.<sup>[114]</sup> However, Sargeant was released after the 2024 Dutch Grand Prix due to his underperformances and his crash in the third practice section. His replacement, from the 2024 Italian Grand Prix to the end of the season, was current Formula 2 driver and Williams Driver Academy member Franco Colapinto, who would become the first Argentine driver to compete in F1 since Gastón Mazzacane in 2001.<sup>[115]</sup>



Williams Racing's Alex Albon and Logan Sargeant at the 2024 season launch at the Puma Flagship Store in New York City

## Williams Group

---

Williams Grand Prix Holdings is the public company of Williams Group, which includes the Formula One Team and others like Williams Heritage, Williams Grand Prix Technologies (WGPT), and collaborations with other brands. It was also the former parent company of Williams Hybrid Power &

Williams Advanced Engineering. Both of these businesses took technology developed for F1 and adapted it for multiple commercial applications. Williams Hybrid Power was sold to GKN in March 2014 and Williams Advanced Engineering was sold to Fortescue in February 2022.<sup>[116]</sup>

Williams Grand Prix Holdings is currently owned by Dorilton Capital who purchased the team on 21 August 2020. With the acquisition, Claire Williams was offered the chance to stay on as a team principal but that offer was declined. The 2020 Italian Grand Prix in Monza was the last race where the Williams family led the team.<sup>[117]</sup>

The sale happened after years of financial difficulties. Reuters reported on 20 November 2009 that founders Sir Frank Williams and Patrick Head had sold a minority stake in the team to an investment company led by Toto Wolff.<sup>[118][119]</sup> In February 2011, Williams F1 announced plans to raise capital through an initial public offering (IPO) on the Frankfurt Stock Exchange (FWB) in March 2011, with Sir Frank Williams remaining the majority shareholder and team principal after the IPO.<sup>[120]</sup>

In December 2017 Sir Frank Williams owned 51.3% of the company, with 24.1% on the public marketplace, Brad Hollinger owning 11.7%, Patrick Head 9.3%, and 3.6% is held by an employee trust fund.<sup>[121]</sup> However in May 2020, Williams was put up for sale after posting a £13 million loss in the previous year.<sup>[122]</sup>

## Williams Heritage

Williams Heritage (WH) is the retired chassis and restoration division of Williams F1 (similar to Ferrari F1 Clienti and Classic Team Lotus) that keeps and maintains old retired Williams Formula One chassis that are no longer in racing use. The division's headquarters are located at the Formula One team's site in Grove, Oxfordshire. Williams Heritage manage the restorations, maintenance and on-track activities of the entire Williams collection, as well as privately owned Williams cars. The division was created by Jonathan Williams and the current Heritage Director is Jonathan Kennard.



Williams Conference Centre in Grove

## Williams Grand Prix Technologies

Williams Grand Prix Technologies (WGPT) was launched in April 2024, and the company applies the innovation and technologies of F1 to tackling clients' engineering challenges in other sectors. Services, capabilities and assets originally developed for and used by the Williams race team are offered by WGPT to a range of sectors that include the wider motorsport sector, premium automotive, aerospace, defence, marine, energy, sport and lifestyle.<sup>[123]</sup>

Services offered by WGPT include F1 standard platform dynamics, advanced materials, simulation and modelling, and instrument and data analytics. These core engineering services are supported by a range of in-house prototype testing and evaluation resources that include a wind tunnel, a driver-in-the-loop simulator, single-axis testing machines, an 8-post rig, chassis rig, and bedplate testing.<sup>[123]</sup>

## Williams Driver Academy



Like most F1 teams, Williams operates its own driver academy. As of 2023, the Williams Driver Academy's roster is Jamie Chadwick, Roy Nissany, Zak O'Sullivan, Oliver Gray, Franco Colapinto, and Luke Browning.

Former drivers include Logan Sargeant, Lance Stroll, Oliver Rowland, Nicholas Latifi, Dan Ticktum, and Jack Aitken. Both Sargeant and Stroll are driving in Formula One as of the 2023 season.

## Williams Experience Centre

The Williams Experience Centre is located at the home of the Williams Formula 1 team in Grove, Oxfordshire. Originally the base of BMW's Le Mans project, the building was converted in 2002.

## Other motorsports activities

---

### Formula Two

Williams developed the car for the revived Formula Two championship, beginning in 2009.<sup>[124]</sup> The design was originally created for a new, more-powerful offshoot of the Formula Palmer Audi series, however the car was re-purposed when Jonathan Palmer's MotorSport Vision successfully bid for the rights to run the new Formula Two series.

### Group B rallying (1985–1986)

The MG Metro 6R4 rally car was developed by Williams in 1984 on commission from Rover. The rally car was a MG Metro with a completely new V6 engine (mid-engined) and four-wheel drive, developed to the international Group B rallying regulations. Williams developed the car in just six months.

### British Touring Car Championship (1995–1999)

Williams entered the British Touring Car Championship in 1995, taking over the works Renault programme. Alain Menu transferred from Renault Dealer Racing, with Will Hoy signed to partner him. Williams employed Ian Harrison, future director of Triple Eight Racing as team manager. While Menu was a championship contender, Hoy had constant failures and bad luck during the first half of the season. However, Hoy's luck changed and he won three races and scored several podium finishes in the second half of the year, eventually taking fourth in the championship while Menu finished second in the championship with seven wins. Renault won the manufacturers championship. 1996 was a more difficult year with the front-wheel-drive cars outclassed by the 4WD Audi A4s of Frank Biela and John Bintcliffe. Menu was second in the championship again, while Hoy finished a lowly ninth. 1997 was a breakthrough year for Williams, winning the drivers' championship with Menu, the manufacturers' trophy and teams' award. Other changes for the team saw Jason Plato replacing Hoy, taking third in the championship. The team won 15 races out of 24 in 1997. It also competed in the 1997 Bathurst 1000 with Menu and Plato leading for much of the early part of the race. Alan Jones drove the second car, his first appearance for Williams since 1981.

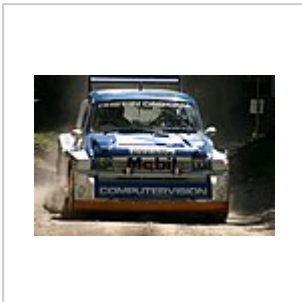
1998 saw few changes to the Williams team: the driver line-up was unchanged with Menu to defend his title alongside Plato, but the main sponsor for 1998 was Nescafé, with Renault still putting sponsorship in for the team. While the Renaults had a new look for 1998, the opposition had caught up after 1997, and both Menu and Plato had a more difficult season, finishing fourth and fifth in the championship. In the final round of 1998 at Silverstone, a third car was entered for Independents Champion Tommy Rustad. Renault ultimately finished third in the manufacturers trophy and second in the teams championship. 1999 was the most difficult season for Williams, as Menu left Renault after racing with them since 1993. Plato was joined by Jean-Christophe Boullion. Nescafé were again the main sponsor for the Williams team in 1999. Renault did not have much luck in 1999 with engine failures haunting the team during the mid-part of the season. One win for Plato was the only success for the season, and Renault pulled out of the BTCC at the end of the season.

## Le Mans 24 Hours and Sportscars (1998–2000)

Prior to their F1 partnership, Williams Motorsport built Le Mans Prototypes for BMW, known as the V12 LM and V12 LMR. The V12 LMR won the 24 Hours of Le Mans in 1999. The car was driven by Pierluigi Martini, Yannick Dalmas and Joachim Winkelhock,<sup>[125]</sup> and operated by Schnitzer Motorsport under the name of BMW Motorsport.

## Formula E

Williams's Advanced Engineering division collaborated with Jaguar Racing in its debut season.<sup>[126]</sup> Williams have a contract to supply the battery system for the Gen 3 Car from the 2021–22 Formula E World Championship.<sup>[127]</sup>



The MG Metro 6R4 was developed by Williams for the 1986 World Rally Championship.



The Williams-engineered Renault Laguna BTCC car ran between 1995 and 1999 and won two manufacturers' titles and one drivers' title.

## Automobile activities

---

### Jaguar C-X75

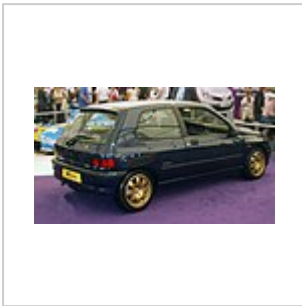
In May 2011 Jaguar announced a limited production of the C-X75 from 2013 to 2015, with a compact, forced induction petrol engine combined with electric motors instead of the micro gas turbines in the concept car. A maximum of 250 cars were planned to be built in partnership with Williams Advanced Engineering. The Jaguar C-X75 is a hybrid-electric, 2-seat, concept car produced by British automobile manufacturer Jaguar Cars in partnership with the derivative of the Formula One team, Williams Advanced Engineering which debuted at the 2010 Paris Motor Show.

