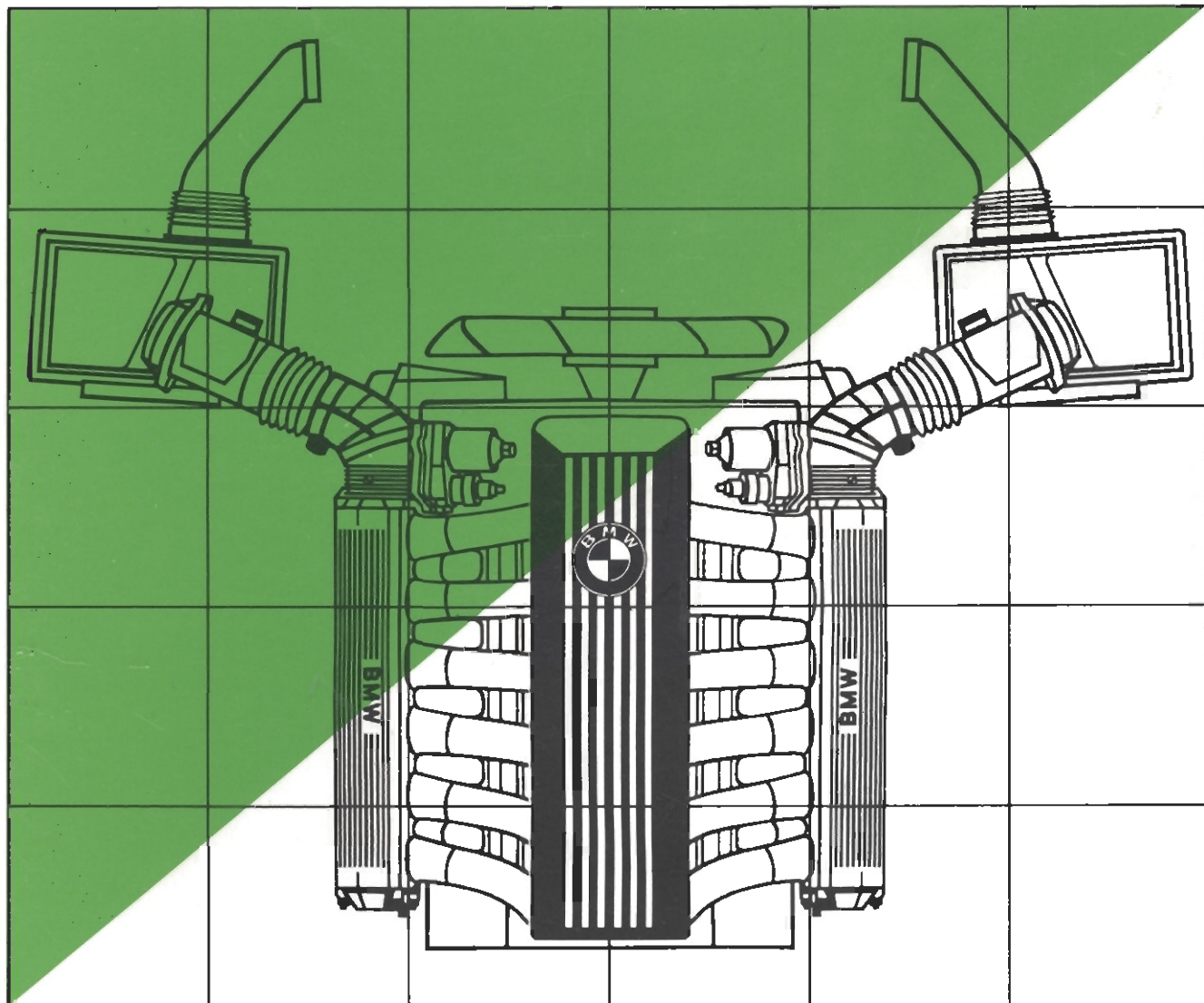


BMW V-12 Light Alloy Engine M 70

Training Course Material



Information

The information in this training course brochure is for the exclusive use of participants of this training course in the BMW Service Training Centre.

Information updated to June, 1987.

Refer to the latest information published by the technical departments of the Service Division for additions and amendments to specifications.

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1. Introduction

Twelve-cylinder engines have a long tradition at BMW. BMW already produced a V-12 engine 60 years ago. It developed up to 750 HP (551 kW) and had a displacement of an enormous 47 litres. It was known as one of the best aircraft engines in the history of aviation. In 1930 a Dornier Wal used this engine to cross the Atlantic in 44 hours.

This was impressive proof of the dependability and quality of BMW engines.

