

Evolution of the BMW 'Boxer'

BMW boast that today's horizontally opposed twin, the 'boxer' layout, can be traced back to the first motorcycle carrying the blue and white badge, made in 1923. Bruce Preston has owned a BMW for half of that time and starts this series on owning and running a 'classic' BMW which will include a 'classic ride' and engine stripdown later. But first, a little background.

THREE are those who will tell you that the first ever BMW was a straight copy of the Germanic Brotwagen designed by Bruno Renn, which had been on the market since 1919.

I guess arguments will rage about the truth of this for another 70 years. Although Brotwagen claimed that BMW had copied his



The engine from BMW's first motorcycle, the 1923 R62. The tank bag shows the classic compact style.

design he never tested that claim in the courts so now we will never know.

The 1923 BMW established what was to become an unbreakable principle for all powerplants. Large capacity BMW motorcycles would be horizontally opposed twins with the engine running across the frame, shaft driven, final-gear driven rear drive and with the gearbox bolted to the rear of the engine.

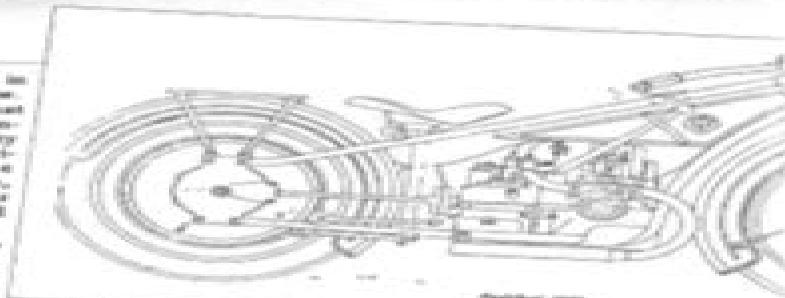
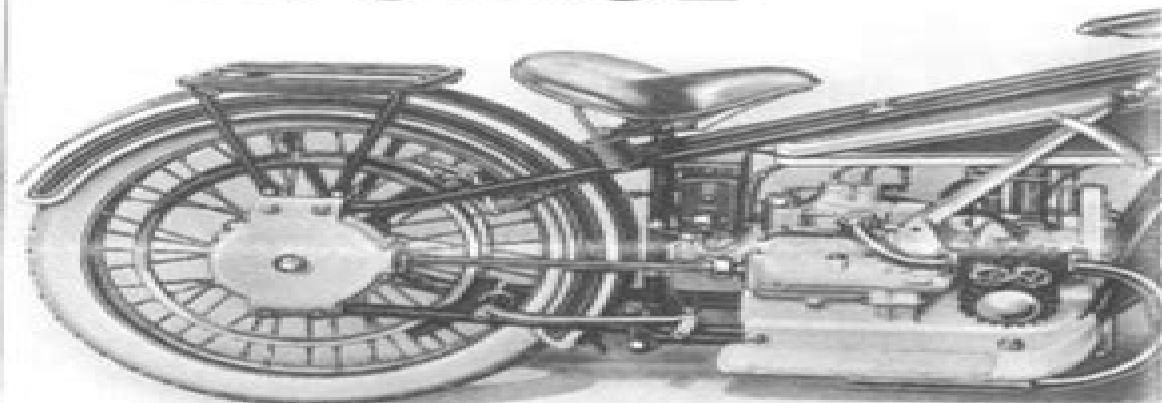
This concept survives to this day, a tribute to Max Friz, who designed the first ever BMW, the R62. In fact, down the line and when quizzed said badge (literally an aircraft propeller), testimony to BMW's originality in motorcycle manufacture.



The Thirties: R62, R17, R12, RS

INNATELY there were improvements and innovations. The original model had a 498cc water-cooled engine. By 1925 this was upped to 599cc by a more sporting overhead-valve version.

Three years later the larger BMW yet, the R62, with a capacity of 747cc, was introduced and this, in 1935, was the greatest step forward so far. BMW became the first



Another view

motorcycle manufacturer to offer hydraulic telescopic front forks on a full-scale production motorcycle, introducing them on their 725cc R17 and on 747cc R12.

A year later the 498cc RS was launched. This featured, for the first time, a four-speed gearbox and gearshift. Until then all BMW's had been hand change.

In their latest push in over 500cc supercharged races, the model 212, was produced. This was no Einheits-Test and entered in the 1939 TT with Georg Meier and Jack West. It was not the first supercharged bike they had made, that was in 1926, when a supercharger was simply bolted on. The new bike's super-

Bmw Classic Boxer Service Manual

Robert Ackerson

Bmw Classic Boxer Service Manual:

The Book of the Lamborghini Murciélagos Thillainathan Path Pathmanathan, Thillainathan ""Path"". Pathmanathan, 2021 A unique book dedicated to the Murcielago Lamborghini's iconic flagship with its V12 Bizzarrini engine spaceframe chassis and scissor doors. This was the last car to use the classic Bizzarrini engine. **Cars & Parts**, 1995 **Amédée Gordini** Roy P. Smith, 2022 This is the story of a man a team and their life and times as well as a complete record of all their achievements and failures. It logs the financial and personal cost of racing in the prewar and postwar periods. It tells of how the mighty car company Renault became involved with them in the late 1950s and how Amedee Gordini became known throughout the world as one of the greatest engine tuners of his time. Lotus Europa - Colin Chapman's Mid-engined Masterpiece Matthew Vale, 2022 Explores the design development and production of the Lotus Europa Lotus's first mid engined road car. It covers the Renault powered Series 1 and 2 cars the Lotus Twin Cam engined versions and the Type 47 racing models.

WALNECK'S CLASSIC CYCLE TRADER, JUNE 2002 Causey Enterprises, LLC, Return to Glory! Robert Ackerson, 2013 This book chronicles the development and racing career of a car regarded as the ultimate example of the purebred sports car of the 20th century and the epitome of functional beauty and extraordinary performance the 1952 Mercedes Benz 300 SL. Taking second place at its 1952 Mille Miglia debut it went on to win every one of its races that season. Runways & Racers Terry O'Neil, 2011 Runways and Racers focuses on sports car races held at military installations throughout America in the early 1950s. It was a marriage of convenience for the Sports Car Club of America and the Strategic Air Command with both parties gaining advantages from the arrangement. The thorn in the side turned out to be a Congressman whose own aspirations exceeded his standing but who found himself in a position to be able to influence the outcome of events.

WALNECK'S CLASSIC CYCLE TRADER, MAY 2007 Causey Enterprises, LLC, **Road and Track**, 1986

WALNECK'S CLASSIC CYCLE TRADER, MAY 2002 Causey Enterprises, LLC, Cycle World, 1991 **Two Summers**

Robert Ackerson, 2022 Explores the Mercedes Benz W 196 R's historic roots development and races. Also its triumphs, struggles and disappointments as well as the spirited challenges from Maserati Ferrari Gordini and Lancia. Accompanying the text are hundreds of photos sourced from the legendary Daimler Archives. **The Autocar**, 1988 Motor Cycling and Motoring, 1988 American Book Publishing Record, 2005 Japanese Custom Motorcycles Uli Cloesen, 2013 Many books have been published about Japanese motorcycles but none has focused exclusively on the Japanese motorcycle based chopper, bobber, trike and quad custom bike scene until now. Featuring stunning photography this is a great book for Japanese bike fans and fans of the custom bike scene in general. Books in Print Supplement, 1985 **Autocar & Motor**, 1992-05

Road & Track, 1980-02 **Autocar**, 2001-11

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