

Car Types & Makers' Cutaways

Mumfordebooks Eagle strip PDF eBook

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Petrol-Diesel-Electric
High Carbon to Low Carbon



The Mini is a small economy car produced by the English-based British Motor Corporation (BMC) and its successors from 1959 until 2000. BMW owns the brand, all MINI Cooper's are made in Britain



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Originally **The Eagle Comic** from the **1950 to 1969**, more illustrated wallcharts to follow.

A3 Wallcharts FREE to Teachers, only pay P&P

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Car Types & Makers' Cutaways

28 of 50 matched double centers

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27 The Cloisters

Rhos-on-Sea

Colwyn Bay

Conwy LL28 4PW

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Introduction to Good design:

Mumfordebooks Car Types and Makers' Cutaway Illustrated: A selection of matched and paired Eagle Centres showing civil and Social history from the pioneers to the late sixties. Examples, range from private, commercial and public have been updated in 2020 . Each download is great value, yours for FREE. Each download can be printed to A4 size, not big enough to read all the original text and technical fine detail. **(Teachers can apply to have A3 wallcharts printed for FREE, P&P at Royal Mail Rates).**

The first issue of Eagle Comic's was released in April 1950.

Revolutionary in its presentation and content, it was enormously successful, the first issue sold about 900,000 copies. Featured in colour on the front cover was its most recognisable story, Dan Dare, Pilot of the Future, created by Hampson with meticulous attention to detail. Other popular stories included Riders of the Range and P.C. 49, news and sport sections, and educational cutaway diagrams of sophisticated machinery.

Children's comics usually contained a mixture of adventure stories, presented as text rather than strip cartoons. Some British boys were buying American horror comics produced for G.I.s. Morris was impressed by the high standard of artwork in the US magazines, but disgusted by their content, which he described as "deplorable, nastily over-violent and obscene contents.

These educational cutaway diagrams of machinery were the best professional knowledge-based information ever produced. Each full colour drawing showed how the latest complicated industrial processes worked; in the Air, on Land or Sea. Each section would show types of aircraft and all their working parts. On land from Sport-cars to Land-rovers, Lorries to Trains. On the sea from Lifeboats to Oil-tankers. More complicated technologies like Runways and Airports, Motorways, National Grid, Coal Mines, Power Lines, Generation of Electricity, Telephone Exchanges and much more. A gold mine of information and understanding specially paired to give the maximum visual impact. It may be nearly 70 years ago that the first centrespreads were published. Fashions have dated, like a classic car like the Morgan, still British made, sold to an Italian company, lives on. A good design that functions well, adding new materials, electronics and a computer controller, you can be bang up-to-date, high carbon to low carbon foot-print and still be of service, to enjoy.

Continued next page:

Introduction to Good design

whether it's for a Car or Chair

must have the ability to improve the lives of others. Have a long usable life, in time the car might become a collectors' item. The chair if well-made and functional become an antique and piece of beauty, with added value.

Study and develop your **judgement of perspective, proportion, pattern, purpose/function and colour**. Use *this hyperlink*:

<https://www.mumfordbooks.com/product-category/uncategorised/architecturearthistory/>

Your Mantra: is a motivating chant, like the “I think **I can**, I think **I can**” you repeat over and over to yourself.

To solve and identify any problem is to make the right directional choice, to have tenacity not to give up. Any good design whether it's for a Car or a Chair, must have the ability to improve the lives of others. Have a long usable life, in time the car might become a collectors' item. The chair if well-made and functional become an antique and piece of beauty, with added value. Study and develop your judgement of **perspective, proportion, pattern, purpose/function and colour**. Evolution in nature's colours in pigmentation is there to protect and visually attract attention. So as in nature each electro-mechanical part should be like HOW the human heart operates. How many beats does a human heart have in a lifetime? Answer: **Humans** have on average a heart rate of around 60 to 70 **beats** per minute, give or take. We live roughly 70 or so years, giving us just over 2 billion **beats** all up. Chickens have a faster **heart** rate of about 275 **beats** per minute and live only 15 years. On balance, they also have about 2 billion **beats**.

Then, let your imagination and creativity run wild to create something innovative should be well considered. Design for a web site platform for example is to “Sell and Promote”, make it the BEST in its category, stand out in its class, ahead from the competition, add added value, style and reliability. Put side by side with world beating competition, should win hands down on every feature of operation including long reliable life whether it's a bicycle or motorbike. **Environmental health** is in part the exposure to toxic carbon chemicals and how they impact human **health**. All engine manufacturers will have to **design battery-electric** or **hydrogen** fuel cell electric engines by 2040.

We must plan for our future now, **Sustainability** focuses on meeting the needs of the present without compromising the ability of future generations to meet their needs. The concept of **sustainability** is composed of five pillars:

science & technology, economic, environmental, and social.

Always aim to do your BEST, nothing else will do.

Editor: **Michael Robert Mumford**

Content: **Eagle** = Cutaway

- 1 Front Cover – Eagle British Made Mini
 - 2 Publisher – Mumfordebooks.com
 - 3 Introduction to Good Design
 - 4 Design Examples
 - 5 Content – Eagle = Cutaway
 - 6 Early Steam Road Vehicles
 - 7 3-Wheeler Motorcar Maker
 - 8 Morgan Motor Cars
 - 9 Morgan goes Italian
 - 10 Morgan goes Bonomi
 - 11 Volkswagen Beetle Type 1938 until 2020
 - 12 Cars from 1927 to 1953
 - 13 1-Horse to 1000's of Horse-Power
 - 14 rich man's Racing Cars Babs
 - 15 Owen Wyn Owen (1925 – 2012)
 - 16 British Motor Corporation 1959-68
 - 17 Eagle Daimler Car of 1897 to Austin Healey 1960
 - 18 Eagle British Family Car of 1958
 - 19 Eagle Triumph Mayflower & Vauxhall
 - 20 Eagle Triumph Herald Saloon
 - 21 Eagle Austin-Rover & Royal Two-Seater Daimler
 - 22 Eagle Aston Martin D.B.2 & Transporter
 - 23 Eagle Lotus Elite & Testa Rossa
 - 24 Eagle M.G. Midget & Cooper-Climax V8
 - 25 Eagle Grand Prix Car & The Formula Junior Stanguellini
 - 26 Eagle Lotus Mark IX and Lotus Fifteen
 - 27 Eagle Skoda 1100 vs Testa Rossa
 - 28 Eagle Competition & Racing & Formula II
 - 29 Eagle 2 Racing Cars & The Formula 2
 - 30 Eagle Maserati 2000 Sport Car & Austin Healey 100
 - 31 Eagle Lola Two-seater Sports & Cooper 1100 Racer
 - 32 Eagle Mercedes-Benz & Cooper Monaco Sports
 - 33 Eagle Frazer-Nash Targa Florio & The Connaught
 - 34 Eagle Ferranti Dino 246 & The Belond A.P. Special
 - 35 Eagle Vanwall & The Renault Shooting Star
 - 36 Eagle Allard J.2.X & The XK 120 C Type Jaguar
 - 37 Eagle Aston Martin DBRI-300 & Aston Martin DB3S
 - 38 Eagle Austin Healey 100 & Bentley Continental
 - 39 Eagle 1939 Mercedes-Benz Type W.163 Record-Breaking M.G. Ex179
 - 40 Eagle World Record-Breaking Cars Bluebird 7
 - 41 Eagle Connaught B-Type & 1.5 Litre Car World Speed Record
 - 42 Eagle The N.S.U. Record-Breakers & Black Lightning Special
 - 43 first Triumph-branded bicycles in 1889
 - 44 Triumph Motorcycles (Hinckley) Ltd
 - 45 A motorbike well-made and functional design
 - 46 Eagle Greeves Scottish Trails Mode & Ariel Leader
 - 47 Eagle B.S.A. B34 Gold Star & Special Norton T.T. Racing
 - 48 B.M.W. Isetta & Lambretta 125 Motor Scooter
 - 49 Good design **Mantra** whether it's for a whole Car or a single Chair
 - 50 Eagle Comic Educational Series for Kids and Teachers
- <https://www.mumfordbooks.com/product-category/downloads/>

28 Eagle Cutaways of 50 Page Index: Car & Motorbikes

Early Steam Road Vehicles, Fuelled by Wood, Coal, Electricity & Petroleum

All with High Carbon-Footprints

Nicolas Joseph Cugnot 1774



Columbia Electric Coach

1899-1910



Columbia Victoria Stagecar 1906



Ford Premier Model-F 1904



2020-40 Global-Green-Age-Low-Carbon-Footprint

The Future is Low Carbon Foot-Print: Long Life Radioactive Waste (high cost of storage).

Clean Electricity Energy, and **Nuclear Power** Estimates for the Period up to 2040, the projection has global **nuclear generating** capacity increased to 641 GWe. **Hydro-Electricity** increased from 2 to 17%, and 70% of all renewable electricity, is expected to increase by about 3.1% each year for the next 25 years.

Wind Power up to 50 Gwe and Solar Power 14Gwe in 2020.

Photoelectrochemical water splitting, the process by which light energy is used to split water molecules into hydrogen and oxygen is a promising approach to **obtain pure hydrogen for use as an alternative clean fuel**.

