



# Service Manual

## Attachments

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## Introduction

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 equipment.

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

The manual is compiled in numbered sections each concerning one specific attachment. Each numbered section other than the Introduction is broken down into the following.

**General Information** - includes service tools and specific information on each attachment.

**Routine Maintenance** - includes service schedule and recommended lubricants.

**Servicing** - includes dismantling, overhaul etc. of specific components.

The page numbering in each section is not continuous. This allows for the insertion of new items in later issues of the manual.

All sections are listed on the front cover; tabbed divider cards align directly with individual sections on the front cover for rapid reference.

## Safety Notices

In this publication and on the machine, there are safety notices. Each notice starts with a signal word. The signal word meanings are given below.

### DANGER

Denotes an extreme hazard exists. If proper precautions are not taken it is highly probable that the operator (or others) could be killed or seriously injured.

INT-1-2-1

### WARNING

Denotes a hazard exists. If proper precautions are not taken, the operator (or others) could be killed or seriously injured.

INT-1-2-2

### CAUTION

Denotes a reminder of safety practices. Failure to follow these safety practices could result in injury to the operator (or others) and possible damage to the machine.

INT-1-2-3

## SAFETY - YOURS AND OTHER PEOPLES

All mechanical equipment can be hazardous if operated without care or correct maintenance.

In this manual you will find warning messages. Read them. Understand them. They tell you of hazards and how to avoid them. If you do not understand the messages, ask your employer or local JCB Distributor.

But safety is not just a matter of responding to the warnings. All the time you are working with the attachment you must be thinking what hazards there might be and how to avoid them.

Do not work with the attachment until you are sure that you can control it.

Do not start any job until you are sure that you and those around you will be safe.

If you are unsure of anything, about the attachment or the job, ask someone who knows. Don't assume anything – check it out.

### *Remember*

**BE CAREFUL  
BE ALERT  
BE SAFE**

✓ Now read the rest of this section before moving on to the rest of the manual.

B-1-1-2/1

**Note:** Always put safety first. Obey all the safety instructions given in the Operator Handbook for your machine, plus those given in this manual.

## GENERAL SAFETY

### WARNING

✓ You or others can be injured if you operate or maintain any attachments without first studying the machine Operator Handbook and the attachment Operator Handbook. Read the safety instructions before operating or maintaining the attachment. Do not operate or maintain the attachment without the relevant manuals or if there is anything you do not understand.

ATT-1-1

**Operating Safety****⚠ CAUTION**

✓ Obey all laws, worksite and local regulations which affect you and your equipment.

A-1-3-6

**⚠ DANGER****Lightning**

✓ Lightning can kill you. Do not use the equipment if there is lightning in your area.

A-1-3-5

**⚠ WARNING**

Keep people clear of the area when using the attachment to prevent possible injury.

B-2-2-4

**⚠ WARNING**

✓ Hydraulic fluid at pressure can injure you. Make the machine safe before removing the hose blanking plugs or connecting/disconnecting the hoses; stop the engine, then operate the attachment control a few times to vent system pressure.

2-4-1-5/1

**⚠ WARNING****Care and Alertness**

✓ All the time you are working with the attachment, take care and stay alert. Always be careful. Always be alert for hazards.

B-1-1-4/1

**⚠ WARNING**

If you need eye-glasses for reading, make sure you wear them when reading the safety decals. Decals are strategically placed around the machine to remind you of possible hazards. Do not over-stretch or place yourself in dangerous positions to read the decals.

INT-3-3-4

**⚠ WARNING****Clothing**

✓ You can be injured if you do not wear proper clothing. Loose clothing can get caught in the machinery. Wear protective clothing to suit the job.

Examples of protective clothing are: a hard hat, safety shoes, safety glasses, a well-fitting overall, ear-protectors and industrial gloves. Keep cuffs fastened.

Do not wear a necktie or scarf. Keep long hair restrained.

INT-1-3-6

**⚠ WARNING****Equipment Condition**

✓ Defective equipment can injure you or others. Do not operate equipment which is defective or has missing parts.

Make sure the maintenance procedures in this manual are completed before using the equipment.

A-1-4-1

**⚠ CAUTION****Equipment Limits**

✓ Operating the equipment beyond its design limits can cause damage. It can also be dangerous.

Do not operate the equipment outside its limits.

Do not attempt to upgrade the equipment's performance by unapproved modifications.

A-1-4-2

**⚠ WARNING****Communications**

✓ Bad communication can cause accidents.

Keep people around informed of what you will be doing. If you will be working with other people make sure you all understand any hand signals you will be using.

Work sites can be noisy. Do not rely on spoken commands.

A-1-4-3

~~5-2-5-4~~

~~5-1-1-3~~

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