

**40 Crawler  
Series D**

**Operators Manual**

S406272M1



**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.**

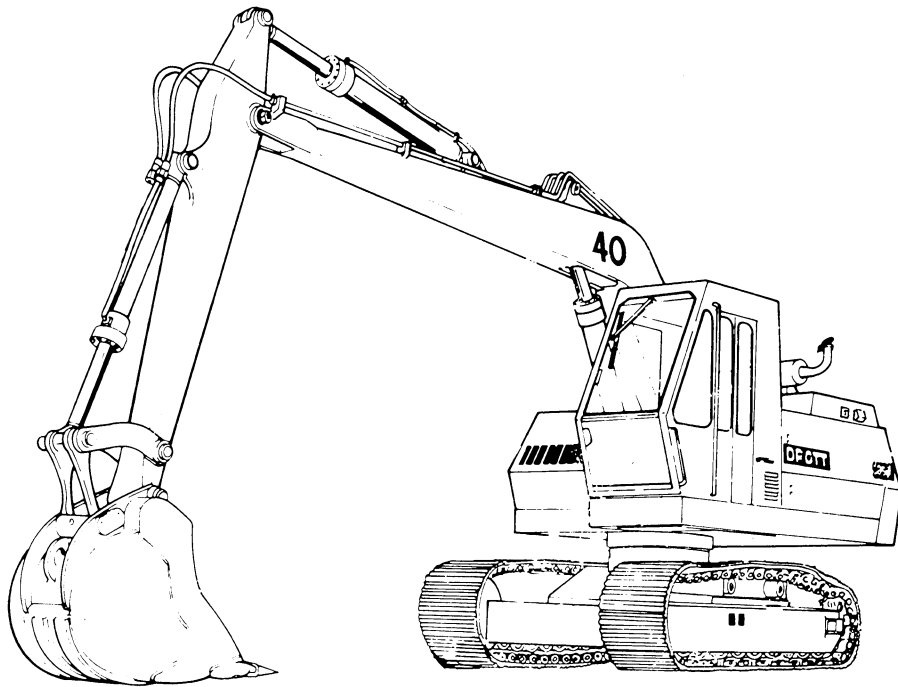
BEFORE STARTING THE ENGINE, DO THE FOLLOWING:

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.










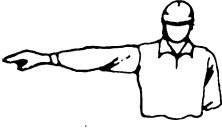


See your Authorized Case dealer for additional operator's manuals, parts catalogs, and service manuals.



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## HAND SIGNALS

|   |   |   |  |
|---|---|---|--|
| <p><b>USE LOAD LINE</b><br/>Tap fist on head, then use regular signals.</p>    | <p style="text-align: center;"><b>RAISE LOAD</b></p>   | <p style="text-align: center;"><b>LOWER LOAD</b></p>   | <p style="text-align: center;"><b>RAISE LOAD SLOWLY</b></p>   |
| <p style="text-align: center;"><b>LOWER LOAD SLOWLY</b></p>    | <p style="text-align: center;"><b>RAISE BOOM</b></p>   | <p style="text-align: center;"><b>LOWER BOOM</b></p>   | <p style="text-align: center;"><b>RAISE BOOM AND LOWER LOAD</b><br/>Extend thumb upward and flex fingers in and out as long as load movement is desired.</p>  |
| <p style="text-align: center;"><b>LOWER BOOM AND RAISE LOAD</b><br/>Extend thumb downward and flex fingers in and out as long as load movement is desired.</p>  | <p style="text-align: center;"><b>SWING</b> - Extend arm with forefinger indicating direction of swing.</p>  | <p style="text-align: center;"><b>STOP</b> - Extend forearm and hand in horizontal position and make slicing motion.</p>  | <p style="text-align: center;"><b>DOG EVERYTHING</b></p>   |