## Renault Clio Williams

The Williams name and logo were used on the Renault Clio Williams, a limited sports model of the production supermini, which was Formula One's safety car at the 1996 Argentine Grand Prix.<sup>[128][129]</sup> However, no input was provided by Williams into the development of the car.

## Porsche 911 GT3R Hybrid

Through subsidiary Williams Hybrid Power, the company developed and supplied a flywheel-based kinetic-energy storage system which was in use on a Porsche 911 GT3 R car in various GT racing series. The car achieved its first victory on 28 May 2011 at the 4th round of the VLN Endurance Racing Championship held at the Nürburgring.<sup>[130]</sup>



The Renault Clio Williams



Jaguar C-X75

## Former subsidiaries

---

### WAE Technologies

WAE Technologies, formerly known as Williams Advanced Engineering (WAE), was the technology and engineering services business of the Williams Group. Based in the United Kingdom, it is located in a dedicated facility of 3,800 square metres (41,000 sq ft), adjacent to Williams Formula One facilities.

The company provides the battery technology used in Formula E<sup>[131]</sup> and Extreme E, and has assisted the development of the electric Vanda Dendrobium car from Singapore.<sup>[132]</sup> It has worked with Jaguar to create the C-X75 hybrid supercar. WAE partnered once again with Jaguar to build new stunt C-X75s for the 24th James Bond film, *Spectre*.<sup>[133]</sup>

WAE announced in June 2013 a new collaboration with Nismo, the performance-orientated brand of Nissan, to partner in the development of high-performance road cars.

WAE generated revenues of £10.9m in fiscal year 2014–15, with profits of £1m.<sup>[134]</sup>

The company announced in August 2017 a collaboration with Singer Vehicle Design. The initial work is a modified, naturally aspirated, air-cooled, flat-six Porsche 911 engine with a 4.0L capacity, four valves per cylinder and four camshafts, rated at 500HP.

On 1 May 2019, Williams Advanced Engineering announced their partnership with the FIA sanctioned electric off-road racing series, Extreme E. Williams Advanced Engineering will supply the batteries for the first two seasons of Extreme E, which began in 2021.

On 2 May 2019, it was announced that Williams Advanced Engineering will supply the batteries for the multi-make ETCR series that is due to launch in 2020.<sup>[135]</sup>

On 24 January 2022, the Australian mining firm Fortescue announced it had purchased Williams Advanced Engineering for £164m in an effort to meet its carbon neutral targets for 2030.<sup>[136]</sup> In January 2023, the company was renamed WAE Technologies.<sup>[137]</sup>



Aerial view of the Williams F1 factory in Grove, Oxfordshire, England

## Williams Hybrid Power

Williams Hybrid Power (WHP) was the division of Williams F1 that developed electromechanical flywheels for mobile applications such as buses, trams and high-performance endurance-racing cars. A hybrid system that uses a spinning composite rotor to store energy, these flywheels help a vehicle save fuel and ultimately reduce its CO<sub>2</sub> emissions.

WHP was first established in 2008 and immediately set about developing a new flywheel energy-recovery system for the Williams F1 Team after the introduction of Kinetic Energy Recovery Systems (KERS) into Formula One for the 2009 season. While other teams were pouring their efforts into electric battery systems, Williams F1 opted to go down the flywheel route because of a strong belief in the technology's wider applications. While it was never raced in Formula One due to technical changes, WHP has since seen its technology adapted for a range of applications. For example, the Audi R18 hybrid car that won the 2012 Le Mans 24 Hours used a WHP flywheel. WHP has also seen its flywheel technology introduced into a series of buses as part of a deal with the Go-Ahead Group, one of the UK's biggest transport operators. In April 2014, Williams Hybrid Power was sold to GKN.<sup>[138]</sup>

## Formula One results

---

- Constructors' Championships winning percentage: 19.6%
- Drivers' Championships winning percentage: 15.2%
- Winning percentage: 13.9%



Formula One results								
(italics indicates non-works entries; <b>bold</b> indicates championships won)								
Year	Name	Car	Engine	Tyres	No.	Drivers	Points	WCC
<u>1977</u>	 Williams Grand Prix Engineering	<u>March 761</u>	Ford-Cosworth DFV 3.0 V8		27.	 Patrick Nève	—	
<u>1978</u>	 Williams Grand Prix Engineering	<u>FW06</u>	Ford-Cosworth DFV 3.0 V8		27.	 Alan Jones	11	9th
<u>1979</u>	 Albilad-Saudia Racing Team	<u>FW06 FW07</u>	Ford-Cosworth DFV 3.0 V8		27. 28.	 Alan Jones  Clay Regazzoni	75	2nd
<u>1980</u>	 Albilad Williams Racing Team	<u>FW07 FW07B</u>	Ford-Cosworth DFV 3.0 V8		27. 28.	 <b>Alan Jones</b>  Carlos Reutemann	120	1st
	 Brands Hatch Racing				43.	 <i>Desiré Wilson</i>		
	 RAM – Penthouse Rizla Racing				50. 51. 51.	 Rupert Keegan  Kevin Cogan  Geoff Lees		
	 RAM – Rainbow Jeans Racing  RAM Theodore – Rainbow Jeans Racing							
<u>1981</u>	 Albilad Williams Racing Team	<u>FW07C</u>	Ford-Cosworth DFV 3.0 V8		1. 2.	 Alan Jones  Carlos Reutemann	95	1st
	 TAG Williams Racing Team							
<u>1982</u>	 TAG Williams Racing Team	<u>FW07C FW08</u>	Ford-Cosworth DFV 3.0 V8		5. 5. 5. 6.	 Carlos Reutemann  Mario Andretti  Derek Daly  <b>Keke Rosberg</b>	58	4th
<u>1983</u>	 TAG Williams Racing Team	<u>FW08C</u>	Ford-Cosworth DFV 3.0 V8		1. 2. 42.	 Keke Rosberg  Jacques Laffite  Jonathan Palmer	36	4th
		<u>FW09</u>	Honda RA163E 1.5 V6 t				2	11th







<b>1984</b>	 Williams Grand Prix Engineering	FW09 FW09B	Honda RA163E 1.5 V6 t Honda RA164E 1.5 V6 t		5. 6.	 Jacques Laffite  Keke Rosberg	25.5	6th
<b>1985</b>	 Canon Williams Honda Team	FW10 FW10B	Honda RA164E 1.5 V6 t		5. 6.	 Nigel Mansell  Keke Rosberg	71	3rd
<b>1986</b>	 Canon Williams Honda Team	FW11	Honda RA166E 1.5 V6 t		5. 6.	 Nigel Mansell  Nelson Piquet	<b>141</b>	<b>1st</b>
<b>1987</b>	 Canon Williams Honda Team	FW11B	Honda RA167E 1.5 V6 t		5. 5. 6.	 Nigel Mansell  Riccardo Patrese  <b>Nelson Piquet</b>	<b>137</b>	<b>1st</b>
<b>1988</b>	 Canon Williams Team	FW12	Judd CV 3.5 V8		5. 5. 5. 6.	 Nigel Mansell  Martin Brundle  Jean-Louis Schlesser  Riccardo Patrese	20	7th
<b>1989</b>	 Canon Williams Team	FW12C FW13	Renault RS1 3.5 V10		5. 6.	 Thierry Boutsen  Riccardo Patrese	77	2nd
<b>1990</b>	 Canon Williams Team	FW13B	Renault RS2 3.5 V10		5. 6.	 Thierry Boutsen  Riccardo Patrese	57	4th
<b>1991</b>	 Canon Williams Team	FW14	Renault RS3 3.5 V10		5. 6.	 Nigel Mansell  Riccardo Patrese	125	2nd
<b>1992</b>	 Canon Williams Team	FW14B	Renault RS3C 3.5 V10 Renault RS4 3.5 V10		5. 6.	 <b>Nigel Mansell</b>  Riccardo Patrese	<b>164</b>	<b>1st</b>
<b>1993</b>	 Canon Williams Team	FW15C	Renault RS5 3.5 V10		0. 2.	 Damon Hill  <b>Alain Prost</b>	<b>168</b>	<b>1st</b>
<b>1994</b>	 Rothmans Williams Renault	FW16 FW16B	Renault RS6 3.5 V10		0. 2. 2. 2.	 Damon Hill  Ayrton Senna  David Coulthard  Nigel Mansell	<b>118</b>	<b>1st</b>
<b>1995</b>	 Rothmans Williams Renault	FW17 FW17B	Renault RS7 3.0 V10		5. 6.	 Damon Hill  David Coulthard	112	2nd
<b>1996</b>	 Rothmans Williams Renault	FW18	Renault RS8 3.0 V10		5. 6.	 <b>Damon Hill</b>  Jacques Villeneuve	<b>175</b>	<b>1st</b>
<b>1997</b>	 Rothmans Williams Renault	FW19	Renault RS9 3.0 V10		3. 4.	 <b>Jacques Villeneuve</b>  Heinz-Harald Frentzen	<b>123</b>	<b>1st</b>

