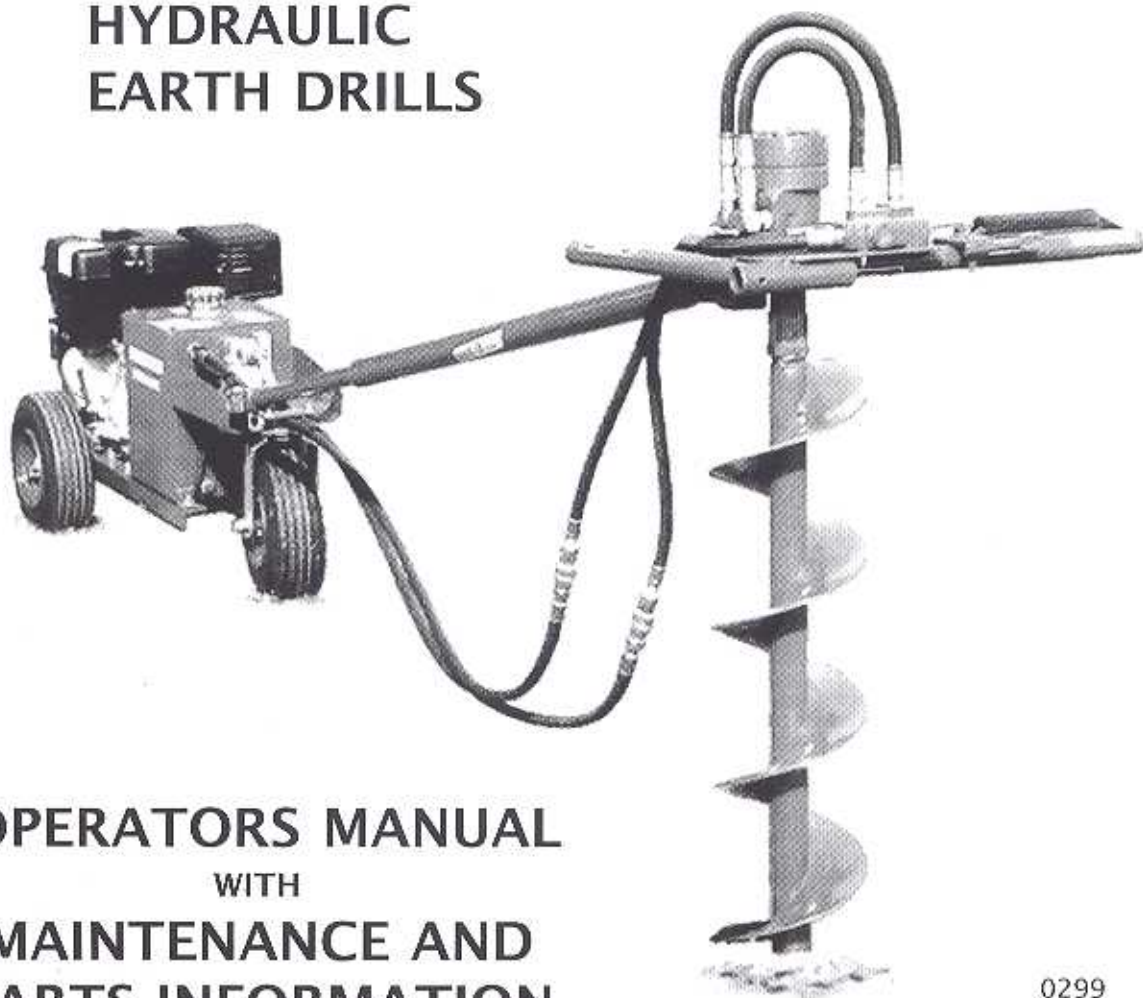




LITTLE BEAVER[®]

EARTH DRILLS & AUGERS

**HYDRAULIC
EARTH DRILLS**



**OPERATORS MANUAL
WITH
MAINTENANCE AND
PARTS INFORMATION**

0299

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LITTLE BEAVER, INC.

