450C/455C
CRAWLER TRACTOR

Service Manual

8-41962

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Section 1001

SAFETY RULES
SERVICE MANUAL INTRODUCTION
AND
TORQUE SPECIFICATIONS

TABLE OF CONTENTS

Safety Rules 1001-2

Service Manual Introduction 1001-3

Product Identification Number (PIN) and Serial Numbers 1001-4

Torque Specifications 1001-6

Written In *C*lear *A*nd *S*imple *E*nglish

CASE CORPORATION

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SAFETY RULES

This Symbol Shows Important Information About Safety In This Manual. When You See This Symbol, Carefully Read The Information That Follows and Understand The Possible Causes of Injury Or Death. 1.1-A

IMPORTANT: *To prevent injury on job, follow the Warning, Caution, and Danger notes in this section and other sections throughout this manual. Follow the instructions carefully.*

The procedures recommended and shown in this manual are good, effective service methods. However, all possible procedures and service hazards may not be covered. Therefore, if you use a tool or procedure not recommended, you must make sure that the method you select is a safe method.

Put the warning tag shown below on the key for the key switch when you are servicing or repairing this machine. One warning tag is on every new machine. You can buy additional warning tags, part number 331-4614, from Service Parts Supply.



780449

DANGER: *Engine exhaust fumes can cause death. If it is necessary to start the engine in a closed place, remove the exhaust fumes from the area with an exhaust pipe extension. If you do not have an exhaust pipe extension, open the doors and get outside air into the area.* 48-56

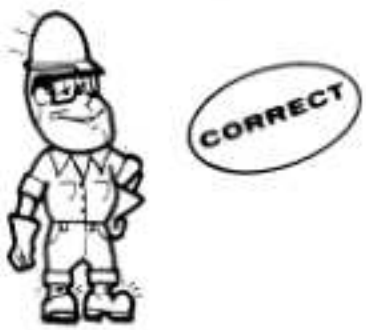
DANGER: *Before you move the backhoe boom to either side, make sure that all persons are out of the way. A swinging boom can crush.* 48-54

WARNING: *Read operator's manual to familiarize yourself with control lever functions.* 46-27

WARNING: *Operate tractor and equipment controls from the seat position only. Any other method could result in serious injury.* 48-55

WARNING: *This is a one man machine, no riders allowed.* 35-8

WARNING: *If you wear clothing that is too loose or do not use the correct safety equipment for your job, you can be injured. Always wear clothing that will not catch on objects. Extra safety equipment that can be required includes hard hat, safety shoes, ear protection, eye or face protection, heavy gloves and reflector clothing.* 45-3-A

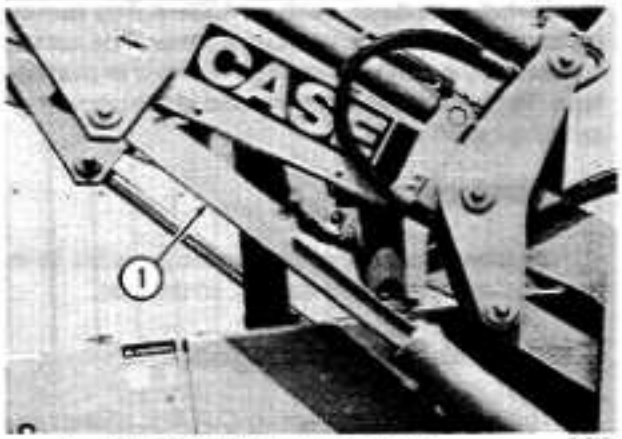


WARNING: *When working in the area of the fan belt with the engine running, avoid loose clothing if possible, and use extreme caution.* 35-4

WARNING: *Operate controls from the operator's seat only.* 35-7

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WARNING: *Whenever the bucket must be raised to aid in servicing, block the loader arms in place with lift cylinder support strut or a suitable safety stand.* 23-7-B



1. *Lift Cylinder Support Strut*

WARNING: *When doing checks and tests on the equipment hydraulics, follow the procedures as they are written. DO NOT change the procedure.* 47-44

WARNING: *When putting the hydraulic cylinders on this machine through the necessary cycles to check operation or to remove air from a circuit, make sure all people are out of the way.* 47-45

WARNING: *Use insulated gloves or mittens when working with hot parts.* 47-41A

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: *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

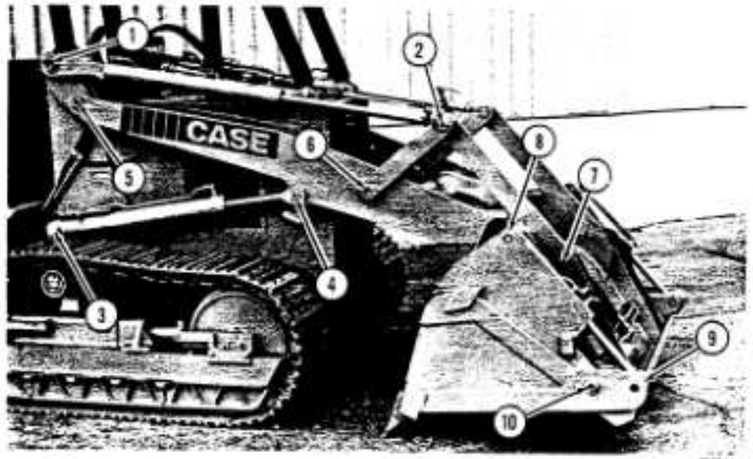
CAUTION: *When servicing or repairing the machine, keep the shop floor and operator's compartment and steps free of oil, water, grease, tools, etc. Use an oil absorbing material and/or shop cloths as required. Use safe practices at all times.* 40-8