<b>1998</b>	 Winfield Williams	<u>FW20</u>	Mecachrome GC37-01 3.0 V10		1. 2.	 Jacques Villeneuve  Heinz-Harald Frentzen	38	3rd
<b>1999</b>	 Winfield Williams	<u>FW21</u>	Supertec FB01 3.0 V10		5. 6.	 Alessandro Zanardi  Ralf Schumacher	35	5th
<b>2000</b>	 BMW WilliamsF1 Team	<u>FW22</u>	BMW E41 3.0 V10		9. 10.	 Ralf Schumacher  Jenson Button	36	3rd
<b>2001</b>	 BMW WilliamsF1 Team	<u>FW23</u>	BMW P80 3.0 V10		5. 6.	 Ralf Schumacher  Juan Pablo Montoya	80	3rd
<b>2002</b>	 BMW WilliamsF1 Team	<u>FW24</u>	BMW P82 3.0 V10		5. 6.	 Ralf Schumacher  Juan Pablo Montoya	92	2nd
<b>2003</b>	 BMW WilliamsF1 Team	<u>FW25</u>	BMW P83 3.0 V10		3. 4. 4.	 Juan Pablo Montoya  Ralf Schumacher  Marc Gené	144	2nd
<b>2004</b>	 BMW WilliamsF1 Team	<u>FW26</u>	BMW P84 3.0 V10		3. 4. 4. 4.	 Juan Pablo Montoya  Ralf Schumacher  Marc Gené  Antônio Pizzonia	88	4th
<b>2005</b>	 BMW WilliamsF1 Team	<u>FW27</u>	BMW P84/5 3.0 V10		7. 8. 8.	 Mark Webber  Nick Heidfeld  Antônio Pizzonia	66	5th
<b>2006</b>	 WilliamsF1 Team	<u>FW28</u>	Cosworth CA2006 2.4 V8		9. 10.	 Mark Webber  Nico Rosberg	11	8th
<b>2007</b>	 AT&T Williams	<u>FW29</u>	Toyota RVX-07 2.4 V8		16. 17. 17.	 Nico Rosberg  Alexander Wurz  Kazuki Nakajima	33	4th
<b>2008</b>	 AT&T Williams	<u>FW30</u>	Toyota RVX-08 2.4 V8		7. 8.	 Nico Rosberg  Kazuki Nakajima	26	8th
<b>2009</b>	 AT&T Williams	<u>FW31</u>	Toyota RVX-09 2.4 V8		16. 17.	 Nico Rosberg  Kazuki Nakajima	34.5	7th
<b>2010</b>	 AT&T Williams	<u>FW32</u>	Cosworth CA2010 2.4 V8		9. 10.	 Rubens Barrichello  Nico Hülkenberg	69	6th
<b>2011</b>	 AT&T Williams	<u>FW33</u>	Cosworth CA2011K 2.4 V8		11. 12.	 Rubens Barrichello  Pastor Maldonado	5	9th
<b>2012</b>	 Williams F1 Team	<u>FW34</u>	Renault RS27-2012 2.4 V8		18. 19.	 Pastor Maldonado  Bruno Senna	76	8th
<b>2013</b>	 Williams F1 Team	<u>FW35</u>	Renault RS27-2013 2.4 V8		16. 17.	 Pastor Maldonado  Valtteri Bottas	5	9th
<b>2014</b>	 Williams Martini Racing	<u>FW36</u>	Mercedes PU106A Hybrid 1.6 V6 t		19. 77.	 Felipe Massa  Valtteri Bottas	320	3rd

<b>2015</b>	 Williams Martini Racing	<u>FW37</u>	Mercedes PU106B Hybrid 1.6 V6 t		19. 77.	 Felipe Massa  Valtteri Bottas	257	3rd
<b>2016</b>	 Williams Martini Racing	<u>FW38</u>	Mercedes PU106C Hybrid 1.6 V6 t		19. 77.	 Felipe Massa  Valtteri Bottas	138	5th
<b>2017</b>	 Williams Martini Racing	<u>FW40</u>	Mercedes M08 EQ Power+ 1.6 V6 t		18. 19. 40.	 Lance Stroll  Felipe Massa  Paul di Resta	83	5th
<b>2018</b>	 Williams Martini Racing	<u>FW41</u>	Mercedes M09 EQ Power+ 1.6 V6 t		18. 35.	 Lance Stroll  Sergey Sirotkin	7	10th
<b>2019</b>	 ROKiT Williams Racing	<u>FW42</u>	Mercedes M10 EQ Power+ 1.6 V6 t		63. 88.	 George Russell  Robert Kubica	1	10th
<b>2020</b>	 Williams Racing	<u>FW43</u>	Mercedes M11 EQ Performance 1.6 V6 t		6. 63. 89.	 Nicholas Latifi  George Russell  Jack Aitken	0	10th
<b>2021</b>	 Williams Racing	<u>FW43B</u>	Mercedes M12 E Performance 1.6 V6 t		6. 63.	 Nicholas Latifi  George Russell	23	8th
<b>2022</b>	 Williams Racing	<u>FW44</u>	Mercedes M13 E Performance 1.6 V6 t		6. 23. 45.	 Nicholas Latifi  Alexander Albon  Nyck de Vries	8	10th
<b>2023</b>	 Williams Racing	<u>FW45</u>	Mercedes M14 E Performance 1.6 V6 t		2. 23.	 Logan Sargeant  Alexander Albon	28	7th
<b>2024</b>	 Williams Racing	<u>FW46</u>	Mercedes M15 E Performance 1.6 V6 t		2. 23. 43.	 Logan Sargeant  Alexander Albon  Franco Colapinto	6*	9th*
* Season still in progress.								

## Drivers' Champions

The following drivers won the Formula One Drivers' Championship for Williams:<sup>[139]</sup>

-  Alan Jones (1980)
-  Keke Rosberg (1982)
-  Nelson Piquet (1987)
-  Nigel Mansell (1992)
-  Alain Prost (1993)
-  Damon Hill (1996)



-  Jacques Villeneuve (1997)

