

**350B Crawler
Tractor**
Operators Manual

9-6772



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.



WARNING

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.

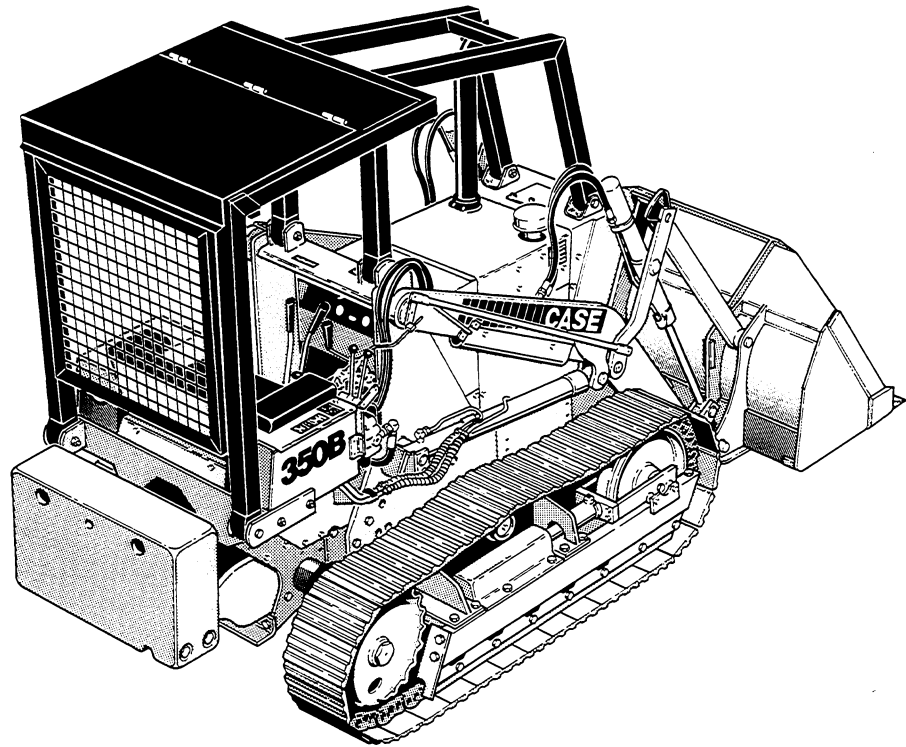
See your Authorized Case dealer for additional operator's manuals, parts catalogs, and service manuals.

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INTRODUCTION TO THE OWNER

This manual is your guide to safe, efficient operation. Before you operate this machine, read this manual.



If you need more information, call us.

Your Case Dealer

The J I Case Company can make changes in design or specifications of the machine at any time with no obligation for these changes.

DELIVERY OF THE NEW MACHINE

When you get your new machine from your Case dealer, you will be told about correct operation and maintenance as shown in the Owner Warranty Registration form. When your Case dealer has given you these instructions, you must write your name on the report. Then he will give you a copy for your records.

AFTER DELIVERY CHECK

Three copies of the After Delivery Check are in the back of this manual. One copy is for you, one copy is for the dealer and one copy is for the Construction Equipment Service Department. Make sure that your Case dealer does the After Delivery Check after the first 20 hours of machine operation.

NOTE: Your cost for this inspection will be for filters, oil or other accessories. If the dealer comes to your machine, there can also be a cost for the time and distance.

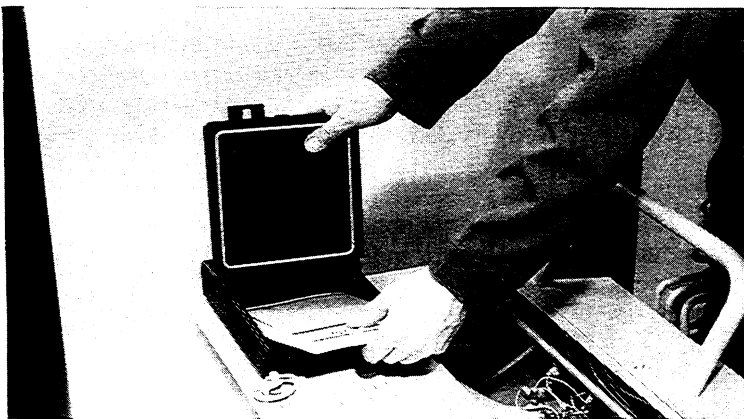
RIGHT AND LEFT SIDE OF THE MACHINE

“Right and Left”, when used in this manual, represent the right and left sides of the machine as seen from the operator's seat.

