

workshop manual for 4.108 4.107 and 4.99 diesel engines

SECTION

E-18

 **Perkins engines**

©

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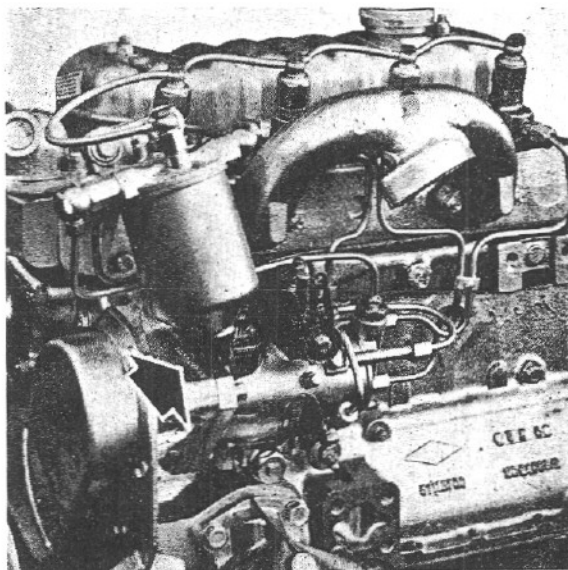
FOREWORD

This workshop manual has been compiled for use in conjunction with normal workshop practice. Mention of certain accepted practices therefore, has been purposely omitted in order to avoid repetition.

Reference to renewing joints and cleaning off joint faces has to a great extent been omitted from the text, it being understood that this will be carried out where applicable.

Similarly, it is understood that in reassembly and inspection, all parts are to be thoroughly cleaned and where present, burrs and scale are to be removed.

It follows that any open ports of high precision components, e.g., fuel injection equipment, exposed by dismantling, will be blanked off until reassembled, to prevent the ingress of foreign matter.



The engine number is stamped on the fuel pump mounting flange as shown in the above illustration.

With current engines, the number consists of figures and letters, e.g.,

Engine Type	Typical Engine Number
4.108	108U251
4.107	107U251
4.99	99U251

The first three figures represent the capacity of the engine in cubic inches, the letter "U" signifies that the engine was built in the United Kingdom and the last group of figures comprises the engine serial number.

On earlier engines, the serial number consisted of seven digits as follows.

Engine Type	Typical Engine Number
4.108	7300269
4.107	7100399
4.99	7000251

Identification of the earlier engine types can be effected by observing the first two figures of the engine number which remain constant depending on engine type.

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TO ENSURE YOU OBTAIN THE BEST RESULTS FROM YOUR ENGINE AND TO SAFEGUARD YOUR OWN GUARANTEE, FIT ONLY GENUINE PERKINS PARTS. THESE ARE READILY OBTAINABLE THROUGHOUT THE WORLD.

This publication is produced by the Service Publications Department of Perkins Engines Ltd. and every endeavour is made to ensure that the information contained in this Manual is correct at the date of publication but due to continuous developments, the manufacturers reserve the right to make alterations without notice.

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EXAMPLES OF SERVICE FACILITIES

Service Publications

The following Service Literature may be purchased through your local Perkins Distributor.