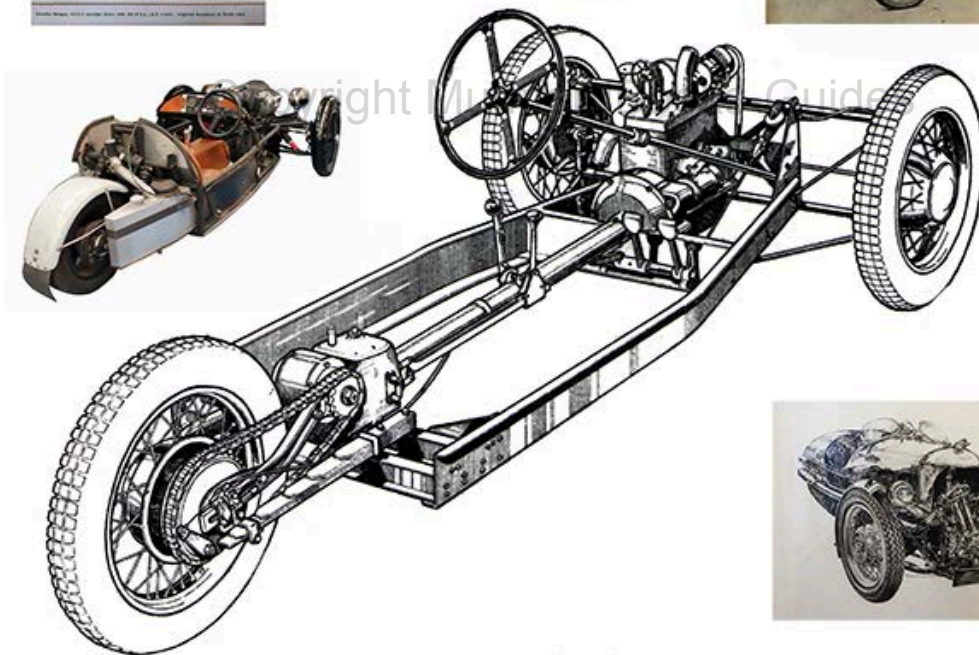
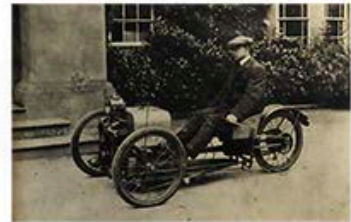
Britain's Oldest Motorcar Maker, Grow's Bigger and Better

1910-1939 Three-Wheel Morgans 1949-2020



THE FOUR-CYLINDER MORGAN—

—shown below, has a sturdy pressed steel chassis-frame. A two-cylinder chassis is also made, but this is of tubular construction. The manner in which the three-speed and reverse gearbox is mounted on the two-cylinder chassis



British Motor-cars © Mumfordebook.com

All the cars are manufactured using three core elements:
ash, aluminium and leather, which are functional as well
as traditional.

Morgan Motor Co., Malvern, GB

Home to Family Owned Business for 110 Years

Has become majority owned by an Italian venture capital group Investindustrial 2019, which is backed by businessman Andrea Bonomi.



Founded in 1909, Morgan continues to hand-build premium sports cars with a classic design in its historic factory in Malvern, which is visited by more than 30,000 enthusiasts each year.

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Morgan Barrel Back 3 Wheeler Sports Car 1937



Founded in 1909, Morgan continues to hand-build premium sports cars with a classic design in its historic factory in Malvern, which is visited by more than 30,000 enthusiasts each year. Well worth a conducted tour, see how each car is built.

Morgan Motor Co., Malvern, GB

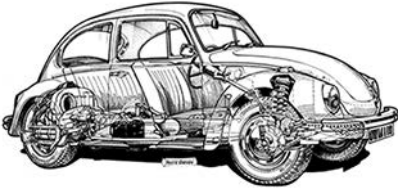
Home to Family Owned Business for 110 Years
Has become majority owned by an Italian venture capital
group Investindustrial 2019,
which is backed by businessman Andrea Bonomi.



Still making Morgan classics from the 30's. Handmade and assembled by a team of 200 craftsman to the highest quality standards. Their range of model styles follow tradition to special, whatever the customer wishes. Choice of engines, body shape and colour, their carbon foot-print may be high. With future technology the green sports car will and should be all electric to enjoy, only 20 years away.

Volkswagen Beetle Type 1 1938 until 2003

The first Volkswagen, and one of the first rear-engined cars since the Brass Era. With 21,529,464 produced, the Beetle is the longest-running and most-manufactured car of a single platform ever made.



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From 1938 until today we have are GREEN powered Beetle the Mini Cooper SE-BMW Mini Electric 135 kW (181 HP) 2020.

Tomorrow we have a new GREEN AGE to slow down climate warming.

Help to make clean healthy AIR to breath, work, play and enjoy.

Most of us will have to save up for the next twenty years.

Cars from 1927 to 1953,

Almost every car was painted black, today you can have a rainbow of colours to choose from.



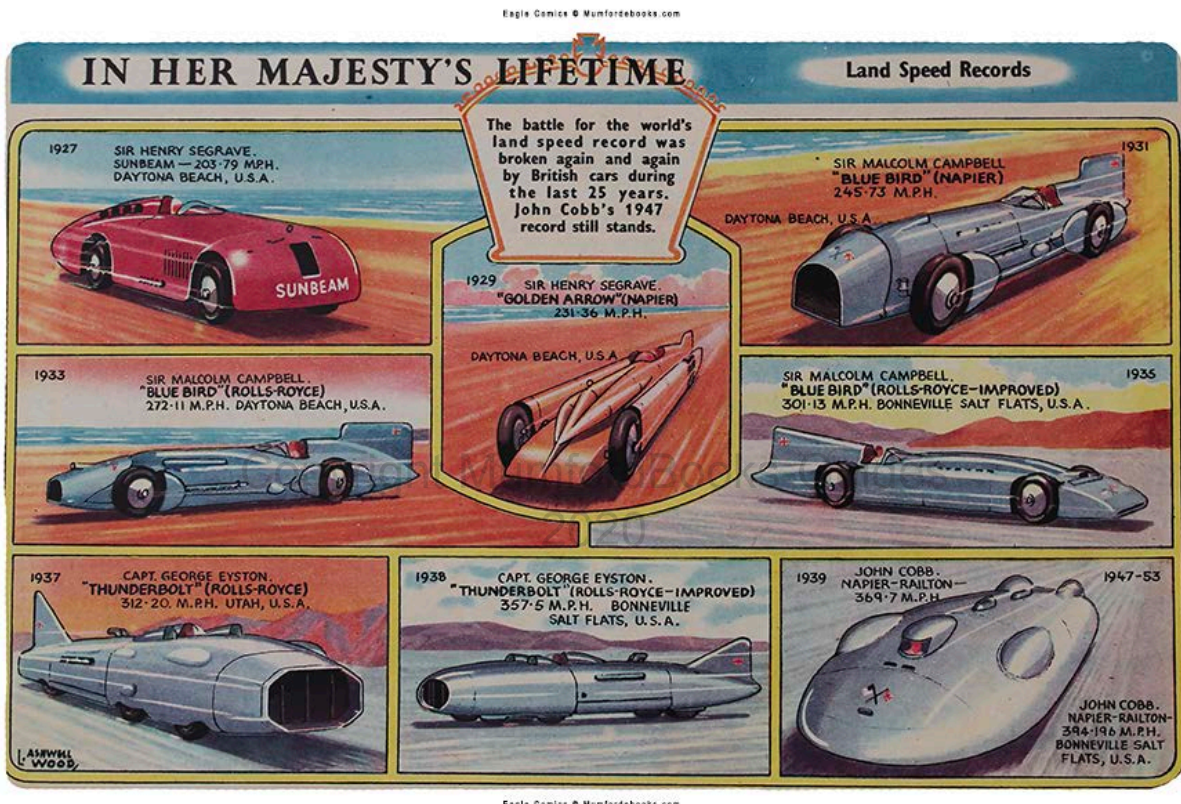
The design of cars and their engines just got bigger and faster.

Where passengers when from 2, 4, 6, & 8 to 50 called a Charabanc an early motor coach, usually open-topped, common in Britain during the early part of the 20th century. It has "benched seats arranged in rows, looking forward, commonly used for large parties, whether as public conveyances or for excursions." It was especially popular for sight-seeing or "works outings" to the country or the seaside, organised by businesses once a year. The name derives from the French *char à bancs* ("carriage with wooden benches").

The vehicle having originated in **sustainability** focuses on meeting the needs of the present without compromising the ability of future generations to meet their needs.

The concept of **sustainability** is composed of three pillars: economic, environmental, and social France in the early 19th century.

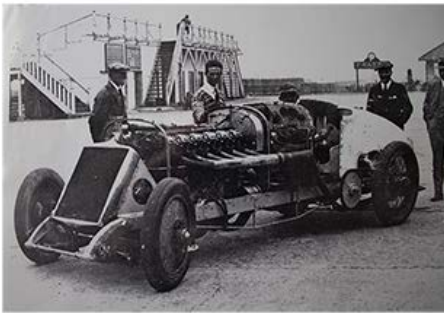
From the Power of one Horse to 1000's of Horse-Power



The current holder of the Outright **World Land Speed Record** is ThrustSSC, a twin turbopfan jet-powered **car** which achieved 763.035 mph - 1227.985 km/h - over one mile in October 1997. This was the first supersonic **record** as it broke the sound barrier at Mach 1.016.

Rich man's Racing Cars 1900-1930's

Developed by Competitions and over-land trails like
from Europe, Russia, China and Pacific Coast
Count Zborowski was Bab's first owner 1924

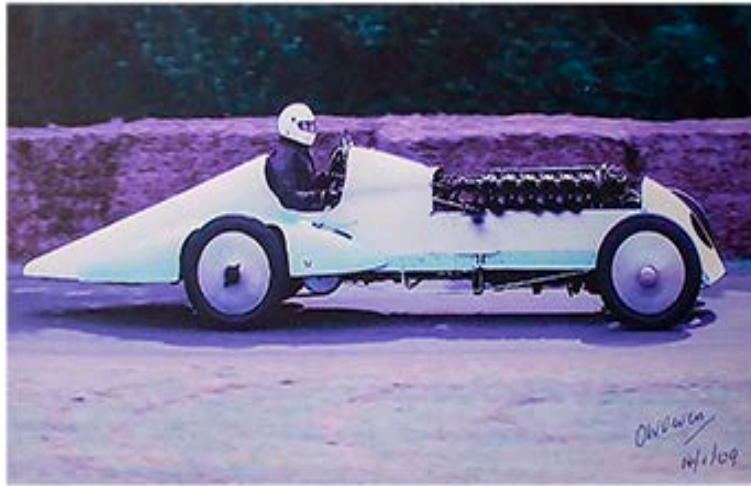


We start our story in 1927 with **John Godfrey Parry-Thomas** owner racing-driver-owner's last racing attempt at Pendine Sands, Wales. The sand is very fine-grained, and the beach is surprisingly flat and suitable for making land speed records. The result of the first run was over 300 km/h (186 mph). On the second run suddenly the car veered to the left and caught fire, the driver was carried away dead.