SAFETY

SAFETY RULES

Your safety and the safety of other persons in the work area are the result of your correct operation of this machine. Know the location, positions and functions of all the controls. **MAKE SURE YOU CHECK ALL CONTROLS IN A SAFE, CLEAR AREA BEFORE YOU OPERATE THE MACHINE.**



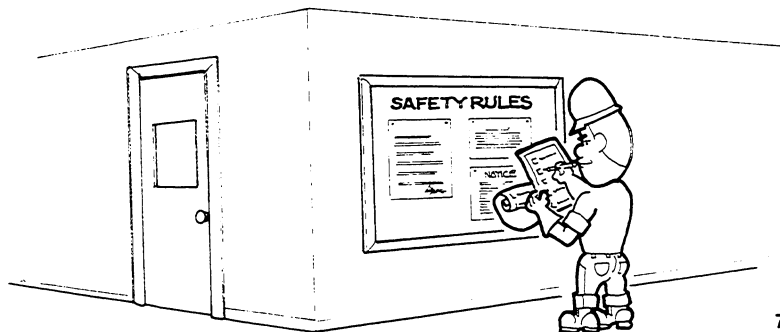
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Manual Storage Box

READ THIS MANUAL COMPLETELY and make sure you understand the contents. Make sure you understand, for example, the characteristics of speed, ability, brakes and steering, of this machine. If you have any questions, call your Case dealer.

The safety information in this manual does not replace any other rules or laws for safety that are used in your area. Learn the rules or laws for safety that are used in your area. Make sure that your machine has the correct equipment according to these rules or laws.

It is recommended that you make copies of the safety rules in this manual and put the copies in the work area.



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Before You Start the Engine

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.



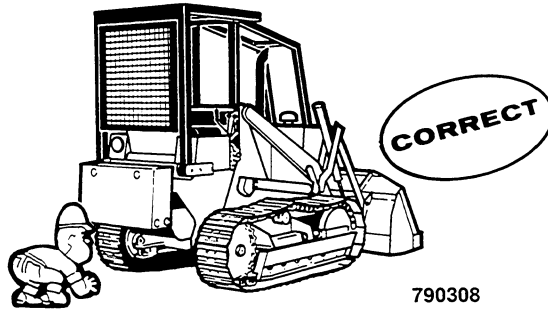
It is your responsibility to understand and follow manufacturer's instructions on machine operation, service, and to observe pertinent laws and regulations. Operator and service manuals may be obtained from your equipment dealer.

D-34-2-A

IMPORTANT: Always install new decals if the old decals cannot be read. When parts that have decals are replaced, make sure to install new decals with the new part. You can get new decals from your Case dealer. 46-48-A



WARNING: Before operation, check the machine for leaks and for parts that are damaged or not in good condition. Make sure that all caps, dipsticks, battery covers, etc., are tight. Failure of a part during operation can cause an injury. 25-10-A




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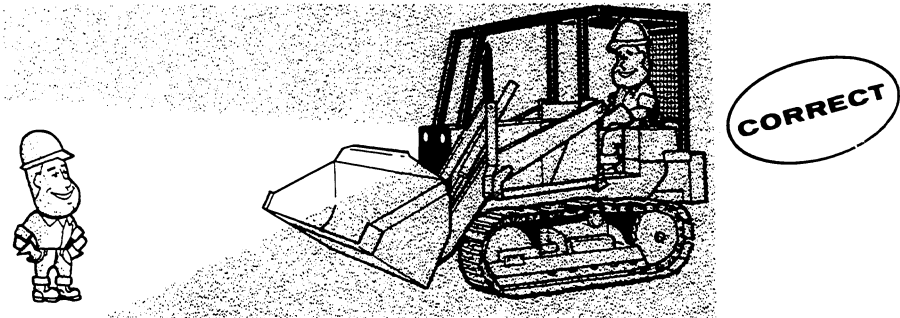
WARNING: Wear the correct safety equipment. Do not wear loose clothing. If it is needed, get extra safety equipment. Extra safety equipment which can be needed includes hard hat, safety shoes, ear protection, reflector clothing, safety goggles and heavy gloves. 1-3-A




