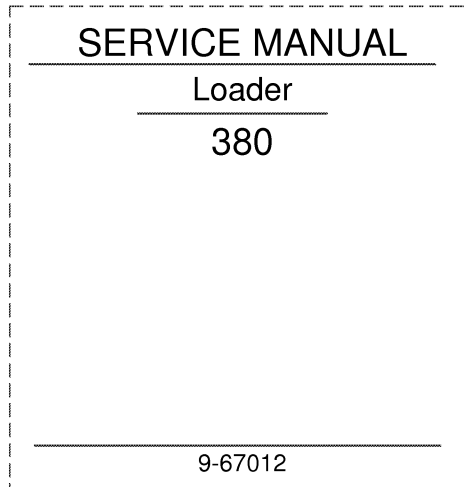


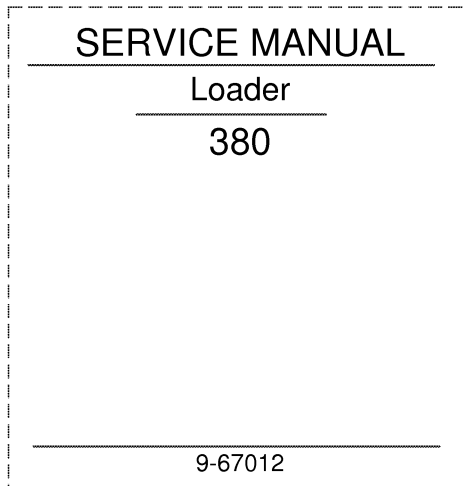
1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4



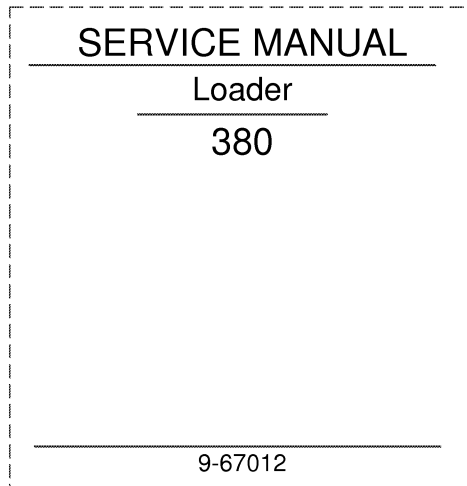
1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4



1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4



1. Trim along dashed line.
2. Slide into pocket on Binder Spine.

TYPE 1-4

## 380 LOADER LANDSCAPER

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## Service Manual Introduction

### Safety Rules

 **This Safety Alert Symbol Indicates Important Safety Messages In This Manual. When You See This Symbol, Carefully Read The Message That Follows and Be Alert To the Possibility Of Personal Injury Or Death.** 1-1

 **WARNING:** Before starting engine, study operator's manual safety messages. Read all safety signs on machine. Clear the area of other persons. Learn and practice safe use of controls before operating.

*It is your responsibility to understand and follow manufacturer's instructions on machine operation, service, and to observe pertinent laws and regulations. Operator's and service manuals may be obtained from your J I Case dealer.*

45-2

 **WARNING:** Read operator's manual to familiarize yourself with control lever functions.


46-27

 **WARNING:** Operate controls from the operator's seat only.


35-7

 **WARNING:** This is a one man machine, no riders allowed.


35-8

 **WARNING:** When working in the area of the fan belt with the engine running, avoid loose clothing if possible, and use extreme caution.


35-4

 **WARNING:** When performing checks and tests on the equipment hydraulic system or steering system, DO NOT deviate from the written procedure.


40-13

 **WARNING:** After installing tire on rim (wheel), place wheel in a safety cage before inflating tires. If proper equipment is not available, have a tire repair shop do the work.


40-5

 **WARNING:** Locate the machine on level ground and block the wheels securely before working under the machine. Failure to follow the above procedure can result in personal injury.

46-77

 **WARNING:** Never pass your hand under the three point hitch lift rod and ramshaft arm to release the lift latch. Serious injury will occur if the links fall.

47-1

 **CAUTION:** When removing hardened pins such as a pivot pin, or a hardened shaft, use a soft head (brass or bronze) hammer or use a driver made from brass or bronze and a steel head hammer.