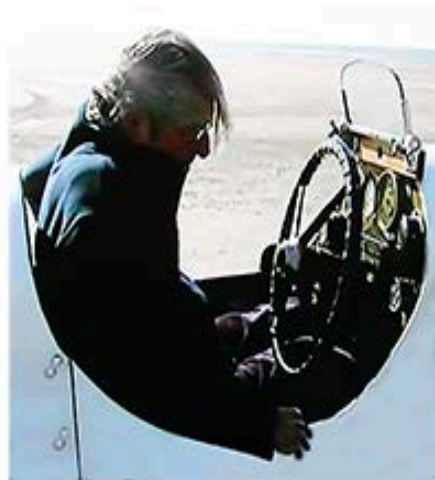
Owen Wyn Owen is my Welsh-Wizard, a man of many talents, master engineer and restorer of old cars. After years of trying to get permission to locate the buried Bab's, Owen, succeeded in recovering what remained of the whole car, including a whole wheel with tire still inflated 42 years later.

Owen Wyn Owen (1925 – 2012)

A **Welsh-Wizard** and automobile restorer with many mechanical achievements. He died in March 2012.



His most famous restoration project, which received worldwide attention, was to excavate and restore *Babs*, after 40 years buried on a tidal beach. "Babs" was the car that in 1927, driven by J. G. Parry-Thomas, whilst attempting the land speed record at the time (180 mph or 290 km/h), crashed and killed the driver. The car was buried where the accident occurred on Pendine Sands.



In 1967 Wyn Owen decided to excavate and restore *Babs*. The car was first successfully tested on The Helyg straight in the early 1970s and was later successfully demonstrated in front of the world press and television on an air field near RAF Valley, Anglesey.

The restoration work took place in Owen's garage in Capel Curig, and "Babs" is now displayed in the Pendine Museum of Speed during the summer months.

In 1999, Owen was awarded the Tom Pryce trophy, engraved with the words *Atgyfodwr Babs* (English: Resurrector of Babs).

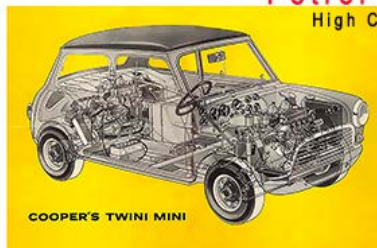
British Motor Corporation (1959–68)

British Leyland (1968–86) Rover Group (1986–2000)

BMW (2000 to date) Bayerische Motoren Werke AG, translated in English as Bavarian Motor Works, commonly referred to as BMW, is a German multinational company which produces automobiles and motorcycles.

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Petrol-Diesel-Electric
High Carbon to Low Carbon



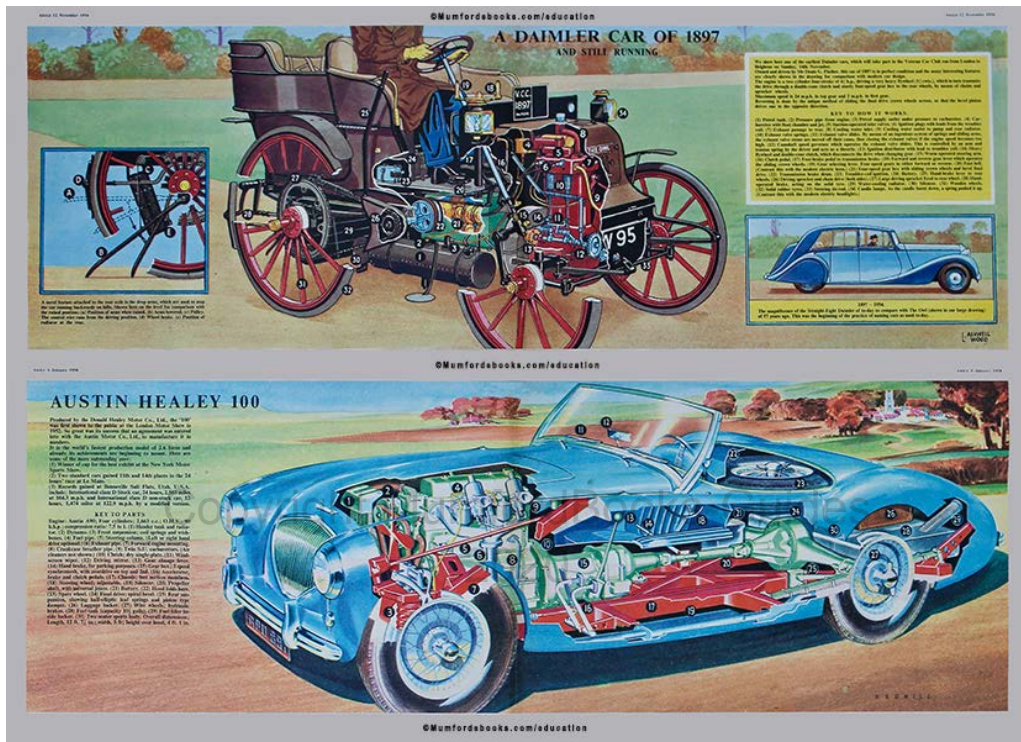
The Mini is a small economy car produced by the English-based British Motor Corporation (BMC) and its successors from 1959 until 2000. BMW owns the brand, all MINI Cooper's are made in Britain



The **Mini** is a small economy car produced by the English-based British Motor Corporation (BMC) and its successors from 1959 until 2000. The original is considered an icon of 1960s British popular culture space-saving transverse engine and front-wheel drive layout – allowing 80% of the area of the car's Floor pan to be used for passengers and luggage – influenced a generation of car makers. In 1999, the Mini was voted the second-most influential car of the 20th century, behind the Ford Model T, and ahead of the Citroën DS and Volkswagen Beetle.

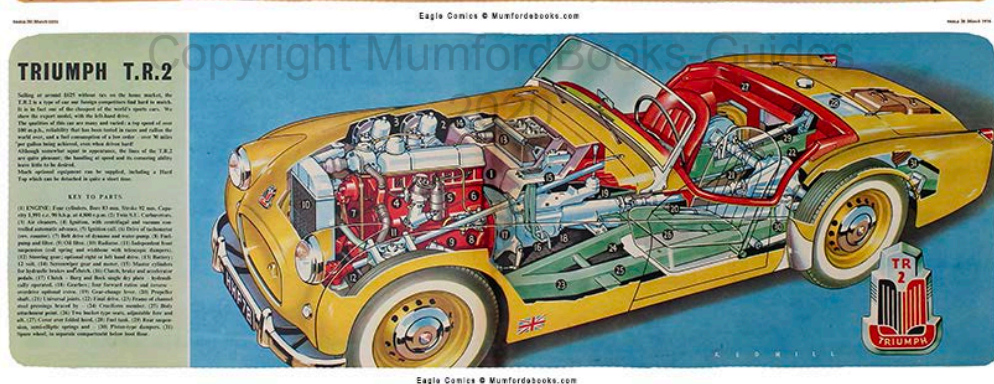
Eagle Cutaway Cars

Daimler Car of 1897 to Austin Healey 1960



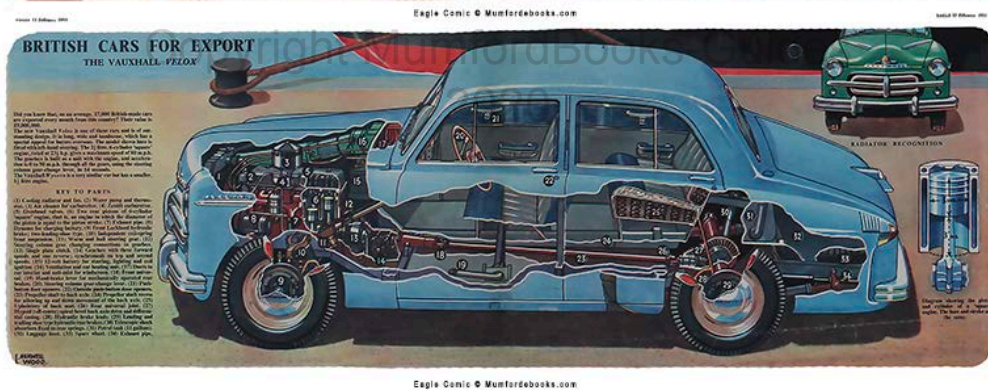
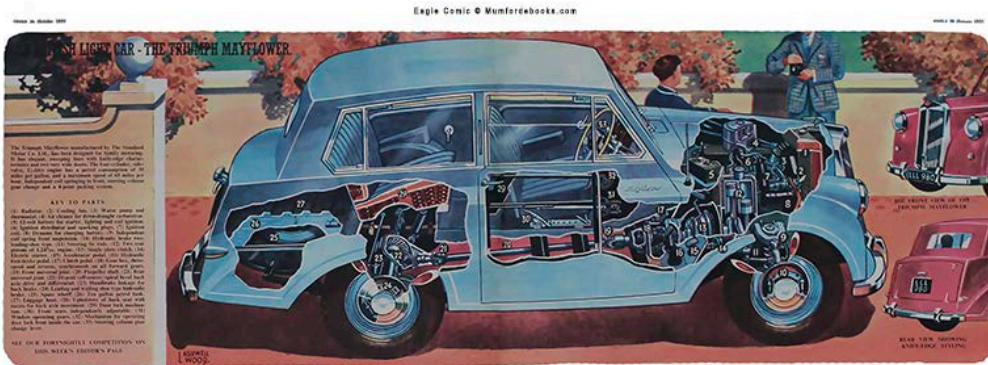
Both cars can be seen at car shows and rallies, still in working order. Car enthusiasts the world over meet annually and compete in racing. The most famous race is the **Brighton to London Veteran Car Run 2020**.

