

**450  
Crawler  
Operators Manual**

9-1606



Reprinted



***This symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED. The message that follows the symbol contains important information about your safety. Carefully read the message. Make sure you fully understand the causes of possible injury or death.***

SB001

IF THIS MACHINE IS USED BY AN EMPLOYEE, IS LOANED, OR IS RENTED, MAKE SURE THAT THE OPERATOR UNDERSTANDS THE TWO INSTRUCTIONS BELOW.

BEFORE THE OPERATOR STARTS THE ENGINE:

1. GIVE INSTRUCTIONS TO THE OPERATOR ON SAFE AND CORRECT USE OF THE MACHINE.
2. MAKE SURE THE OPERATOR READS AND UNDERSTANDS THE OPERATOR'S MANUAL FOR THIS MACHINE.



**IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH.**

BEFORE STARTING THE ENGINE, DO THE FOLLOWING:

1. READ THE OPERATOR'S MANUAL.
2. READ ALL SAFETY DECALS ON THE MACHINE.
3. CLEAR THE AREA OF OTHER PERSONS.

LEARN AND PRACTICE SAFE USE OF MACHINE CONTROLS IN A SAFE, CLEAR AREA BEFORE YOU OPERATE THIS MACHINE ON A JOB SITE.

It is your responsibility to observe pertinent laws and regulations and to follow manufacturer's instructions on machine operation and maintenance.

See your Authorized Case dealer for additional operator's manuals, parts catalogs, and service manuals.

## AFTER DELIVERY CHECKUP

(Owner's Name)	(Date Checkup Performed)
(Owner's Address)	
(Dealership)	(City) (State)
Tractor has been operated _____ hours.	
(Model and Serial Numbers)	

- |  |  |
|--|--|
| <input type="checkbox"/> Check air cleaner.<br><input type="checkbox"/> Check cooling system.<br><input type="checkbox"/> Check fuel system.<br><input type="checkbox"/> Check adjustment of fan belts.<br><input type="checkbox"/> Check track alignment.<br><input type="checkbox"/> Check track adjustment.<br><input type="checkbox"/> Check brake adjustment.<br><input type="checkbox"/> Check no load full governed engine speed.<br><input type="checkbox"/> Change crankcase oil and filter (if needed).<br><input type="checkbox"/> Lubricate all pressure fittings.<br><input type="checkbox"/> Clean transmission and screen and replace filter.<br><input type="checkbox"/> Check transmission oil level.<br><input type="checkbox"/> Check transmission, torque converter hydraulic system for leaks.<br><input type="checkbox"/> Tighten all bolts. | <input type="checkbox"/> Check equipment hydraulic system for leaks.<br><input type="checkbox"/> Check equipment hydraulic system oil level.<br><input type="checkbox"/> Clean equipment hydraulic system oil filter.<br><input type="checkbox"/> Check equipment control valve main relief valve.<br><input type="checkbox"/> Check final drive oil level.<br><input type="checkbox"/> Check batteries, alternator, starter, and lights.<br><input type="checkbox"/> Check operation of all instruments.<br><input type="checkbox"/> Check the action of transmission control valve.<br><input type="checkbox"/> Tighten cylinder head and adjust tappets.<br><input type="checkbox"/> Check operation of allied equipment. |
|--|--|

**DEALER:** Question purchaser carefully concerning his experience with the Crawler and answer any questions concerning maintenance or operation that are not clear to him.

Signed \_\_\_\_\_  
Dealer
Customer

Original-Dealer

Checkup \_\_\_\_\_  
Performed by





## TABLE OF CONTENTS

TO CASE CRAWLER OWNERS. . . . .	1
PERSONAL SAFETY PRECAUTIONS . . . . .	2
INTRODUCTION . . . . .	4
SERIAL NUMBER LOCATION . . . . .	6
SPECIFICATIONS . . . . .	8
Engine. . . . .	8
Crawler. . . . .	9
OPERATING INSTRUCTIONS . . . . .	14
Indicators and Controls . . . . .	14
Pre-Starting Check List. . . . .	21
Engine Operation . . . . .	21
Tractor Operation. . . . .	25
FUEL AND LUBRICANTS. . . . .	32
Diesel Fuel . . . . .	32
Lubrication . . . . .	34
Fuel, Fluids, and Lubricants Chart . . . . .	38
MAINTENANCE . . . . .	37
Maintenance Schedule Chart . . . . .	37
Engine Lubrication System. . . . .	39
Air Cleaning System . . . . .	42
Cooling System. . . . .	48
Fuel System. . . . .	54
Electrical System. . . . .	59
Braking System . . . . .	63
Track System. . . . .	68
Driveshaft. . . . .	75
Transmission-Torque Converter Hydraulic System. . . . .	76
Final Drives . . . . .	81
Equipment Hydraulic System . . . . .	82
Crawler Storage . . . . .	86
LOADER. . . . .	90
4-IN-1 BUCKET. . . . .	112
DOZERS. . . . .	126
RIPPER. . . . .	148
WINCH . . . . .	154
ALPHABETICAL INDEX. . . . .	163