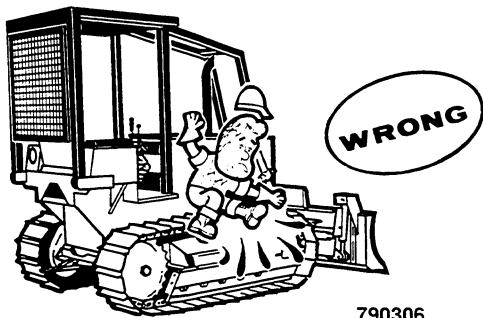
750213B

 **WARNING:** Do not have a burning cigarette, cigar, etc., when you use starting fluid. Never make a hole in the starting fluid container. Do not use starting fluid near an open flame or put the starting fluid container into a fire. Use only small amounts of starting fluid. Never put starting fluid in storage in a hot area. 1-10-A

 **CAUTION:** Before you operate at night, check that all lights (if the machine is so equipped) are working correctly. 25-7-A



 **WARNING:** Make sure the operator's area, steps and grab rails are clear of oil, foreign material or ice. Remove or fasten all maintenance or personal items. Failure to keep these areas clean can cause a bad accident. 25-8-A




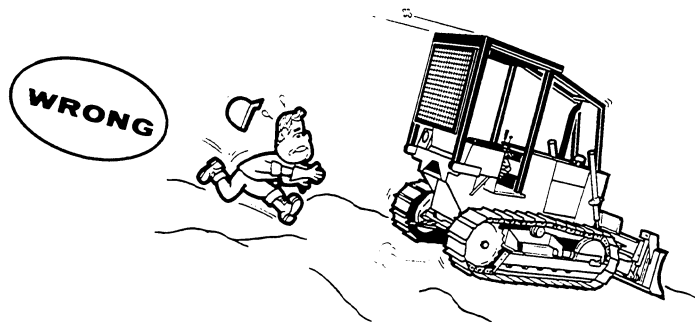
 **WARNING:** BE VERY CAREFUL IF THIS IS NOT THE MACHINE YOU NORMALLY OPERATE. 2-2-B

 **WARNING:** Keep a good fire extinguisher and a first aid kit with you at all times. Know how to use both of these items. 25-9-A




742673

 **WARNING:** To jump start this machine, connect positive jumper cable to positive battery terminal and connect negative jumper cable to good engine ground. Start engine only when seated in operator's seat with seat belt fastened. Stop engine before leaving machine. Disconnect jumper cables. Any other method could result in uncontrolled machine movement. 47-85



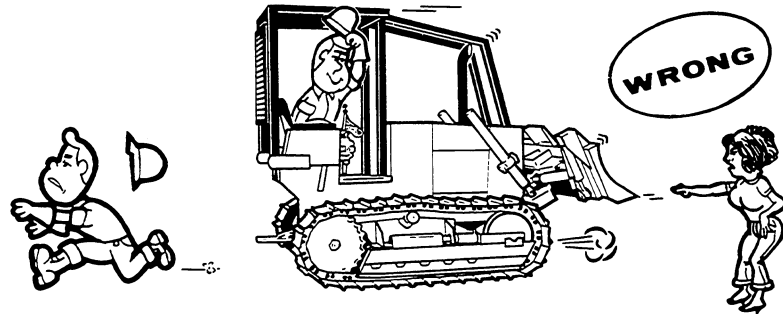
790305

 **WARNING:** Before each period of operation, check the machine for correct function of the steering controls, brake controls, hydraulic controls, instruments, and safety equipment. Check the Neutral position of the transmission control levers. A machine that runs correctly can prevent accidents. Make all necessary repairs or adjustments before you operate the machine. 26-4-C



CAUTION: Make sure all persons are away from the machine before you start the engine.

47-63



790304



WARNING: Do the required maintenance and safety checks to the machine before you start each day. A machine that has not been given correct maintenance can cause an accident.

47-54



WARNING: Operate controls only from seat with seat belt fastened.

Lock transmission control(s) in neutral and apply parking brake before starting engine and before leaving operator's seat.

Lower or block elevated components before servicing and when leaving the machine.