## ELECTRICAL CONDUCTOR CLEARANCE CHART

| Conductor Voltage                             | Minimum Working Clearance from Conductor                    | Minimum Transit Clearance from Conductor |
|---|---|--|
| 50,000 v. or less                             | 10' (3.1m)  | 4' (1.3m)                                |
| Over 50,000 v. up to and including 345,000 v. | 10' (3.1m) plus 0.4" (10.2mm) for each 1,000 v. over 50,000 | 10' (3.1m)                               |
| Over 345,000 up to and including 750,000 v.   |   | 16' (4.9m)                               |

**NOTE:** Where local or other applicable safety codes or regulations specify greater clearance distances, the local or other applicable safety codes or regulations shall apply.

## **SAFETY PRECAUTIONS**

For your safety and the safety of those around you it is very important that you use caution when operating this equipment. Know the positions and functions of all controls before you start operation. **MAKE SURE YOU CHECK ALL CONTROLS IN A SAFE AREA BEFORE STARTING YOUR WORK.**

**READ THIS MANUAL COMPLETELY** and make sure you understand its contents. All equipment has limits. Make sure you understand all operating characteristics of this machine before starting to operate.

The safety information in this manual does not replace safety codes, insurance requirements, federal, state and local laws, rules and regulations. Know the regulations and laws that apply to your area and make sure that your machine is in agreement with such laws and regulations.



**WARNING: ELECTROCUTION HAZARD** - To prevent serious bodily injury:

**NEVER** operate this or any equipment in an area in which overhead powerlines, overhead or underground cables or power sources exist without first notifying the appropriate power company or utility company to de-energize the lines or take other suitable precautions.

**NEVER** operate machine, any part thereof, or load closer to any electrical powerline or power source than the distance specified or required by Federal, State/Provincial, Local, or other applicable safety codes or regulations. In addition, United States OSHA regulations require a flagman when operating in close proximity to energized powerlines.

**NEVER** operate machine without first consulting Federal, State/Provincial, Local or other applicable safety codes or regulations.

It is the employer's responsibility to implement the above precautions and to provide the employee(s) with all safety devices or means that may be necessary or required for any particular use, operations, set-up, or service.

**NOTE:** It is not necessary to come into contact with a utility line for the electrical energy to ground through the machine. IF electricity does ground through the machine, remain in the cab. **DO NOT ALLOW ANYONE TO TOUCH THE MACHINE STRUCTURE.**



**WARNING:** Always insure that the work area is clear of any people or obstructions **BEFORE** operating unit.



**WARNING:** Any changes to the controls must be clearly noted and posted in the Operator's Cab. If any control changes are made, a new Operator's Control Pattern decal must be installed in the cab to warn other operators of the changes.



**WARNING:** Never operate this machine unless you are fully aware of the location of all the controls.



Before starting the engine make sure all operating controls are in **NEUTRAL**.



**CAUTION:** Never leave the engine running when the machine is unattended.



**CAUTION:** Whenever releasing grease from the track adjustment cylinder, loosen the Adapter **SLOWLY**. Very high pressures can exist in the adjustment cylinder when under tension. The adapter fitting could fly loose and cause personal injury.



**WARNING:** Stay away from pit edges or other unstable ground conditions that may give away.



**CAUTION:** **BEWARE** of caving edges and overhanging banks while digging. **ALWAYS** keep a close check on the pitmen - quickly alert them of any possible cave-in.



**CAUTION:** **ALWAYS** be sure that the boom is resting on the ground before leaving machine. Never shut down until the machine has been moved a safe distance from a high bank or pit.



**CAUTION:** **ALWAYS** get a signalman if you cannot see a moving load. Then ensure that the signalman is in full view at all times. **AGREE** in advance of the set of signals to be used.



**CAUTION:** At all times during operation **BE ALERT!** Watch for people or obstructions. **ALWAYS USE EXTREME CAUTION** when operating in the vicinity of people.



Never get on or off a machine while it is moving.