Takes place on the first Sunday in November since 1896, is considered the most beautiful retro car rally in the world. Spectacular cars from the end of the 19th century preserve the spirit of good old England,



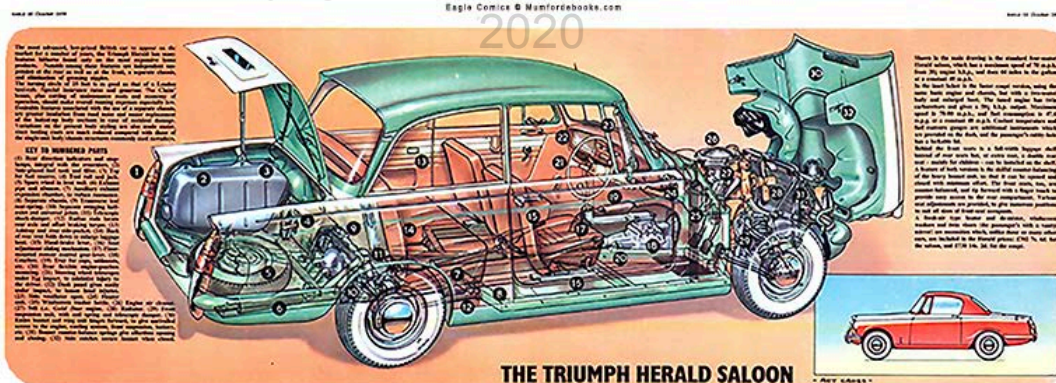
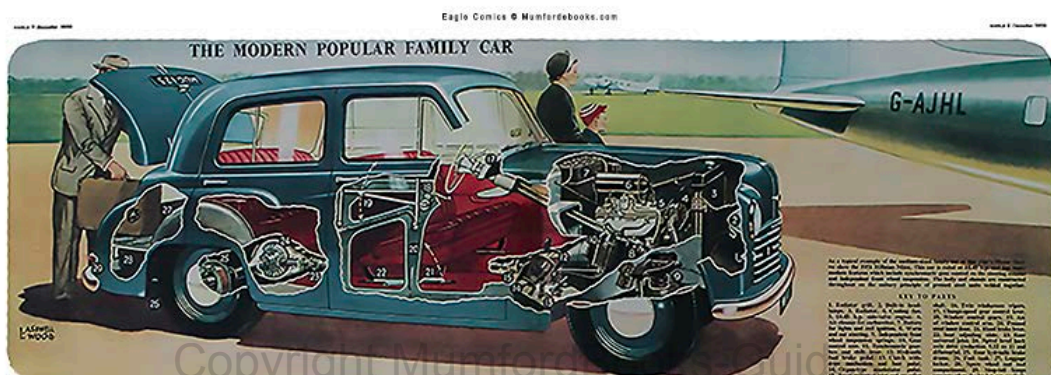
18

Triumph Mayflower & Vauxhall Velox



Car rides to the seaside, trips out to the country.
With improved roads and new Motorway and larger cars,
own's dreams may come true.

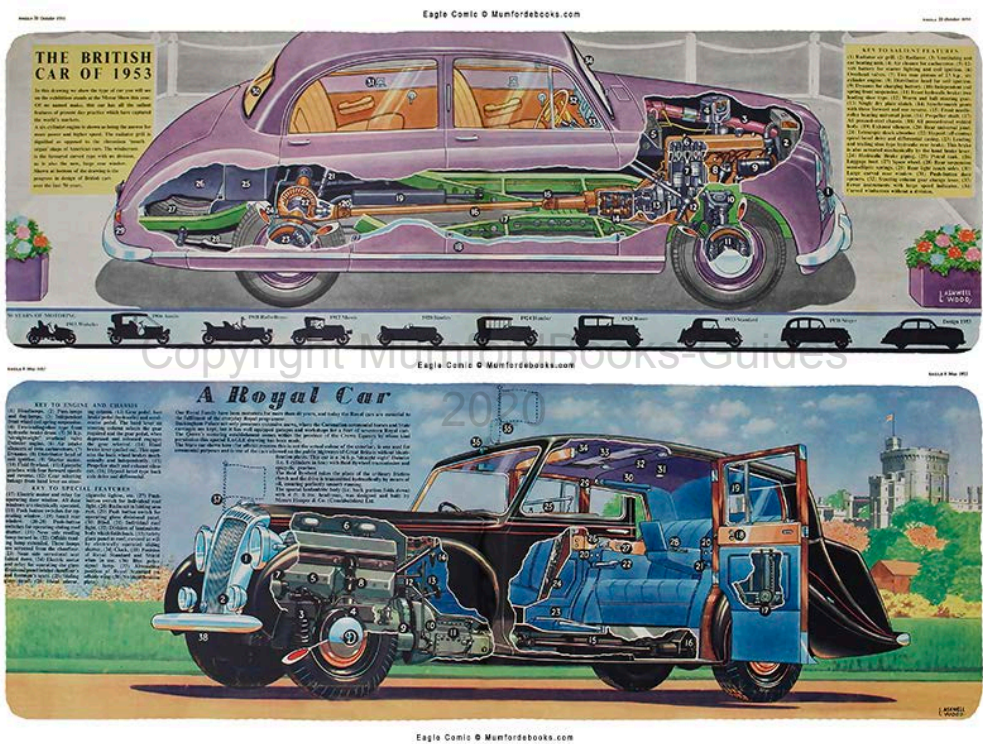
Popular Family Car & Triumph Herald Saloon



Car rides to the seaside, trips out to the country.
With improved roads and new Motorway and larger cars,
own's dreams may come true.

Austin-Rover Large Family Car

to a Royal Two-Seater Daimler



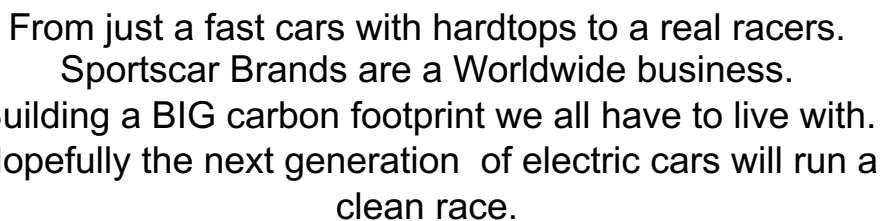
From small family run arounds to State Occasions. All cars were painted black, today the reverse is true.

The Aston Martin D.B.2.

Popular European Cars for all



The **Aston Martin DB5** is the most famous **Aston Martin** car due to its use by **James Bond** in **Goldfinger** (1964). Although Ian Fleming had placed **Bond** in a DB Mark III in the novel, the DB5 was the company's newest model **when** the film was being made.



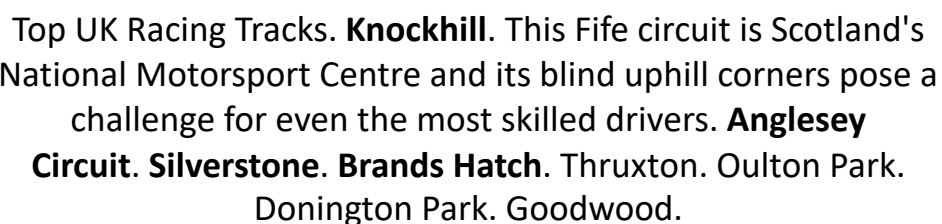
M.G. Midget and Whole Line will give the Cooper-Climax V8 a good run



When William Morris lent his surname to Morris Garages almost a century ago, he probably did not envisage the fate that would befall his subsequently abbreviated brand, MG.

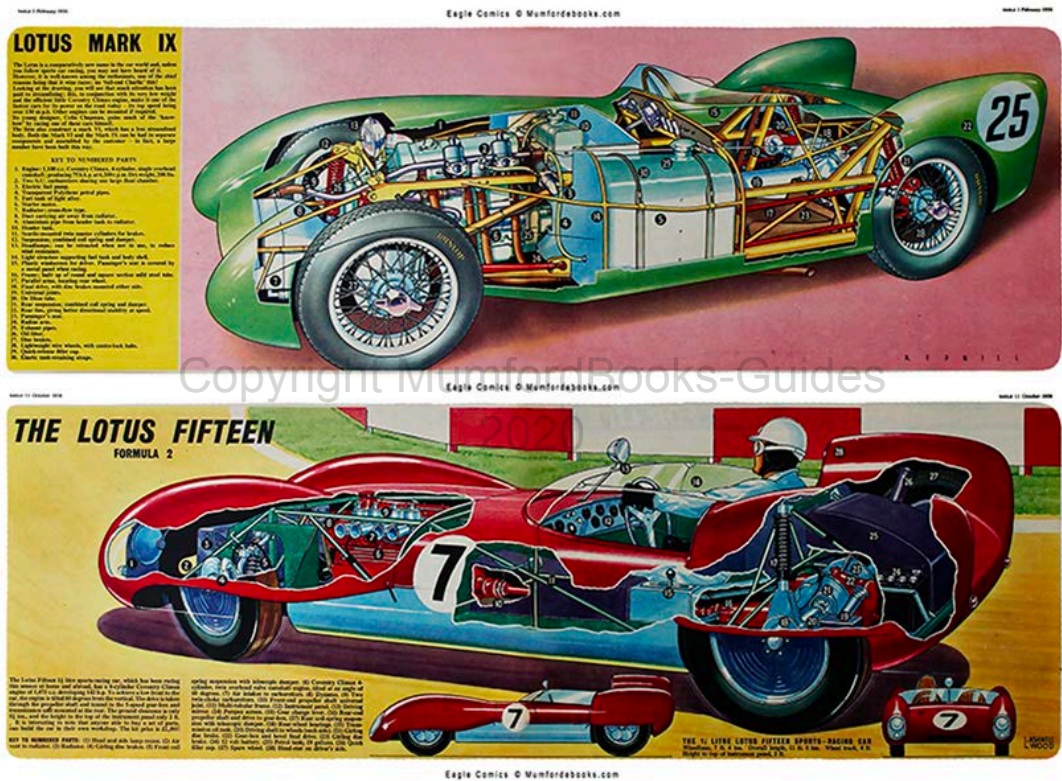
The whole family of M.G. Midget's from the M-type 1929-32,
C-type Monthery Midget 1931-32
PB Midget 1935-36
TF Midget 1954-55
MG Midget MkI (1961-64)
MG Midget MkII (1964-66)
MG Midget MkIII (1966-74)
MG Midget 1500 (1974-80)

The rights to those two famous letters are now owned by SAIC from China.