Workshop Manuals

Workshop Data

Operators Handbooks

Turbocharger Service Instructions

Preservation for Diesel Engines

Valve Seat Inserting and Cylinder Head Skimming

CAV D.P.A. Fuel Pump Workshop Manual

CAV D.P.A. Fuel Pump Test Data

Simms Fuel Pump Workshop Manual

Crankshaft Regrinding

Perkins Atomisers

Etcetera

Service Instruction

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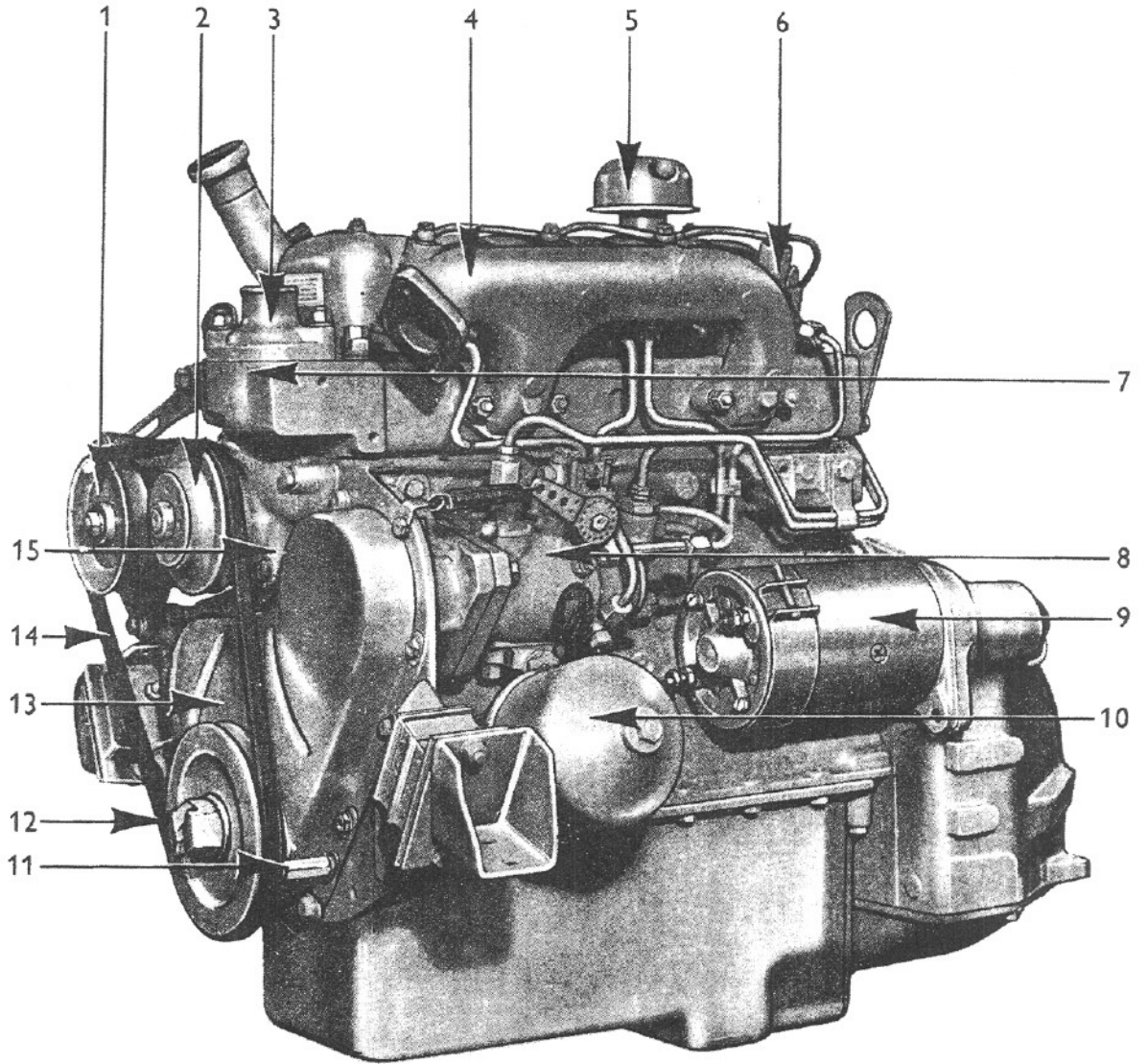
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ENGINE PHOTOGRAPHS