## Notes

---

## References

---

1. "F1 grid for 2024 complete as Williams retain Sargeant after rookie season" (<https://www.formula1.com/en/latest/article.breaking-f1-grid-for-2024-complete-as-williams-retain-sargeant-after-rookie.73Rs275h5uXFk17AD7AwqE.html>). *Formula1.com*. 1 December 2023. Retrieved 1 December 2023.
2. "Williams confirm Albon for 2023 on new multi-year contract" (<https://www.formula1.com/en/latest/article.breaking-williams-confirm-albon-for-2023-on-new-multi-year-contract.1rpexVv61cyqPW7h7La6LZ.html>). *Formula1.com*. 3 August 2022. Archived (<https://web.archive.org/web/20220803141658/https://www.formula1.com/en/latest/article.breaking-williams-confirm-albon-for-2023-on-new-multi-year-contract.1rpexVv61cyqPW7h7La6LZ.html>) from the original on 3 August 2022. Retrieved 3 August 2022.
3. "Williams Racing announces that Franco Colapinto will race with the team for the remainder of the 2024 FIA Formula 1 World Championship season" (<https://www.williamsf1.com/posts/fd43d928-0914-42ff-b9ee-394342064dc4/williams-racing-team-statement?srsId=AfmBOooSqAvclDh6ceY19B7HcYD9lWY5Aj8CNnAf6lRrl--9NvYo3m8c>). *Formula1.com*. 27 August 2024. Retrieved 27 August 2024.
4. "Alex Albon and Logan Sargeant preview the Singapore Grand Prix" (<https://www.williamsf1.com/posts/fd00c373-cf73-4093-ab3e-f1974c7c3e45/alex-and-logan-preview-the-singapore-grand-prix>). *Williams Racing*. 13 September 2023. Retrieved 19 October 2023.
5. Extra 6 points are David Coulthard's points from 1995 Brazilian Grand Prix which were not counted towards 1995 World Constructors' Championship.
6. "Williams F1 Team Vows Carbon Positive Footprint By 2030" (<https://www.autoweek.com/racing/formula-1/a37965146/williams-f1-carbon-positive-2030/>). *Autoweek*. 15 October 2021.
7. "Williams family to step aside from running of the team after Italian GP" (<https://www.formula1.com/en/latest/article.breaking-williams-family-to-step-aside-from-running-of-the-team-after.2Ss3rwUeVit4NJ3XR6oLDn.html>). *www.formula1.com*. 3 September 2020. Retrieved 3 September 2020.
8. "Williams F1 profile" (<http://www.grandprix.com/gpe/con-willi.html>). *GrandPrix.com*. Retrieved 9 June 2012.
9. *Williams Grand Prix Engineering – 1977 results* *www.f1db.com* (<https://web.archive.org/web/20071008010930/http://www.f1db.com/exec/section/team/action/results/id/1977030/type/entries>). Retrieved 22 August 2006.
10. "Grand Prix Results: United States GP, 1978" (<http://www.grandprix.com/gpe/rr312.html>). *GrandPrix.com*. Retrieved 13 November 2006.
11. Hamilton, Maurice (1998). *Frank Williams*. Macmillan. p. 80. ISBN 0-333-71716-3.
12. "Grand Prix Results: French GP, 1979" (<http://www.grandprix.com/gpe/rr321.html>). *GrandPrix.com*. Retrieved 9 June 2012.
13. Hamilton, Maurice (1998). *Frank Williams*. Macmillan. pp. 148–153. ISBN 0-333-71716-3.
14. "ITV-F1.com: WilliamsF1 Highs And Lows" ([https://web.archive.org/web/20070929092127/http://www.itv-f1.com/Feature.aspx?Type=Photo\\_Features&PO\\_ID=36777](https://web.archive.org/web/20070929092127/http://www.itv-f1.com/Feature.aspx?Type=Photo_Features&PO_ID=36777)). *ITV F1*. ITV. 15 January 2007. Archived from the original ([http://www.itv-f1.com/Feature.aspx?Type=Photo\\_Features&PO\\_ID=36777](http://www.itv-f1.com/Feature.aspx?Type=Photo_Features&PO_ID=36777)) on 29 September 2007. Retrieved 15 May 2007.

15. Saward, Jow (1 July 1993). "Frank Williams Interview" (<https://web.archive.org/web/20130130211028/http://www.grandprix.com/ft/ft00150.html>). GrandPrix.com. Archived from the original (<http://www.grandprix.com/ft/ft00150.html>) on 30 January 2013. Retrieved 14 July 2006.
16. Manishin, Glenn. "After Tamburello" ([http://f1-grandprix.com/?page\\_id=1796](http://f1-grandprix.com/?page_id=1796)). *F1-Grandprix.com*. Retrieved 13 June 2006.
17. "1994: Formula One's 'blackest day' " ([http://news.bbc.co.uk/onthisday/hi/witness/may/1/new\\_sid\\_2951000/2951011.stm](http://news.bbc.co.uk/onthisday/hi/witness/may/1/new_sid_2951000/2951011.stm)). *BBC News*. 1 May 1994. Retrieved 13 July 2006.
18. "Top designers acquitted on Senna" ([http://news.bbc.co.uk/sport1/hi/motorsport/formula\\_one/4587195.stm](http://news.bbc.co.uk/sport1/hi/motorsport/formula_one/4587195.stm)). *BBC News*. 27 May 2005. Retrieved 13 July 2007.
19. 'WilliamsF1.com > Seasons > 1994' (<http://www.williamsf1.com/racing/about/our-history>) Archived (<https://web.archive.org/web/20150509134229/http://www.williamsf1.com/racing/about/our-history>) 9 May 2015 at the *Wayback Machine*. Retrieved 14 July 2006.
20. "Why 'Senna S' is absent from Williams' latest F1 car" (<https://www.crash.net/f1/news/99648/8/1/why-senna-s-absent-williams-latest-f1-car>). *Crash*. 15 February 2022. Retrieved 25 February 2022.
21. Cleeren, Filip; Noble, Jonathan (15 February 2022). "Williams explains decision to remove Senna S logo from 2022 F1 car" (<https://www.motorsport.com/f1/news/williams-explains-decision-to-remove-senna-s-logo-from-2022-f1-car/8196680/>). *www.motorsport.com*. Retrieved 25 February 2022.
22. Hamilton, Maurice (1998). *Frank Williams*. Macmillan. p. 244. ISBN 0-333-71716-3.
23. Horton, Roger. "Reflections on a Racing Rivalry" (<http://atlasf1.autosport.com/99/fra/previous/horton.html>). *Atlas Autosport*. Kaizar. Retrieved 1 October 2010.
24. 'Ruthless' Schumi blasted (<https://web.archive.org/web/20071013164119/http://motoring.iafrica.com/formulaone/561093.htm>). Retrieved 2 August 2006.
25. Saward, Joe (2 December 1996). "Review of the year 1996" (<https://web.archive.org/web/20160409175501/http://www.grandprix.com/ft/ft00244.html>). GrandPrix.com. Archived from the original (<http://www.grandprix.com/ft/ft00244.html>) on 9 April 2016. Retrieved 1 October 2010.
26. Saward, Joe (1 November 1997). "Review of the year 1997" (<https://web.archive.org/web/20130130200853/http://www.grandprix.com/ft/ft00278.html>). GrandPrix.com. Archived from the original (<http://www.grandprix.com/ft/ft00278.html>) on 30 January 2013. Retrieved 9 June 2012.
27. Saward, Joe (1 January 1998). "Mecachrome" (<https://web.archive.org/web/20130130201521/http://www.grandprix.com/ft/ft00283.html>). GrandPrix.com. Archived from the original (<http://www.grandprix.com/ft/ft00283.html>) on 30 January 2013. Retrieved 14 July 2006.
28. Saward, Joe (28 January 1998). "Williams FW20" (<https://web.archive.org/web/20130130210516/http://www.grandprix.com/ft/ft00284.html>). GrandPrix.com. Archived from the original (<http://www.grandprix.com/ft/ft00284.html>) on 30 January 2013. Retrieved 14 July 2006.
29. *Hewlett-Packard Corporate- HP Technology and BMW Williams F1 Team* (<http://www.visit4info.com/details.cfm?adid=9340>). Retrieved 19 July 2006.
30. *GlaxoSmithKline* (<https://web.archive.org/web/20070927173837/http://gsk.com/ControllerServlet?appld=4&pageld=402&newsid=158>). Retrieved 19 July 2006.
31. *Anheuser-Busch, Inc.: Budweiser sponsors BMW WilliamsF1 Team* (<http://www.prnewswire.co.uk/news-releases/anheuser-busch-inc-budweiser-sponsors-bmw-williamsf1-team-154336085.html>). Retrieved 19 July 2006.
32. *SeaWorld Adventure Parks To Be Featured With BMW WilliamsF1 Team* ([https://web.archive.org/web/20060322062113/http://www.anheuser-busch.com/news/SW\\_BMW\\_GrandPrix063005.htm](https://web.archive.org/web/20060322062113/http://www.anheuser-busch.com/news/SW_BMW_GrandPrix063005.htm)). Retrieved 19 July 2006.
33. Benson, Andrew (13 October 2002). "Schumacher paints F1 red" ([http://news.bbc.co.uk/sport1/hi/motorsport/formula\\_one/2282980.stm](http://news.bbc.co.uk/sport1/hi/motorsport/formula_one/2282980.stm)). *BBC Sport*. Retrieved 13 July 2008.

