

Wheeled Loading Shovel - 412S, 414S, 416S

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Introduction

About this Manual

Machine Model and Serial Number

This manual provides information for the following model(s) in the JCB machine range:

- 412S from machine serial number 535000.
- 414S from machine serial number 537000.
- 416S from machine serial number 543000.

Smoothshift transmission is installed from the following models:

- 412S from machine serial number 535500.
- 414S from machine serial number 537300.
- 416S from machine serial number 543100.

Tier 3 EN474 machines from the following models

The information supplied in this manual for the 414S machine also applies to the 416S machine except where specified.

- 412S from SN 1421800 to 1421999
- 414S from SN 1242500 to 1242999
- 416S from SN 1243500 to 1243999.

Using the Service Manual

T11-004

This publication is designed for the benefit of JCB Distributor Service Engineers who are receiving, or have received, training by JCB Technical Training Department.

These personnel should have a sound knowledge of workshop practice, safety procedures, and general techniques associated with the maintenance and repair of hydraulic earthmoving equipment.

The illustrations in this publication are for guidance only. Where the machines differ, the text and/or the illustration will specify.

General warnings in Section 2 are repeated throughout the manual, as well as specific warnings. Read all safety statements regularly, so you do not forget them.

Renewal of oil seals, gaskets, etc., and any component showing obvious signs of wear or damage is expected as a matter of course. It is expected that components will be cleaned and lubricated where appropriate, and that any opened hose or pipe connections will be blanked to prevent excessive loss of hydraulic fluid and ingress of dirt.

Where a torque setting is given as a single figure it may be varied by plus or minus 3%. Torque figures indicated are for dry threads, hence for lubricated threads may be reduced by one third.

The manufacturer's policy is one of continuous improvement. The right to change the specification of the machine without notice is reserved. No responsibility will be accepted for discrepancies which may occur between specifications of the machine and the descriptions contained in this publication.

Finally, please remember above all else safety must come first!