

# Operators Manual

9-6292

**CASE**

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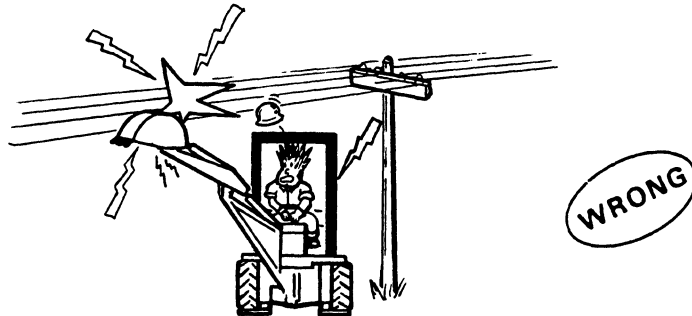
**WARNING: Articulating joint! Stay clear of this area. Accidental articulation could result in personal injury.**



**DANGER: Keep all machine parts away from live electrical lines. If work must be done close to high voltage lines, have the utility disconnect them. It is not necessary to actually contact a power line for the electricity to ground through the machine. If power does ground through the machine, remain on the machine and DO NOT TOUCH THE MACHINE STRUCTURE. Refer to the following chart.**

CONDUCTOR VOLTAGE	MINIMUM WORKING CLEARANCE FROM CONDUCTOR	MINIMUM TRANSIT CLEARANCE FROM CONDUCTOR
50,000 Volts or Less	10' (3m)	4' (1.2m)
Over 50,000 Volts	10' (3m) plus 0.4' (10.2mm) for each 1,000 volts over 50,000	10' (3m)
345,000 to 750,000 Volts		16' (4.8m)

**NOTE: If above requirements are less stringent than State requirements, the State Requirements shall apply.**



**WARNING: Operate backhoe from operator's seat only. Operation from any other position could result in personal injury.**



**WARNING: Never dig under the backhoe stabilizers. The machine could tip into the excavation if the bank caves in.**



**WARNING: When operating on a slope, always position the machine to swing the backhoe to the uphill side if possible. Avoid step slopes or machine positions that are unstable while moving or while operating the backhoe.**

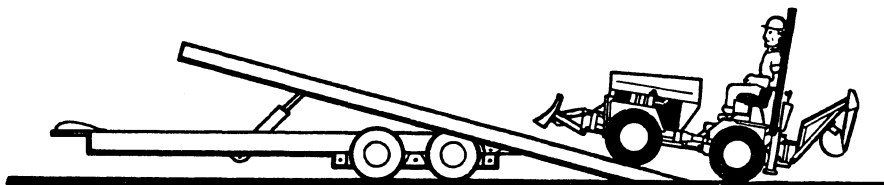


## TRAILERING



**WARNING:** When transporting the machine on a trailer, be sure to drive on and off squarely so as not to drive off the side of the trailer and tip the machine.

The proper method of loading the machine onto a tilt-bed trailer is shown below. If a stationary bed trailer is used and the machine must be driven up a ramp, back the machine up the ramp. Always have the backhoe in the transport position when loading or unloading.



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When the machine is on the trailer, engage the parking brake. Disengage backhoe transport link and lower the backhoe to the trailer floor. Lower the backfill blade to the trailer floor. Block wheels securely and attach transport chains.

**IMPORTANT:** Do not attach transport chains across the articulating joint.

## PRE-STARTING SAFETY PRECAUTIONS



**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 manuals may be obtained from your Case dealer.



**CAUTION:** Carry and maintain your fire extinguisher and first aid kit at all times. Know how to use them both.

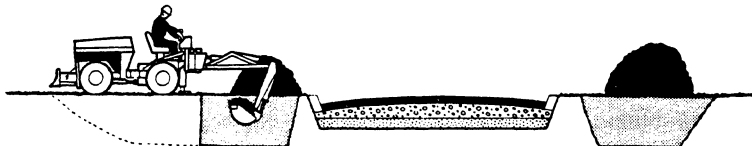


**CAUTION:** Be sure the operator's area, steps, and grab handles are free of oil, loose objects, or ice. During operation, stop and take time to clear the operator's area as required. Remove or secure all maintenance or personal items. Failure to keep these areas clean could cause a serious accident.