34. "Williams launch new car" ([http://news.bbc.co.uk/sport1/hi/motorsport/formula\\_one/2712997.stm](http://news.bbc.co.uk/sport1/hi/motorsport/formula_one/2712997.stm)). *BBC Sport*. 31 January 2003. Retrieved 13 July 2008.
35. "Webber signs to BMW WilliamsF1" (<https://web.archive.org/web/20120208011946/http://www.castrol.com/castrol/genericarticle.do?categoryId=9000062&contentId=7000426>). *Castrol*. 28 July 2004. Archived from the original (<http://www.castrol.com/castrol/genericarticle.do?categoryId=9000062&contentId=7000426>) on 8 February 2012. Retrieved 13 July 2006.
36. "BMW sign Heidfeld for new F1 team" ([http://news.bbc.co.uk/sport1/hi/motorsport/formula\\_one/4251472.stm](http://news.bbc.co.uk/sport1/hi/motorsport/formula_one/4251472.stm)). *BBC Sport*. 16 September 2005. Retrieved 13 July 2006.
37. "Williams firm on Button" ([http://news.bbc.co.uk/sport1/hi/motorsport/formula\\_one/3541856.stm](http://news.bbc.co.uk/sport1/hi/motorsport/formula_one/3541856.stm)). *BBC Sport*. 6 August 2004. Retrieved 9 June 2009.
38. "Williams: BAR can have Button but..." ([https://www.crash.net/f1/news/53476/1/williams\\_bar\\_can\\_have\\_button\\_but.html](https://www.crash.net/f1/news/53476/1/williams_bar_can_have_button_but.html)) *Crash.net*. Crash Media Group. 29 August 2005. Retrieved 9 June 2009.
39. "BMW: Williams must improve" ([http://news.bbc.co.uk/sport1/hi/motorsport/formula\\_one/3036349.stm](http://news.bbc.co.uk/sport1/hi/motorsport/formula_one/3036349.stm)). *BBC Sport*. 18 May 2003. Retrieved 8 June 2009.
40. "Williams criticises partner BMW" ([http://news.bbc.co.uk/sport1/hi/motorsport/formula\\_one/4075286.stm](http://news.bbc.co.uk/sport1/hi/motorsport/formula_one/4075286.stm)). *BBC Sport*. 8 June 2005. Retrieved 9 June 2012.
41. "BMW buys Sauber to form own team" ([http://news.bbc.co.uk/sport1/hi/motorsport/formula\\_one/4118472.stm](http://news.bbc.co.uk/sport1/hi/motorsport/formula_one/4118472.stm)). *BBC Sport*. 22 June 2005. Retrieved 9 June 2012.
42. "Button agrees deal to stay at BAR" ([http://news.bbc.co.uk/sport2/hi/motorsport/formula\\_one/4267520.stm](http://news.bbc.co.uk/sport2/hi/motorsport/formula_one/4267520.stm)). 21 September 2005. Retrieved 18 September 2020 – via [news.bbc.co.uk](http://news.bbc.co.uk).
43. "Williams turn to Cosworth engines" ([http://news.bbc.co.uk/sport1/hi/motorsport/formula\\_one/4153236.stm](http://news.bbc.co.uk/sport1/hi/motorsport/formula_one/4153236.stm)). *BBC Sport*. 15 August 2005. Retrieved 9 June 2012.
44. "Williams sign Toyota engine deal" ([http://news.bbc.co.uk/sport1/hi/motorsport/formula\\_one/5219520.stm](http://news.bbc.co.uk/sport1/hi/motorsport/formula_one/5219520.stm)). *BBC Sport*. 27 July 2006. Retrieved 9 June 2012.
45. *AT&T Title Sponsor for WilliamsF1* (<http://www.f1network.net/main/s107/st106353.htm>). Retrieved 20 October 2006.
46. *Vodafone will be McLaren's Title Sponsor* (<http://newsonf1.net/2005/news/12/dec14mc.htm>) 20 October 2006.
47. Elizalde, Pablo (8 October 2007). "Wurz confirms immediate retirement from F1" (<http://www.autosport.com/news/report.php/id/63165>). *Autosport*. Haymarket Media. Retrieved 8 October 2007.
48. "Rosberg agrees new Williams deal" ([http://news.bbc.co.uk/sport1/hi/motorsport/formula\\_one/7135142.stm](http://news.bbc.co.uk/sport1/hi/motorsport/formula_one/7135142.stm)). *BBC News*. 9 December 2007. Retrieved 9 December 2007.
49. "Williams to run six different liveries this winter" (<http://www.gpupdate.net/en/f1-news/177572/williams-to-run-six-different-liveries-this-winter/>). GPUpdate.net. 14 January 2008. Retrieved 1 February 2011.
50. "Commitment to remain in F1" ([http://news.bbc.co.uk/sport1/hi/motorsport/formula\\_one/7771407.stm](http://news.bbc.co.uk/sport1/hi/motorsport/formula_one/7771407.stm)). *BBC News*. 8 December 2008. Retrieved 8 December 2008.
51. "Williams confirm Cosworth for 2010" (<http://www.racecar-engineering.com/articles/f1-2010-williams-fw32-cosworth/>). *Racecar Engineering*. 30 October 2009. Retrieved 2 November 2009.
52. Beer, Matt (29 January 2010). "Williams signs Bottas as test driver" (<http://www.autosport.com/news/report.php/id/81111>). *Autosport*. Haymarket Media Group. Retrieved 29 January 2010.
53. "Exclusive: First image of new Williams" (<http://www.autosport.com/news/report.php/id/81104>). *autosport.com*. 28 January 2010. Retrieved 6 February 2016.
54. "BBC Sport – F1 – Nico Hulkenberg takes Brazilian GP pole for Williams" ([http://news.bbc.co.uk/sport2/hi/motorsport/formula\\_one/9163670.stm](http://news.bbc.co.uk/sport2/hi/motorsport/formula_one/9163670.stm)). *BBC Sport*. Retrieved 6 February 2016.

55. "Williams sign Venezuelan Pastor Maldonado for 2011 F1 season" (<https://www.theguardian.com/sport/2010/dec/02/williams-pastor-maldonado-2011-f1-season>). *The Guardian*. UK. Press Association. 2 December 2010. Retrieved 3 February 2011.
56. "Williams Renault Legendary Partnership Revived for 2012" (<https://web.archive.org/web/20110707100129/http://www.attwilliams.com/news/view/1859>). *AT&T Williams*. Williams F1. 4 July 2011. Archived from the original (<http://www.attwilliams.com/news/view/1859>) on 7 July 2011. Retrieved 4 July 2011.
57. "Pastor Maldonado Confirmed for 2012 with Valtteri Bottas as Reserve Driver" (<https://web.archive.org/web/20111203214900/http://www.attwilliams.com/news/view/2028>). *Williams F1*. Williams Grand Prix Engineering Limited. 1 December 2011. Archived from the original (<http://www.attwilliams.com/news/view/2028>) on 3 December 2011. Retrieved 1 December 2011.
58. "Patrick Head Steps Down from WGPB Board of Directors" (<https://web.archive.org/web/20120103215105/http://www.williamsf1.com/news/view/2035>). *Williams*. Williams F1. 31 December 2011. Archived from the original (<http://www.williamsf1.com/news/view/2035>) on 3 January 2012. Retrieved 4 January 2012.
59. Baldwin, Alan (4 January 2012). "The Williams Formula One team are seeking a new title sponsor after the termination of their agreement with U.S. telecommunications giant AT&T" (<http://uk.reuters.com/article/uk-motor-racing-williams-idUKTRE8030OE20120104>). *Reuters*. Thomson Reuters. Retrieved 4 January 2012.
60. "Spanish Grand Prix 2012: Pastor Maldonado holds off Fernando Alonso to claim historic win for Williams" (<https://www.telegraph.co.uk/sport/motorsport/formulaone/9262938/Spanish-Grand-Prix-2012-Pastor-Maldonado-holds-off-Fernando-Alonso-to-claim-historic-win-for-Williams.html>). *Telegraph.co.uk*. 13 May 2012. Archived (<https://ghostarchive.org/archive/20220110/https://www.telegraph.co.uk/sport/motorsport/formulaone/9262938/Spanish-Grand-Prix-2012-Pastor-Maldonado-holds-off-Fernando-Alonso-to-claim-historic-win-for-Williams.html>) from the original on 10 January 2022. Retrieved 5 February 2016.
61. "Formula 1 Drivers & Constructors Standings – FIA Formula One World Championship 2012 – ESPN.co.uk" (<http://en.espn.co.uk/f1/motorsport/season/50767.html?template=standings>). *ESPN UK*. Retrieved 5 February 2016.
62. "Claire Williams becomes deputy principal" ([http://www.supersport.com/motorsport/formula1/news/130327/Claire\\_Williams\\_becomes\\_deputy\\_principal](http://www.supersport.com/motorsport/formula1/news/130327/Claire_Williams_becomes_deputy_principal)). *Supersport.com*. Retrieved 25 June 2015.
63. Elizalde, Pablo (28 November 2012). "Williams confirms Valtteri Bottas and Pastor Maldonado for 2013" (<http://www.autosport.com/news/report.php/id/104630>). *Autosport*. Haymarket Publications. Retrieved 28 November 2012.
64. "Teams & Drivers – Williams" (<http://www.formula1.com/content/fom-website/en/championship/teams/Williams.html>). *Formula1.com*. Retrieved 30 January 2015.
65. "Williams move to Mercedes power for 2014" (<https://web.archive.org/web/20130607180129/http://www.formula1.com/news/headlines/2013/5/14622.html>). *Formula1.com*. Formula One Administration. 30 May 2013. Archived from the original (<http://www.formula1.com/news/headlines/2013/5/14622.html>) on 7 June 2013. Retrieved 13 December 2014.
66. Weaver, Paul (21 June 2014). "Felipe Massa on pole at F1's Austrian GP as Lewis Hamilton spins" (<https://www.theguardian.com/sport/2014/jun/21/felipe-massa-pole-austrian-gp-f1>). *The Guardian*. Retrieved 13 December 2014.
67. "Paul di Resta set to be named Williams reserve driver for 2016 season" (<https://www.bbc.co.uk/sport/formula1/35795864>). *BBC Sport*. 13 March 2016. Retrieved 20 August 2016.
68. Benson, Andrew (11 November 2015). "Lance Stroll to test for Williams in 2016" (<https://www.bbc.co.uk/sport/formula1/34793753>). *BBC Sport*. Retrieved 6 December 2015.