D-47-8-A



WARNING: The main PTO guard and driven attachment guards must be securely installed in place before starting the engine.

20-10

Operation



CAUTION: *Always fasten seat belt securely before starting engine.*

D-17-6



795573



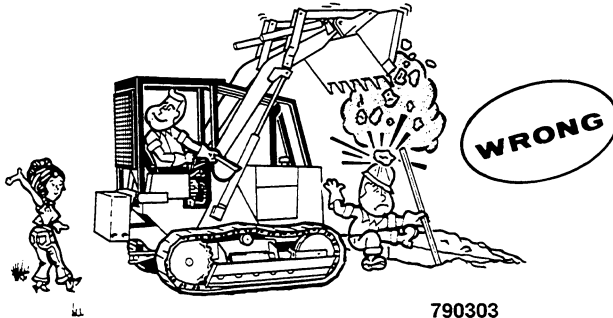
WARNING: *Keep the transmission in low gear before you go down a hill. Never go down a hill with the transmission in Neutral. The machine can go out of control and cause a roll-over.*

44-5-B



CAUTION: *Be careful at all times. Keep the area clear of persons who are not authorized to be there. Know the location of authorized persons in the area.*

2-3-A




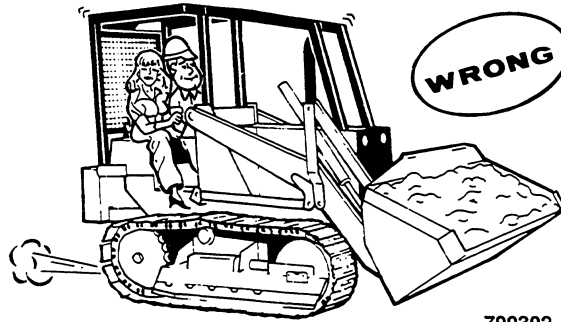
790303





CAUTION: *Always use the hand rails and steps when you get on or off the machine. Do not use the controls as a hand rail. Any other method can cause an injury.*

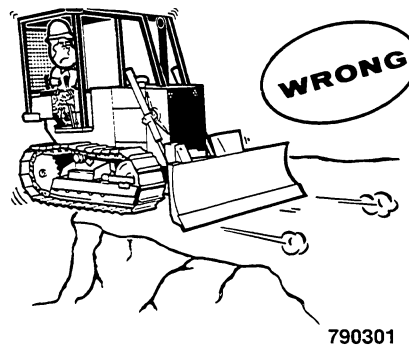
47-70

 **WARNING:** Do not permit other persons on the machine. Other persons on the machine can cause an accident. 47-48



 **WARNING:** If you know there is a malfunction, a missing part or a part that needs adjustment, stop the machine immediately and correct the problem. Continued operation under these conditions can cause an accident or injury. 37-8-A

 **CAUTION:** Always operate slowly on hillsides, rough ground or ramps. Be extremely careful when working around trenches or banks. Failure to follow the above recommendations could cause the machine to roll over. Personal injury could result. D-26-10-A





DANGER: Do not permit any part of the machine to come in contact with electric cables. If work must be done near electric cables, first make sure the Utility Company disconnects the power. It is not necessary for the machine to be in contact with the electric cable for the electricity to go through the machine. If the machine does come in contact with a power line, stay in the seat. Do not try to get off the machine. **KEEP AWAY FROM THE METAL PARTS OF THE MACHINE.** See the chart that follows. 4-4-B

Voltage of Electric Cables	Minimum Amount of Clearance from the Electric Cables When the Machine is Working	Minimum Amount of Clearance from the Electric Cables When You Drive the Machine Between Jobs
50,000 volts or less	10 feet (3 m)	4 feet (1.2 m)
Over 50,000 volts	10 feet (3 m) plus 1/2 inch (10 mm) for every 1,000 volts over 50,000 volts	10 feet (3 m)
345,000 - 750,000 volts		16 feet (5 m)

NOTE: If the clearances in the specifications above are less than the clearances given in the rules and laws of your area, you must follow the rules and laws of that area.