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SAFETY INSTRUCTIONS



DANGER: Failure to observe safety instructions and reasonable safety practices can cause Property Damage, Serious Bodily Injury and/or Death. BE CAREFUL!! WATCH OUT FOR BYSTANDERS!!



DANGER: NEVER run engine inside building or enclosed area. Exhaust gases contain carbon monoxide, an odorless and deadly poison.



DANGER: NEVER drill holes where there is a possibility of underground power cables or other hazards. The exact location of underground services must be determined prior to drilling. Inadvertent severing of telephone, fiber optic or CATV transmission cable, or damage to sewer pipe is costly; RUPTURING OF GAS OR WATER LINES CAN CAUSE SERIOUS BODILY INJURY AND/OR DEATH. COMING INTO CONTACT WITH BURIED POWER LINES CAN CAUSE SERIOUS BODILY INJURY, SEVERE BURNS, AND/OR ELECTROCUTION. Call local utility companies or your local "One-Call" number at least 48 hours before digging and have underground utilities marked.



WARNING: Never use hands to search for leaks. Instead, use a piece of cardboard or wood. Escaping hydraulic fluid under pressure can have sufficient force to penetrate the skin, causing serious injury. Before disconnecting lines, be sure to relieve pressure. Before applying pressure, be sure connections are tight and fittings and hoses are not damaged.



WARNING: Augers are not to be used as anchoring devices.



CAUTION:

1. READ and understand this operator's manual and the operator's manual for the engine.
2. NEVER Operate drill without correctly installing torque tube.
3. NEVER Remove auger from hole while auger is turning.
4. NEVER Operate auger at less than full throttle.
5. NEVER Operate drill with damaged auger or other damaged or missing parts.
6. KEEP Hands, Feet and Clothing away from moving parts while engine is running.
7. KEEP All safety shields and devices in place.
8. MAKE Certain everyone is clear before operating the machine.
9. KEEP Leg pad against leg while drilling to maintain safe control.
10. WEAR SAFETY GLASSES.
11. KEEP Bystanders away from work area.
12. SHUT OFF Engine to adjust, service or clean the machine.

NOTICE

It is the responsibility of the contractor, owner and user to maintain and operate the Earth Drill in compliance with operating instructions provided. Observe all listed safety instructions and other reasonable safety practices. LB EQUIPMENT, INC. accepts no responsibility for damages to this machine, and other property damage and/or bodily injury due to careless or improper operations.

LB EQUIPMENT, INC. does not recommend or condone any modifications which would eliminate the torque tube.

LB EQUIPMENT, INC. does not recommend use of replacement hydraulic motors which would result in auger shaft torque greater than 400 ft.-lbs. If greater torque is required, please consult factory.

LB EQUIPMENT, INC. reserves the right to make changes in design and changes for improvements upon its product without imposing any obligation upon itself to install the same upon its products theretofore manufactured.

Your operators manual offers recommendations for prolonged and satisfactory service.


SPECIFICATIONS

- 11 HP Honda, 11 HP Briggs & Stratton OR 11 HP Wisconsin
- 6 GPM @ 2000 PSI
- 100 Micron Suction Screen
- 10 Micron Replaceable Return Line Filter
- 5 Gallon Hydraulic Reservoir



OPERATION

TORQUE TUBE ASSEMBLY

 **WARNING:** Properly install torque tube to prevent serious injury from kick-back torque while drilling.

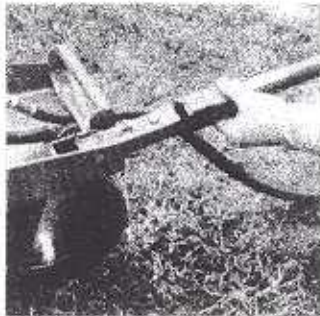


Figure 1

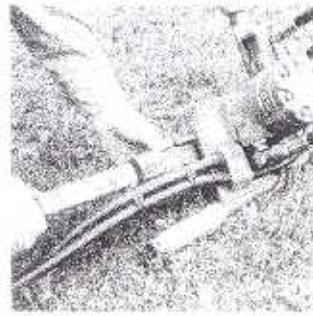



Figure 2

The torque tube consists of one end with a 1-1/2" square female fitting and a 1-1/4" square male fitting on the other end. Attach the larger female end of the torque tube to the power source bracket as shown in figure 1. Attach the other male end to the handle as shown in figure 2. Be sure to align the snap button with the mating hole provided and check to be sure the snap buttons are securely snapped into place.