69. "Williams confirms driver line-up for the 2017 season" (<https://web.archive.org/web/20161103161549/http://www.williamsf1.com/racing/news/williamsconfirmsdriverlineupfor2017season>). Williams Grand Prix Engineering. 3 November 2016. Archived from the original (<http://www.williamsf1.com/racing/news/williamsconfirmsdriverlineupfor2017season>) on 3 November 2016. Retrieved 3 November 2016.
70. "Bottas to Mercedes, Massa to re-join Williams" (<https://www.formula1.com/en/latest/headlines/2017/1/bottas-to-mercedes--massa-to-re-join-williams.html>). *Formula1.com*. Formula One World Championship Ltd. 16 January 2017. Retrieved 16 January 2017.
71. "Paul di Resta to replace unwell Felipe Massa in Hungary" (<https://www.bbc.co.uk/sport/formula1/40763096>). *BBC Sport*. 29 July 2017. Retrieved 5 November 2017.
72. "Felipe Massa: Williams driver to retire at end of the season" (<https://www.bbc.co.uk/sport/formula1/41870426>). *BBC Sport*. 4 November 2017. Retrieved 5 November 2017.
73. Barretto, Lawrence (16 January 2018). "Sergey Sirotkin beats Robert Kubica to 2018 Williams F1 seat" (<https://www.autosport.com/f1/news/133914/sirotkin-announced-as-2018-williams-driver>). *autosport.com*. Retrieved 16 January 2018.
74. Barretto, Lawrence (16 January 2018). "Kubica named Williams' reserve driver" (<https://www.motorsport.com/f1/news/kubica-named-williams-reserve-driver-996292/>). *Motorsport.com*. Motorsport Network. Retrieved 16 January 2018.
75. Barretto, Lawrence (27 February 2018). "Martini and Williams to end sponsorship deal" (<https://www.motorsport.com/f1/news/martini-and-williams-to-end-sponsorship-deal-1009390/1393564/>). *Motorsport.com*. Motorsport Network. Retrieved 27 February 2018.
76. Collantine, Keith (12 October 2018). "Russell handed F1 debut in place of Stroll at Williams for 2019" (<https://www.racefans.net/2018/10/12/george-russell-handed-f1-debut-with-williams-in-2019/>). *RaceFans*. Retrieved 12 October 2018.
77. "Robert Kubica: Polish driver to make F1 comeback with Williams in 2019" (<https://www.bbc.co.uk/sport/formula1/46300009>). *BBC Sport*. 22 November 2018. Retrieved 22 November 2018.
78. "WILLIAMS MARTINI RACING and PKN ORLEN Announce Partnership" (<https://web.archive.org/web/20181129183947/https://www.williamsf1.com/racing/news/2018/11/williams-martini-racing-and-pkn-orlen-announce-partnership>). *www.williamsf1.com*. Archived from the original (<https://www.williamsf1.com/racing/news/2018/11/williams-martini-racing-and-pkn-orlen-announce-partnership>) on 29 November 2018. Retrieved 30 November 2018.
79. "ROKiT Enters Formula One as Title Partner of Williams Racing" (<https://web.archive.org/web/20190212011732/https://www.williamsf1.com/racing/news/2019/02/rokit-enters-formula-one-as-title-partner-of-williams-racing>). Williams Racing. 11 February 2019. Archived from the original (<https://www.williamsf1.com/racing/news/2019/02/rokit-enters-formula-one-as-title-partner-of-williams-racing>) on 12 February 2019. Retrieved 11 February 2019.
80. "Formula 1 testing 2019: Williams describe delayed start to testing as 'embarrassing' " (<https://www.bbc.co.uk/sport/formula1/47308080>). *bbc.co.uk*. 20 February 2019. Retrieved 21 May 2020.
81. Horton, Phillip (13 September 2019). "Williams extends Mercedes F1 power unit deal through 2025" (<https://web.archive.org/web/20190921211835/https://motorsportweek.com/news/id/24415>). *motorsportweek.com*. Motorsport Media Services Ltd. Archived from the original (<https://motorsportweek.com/news/id/24415>) on 21 September 2019. Retrieved 13 September 2019.
82. "Robert Kubica Decides To Leave ROKiT Williams Racing at End of 2019 Season" (<https://web.archive.org/web/20190920122248/https://www.williamsf1.com/racing/news/2019/09/robert-kubica-to-leave-rokit-williams-racing-at-end-of-2019-season>). *williamsf1.com*. 19 September 2019. Archived from the original (<https://www.williamsf1.com/racing/news/2019/09/robert-kubica-to-leave-rokit-williams-racing-at-end-of-2019-season>) on 20 September 2019. Retrieved 19 September 2019.