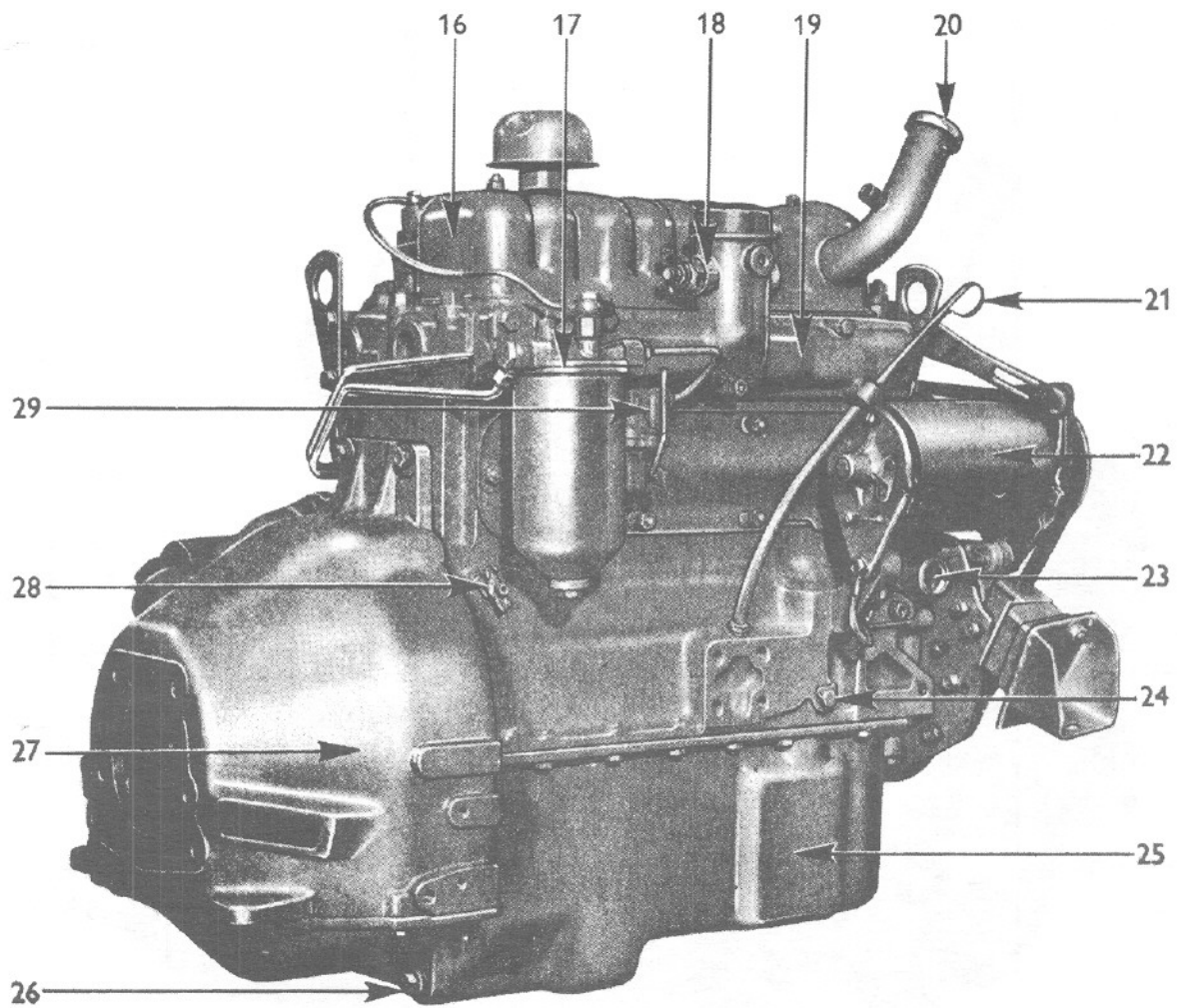
Perkins engines are built to individual requirements to suit the applications for which they are intended and the following engine views do not necessarily typify any particular specification.

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- 1 Dynamo Pulley
- 2 Water Pump Pulley
- 3 Water Outlet
- 4 Exhaust Manifold
- 5 Breather
- 6 Atomiser
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VIEW OF FUEL PUMP SIDE OF ENGINE



VIEW OF CAMSHAFT SIDE OF ENGINE