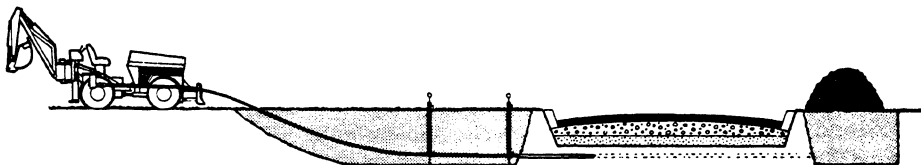
**WARNING: During hydra-boring operation keep all personnel out of trench and target hole. Contact with moving parts could result in personal injury.**

2. Dig a trench to the desired depth, approximately two or three times the length of the drill stem being used. Gradually taper the hole so the drill stem makes a gradual bend to the surface.



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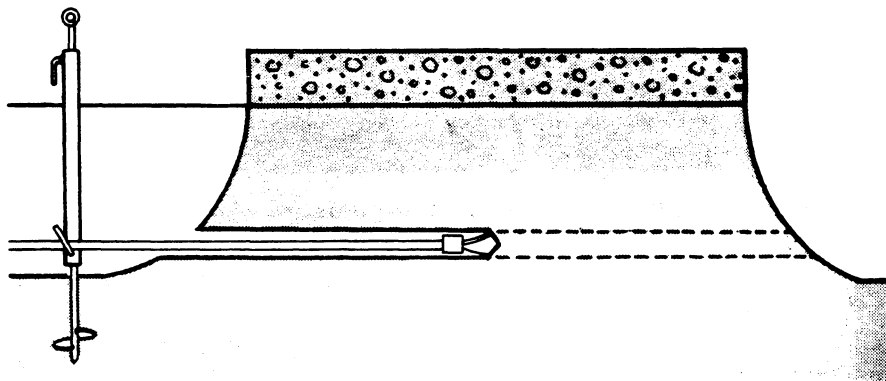
3. Locate the guide anchors and level the drill stem in order to bore a straight line.



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4. Move the control lever forward to obtain clockwise rotation of the drill stem and bit. Use the Mono-Stick to control ground speed. The ground speed should be sufficient to allow the bit to work freely while boring.

**NOTE: DO NOT FORCE BORE THE HOLE. If the bit should strike and glance off an obstruction, such as a rock, the pressure exerted by the forcing of the drill stem will cause the bit to follow an out-of-concentric boring pattern. Damage to the drill stem can result.**



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5. If the bit becomes jammed or clogged, reverse rotation of drill stem and bit by moving the control lever to the rear position. This will clear the bit.

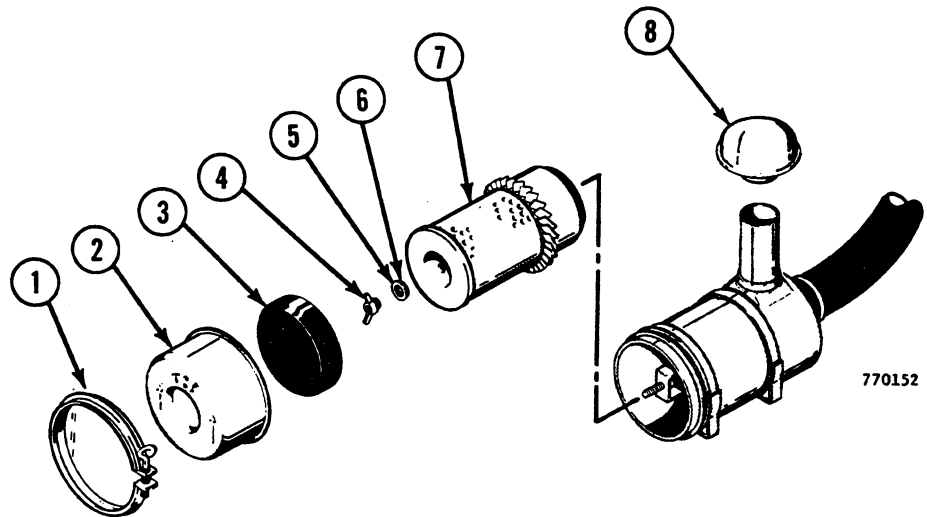
**NOTE: When changing the oil filter, an additional .05 quart (0.5 litre) of oil must be added to fill the filter cartridge.**