83. "Latifi to Williams for 2020: F2 racer replaces Kubica" (<https://www.formula1.com/en/latest/article.latifi-to-williams-for-2020-f2-racer-replaces-kubica.3GkU6EalmK mzKt6qZU0eiF.html>). *formula1.com*. Formula One World Championship Limited. 28 November 2019. Retrieved 28 November 2019.
84. "Aitken joins Williams as reserve driver after leaving Renault" (<https://www.formula1.com/en/latest/article.aitken-joins-williams-as-reserve-driver-after-leaving-renault.2rN9Odf4dbRtaWrg6YSh9t.html>). *formula1.com*. 4 February 2020. Retrieved 4 February 2020.
85. "Williams could sell F1 team as board announces GBP13m loss in 2019 and split from title sponsor" (<https://www.formula1.com/en/latest/article.williams-could-sell-f1-team-as-board-announces-gbp13m-loss-in-2019-and-split.455wGjds3WOQf7gdSuqJRf.html>). *formula1.com*. Formula One World Championship Limited. 29 May 2020. Retrieved 29 May 2020.
86. " 'It felt incredible' – Russell revels in starring debut Q2 appearance with Williams" (<https://www.formula1.com/en/latest/article.it-felt-incredible-russell-revels-in-starring-debut-q2-appearance-with.jxWso85EjBoOlWHptAM3V.html>). *Formula 1*. 11 July 2020. Retrieved 12 September 2022.
87. "Standings" (<https://www.formula1.com/en/results.html/2020/races/1046/austria/starting-grid.html>). *Formula 1® - The Official F1® Website*. Retrieved 24 January 2021.
88. "Williams Racing is acquired by Dorilton Capital" (<https://www.williamsf1.com/news/2020/08/williams-racing-is-acquired-by-dorilton-capital>). *www.williamsf1.com*. Archived (<https://web.archive.org/web/20210407022258/https://www.williamsf1.com/News/2020/Team/Williams-Racing-is-acquired-by-Dorilton-Capital>) from the original on 7 April 2021. Retrieved 21 August 2020.
89. Murad Ahmed, Samuel Agini (21 August 2020). "Williams F1 team sold to US investors to secure financial future" (<https://www.ft.com/content/27ac34e1-22e2-4c35-a238-1e43fac7c356>). *Financial Times*. Archived (<https://ghostarchive.org/archive/20221210/https://www.ft.com/content/27ac34e1-22e2-4c35-a238-1e43fac7c356>) from the original on 10 December 2022. Retrieved 21 August 2020.
90. "Williams F1 team bought by investment firm Dorilton Capital" (<https://www.bbc.co.uk/sport/formula1/53860010>). BBC News. 21 August 2020. Retrieved 24 August 2020.
91. "Williams appoint Simon Roberts as Acting Team Principal" (<https://www.formula1.com/en/latest/article.breaking-williams-appoint-simon-roberts-as-acting-team-principal.4AqltrK58TiwSRYTQi1IOe.html>). *www.formula1.com*.
92. "Williams name former McLaren boss Jost Capito as new CEO" (<https://www.formula1.com/en/latest/article.breaking-williams-name-former-mclaren-boss-jost-capito-as-new-ceo.6JjTpxUUTVBIE2wMO67DxZ.html>). *www.formula1.com*. Retrieved 19 December 2020.
93. "Williams Race Calculator" (<https://web.archive.org/web/20210510192903/https://www.williamsf1.com/race-calculator>). *www.williamsf1.com*. Archived from the original (<https://www.williamsf1.com/race-calculator>) on 10 May 2021. Retrieved 10 May 2021.
94. "Simon Roberts to leave Williams, with CEO Jost Capito taking on Team Principal role" (<https://www.formula1.com/en/latest/article.breaking-roberts-to-leave-williams-with-ceo-capito-taking-on-team-principal.72PccmaW3c7oSzx2dRaG4k.html>). *www.formula1.com*. Retrieved 10 June 2021.
95. Benson, Andrew (7 September 2021). "Mercedes sign British F1 driver to partner Lewis Hamilton from 2022" (<https://www.bbc.com/sport/formula1/58474646>). *BBC Sport*. Retrieved 17 July 2022.
96. "Mercedes Confirms 2022 F1 Driver Line-Up" (<https://www.mercedesamgf1.com/en/news/2021/09/mercedes-confirms-2022-f1-driver-line-up/>). *Mercedes-AMG F1*. 7 September 2021. Retrieved 17 July 2022.
97. "Alex Albon to Drive for Williams Racing in 2022" (<https://www.alexalbon.com/news/alex-albon-to-drive-for-williams-racing-in-2022>). *Alex Albon*. 8 September 2021. Retrieved 17 July 2022.

98. Coates, Freddie (8 September 2021). "Alex Albon Is Back In F1 Alongside Nicholas Latifi At Williams In 2022" (<https://wtf1.com/post/alex-albon-is-back-in-f1-alongside-nicholas-latifi-at-williams-in-2022/>). *WTF1*. Retrieved 17 July 2022.
99. "Duracell to help power Williams Racing in 2022 and beyond" (<https://www.williamsf1.com/posts/831fa70a-a575-4552-b112-b37c53176e81/duracell-to-help-power-williams-racing-in-2022-and-beyond>). *Williams Racing*. 14 February 2022. Retrieved 17 July 2022.
100. Cooper, Adam (12 April 2022). "How Albon pulled off a strategy miracle in Australian GP" (<https://www.autosport.com/f1/news/how-albon-pulled-off-a-strategy-miracle-in-australian-gp/9832509/>). *Autosport*. Retrieved 17 July 2022.
101. Hreskiv, Anton (11 May 2022). "Albon "super happy" after scoring points in Miami" (<https://asnmmp.com/2022/05/11/albon-super-happy-after-scoring-points-in-miami/>). *ASN Motorsports*. Retrieved 17 July 2022.
102. Medland, Chris (2 July 2022). "Latifi takes confidence boost from first Q3 appearance" (<https://racer.com/2022/07/02/latifi-takes-confidence-boost-from-first-q3-appearance/>). *Racer*. Retrieved 17 July 2022.
103. Butterworth, Michael; Rencken, Dieter (5 July 2022). "Latifi laments 'frustrating' British GP despite confidence-boosting weekend" (<https://racingnews365.com/latifi-laments-frustrating-british-gp>). *Racing News 365*. Retrieved 17 July 2022.
104. Horton, Phillip (27 August 2022). "Albon promises 'elbows out' from 2022-best sixth" (<https://www.motorsportweek.com/2022/08/27/albon-promises-elbows-out-from-2022-best-sixth/>). *Motorsport Week*. Archived (<https://web.archive.org/web/20220827175541/https://www.motorsportweek.com/2022/08/27/albon-promises-elbows-out-from-2022-best-sixth/>) from the original on 27 August 2022. Retrieved 12 September 2022.
105. "Albon says he was 'holding on for dear life' to score final point in Belgium" (<https://www.formula1.com/en/latest/article.albon-says-he-was-holding-on-for-dear-life-to-score-final-point-in-belgium.6KKqsElu3Px3dxB9usg47M.html>). *Formula 1*. 30 August 2022. Archived (<https://web.archive.org/web/20220902112309/https://www.formula1.com/en/latest/article.albon-says-he-was-holding-on-for-dear-life-to-score-final-point-in-belgium.6KKqsElu3Px3dxB9usg47M.html>) from the original on 2 September 2022. Retrieved 12 September 2022.
106. "Nyck de Vries to drive in place of Alex Albon for the remainder of the Italian Grand Prix weekend" (<https://www.williamsf1.com/posts/8a7caacd-54f4-4948-a568-548c08e07271/nyck-de-vries-to-drive-in-place-of-alex-albon-for-the-remainder-of-the-italian-grand-prix>). *Williams F1*. 10 September 2022. Retrieved 12 September 2022.
107. Wood, Will; Cottingham, Claire (10 September 2022). "De Vries pleased with qualifying debut despite accidental brake balance error" (<https://www.racefans.net/2022/09/10/de-vries-pleased-with-qualifying-debut-despite-accidental-brake-balance-error/>). *Racefans*. Retrieved 12 September 2022.
108. "Formula 1 Pirelli Gran Premio D'Italia 2022 - Race Result" (<https://www.formula1.com/en/results.html/2022/races/1120/italy/race-result.html>). *Formula 1*. Retrieved 12 September 2022.
109. "Nyck de Vries Scores Points In F1 Debut" (<https://f1chronicle.com/nyck-de-vries-scores-points-in-f1-debut/>). *F1 Chronicle*. 12 September 2022. Retrieved 12 September 2022.
110. "Williams Racing appoints new Team Principal" (<https://www.williamsf1.com/posts/93701e34-e20a-4bfd-bbd2-c289a1d5bd78/williams-racing-appoints-new-team-principal>). *Williams F1*. Retrieved 13 January 2023.
111. "Williams Racing and Gulf Oil International announce long-term partnership" (<https://www.williamsf1.com/posts/0ec41419-8cb9-4ae5-9429-8620771f7bfe/williams-racing-gulf-oil-international-long-term-partnership>). *Williams Racing*. Retrieved 22 March 2023.
112. "Williams confirm Albon for 2023 on new multi-year contract" (<https://www.formula1.com/en/latest/article.breaking-williams-confirm-albon-for-2023-on-new-multi-year-contract.1rpexVv61cyqPW7h7La6LZ.html>). *Formula1*. 3 August 2022. Retrieved 22 March 2023.