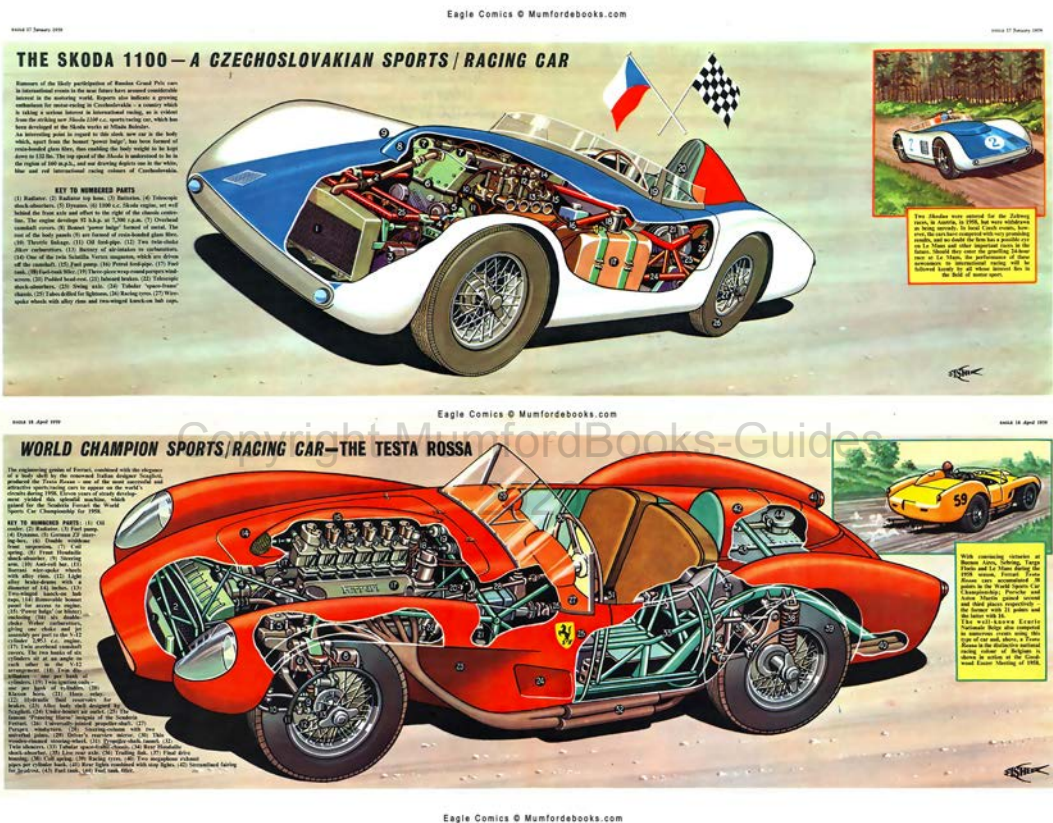
Lotus Mark IX

and Lotus Fifteen Formula 2

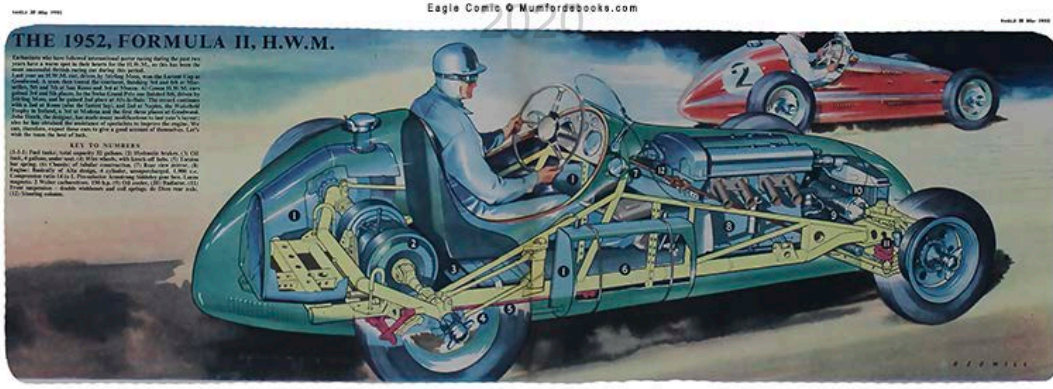


The FIA **Formula 2** Championship is a second-tier single-seater **racing** championship ... **Formula 2** mainly **races** on European **circuits**. But has appearances on other ... Sky Sports F1 show every practice, qualifying and **race** live in the **United Kingdom**, and so does Movistar F3 in Spain and Eleven Sports in Portugal.

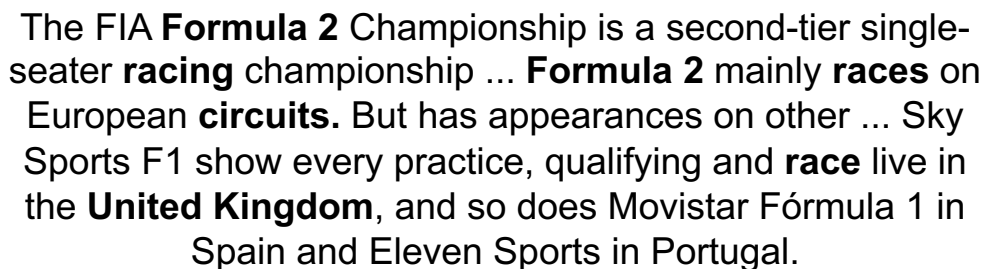
Skoda 1100 vs Testa Rossa Racing Car



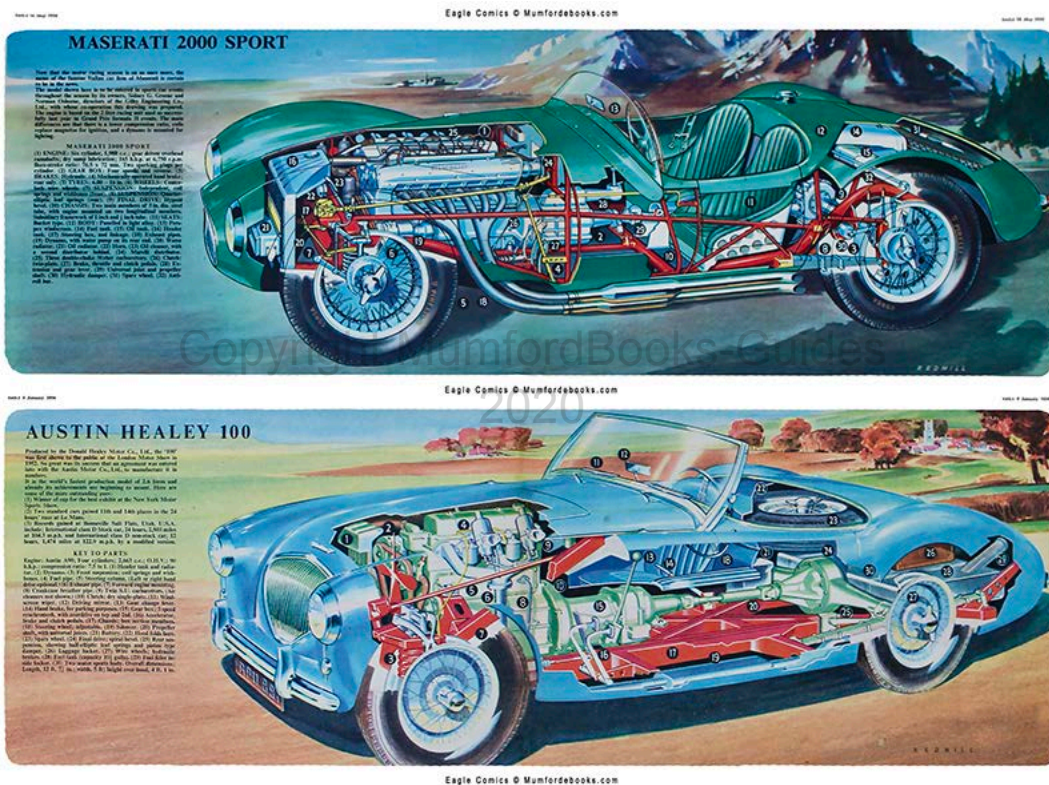
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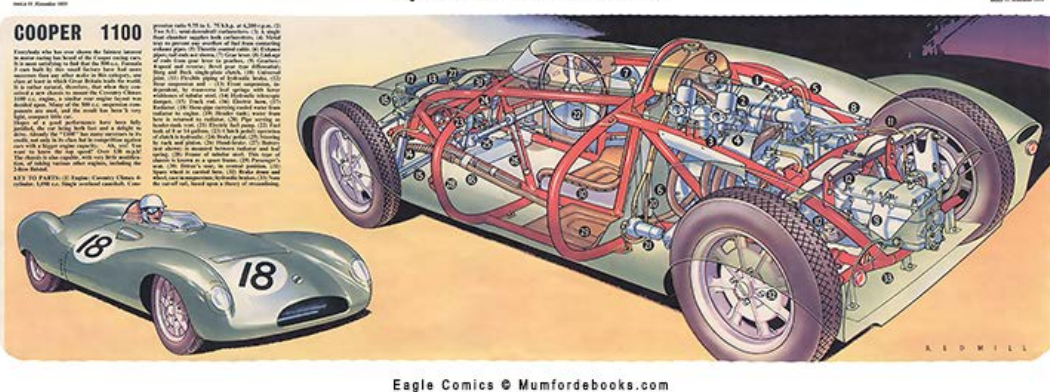
28



