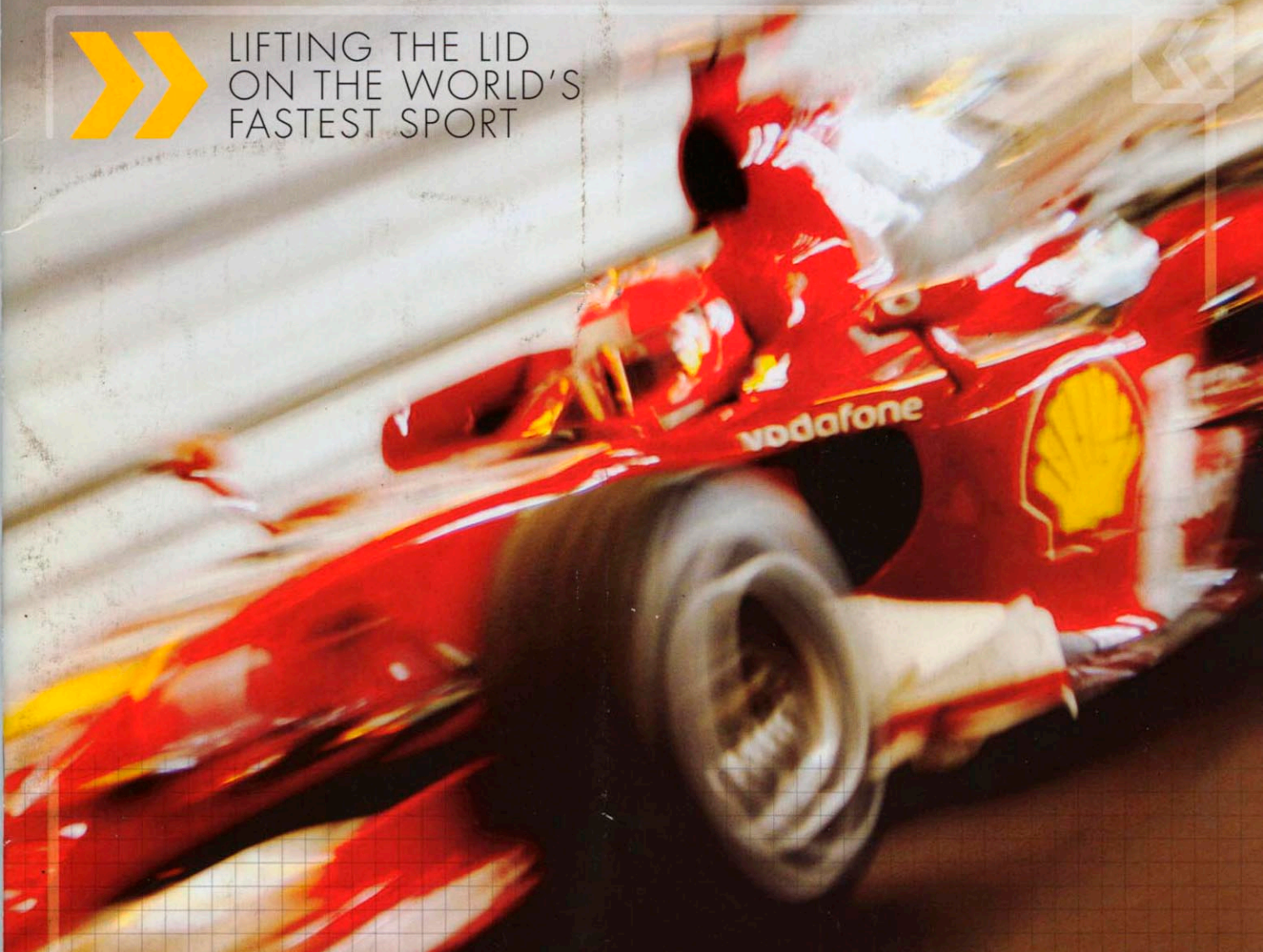


HOW AN F1 CAR WORKS



LIFTING THE LID
ON THE WORLD'S
FASTEST SPORT



STEERING › TYRES › SUSPENSION › CHASSIS › GEARBOX ›
AERODYNAMICS › ENGINE › ELECTRONICS › HYDRAULICS › BRAKES

» INTRODUCTION

How does a Formula 1 car work? From nose to rear wing, the latest groundbreaking technology is used to ensure the quickest ride possible. In the following pages, Shell takes you under the skin of the modern F1 car, exploring the hi-tech engineering that enables drivers to maintain control at breathtaking speeds. From steering and suspension to aerodynamics and engine output, discover how every element of the car is geared to achieving optimum execution on race day and how advances on the race track are also delivering significant performance benefits on the road.



1 STEERING › TYRES › SUSPENSION

It takes more than a good engine to achieve success in F1. Steering can be calibrated to meet the demands of different circuits, high-performance tyres keep the car glued to the track, while suspension systems handle high-speed bumps for more than 90 minutes.

2 AERODYNAMICS › CHASSIS

Creating a successful aerodynamic package costs F1 teams millions of pounds each season, but it has the potential to save up to half a second on every lap. The lightness and strength of carbon fibre chassis, meanwhile, have revolutionised the sport.