46-17



**CAUTION:** When using a hammer to remove and install pivot pins or separate parts, using compressed air or using a grinder, wear eye protection that completely encloses the eyes (approved goggles or other approved eye protectors). 46-13



**CAUTION:** When servicing or repairing the machine, keep the shop floor and operator's compartment and steps free of oil, water, grease, tools, etc. Use an oil absorbing material and/or shop cloths as required. Use safe practices at all times. 40-8



**CAUTION:** Use suitable floor (service) jacks or chain hoists to raise wheels off the floor. Always block machine in place with suitable safety stands. 40-7



**CAUTION:** Pin sized and smaller streams of hydraulic oil under pressure can penetrate the skin and result in serious infection. If hydraulic oil under pressure does penetrate the skin, seek medical treatment immediately. Maintain all hoses and tubes in good condition. Make sure all connections are tight. Make a replacement of any tube or hose that is damaged or thought to be damaged. DO NOT use your hand to check for leaks; use a piece of cardboard or wood. 40-6-A



**CAUTION:** Some components of this machine are very heavy. Use suitable lifting equipment or additional help as instructed in this service manual. 40-10



**CAUTION:** Wear the proper safety equipment - avoid loose clothing. Obtain additional safety equipment when your safety may be in doubt. Hard hat, safety shoes, ear protectors, reflective clothing, safety goggles and heavy gloves may be required. 45-3



**CAUTION:** Do not attempt repairs you do not understand. There is no disgrace in asking for help. 46-21



**CAUTION:** Lower or block elevated components and engage hand brake before leaving machine. D-46-78

## General

This service manual has been prepared with the latest service information available. Trouble shooting,

removal, disassembly, inspection and installation procedures coupled with complete specifications and tightening references can be found in most sections. Some sections will have exploded views without accompanying text due to the simplicity of the procedure. This service manual is one of the most important tools available to the service technician. It is an invaluable aid in properly performing any phase of service.

The terms right-hand and left-hand as used in this manual indicate the right and left sides of the machine as viewed from the operator's seat for proper operation of the machine or attachment.

The information contained in this manual is current at the time of printing.

## Text

If this manual covers more than one machine, or different models of component parts (planetary axles, gear boxes, control valves, etc.) the procedures will apply to all unless otherwise noted.

## Illustrations

Where possible, illustrations are placed as close as possible to the accompanying text and should be used as part of the text.

## Serial and Model Numbers

When requisitioning repair or replacement parts it may be necessary to furnish the parts department with one or both numbers. Serial and model numbers will be found in the following locations.

Machine and engine - Serial number plate on tool box.

Machine serial number - stamped in front frame extension.

Engine serial number - stamped on block.

Loader - Left loader upright.

Backhoe - Side of control tower.

ROPS - Upper ROPS crossmember.

Component parts - plate attached to part or number stamped on part.

## Table of Contents

The preceding pages contain a Table of Contents which list the Series number and title, and the sections contained in each series. The individual sections, where required, will have a Table of Contents on the second page of that section.

## Page Numbers

All page numbers consist of two sets of digits separated by a dash, such as 4002-9. The digits preceding the dash identify the section. The digits following the dash represent the consecutive page number within that section. Page numbers will be found at the upper right or left of each page.

## Torque References

Essentially two grades of fasteners (bolts, nuts and screws) are used on Case machinery. They are grade 5 and grade 8. Refer to Section 1051 for torque specifications and means of identification.

The specifications in Section 1051 are standard torque values for dry threads and must be used on all fasteners during assembly and installation unless special torque values are noted in a particular section.

## Classification of Lubricants

Oil, lubricants and grease are classified and graded according to standards recommended by the Society of Automotive Engineers (SAE), the American Petroleum Institute (API), and the National Lubricating Grease Institute (NLGI).

### Engine Oil

The SAE number indicates the viscosity of engine oils, for example, SAE 30, a single grade oil. Engine oils are also identified by dual numbers, such as SAE 20W/30, a multigrade oil.

The API classification (MS DS SD CA) defines oil performance in terms of engine usage. Only oils specified in Section 1050 should be used. These oils contain sufficient chemical additives to provide maximum engine protection. Both the SAE grade and API designation must be found on the container.

### Lubricants and Greases

Lubricants and greases used in the hydraulic reservoirs, transmission, etc. must be those specified in Section 1050.

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