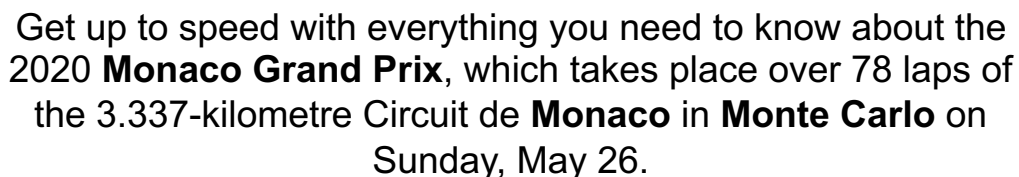
Maserati 2000 Sport Car & Austin Healey 100



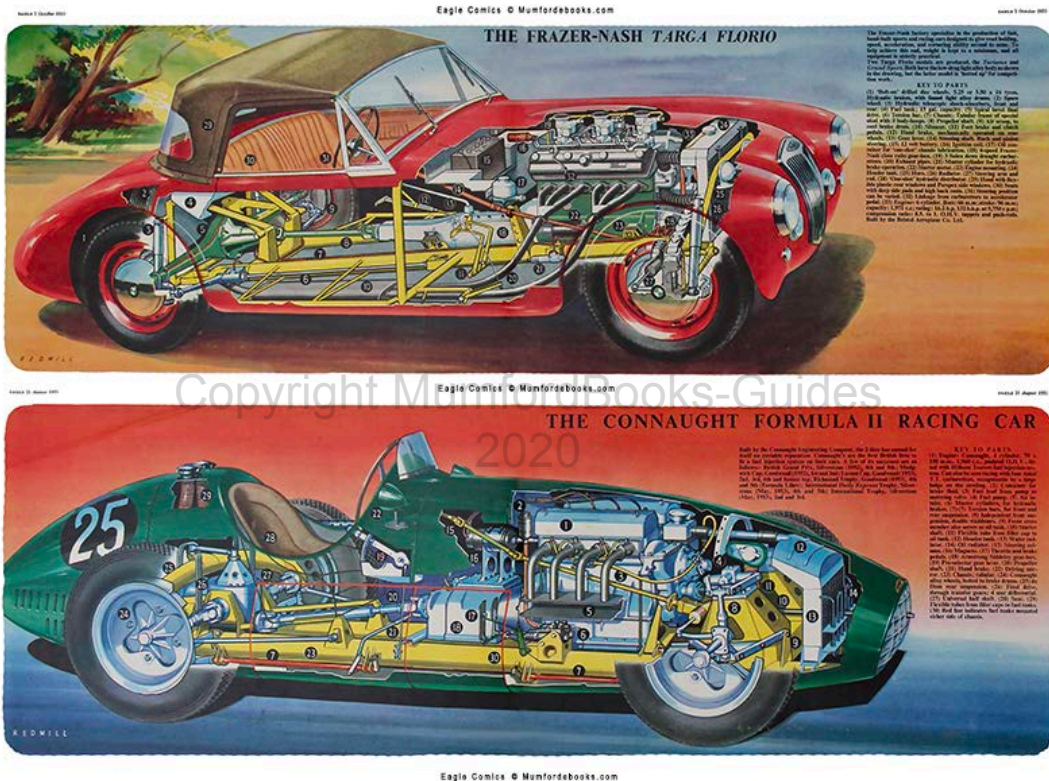
Get up to speed with everything you need to know about the 2020 **Monaco Grand Prix**, which takes place over 78 laps of the 3.337-kilometre Circuit de **Monaco** in **Monte Carlo** on Sunday, May 26.



31

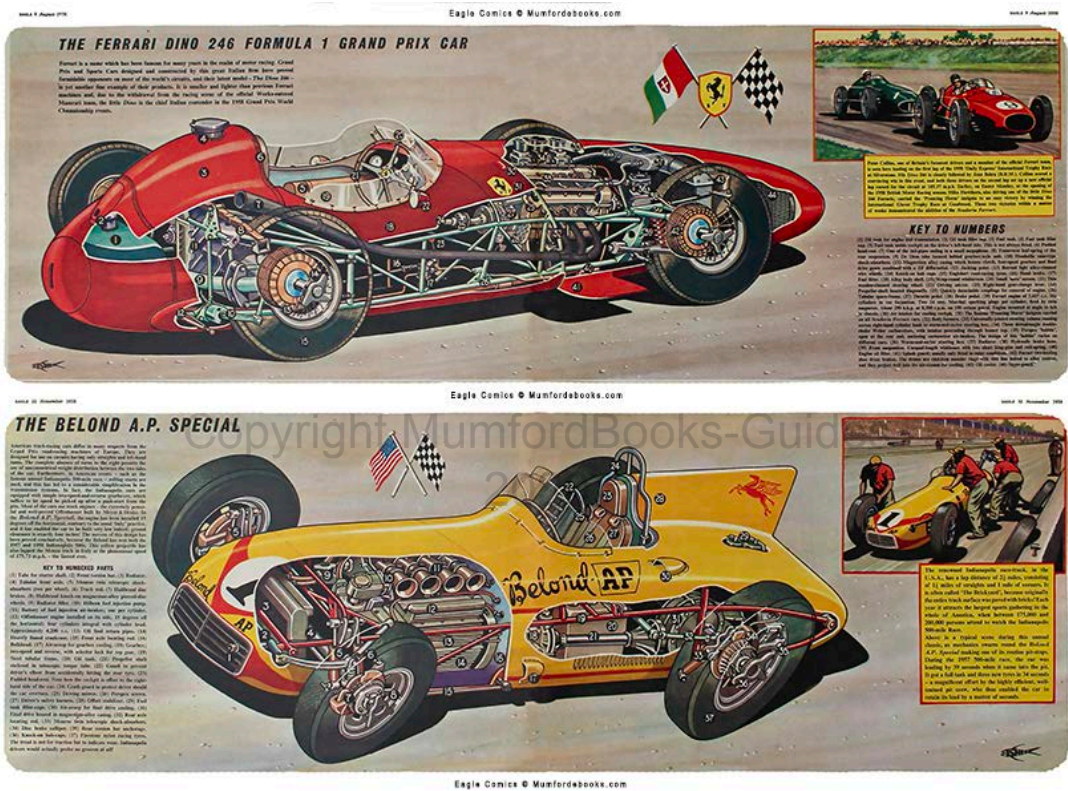


The Frazer-Nash Targa Florio & The Connaught Formula II Racing Car



A choice between fast public roads for pleasure or even faster speeds of a race track and time-clock.

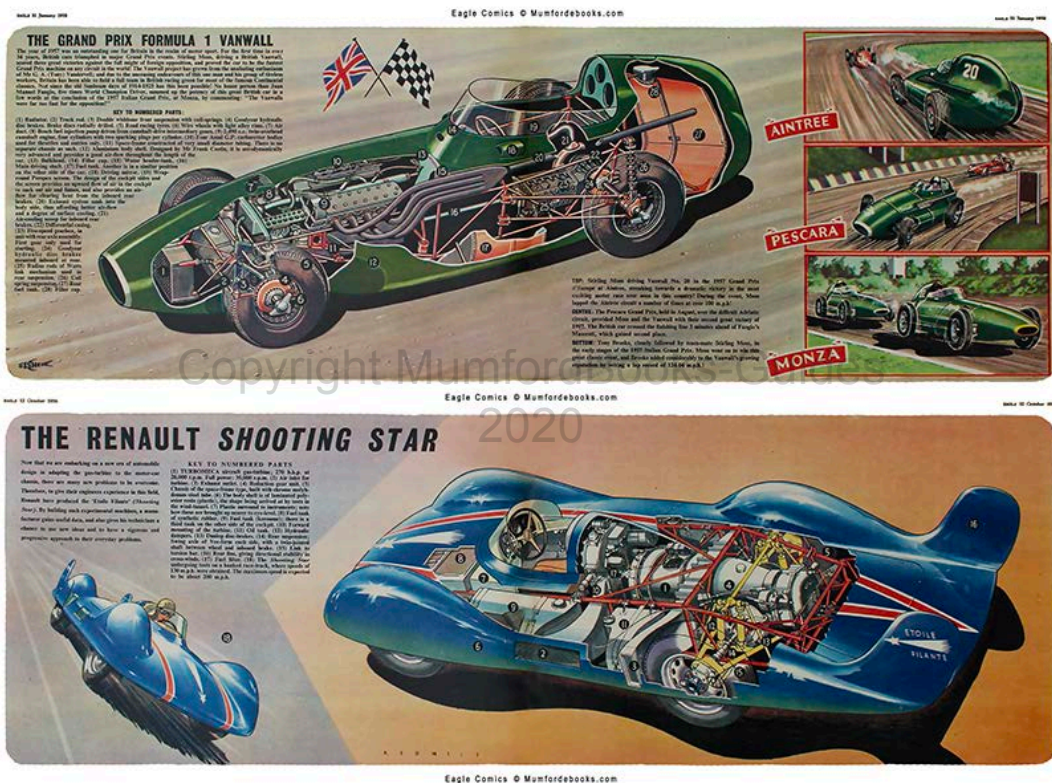
Ferranti Dino246 Grand Prix Car & The Belond A.P. Special



The European car manufacturers have always been strong in world markets. Together with North America.