113. "Williams confirm Logan Sargeant to race alongside Alex Albon for 2023" (<https://www.formula1.com/en/latest/article.breaking-williams-confirm-logan-sargeant-to-race-alongside-alex-albon-for.4PPEcathLs1u09BII RcNgB.html>). *Formula 1*. 21 November 2022. Retrieved 23 November 2022.
114. "Sainz signs for Williams as Spaniard's F1 future is confirmed" (<https://www.formula1.com/en/latest/article/breaking-carlos-sainz-signs-for-williams-as-spaniards-f1-future-is-confirmed.2wsM0VoH6D7H2akmtW9uXe>). *Formula 1.com*. 29 July 2024. Retrieved 29 July 2024.
115. McClure, Michael (27 August 2024). "Colapinto to make F1 debut for Williams at Monza, replacing Sargeant" (<https://feederseries.net/2024/08/27/colapinto-to-make-f1-debut-for-williams-at-monza-replacing-sargeant/>). *Feeder Series*. Retrieved 27 August 2024.
116. "ABOUT WILLIAMS GRAND PRIX TECHNOLOGIES" (<https://www.williamsgpotech.com/>). Retrieved 8 May 2024.
117. Buxton, Will (3 September 2020). "Williams Family Steps Back From F1: What Does The Future Hold?" (<https://www.youtube.com/watch?v=yDYdO895a88>). *YouTube*. Archived (<http://ghostarchive.org/varchive/youtube/20211211/yDYdO895a88>) from the original on 11 December 2021. Retrieved 10 September 2020.
118. Baldwin, Alan (20 November 2009). "Williams F1 team sells stake to Austrian investor | Reuters" (<http://uk.reuters.com/article/uk-motor-racing-williams-idUKTRE5AJ16I20091120>). *Reuters*. Retrieved 15 March 2010.
119. "Wolff: Value of privateers will rise" (<http://www.autosport.com/news/report.php/id/80255>). *Autosport*. 20 November 2009. Retrieved 15 March 2010.
120. "Williams Formula 1 team to float on Frankfurt Stock Exchange" (<https://www.bbc.co.uk/news/business-12370825>). *BBC News*. 4 February 2011. Retrieved 4 February 2011.
121. Sylt, Christian. "The Formula For Survival in F1" (<https://www.forbes.com/sites/csylt/2017/12/08/the-formula-for-survival-in-f1/>). *forbes.com*. Retrieved 29 April 2018.
122. Williams could sell F1 team as board announces £13m loss in 2019 and split from title sponsor (<https://www.formula1.com/en/latest/article.williams-could-sell-f1-team-as-board-announces-gbp13m-loss-in-2019-and-split.455wGjds3WOQf7gdSuqJRf.html>) *Formula1.com* 29 May 2020
123. "Williams GPT" (<https://www.chamois-consulting.com/press-release/williams-launches-new-company-to-solve-clients-engineering-challenges-with-f1-derived-innovation-and-pedigree/>). *Chamois agency*. 11 April 2024.
124. "FIA Formula 2 Website : The F2 Car" (<https://web.archive.org/web/20090106122432/http://www.formulatwo.com/f2carthef2car.aspx>). Archived from the original (<http://www.formulatwo.com/f2carthef2car.aspx>) on 6 January 2009. Retrieved 19 February 2009.
125. "BMW wins at Le Mans" (<https://web.archive.org/web/20070928025519/http://www.autosport-atlas.com/article.asp?id=6423>). *Autosport*. 13 June 1999. Archived from the original (<http://www.autosport-atlas.com/article.asp?id=6423>) on 28 September 2007. Retrieved 14 November 2006.
126. "Williams Supports Jaguar's Return to Racing" (<https://web.archive.org/web/20151217011830/http://www.williamsf1.com/advanced-engineering/news/williamssupportsjaguarreturntoracing>). 15 December 2015. Archived from the original (<http://www.williamsf1.com/advanced-engineering/news/williamssupportsjaguarreturntoracing>) on 17 December 2015. Retrieved 15 December 2015.
127. "Williams wins Formula E Gen3 battery contract" (<https://www.motorsport.com/formula-e/news/williams-advanced-engineering-gen3-battery-supply/4818863/>). 1 July 2020. Retrieved 1 July 2020.
128. Conesa Sagrera, Jan (3 April 2015). "The CAR Top 10: F1 safety cars" (<http://www.carmagazine.co.uk/features/top-10s/the-car-top-10-f1-safety-cars/>). *Car Magazine*. Retrieved 25 August 2021.

129. Gaillard, Fabien (8 May 2020). "Gallery: History of safety cars in Formula 1" (<https://www.motorsport.com/f1/news/gallery-safety-cars-history-mercedes/4776936/>). *Motor Sport*. Retrieved 25 August 2021.
130. "Porsche GT3R Hybrid "2.0" takes top honours in Germany" (<https://web.archive.org/web/20111205034131/http://www.williamshybridpower.com/news/36-press-releases/119-whp-contracts-with-porsche-ag-for-911-gt3-r-hybrid>). WHP. 28 May 2011. Archived from the original (<http://www.williamshybridpower.com/news/36-press-releases/119-whp-contracts-with-porsche-ag-for-911-gt3-r-hybrid>) on 5 December 2011. Retrieved 23 August 2011.
131. "INSIGHT: Williams battery technology" (<https://web.archive.org/web/20160914230031/http://fiaformulae.com/en/media/video-galleries/insight/insight-williams-battery-technology/>). 31 October 2014. Archived from the original (<http://fiaformulae.com/en/media/video-galleries/insight/insight-williams-battery-technology/>) on 14 September 2016. Retrieved 6 September 2016.
132. "A new all-electric hypercar powered by Formula E-tech: Vanda's Dendrobium" (<https://electrek.co/2017/03/07/all-electric-hypercar-formula-e-vanda-dendrobium/>). 7 March 2017. Retrieved 7 March 2017.
133. "Jaguar C-X75: Exorcising the ghost of Spectre | Classic & Sports Car" (<https://www.classicandsportscar.com/features/jaguar-c-x75-exorcising-ghost-spectre>). *www.classicandsportscar.com*. Retrieved 19 December 2020.
134. "Williams cuts losses as revenues accelerate" (<https://www.bbc.com/news/business-34149398>). *BBC News*. 4 September 2015.
135. Jack Cozens (2 May 2019). "Williams Advanced Engineering to supply E TCR series with batteries" (<https://www.autosport.com/wtcr/news/143121/williams-to-supply-e-tcr-series-with-batteries>). *Autosport*.
136. "Fortescue: Firm owned by Australia's richest man buys Williams F1 battery arm" (<https://www.bbc.co.uk/news/business-60106871>). *bbc.co.uk*. 24 January 2022.
137. Vaughan, Tina (3 January 2023). "WAE Technologies: All new branding for Williams Advanced Engineering" (<https://wae.com/wae-technologies-all-new-branding-for-williams-advanced-engineering/>). *WAE*.
138. "GKN Acquires Williams Hybrid Power" (<https://web.archive.org/web/20140410045310/http://williamsf1.com/Investors/Investors-News/GKN-Acquires-Williams-Hybrid-Power/>). Williams F1. 1 April 2014. Archived from the original (<http://williamsf1.com/Investors/Investors-News/GKN-Acquires-Williams-Hybrid-Power/>) on 10 April 2014. Retrieved 2 January 2015.
139. "Hall of Fame – the World Champions" (<http://www.formula1.com/content/fom-website/en/championship/drivers/hall-of-fame.html>). Formula One Management. Retrieved 27 July 2015.

## Sources

- [grandprix.com](http://www.grandprix.com/gpe/con-willi.html) (<http://www.grandprix.com/gpe/con-willi.html>)
- [formula1.com](https://web.archive.org/web/20060101025036/http://www.formula1.com/insight/team/4.html) (archive) (<https://web.archive.org/web/20060101025036/http://www.formula1.com/insight/team/4.html>)
- [castrol.com](https://web.archive.org/web/20120906185455/http://www.castrol.com/castrol/managedlistingsection.do?categoryId=8262008&contentId=7014635) (<https://web.archive.org/web/20120906185455/http://www.castrol.com/castrol/managedlistingsection.do?categoryId=8262008&contentId=7014635>)

*Williams History (1967–2000) Taken from:*

- [Williams Team History 1967–77](http://www.f1network.net/main/s107/st4062.php) (<http://www.f1network.net/main/s107/st4062.php>)
- [Williams Team History 1977–88](http://www.f1network.net/main/s107/st4063.php) (<http://www.f1network.net/main/s107/st4063.php>)
- [Williams Team History 1996–2000](http://www.f1network.net/main/s107/st4065.php) (<http://www.f1network.net/main/s107/st4065.php>)



- [Williams Team Profiles \(http://www.williamsf1.com/racing/about/our-people\)](http://www.williamsf1.com/racing/about/our-people) Archived (<http://web.archive.org/web/20150314194140/http://www.williamsf1.com/racing/about/our-people>) 14 March 2015 at the [Wayback Machine](#)

*All Formula One race and championship results are taken from:*

- [Formula1.com – 1975 – present Archive \(https://web.archive.org/web/20061029043331/http://www.formula1.com/archive/team/detail/1975/4/92.html\)](https://web.archive.org/web/20061029043331/http://www.formula1.com/archive/team/detail/1975/4/92.html). Retrieved 12 July 2006

## External links

---

- [Official website \(https://www.williamsf1.com\)](https://www.williamsf1.com)
- 

Retrieved from "[https://en.wikipedia.org/w/index.php?title=Williams\\_Grand\\_Prix\\_Engineering&oldid=1242714983](https://en.wikipedia.org/w/index.php?title=Williams_Grand_Prix_Engineering&oldid=1242714983)"

▪