## TO CASE CRAWLER OWNERS

The care you give your Case crawler will determine the satisfaction and service life you will obtain from it. Use this manual as your guide. By observing the instructions and suggestions in this manual, your Case crawler will serve you profitably for many years.

As an Authorized Case Dealer, we stock genuine Case parts, which are manufactured with the same precision and skill as the original equipment. Our factory trained staff is kept well informed on the best methods of servicing Case equipment and is ready and able to help you.

Should you require additional aid or information, contact us.

*Your Authorized Case Dealer*

The Case Company reserves the right to make improvements in design or changes in specifications at any time, without incurring any obligation relating to such changes.

To insure efficient and prompt service, please furnish the model and serial numbers of your crawler (and allied equipment, if used) in all correspondence or contacts.



Look for this symbol to point out important safety precautions. It means — ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



## **PERSONAL SAFETY PRECAUTIONS**

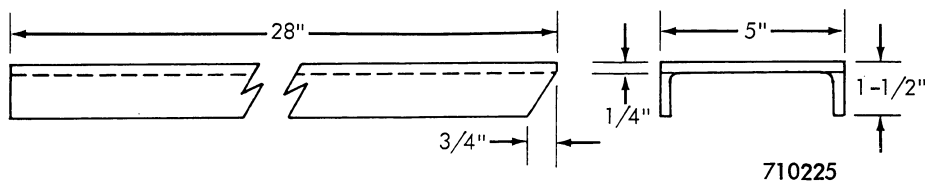
Your Case crawler is skillfully engineered for efficient operation. The most efficient operation is performed by a safe operator — one who is careful about himself, his machine, and his working environment. A safe operator is an efficient operator because he knows how to avoid accidents.

1. **SEATING:** Always be properly seated in the operator's seat before operating any of the controls.
2. **CLOTHING:** Do not wear loose fitting clothing which may catch on moving parts.
3. **STARTING:** Before starting the engine, be sure all operating controls are in neutral and the parking brake is set.
4. **NEUTRAL LOCK:** The crawler has a safety neutral lock starting device — **USE IT!**
5. **UNATTENDED CRAWLER:** Never leave a crawler unattended while the engine is running.
6. **PASSENGERS:** Never, at any time, permit persons other than the operator to ride on the crawler.
7. **DISMOUNTING:** Never dismount from the crawler while it is in motion.
8. **SAFE SPEEDS:** Drive at speeds slow enough to insure safety and maintain complete control, especially over rough terrain.
9. **DIRECTION CHANGE:** Do not change direction without reducing engine speed.
10. **TRACK OBSTRUCTIONS:** Be careful when traveling over raised obstructions such as logs, curbs., etc. The crawler tracks, while crossing an obstacle, will cause the crawler's front to rise until the crawler's center of gravity passes the obstacle. Then, the crawler will suddenly break over, tending to pitch the operator out of his seat. Such obstacles should be negotiated carefully at reduced speed, with the crawler carefully balanced slowly over the obstruction, and then eased down gently to prevent a serious accident. If possible, cross the obstacle at an angle.



11. **STEEP GRADES:** Keep crawler in gear when going down steep grades.
12. **BRAKES:** Keep brakes in proper adjustment.
13. **RADIATOR CAP:** Use caution in removing the radiator pressure cap when the engine is hot.
14. **REFUELING:** Never refuel while the crawler engine is running or hot.
15. **SMOKING:** Do not smoke while refueling.
16. **EMERGENCIES:** Keep a first aid kit and a fire extinguisher on the crawler at all times.
17. **WARNING SIGNALS:** To prevent highway accidents, use red warning flags during daylight hours and red warning lamps after dark. For additional safety, display the "Slow Moving Vehicle" emblem.
18. **CAREFULNESS:** Remember, a careful operator is always the best insurance against an accident.
19. If your crawler is equipped with roll-over protective equipment, the use of a seat belt is recommended under almost all operating conditions. Use of a seat belt without roll-over protective equipment is not recommended.
20. **SERVICE SAFETY:** Before servicing the crawler or any of its attached equipment, such as a bucket, backhoe, dozer blade or ripper, be sure that the attachments are lowered to the ground or securely blocked up.