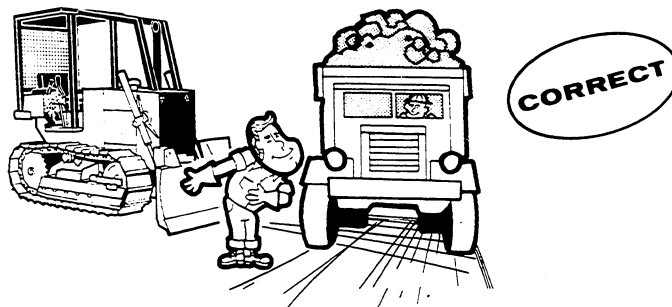
781171



WARNING: Keep the transmission in low gear before you go down a hill. Never go down a hill with the transmission in Neutral. The machine can go out of control and cause a roll-over. 44-5-B



CAUTION: Know and understand the arrangements for movement of trucks, machines, persons, etc., on your job. Understand and follow the instructions of the flagman, road signs, or signals. Failure to follow these instructions can cause an accident. 29-3-A



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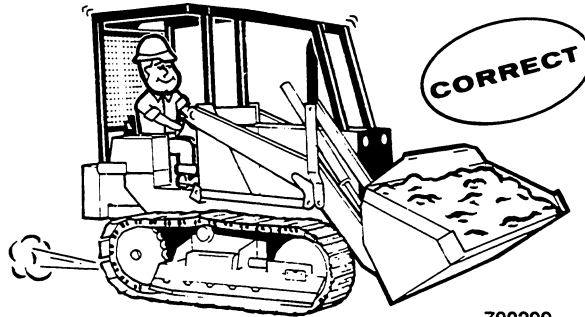
Loader and Dozer Operation



CAUTION: Make sure all persons are away from the machine before you start the engine. 28-10-A



WARNING: When you operate the machine, keep the loader bucket as low as possible. This low position gives better balance and permits you to see more clearly. If you move the machine with a full loader bucket over ground that is rough or surfaces that can cause the machine to slide, always operate at a slow speed. If you do not use this procedure, the machine can go out of control and cause a roll-over. 18-6-C



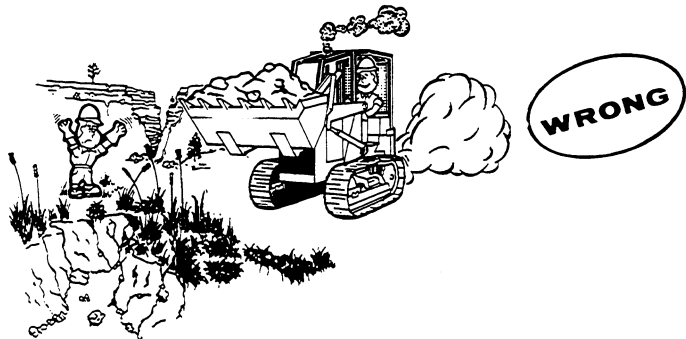
790299



WARNING: Be careful when you operate the machine in dust, smoke or fog. If you can not see clearly, you can have an accident. 34-7-A



WARNING: Before you start to work in a new area, walk around and look for holes or obstructions. Failure to find hidden holes or obstructions can cause an accident and injury. 26-5-A



790287



WARNING: Know the location of all underground electrical cables, water pipes, gas pipes, etc. A broken gas pipe or cut electrical cable can cause injury. 26-8-A



CAUTION: *Self-leveling is in effect only when raising; not in effect when lowering. Spillage of material could result if the bucket is not leveled by the operator as loader is lowered.*

D-45-16



WARNING: *When you operate the loader on a hill with material in the bucket, always go up the hill in the forward direction. Always go down the hill in the rearward direction.*

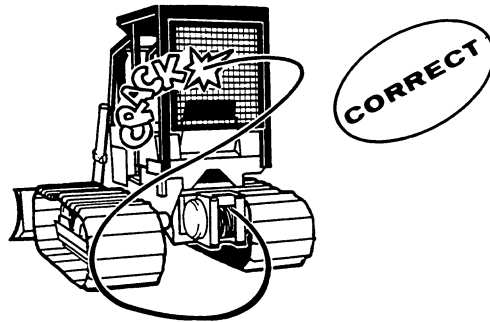
47-72

Winch Operation



WARNING: *Before you operate the winch, make sure the rear screen on the ROPS is correctly installed. The rear screen will give you protection if you break the winch cable.*