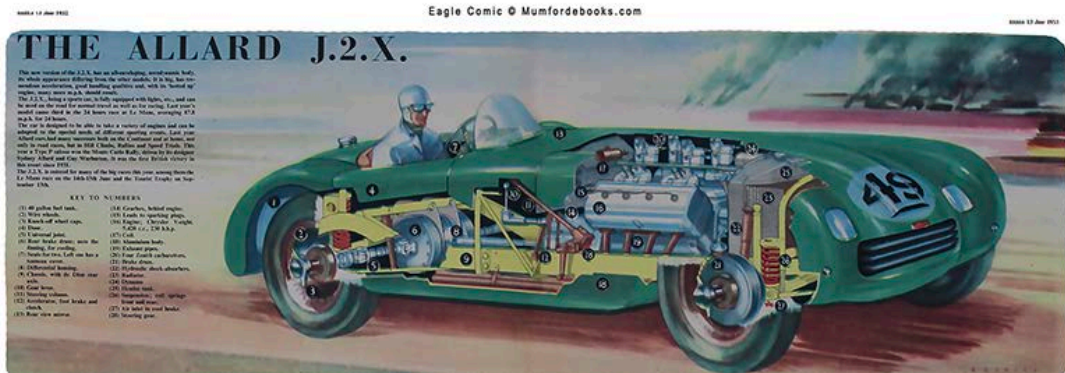
Since the second world war Japan, South Korea and now China are all making high quality cars. The world is full of exhaust gases, we must design cars with clean emissions. This will start to lower world rises in global temperatures.

The Grand Prix Formula Vanwall & The Renault Shooting Star



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The Allard J.2.X & The XK 120 C Type Jaguar



Get up to speed with everything you need to know about the 2020 Monaco Grand Prix, which takes place over 78 laps of the 3.337-kilometre Circuit de Monaco in Monte Carlo on Sunday, May 24. Using the links above you can find the full weekend schedule, including details of practice and qualifying sessions, support races, press conferences and special events, plus the latest news headlines, circuit information and F1 race results.

Aston Martin DBRI-300 & Aston Martin DB3S



The double seater Aston Martin DBRI 300 is a highspeed public roads show-off sports car. The DB3S power-wise the engine may be slightly bigger the aerodynamics would make it faster on the racetrack

Austin Healey 100 & Bentley Continental

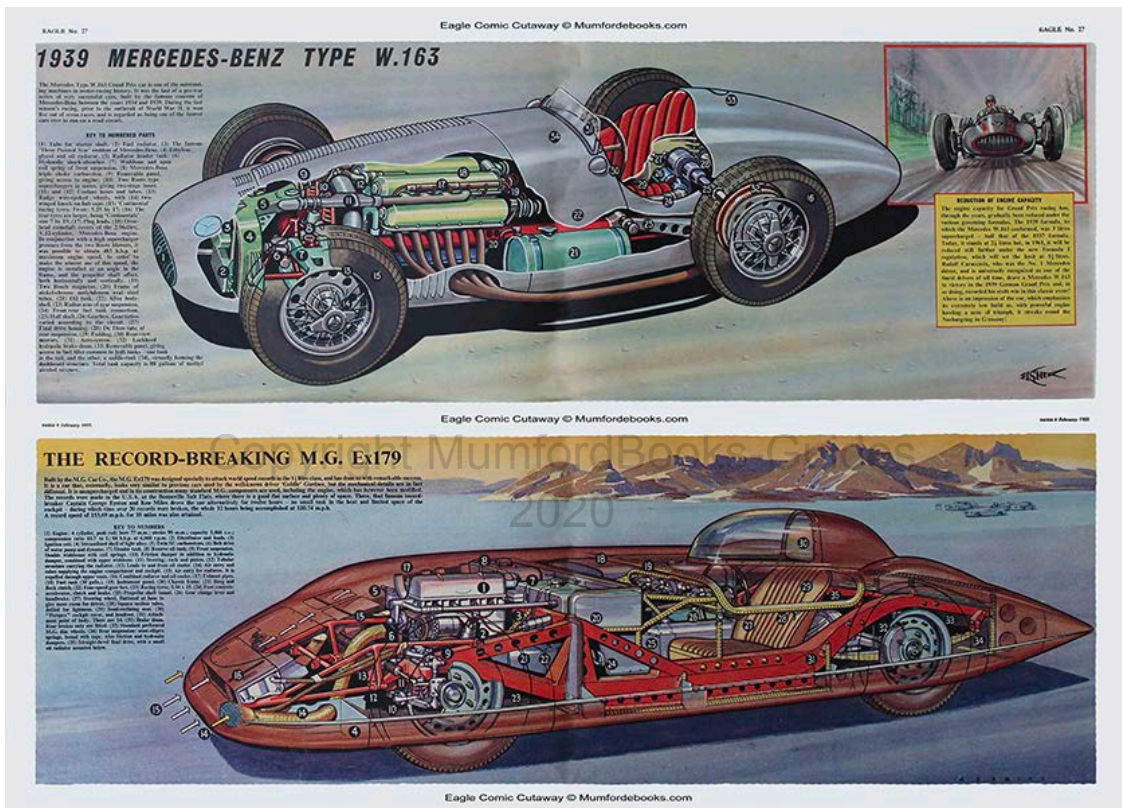


The Austin Healy 100 would be owned by a young successful branch manager who likes to trevally at home and abroad.

The Bentley is for those who are at the top of their business ladder. They may have pleasure driving for themselves or employ a chauffeur.

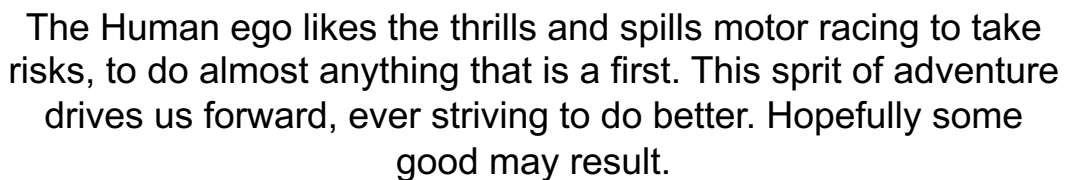
1939 Mercedes-Benz Type W.163

Record-Breaking M.G. Ex179



The European car manufacturers have always been strong in world markets. Together with North America.

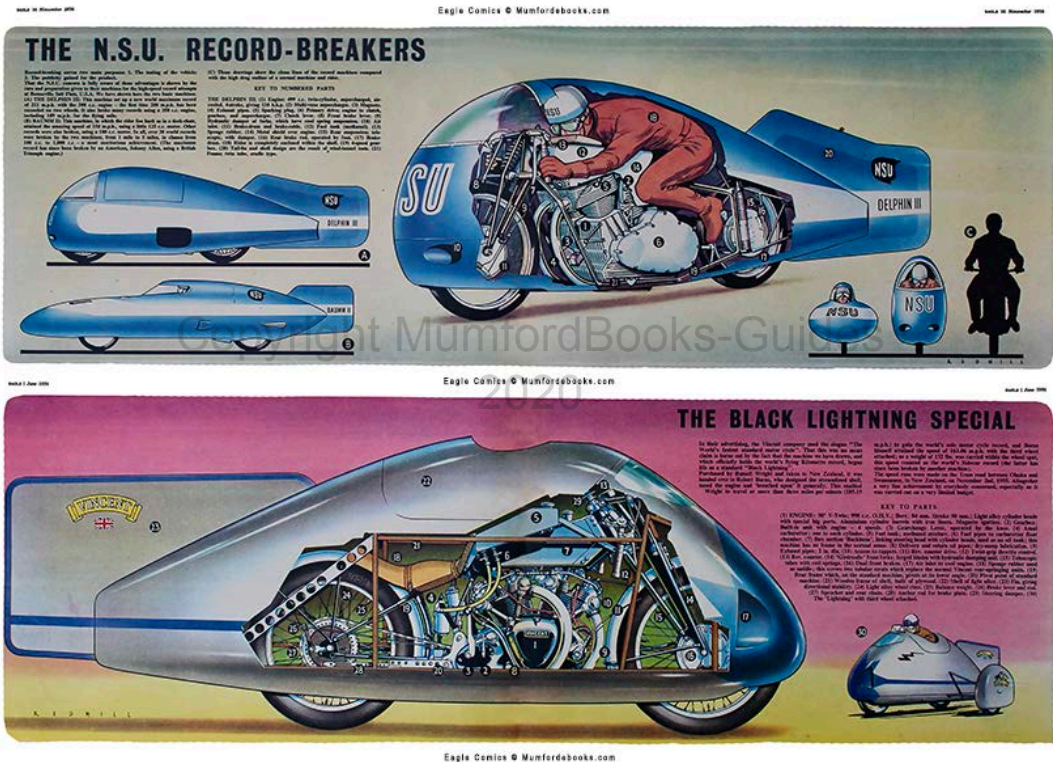
Since the second world war Japan, South Korea and now China are all making high quality cars. The world is full of exhaust gases, we have to design cars with clean emissions. This will start to lower world rises in global temperatures.





41

The N.S.U. Record-Breakers & Black Lightning Special



Going for World Speed Records seems every generation wants to have a go. The Human ego likes the thrills and spills motor racing to take risks, to do almost anything that is a first. This sprit of adventure drives us forward, ever striving to do better. Hopefully some good may result.

The first Triumph-branded bicycles in 1889.