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

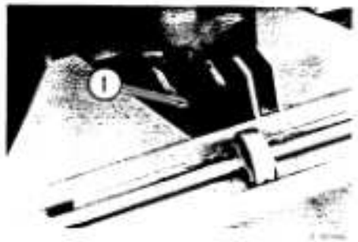
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Loader Grease Fittings

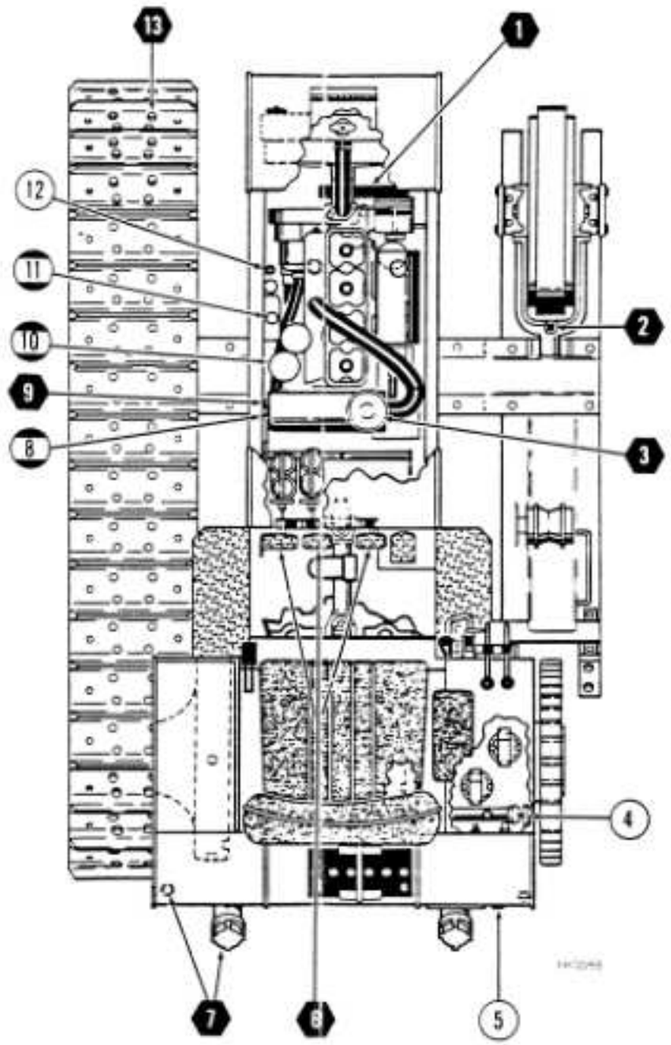


1. *Bucket cylinder, closed end ..... 2 grease fittings, 1 each side*
2. *Bucket cylinder, rod end ..... 2 grease fittings, 1 each side*
3. *Lift cylinder, closed end ..... 2 grease fittings, 1 each side*
4. *Lift cylinder, rod end ..... 2 grease fittings, 1 each side*
5. *Loader arm pivot ..... 2 grease fittings, 1 each side*
6. *Loader arm link pivot ..... 2 grease fittings, 1 each side*
7. *Bucket link pivot ..... 2 grease fittings, 1 each side*
8. *4-in-1 bucket clam cylinder, closed end ... 2 grease fittings, 1 each side*
9. *4-in-1 bucket clam cylinder, rod end ..... 2 grease fittings, 1 each side*
10. *4-in-1 bucket clam pivot ..... 2 grease fittings, 1 each side*

Ripper Grease Fittings



1. *Lift cylinder, rod end 1 grease fitting*



MAINTENANCE SCHEDULE

REF. NUMBER	SERVICE POINTS	LUBRICATE	CHECK	CHANGE	REPLACE	CLEAN	DRAIN WATER	SECTION	INTERVAL
1	Fan drive belt		▨						⬢ As Required
9	Air cleaner elements*				▨	▨		2002	
3	Air precleaner					▨		2002	
2	Track tension		▨					5506	
13	Track shoe bolt torque**		▨					5506	
7	Fuel filler screen and fuel tank					▨	▨	3001	
6	Brake adjustment		▨					7001	
12	Engine oil level		▨						○ 10 Hours ***
4	Transmission oil level		▨					6002	
5	Hydraulic reservoir fluid level		▨					8002	
8	Air cleaner dust valve and end cover wing nut		▨					2002	
11	Coolant reservoir fluid level		▨						⬭ 50 Hours ****
10	First stage fuel filter		▨				▨	3001	
	Breather for winch				▨				
	Equipment grease fitting. (loader. dozer. ripper. or backhoe)	▨							

*Service the air cleaner elements if the red band in the restriction indicator is in full view.

**The track shoe bolt torque is 135 to 155 pound-feet (185 to 210 Nm).

***Every 10 hours of operation or each day, whichever occurs first.

****Every 50 hours of operation or each week, whichever occurs first.

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