

# **workshop manual for the G4.236 gasolene, natural gas & LPG engines**

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**Perkins Engines Limited**

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*This publication is written for world wide use. In territories where legal requirements govern engine smoke emission, noise, safety factors etc., then all instructions, data and dimensions given must be applied in such a way that, after servicing (preventive maintenance) or repairing the engine, it does not contravene the local regulations when in use.*

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## **Important Note**

**This publication has been written for gasoline (petrol), natural gas and LPG (liquid petroleum gas) engines. Any information required on LPG engines which is not to be found in this publication, such as, starting procedure, gas pressure reducing equipment, pre-heating and carburation etc., should be obtained from the manufacturer of the machine or his supplier.**

**Perkins Engines Limited is not responsible for any damage caused to this engine or its component parts by fitting of any LPG or natural gas conversion equipment not approved by the Company or which is incorrectly fitted or adjusted.**

# 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 etc. exposed by dismantling, will be blanked off until reassembled, to prevent the ingress of foreign matter.

To give improved sealing, later engines are built with controlled swell type joints which are fitted dry.

When fitting setscrews into "through" holes into the interior of the engine, a suitable sealant should be used.

Note: Some setscrews may already have sealant coated threads. These can be identified by the colour of the threads which will be red or blue etc. Ensure that where these setscrews are fitted, there are no sharp edges to the holes as this could remove the sealant.

Engines built for Massey Ferguson applications are designated AG4.236. Where information specific to these engines is referred to, the appropriate designation is given, otherwise the information is the same as listed under standard engine types.

Throughout this manual, whenever the "left" or "right" hand side of the engine is referred to, it is that side of the engine when viewed from the flywheel end.

This publication is produced by the Technical 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 development, the manufacturers reserve the right to alter this specification without notice.

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