In 1896 **Triumph** also opened a bicycle factory in Nuremberg. In 1898 **Triumph** decided to extend production at Coventry to include **motorcycles**, and by 1901-2 the company had produced its first **motorcycle**—a bicycle fitted with a Belgian Minerva engine.

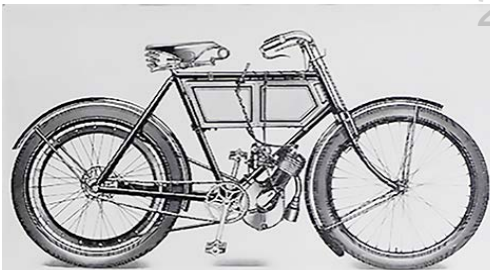


1901



1915

it's always been



1902



1957

The beginning of the First World War was a boost for the company as production was switched to provide for the Allied war effort. More than 30,000 motorcycles—among them the Model H Roadster also known as the "Trusty Triumph", often cited as the first modern motorcycle—were supplied to the Allies.

In 1969 Malcolm Uphill, riding a Bonneville, won the Isle of Man Production TT race with a race average of 99.99 miles per hour (160.92 km/h) per lap, and recorded the first ever more than 100 miles per hour (161 km/h) lap by a production motorcycle at 100.37 miles per hour (161.53 km/h). For many Triumph fans, the 1969 Bonneville was the best Triumph model ever.

Triumph Motorcycles (Hinckley) Ltd

is the largest surviving British motorcycle manufacturer. When Triumph went into receivership in 1983, John Bloor, became its new owner



THRUXTON RS



STREET-TRIPLE

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SCRAMBLER 1200



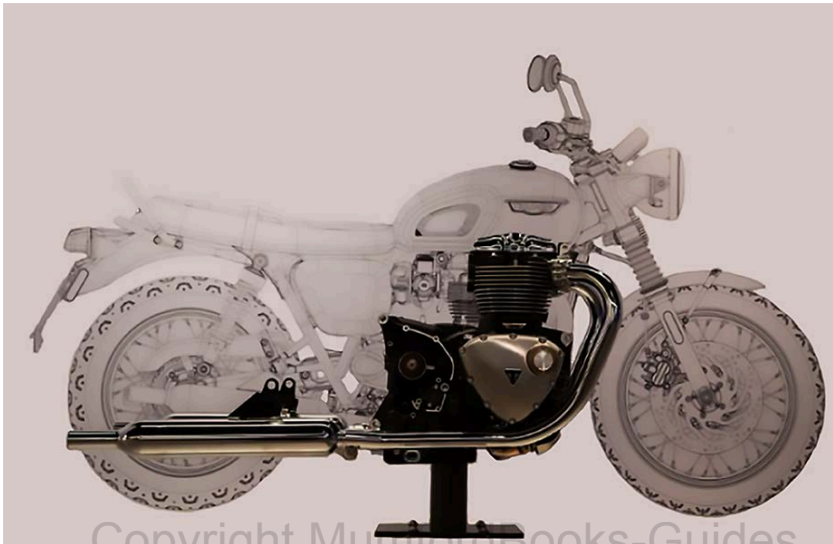
TIGER 900

Triumph has produced motorcycles since 1902, winning it the title of the world's longest continuous production motorcycle manufacturer. A licensing agreement granted to pattern spares manufacturer, Les Harris, kept the Triumph Bonneville in production until Triumph initiated a new range during 1990 and 1991. Triumph now makes a range of motorcycles reviving model names of the past, including a newly designed Bonneville twin.

A Motorbike well-made and functional become a collectors' item and piece of beauty. With added value.

Study and develop your judgement of perspective, proportion, pattern and colour. See more:

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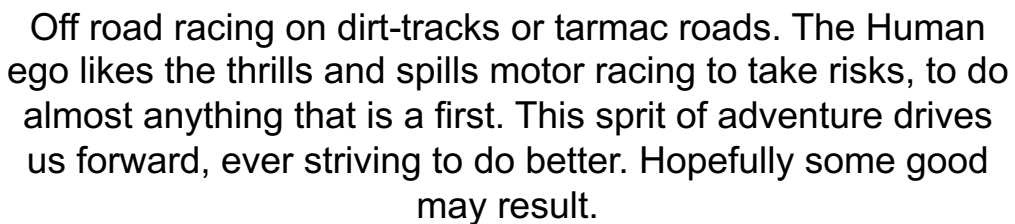


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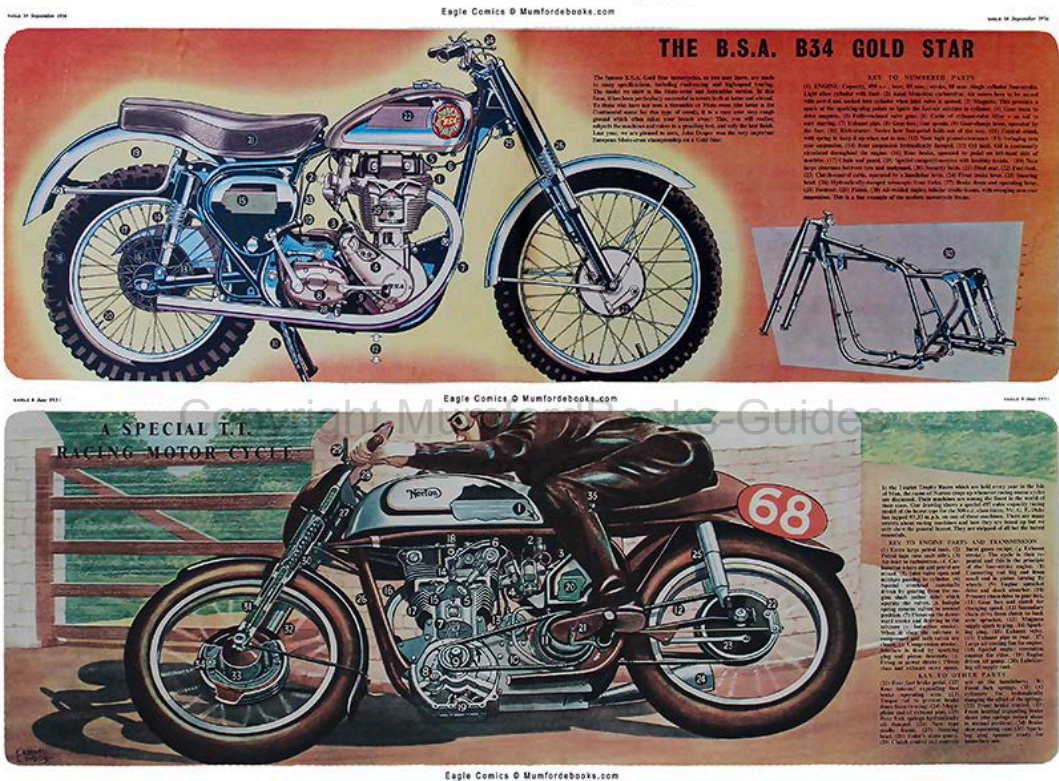


Due to an extremely high level of interest, the Rocket 3 TFC has now sold out! With peak power now confirmed at 182PS and peak torque at 225Nm (both higher figures than previously expected) we're sure there are 750 very happy TFC owners out there!

One word of warning, after doing a Risk-Assessment this machine will be very fast. Take great care on our public roads, use quality protection, you are worth it, enjoy. Could this machine be replaced with "Hydrogen Fuel" by 2040, watch this space?



The B.S.A. B34 Gold Star & Special Norton T.T. Racing



Off road racing on dirt-tracks or tarmac roads. The Human ego likes the thrills and spills motor racing to take risks, to do almost anything that is a first. This sprit of adventure drives us forward, ever striving to do better. Hopefully some good may result.

The B.M.W. Isetta & Lambretta 125 Motor Scooter



Two of the most Popular cheap two and three wheels ever produced. The Motor Scooter is most widely used in warm countries. I have seen whole families riding on a single scooter.

Good design: whether it's for a Car or a Chair must have the ability to improve the lives of others. Have a long usable life, in time the car might become a collectors' item.

The chair if well-made and functional become an antique and piece of beauty. With added value. Study and develop your judgement of **perspective, proportion, pattern, purpose/function and colour**. See more:

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Your Mantra: is a motivating chant, like the "I think I **can**, I think I **can**" you repeat over and over to yourself.

To solve and identify any problem is to make the right directional choice, to have tenacity not to give up. Any good design whether it's for a Car or a Chair, must have the ability to improve the lives of others. Have a long usable life, in time the car might become a collectors' item. The chair if well-made and functional become an antique and piece of beauty, with added value. Study and develop your judgement of **perspective, proportion, pattern, purpose/function and colour**.

Evolution in nature's colours in pigmentation is there to protect and visually attract attention. So as in nature each electro-mechanical part should be like HOW the human heart operates. How many beats does a human heart have in a lifetime? Answer: **Humans** have on average a **heart** rate of around 60 to 70 **beats** per minute, give or take. We live roughly 70 or so years, giving us just over 2 billion **beats** all up.

*Chickens have a faster **heart** rate of about 275 **beats** per minute and live only 15 years. On balance, they also have about 2 billion **beats**.*

Then, let your imagination and creativity run wild to create something innovative should be well considered. Design for a web site platform for example is to "Sell and Promote", make it the BEST in its category, stand out in its class, ahead from the competition, add added value, style and reliability. Put side by side with world beating competition, should win hands down on every feature of operation including long reliable life whether it's a bicycle or motorbike. **Environmental health** is in part the exposure to toxic carbon chemicals and how they impact human **health**. All engine manufacturers will have to **design battery-electric or hydrogen** fuel cell electric engines by 2040. We must plan for our future now, **Sustainability** focuses on meeting the needs of the present without compromising the ability of future generations to meet their needs. The concept of **sustainability** is composed of five pillars: **science & technology, economic, environmental, and social**.

Always aim to do your BEST, nothing else will do.

Editor: **Michael Robert Mumford**

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