

Backhoe Loader

[Section 1 - General Information](#)

[Section 2 - Care and Safety](#)

[Section 3 - Maintenance](#)

[Section A - Attachments](#)

[Section B - Body and Framework](#)

[Section C - Electrics](#)

[Section E - Hydraulics](#)

[Section F - Transmission](#)

[Section G - Brakes](#)

[Section H - Steering](#)

[Section K - Engine](#)

[Section M - Electronic Network](#)



Publication No.
9813/0250-03



Copyright © 2004 JCB SERVICE. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any other means, electronic, mechanical, photocopying or otherwise, without prior permission from JCB SERVICE.

Issued by JCB Technical Publications, JCB Aftermarket Training, Woodseat, Rocester, Staffordshire, ST14 5BW, England. Tel +44 1889 591300 Fax +44 1889 591400

World Class
Customer Support

General Information

Service Manual - Backhoe Loader

[Section 1 - General Information](#)

[Section 2 - Care and Safety](#)

[Section 3 - Maintenance](#)

[Section A - Attachments](#)

[Section B - Body and Framework](#)

[Section C - Electrics](#)

[Section E - Hydraulics](#)

[Section F - Transmission](#)

[Section G - Brakes](#)

[Section H - Steering](#)

[Section K - Engine](#)

[Section M - Electronic Network](#)



Publication No.
9813/0250-03



Copyright © 2004 JCB SERVICE. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any other means, electronic, mechanical, photocopying or otherwise, without prior permission from JCB SERVICE.

Issued by JCB Technical Publications, JCB Aftermarket Training, Woodseat, Rocester, Staffordshire, ST14 5BW, England. Tel +44 1889 591300 Fax +44 1889 591400

World Class
Customer Support



Section 1 - General Information

Contents	Page No.
Use	
Introduction	1-1-1
Scope	1-1-2
Personnel	1-1-2
Newest Data	1-1-2
Machine Applications	1-1-2
Format	1-1-3
Left and Right Sides	1-1-4
Left Side, Right Side	1-1-4
Hydraulic Schematic Codes	1-1-5
Colour Codes	1-1-5
Machine Identification	
Introduction	1-2-1
Machine Identification Plate	1-2-2
Typical Product Identification Number (PIN)	1-2-2
Component Identification Plates	1-2-3
Typical Engine Identification Number	1-2-3
Transmission Identification Numbers	1-2-4
ROPS/FOPS Certification plate	1-2-6
FOPS Data Plate	1-2-6
Torque Settings	
Introduction	1-3-1
Zinc Plated Fasteners and Dacromet Fasteners	1-3-2
Introduction	1-3-2
Bolts and Screws	1-3-2
Hydraulic Connections	1-3-6
'O' Ring Face Seal System	1-3-6
'Torque Stop' Hose System	1-3-9
'Positional Type' Hydraulic Adaptors	1-3-10
Fitting Procedure	1-3-10
Service Tools	
Introduction	1-4-1
Numerical List	1-4-2
Tool Detail Reference	1-4-5
Rivet Nuts	1-4-25
Fitting Procedure	1-4-26
Slide Hammer Kit	1-4-27
Fitting Procedure	1-4-27
Metric Test Points	1-4-28
Introduction	1-4-28
Parts Information	1-4-28
Service Consumables	
Introduction	1-5-1
Sealing and Retaining Compounds	1-5-2
Fuel	
Introduction	1-6-1



Contents	Page No.
Acceptable and Unacceptable Fuels	1-6-2
Additives	1-6-4
Service Requirements for use of B20 Biodiesel	1-6-4
Warranty	1-6-4
Fuel Types	1-6-5
Usage and Effects of Fuels	1-6-6
Sulphur Content	1-6-7
Effects of Fuel Contaminates	1-6-8
Stall Speed Combinations	
Introduction	1-7-1
Specifications	1-7-2
SA, SB Engines	1-7-3
SD, SF Engines	1-7-8



Contents

Page No.



Contents

Page No.

Use

Introduction

This topic contains information about the structure of the manual and how to use the manual.

⇒ [Scope \(□ 1-1-2\)](#)

⇒ [Personnel \(□ 1-1-2\)](#)

⇒ [Newest Data \(□ 1-1-2\)](#)

⇒ [Machine Applications \(□ 1-1-2\)](#)

⇒ [Format \(□ 1-1-3\)](#)

⇒ [Left and Right Sides \(□ 1-1-4\)](#)

⇒ [Hydraulic Schematic Codes \(□ 1-1-5\)](#)

⇒ [Colour Codes \(□ 1-1-5\)](#)

Scope

Personnel

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. Finally, please remember above all else SAFETY MUST COME FIRST!

Newest Data

From time to time new machines, systems or devices require the manual to be re-issued. Make sure you have the newest issue.

Always check the on-line JCB data system for relevant technical information.

Machine Applications

This manual contains information relevant to the following machines:

3CX eco, 4CX eco Serial Numbers from 2000000 Onwards.

Machine Variants

There are different machine variants within the same model name. This happens because of market requirements, or when the machine specification changes after a period of time. Where applicable information is given to help identify which machine variant is applicable for the given specifications and procedures.

Please Click Here To Download The Complete Manual
Download Other Manuals
If Having Any Questions Feel Free To Contact us

admin@servicemanualbit.com