47-73



790298



WARNING: *Before you start each day, look at the cable, cable fittings, hooks, etc. Make sure none of these items are damaged. A damaged part can cause an accident.*

47-78

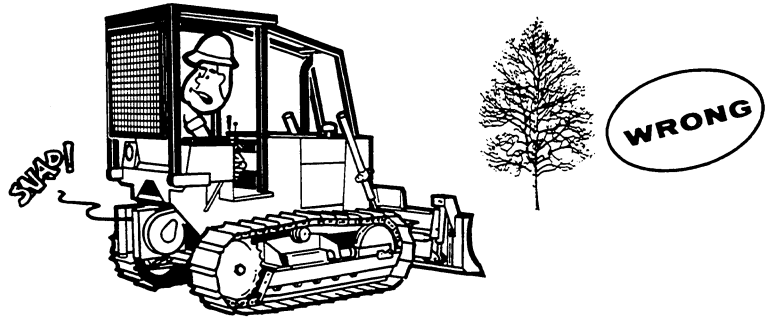


WARNING: *Do not leave the crawler if there is a load connected and there is tension on the winch cable. The load can come loose from the cable and you or persons in the area can be injured.*

47-74



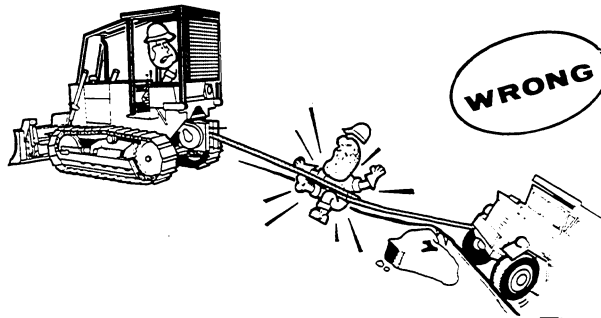
WARNING: Do not use a cable that is damaged. A cable is damaged if you can see a decrease in the cable diameter, broken strands or twists. 47-75



790297



WARNING: Do not permit people to stand in a loop of the cable. Keep all persons away from the cable when you operate. 47-80



790296



WARNING: When you unwind the cable from the winch and you have a load on the cable, always keep three complete loops of cable on the winch drum. If you unwind all the cable from the winch drum, the cable ferrule will come out of the winch drum. Personal injury can result. 47-79



CAUTION: Always use heavy duty gloves when you are handling cable. If the cable has broken strands, you can injure your hands. 47-76



WARNING: Burns can result if you touch molten lead. Wear heavy gloves, clothing that gives protection and a shield for your face. 47-31-A

Backhoe Operation



WARNING: Always use the hand rails, steps or grab handles when mounting the machine. Keep this area clean at all times. A slippery step or greasy hand rail could cause a bad fall.

29-5



795521



CAUTION: Operate backhoe from seat position only. Any other method could result in serious injury.

D-28-3




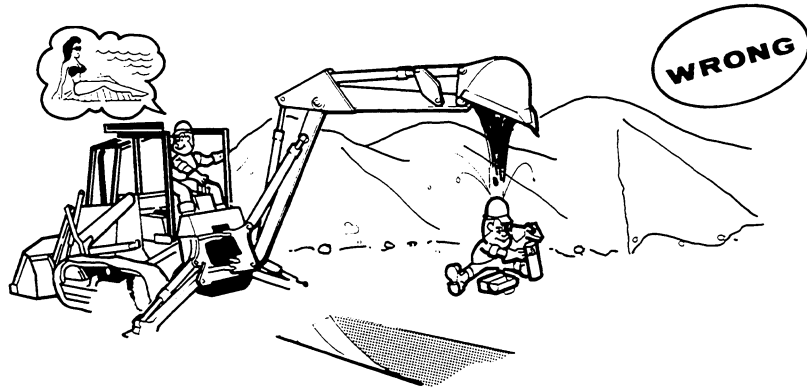
WARNING: Keep clear of this area, swinging boom can crush. Operate backhoe from operator's seat only. Any other method could result in injury to operator or bystanders.