**NOTE:** A set of loader lift cylinder safety stops can be fabricated from channel stock. Use the dimensions shown below. To install, raise the loader to full height and position the stops over the rod end of the lift cylinders. Lower the loader into the stops.



## INTRODUCTION

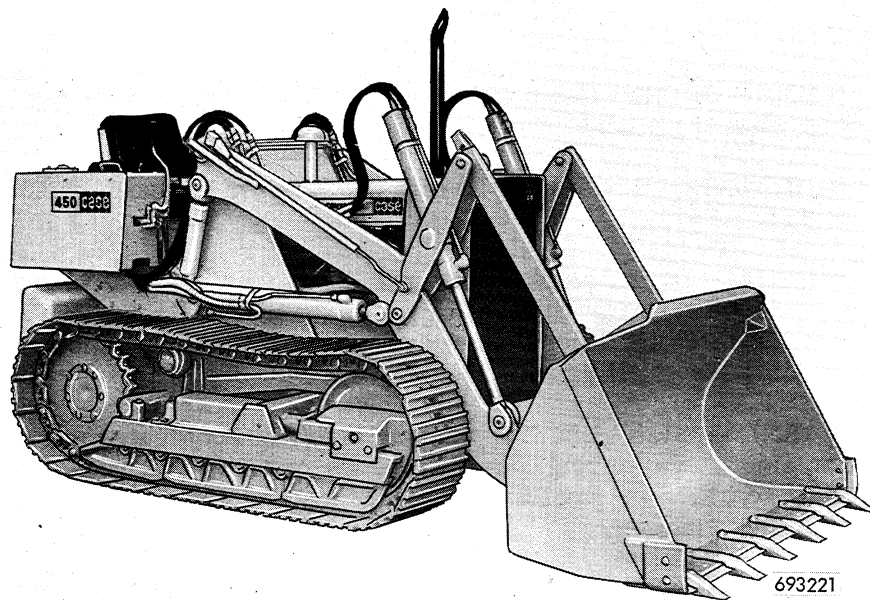


Figure 1 - Loader With Standard Bucket

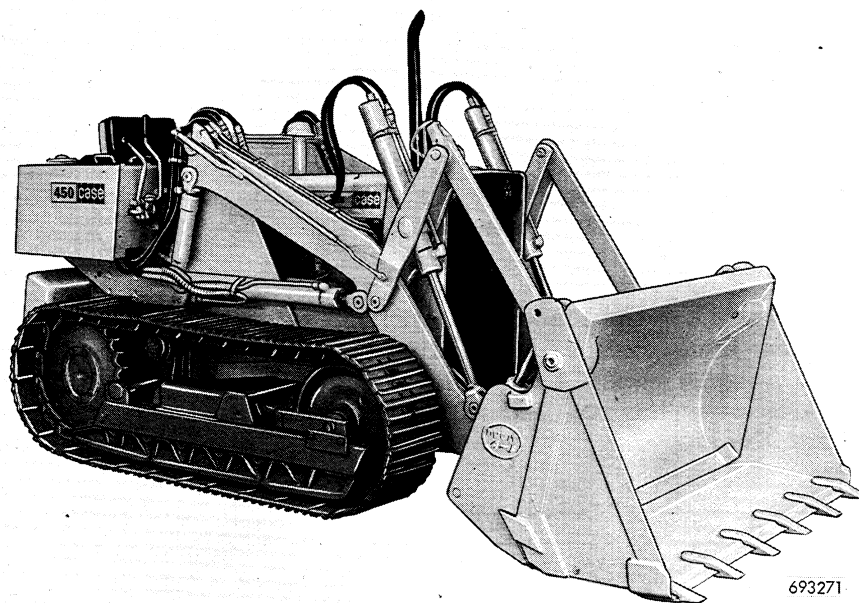


Figure 2 - Loader With 4-In-1 Bucket