Start the engine and run for a few minutes. Stop the engine and check around filter base for leaks. If necessary, tighten the filter slightly. Recheck oil level at the dipstick

## ENGINE AIR CLEANER

Gasoline engines require a large volume of clean air. The service life of your engine depends greatly upon daily attention to the air filtering system. Under severe dust conditions, it may be necessary to service the air cleaner several times daily.

### AIR CLEANER SERVICE



When servicing the air cleaner, remove the precleaner cap (8) and check the screen. Clean the screener cap or replace if necessary.

To clean the dust cap, loosen the retaining clamp (1) and remove the cap (2). Remove the baffle (3) inside the cup and shake out the cup. Wipe the baffle and cup with a clean damp cloth. Reinstall baffle and dust cup.

**IMPORTANT: The cup must be installed with arrows pointing up so that the slot on top of the cup allows free air flow while the rest of the cup acts as a dust accumulator. Never allow the dust level to come closer than 0.5 in. (13 mm) of the slot. Under severe dust conditions, empty the dust cup several times daily or as often as necessary.**

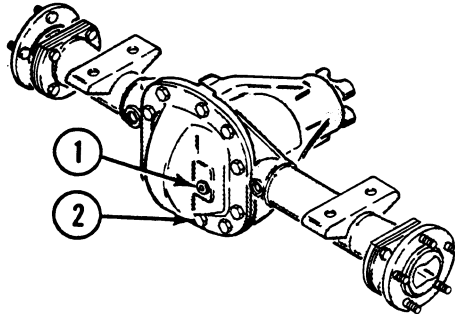
To remove the element, take off the dust cup and the retaining wing nut (4), washer (5), and seal (6). Pull out the filter element (7). The plastic fins and rubber seal on the element are not removable.

**NOTE: Do not start the engine when the filter element is removed from the body. Place a warning tag on the key switch.**

## FRONT AND REAR AXLES

### OIL CHECK

The oil level in the front and rear axles should be checked after every 1000 hours of operation. With the machine parked on level ground, remove the filler plug (1). Oil level should be within 1/2 in. (13 mm) of the filler plug hole.



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If level is low, add oil as required in accordance with the recommendations in the "FUELS AND LUBRICANTS" section of this manual.

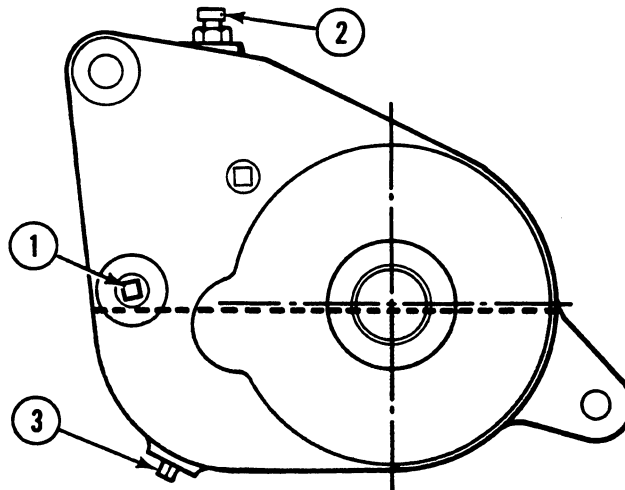
### OIL CHANGE

The oil in the front and rear axles should be changed after 1000 hours of operation or yearly, whichever comes first. Remove the plug (1) and the bottom bolts (2) securing the cover plate and drain completely. Replace plug and bolt and fill with new oil to within 0.5 in. (13 mm) of the filler hole.

## FINAL DRIVE GEARBOX

### OIL LEVEL

The oil level in the final drive gearbox should be checked after every 100 hours of operation. Oil level should be even with the bottom of the filler plug (1) as shown below



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