D-47-56





790295

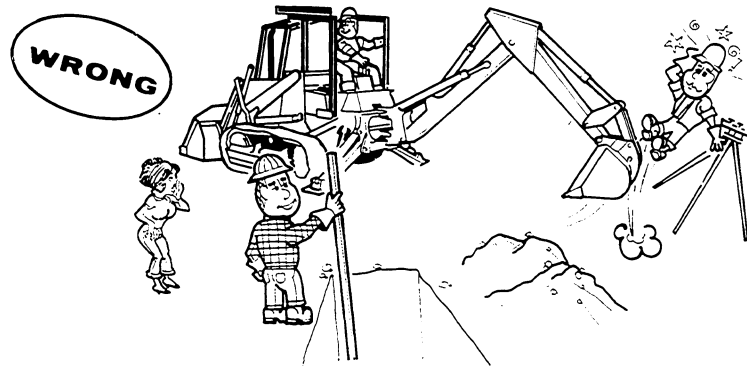
 **CAUTION:** Be careful at all times. Keep the area clear of persons who are not authorized to be there. Know the location of authorized persons in the area. 2-3-A




790294

 **WARNING:** Do not dig the ground under the backhoe stabilizers. The machine can fall into the excavation if the bank falls in. 41-8-A

 **WARNING:** Before you move the backhoe boom to either side, make sure that all persons are out of the way. Make sure that the area is clear of obstructions. 7-10-A



790293

 **CAUTION:** Be sure transport chains are properly installed on backhoe boom before traveling on roads or between job sites. The chains prevent accidental lowering of the backhoe. 41-11

PTO Operation



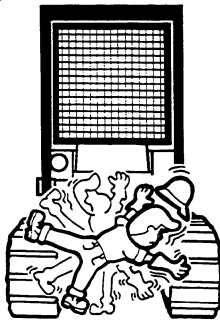
WARNING: Normal P.T.O. operating speed is 540 rpm. Do not operate P.T.O. in excess of 550 rpm. Excess P.T.O. speed could cause equipment hazard resulting in personal injury. Do not operate P.T.O. without shield attached and tachometer working.

D-47-98-A



WARNING: Keep all shields and guards in place unless servicing, cleaning or adjustments are to be performed. Before servicing, stop the engine, set the parking brake and shift the PTO control to the Off position. Unguarded PTO shafts can cause serious injury.

30-7



790292



WARNING: STATIONARY: When doing stationary PTO work and dismounting from the tractor with the PTO running, keep clear of all moving parts as they are a potential safety hazard.

42-6-A



WARNING: MOBILE: On a mobile power take-off application, always disengage the P.T.O. and stop the engine before dismounting from the tractor.

42-7-B



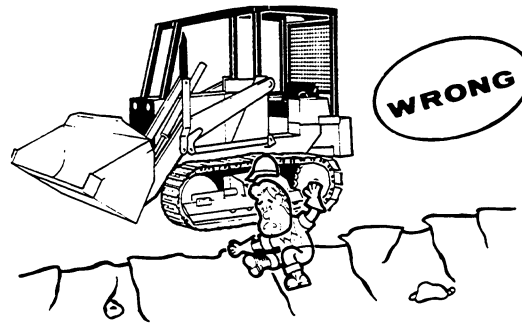
WARNING: Rotating machine parts, stay clear, keep shields installed to help protect from clothing entanglement and injury. Wear close-fitted clothing.

D-42-2

Stopping the Machine



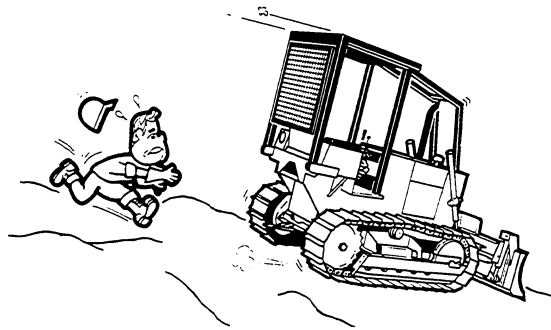
CAUTION: Be careful when you leave the machine. Use the hand rails and steps on the machine. Any other method can cause injury.
27-2-B



790291



WARNING: Make sure you are on level ground before you stop the engine and leave the machine. If you must stop on the side of a hill, put the side of the machine toward the bottom of the hill. Engage the parking brake and lower the attachments, such as the loader bucket, dozer blade, or ripper to the ground. Stop the engine and remove the key. Failure to follow these instructions can cause an accident.
47-88



790305