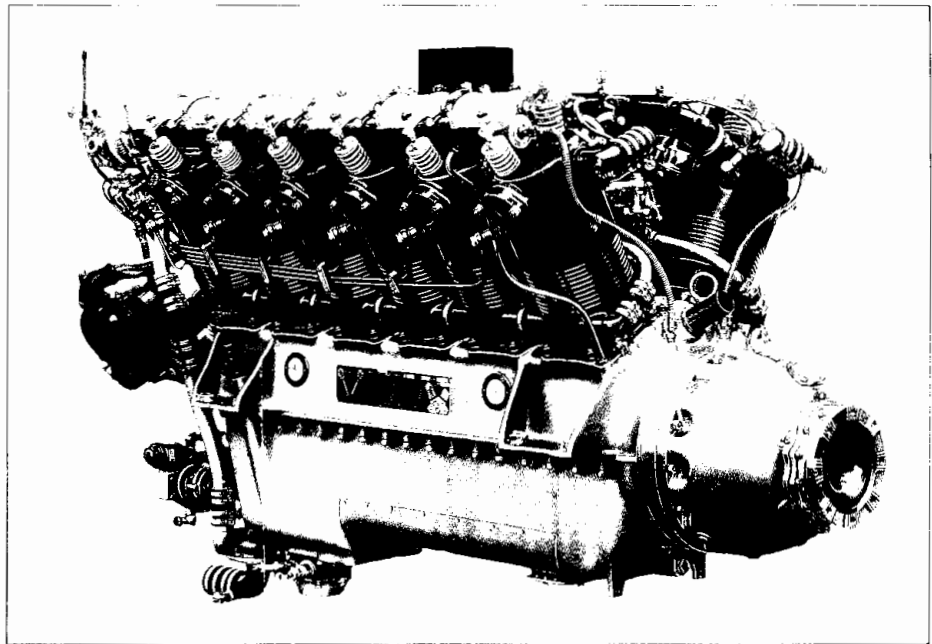


Fig. 1
BMW 12 Cylinder Airplane Engine
from 1927

BMW presented a new V-12 engine in 1979. It was based on the M 20 (2.3 litre) engine. It developed 275 HP/200 kW with a displacement of 4463 cm³.

It is time again in 1987:

BMW has developed a new, outstanding high performance engine, with design principles for the future, for the top model of the '7' series.

The BMW twelve cylinder engine — currently the most modern standard production engine in the whole world!

The BMW V-12 light alloy engine (M 70) — the first V-12 light alloy engine with catalytic converter!

2. Technical Data

V-12 Engine

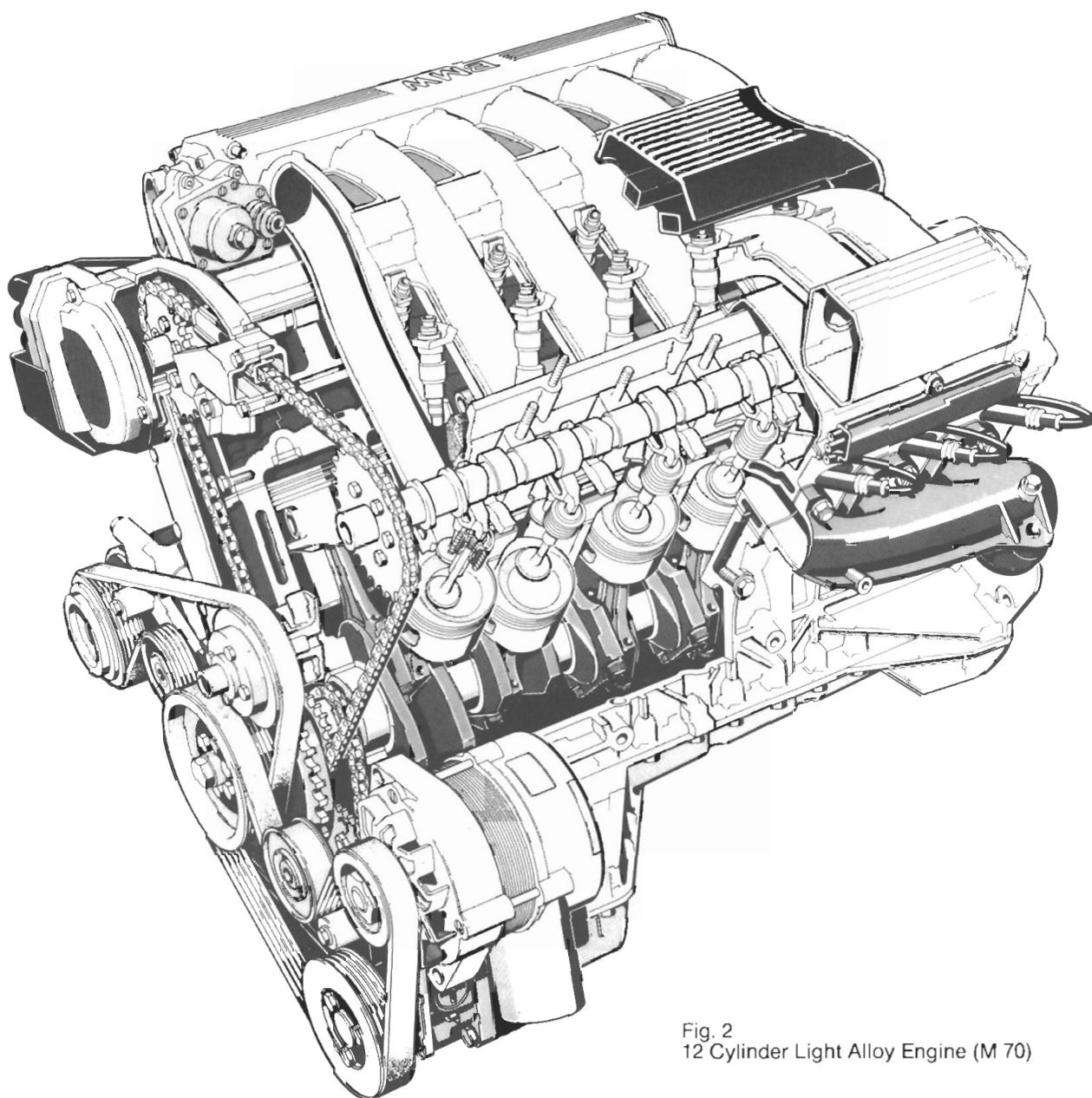


Fig. 2
12 Cylinder Light Alloy Engine (M 70)

Displacement	4988	cm ³
Bore	84	mm
Stroke	75	mm
Power	220/300	KW/HP
	at 5200	rpm
Torque	450	Nm
	at 4100	rpm
Compression ratio	8.8 to 1	
Fuel	Unleaded	regular
Firing order	1-7-5-11-3-9-6-12-2-8-4-10	