**CAUTION:** The only person required when the machine is operating is the Operator. Never allow anyone to ride on the outside of the machine. Never allow anyone to ride in or on the attachment.



**WARNING:** Before swinging, check the area around the machine for people or objects within range of the boom or counterweight.



**WARNING:** Never pass the boom, bucket or any other attachment over the heads of people. Sound the warning horn and wait for the area to be cleared before proceeding.



**CAUTION:** Never obstruct the house brake lever. It may be necessary to use it for an emergency stop.



**DANGER:** Always be certain of the exact location of utility pipes when digging. **THIS IS AN ABSOLUTE NECESSITY WHEN WORKING NEAR GAS LINES.** Mark the location of these lines **BEFORE** digging and then have someone check their position periodically while digging is underway.



**WARNING: USE EXTREME CARE WHEN TRAVELING ON SLOPES.** If the Boom is crowded all the way out it will outweigh the Counterweight. If the Boom is crowded all the way in the Counterweight outweighs the Boom. If it becomes necessary to swing the Turntable on a slope or hillside, swing the heavier part of the Turntable to the uphill side.



Always use both hands when climbing on or off the machine.



**CAUTION:** ENGAGE digging brakes whenever the unit is not "crawling". Accidental engagement of the Drive Lock Button will cause the machine to immediately move in the forward direction.



**WARNING:** DO NOT service the machine with the engine running. If necessary to make checks with engine operating, have one man stay at the controls while the other makes the check.



Inspect your machine daily for loose, worn or damaged parts. Have unsafe conditions corrected IMMEDIATELY.



**CAUTION:** When checking coolant level, remove radiator cap slowly to relieve pressure within the system.



**WARNING:** Wear Eye Protection when servicing this machine.



**CAUTION:** To prevent injury, use care when working with bucket close to machine. It is possible to move the bucket into the cab structure and break the windows.



**POISON/DANGER: BATTERY ACID CAUSES SEVERE BURNS.** Batteries contain sulfuric acid. Avoid contact with skin, eyes or clothing.

Antidote: **EXTERNAL** - flush with water. **INTERNAL** - drink large quantities of water or milk. Follow with Milk of Magnesia, beaten egg or vegetable oil. Call physician immediately. **EYES:** Flush with water for 15 minutes and get prompt medical attention.

**KEEP OUT OF REACH OF CHILDREN.**



**WARNING:** Do NOT allow battery fluid to contact skin, eyes, fabric or painted surfaces. Battery fluid is sulfuric acid solution which could cause serious injury or property damage.



**WARNING:** Because of the danger of explosion always present when connecting live batteries to dead batteries, NEVER lean over batteries when connecting jumper cables.





**WARNING: BATTERIES PRODUCE EXPLOSIVE GASES.** Keep flames, sparks and cigarettes away. Ventilate when charging or using in enclosed space. Always shield eyes when working near batteries.



**WARNING:** This machine must be level when torquing turntable capscrews. Since it is necessary to disconnect the swing brake, the boom will swing to the down side unless the machine is level. Blocking or resting the boom in the required position is not recommended.



**WARNING:** To prevent injury from burns always use a non-flammable solvent for cleaning component parts. **DO NOT** use gasoline or other flammable substances.



**CAUTION: ENGINE FAN AND BELTS** To prevent possible serious injury avoid contact with rotating fan and belts.



Disconnect both leads from the batteries when working on the engine or electrical system. Always disconnect the Ground lead first.



**WARNING:** Never refuel when the engine is hot or running. **DO NOT SMOKE** when refueling, using starting fluid, or working with batteries.



**CAUTION: ALWAYS** keep the deck and step area free of oil, grease and refuse to minimize slipping.



When moving a load, keep it as close to the machine and as low to the ground as possible.



Keep a fire extinguisher on hand and **KNOW HOW TO USE IT.** Check it regularly to ensure it is in good working order.



**WARNING:** To prevent personal injury, keep hands clear of swing pinion while lubricating the turntable ring gear.