BEFORE STARTING THE ENGINE, Be sure that:

 **DANGER:** NEVER run engine inside building or enclosed area. Exhaust gases contain carbon monoxide, an odorless and deadly poison.

- 1.) Engine is properly prepared to Manufacturer's specifications. Note: Engines with "Oil Guard" protection must be filled with oil to full mark on dipstick or to point of overflowing to allow the engine to start.
- 2.) Hydraulic Reservoir is filled to top of sight gauge.
- 3.) The torque tube is properly attached.
- 4.) There is no auger connected to the handle.
- 5.) The Quick Disconnect fittings are correctly coupled.
- 6.) The Torque Tube has engaged the Kill Switch at the Power Source.

TO START THE ENGINE: Set the choke lever to the "ON" position and pull the starter rope. The engine should start after 2 or 3 pulls. Set the choke lever to the "OFF" position and allow the engine to warm-up for 2 or 3 minutes.



AFTER THE ENGINE HAS WARMED UP, Insert the auger into the drive adaptor on the bottom of the handle. Make sure the snap button and hole provided in the adaptor are aligned and the button snaps securely into place. Hold the handle so your left index finger and thumb can operate the throttle (pull with the index finger for forward rotation, push with the thumb for reverse). NOTE: ONLY use reverse to free the auger if it becomes lodged in the ground. Grasp the right handle bar with your right hand. Stand so the auger is straight up-and-down and is properly positioned to dig your hole (see figures 3 & 4). Note the safety instructions in this manual and on the machine's decals.



FIGURE 3



FIGURE 4

IMPORTANT: Keep the back as vertical as possible by bending the legs, as required, during the operating and lifting procedure.

ONE-MAN HANDLE

Always keep the leg pad against leg to maintain safe and stable control during operation.

TWO-MAN HANDLE

The operator controlling the throttle lever must alert the other operator prior to engaging the earth drill to ensure readiness. Both operators must distribute even pressure on the auger, as required, to maintain uniform drilling.

! **DANGER:** NEVER drill holes where there is a possibility of underground power cables or other hazards. The exact location of underground services must be determined prior to drilling. Inadvertent severing of telephone, fiber optic or CATV transmission cable, or damage to sewer pipe is costly; RUPTURING OF GAS OR WATER LINES CAN CAUSE SERIOUS BODILY INJURY AND/OR DEATH. COMING INTO CONTACT WITH BURIED POWER LINES CAN CAUSE SERIOUS BODILY INJURY, SEVERE BURNS, AND/OR ELECTROCUTION. Call local utility companies or your local "One-Call" number at least 48 hours before digging and have underground utilities marked.

! **MAKE** certain everyone is clear before operating the machine.

! **KEEP** hands, feet and clothing away from moving parts while engine is running.

START THE AUGER TURNING By pulling the throttle lever in completely. Always allow the auger to turn at full speed and let it cut its way into the soil.

IMPORTANT: When digging in soft soil, hold up slightly on auger. In hard pan, apply pressure, but not enough to stall the auger or slow it down significantly. The auger works best when it turns at full speed.

IF THE AUGER STALLS repeatedly or slows down significantly; stop the auger by releasing throttle lever, slightly lift up on auger, start auger by pulling throttle lever, and allow the auger to turn at full speed while slowly lowering it to bottom of hole.

! **NEVER** Remove auger from hole while auger is turning.

When the desired depth is reached, stop the auger by releasing the throttle lever. Then pull the auger completely out of the hole.

IMPORTANT: Keep the back as vertical as possible by bending the legs, as required, during the operation and lifting procedure.



AUGER EXTENSIONS

If greater hole depths are required, extensions may be used with the auger. After the auger has reached its maximum depth, stop the auger and disconnect the drive adaptor from the auger which remains in the hole. Connect the extension to the auger as shown in figure 5. Connect the drive adaptor to the extension and continue to dig the hole.

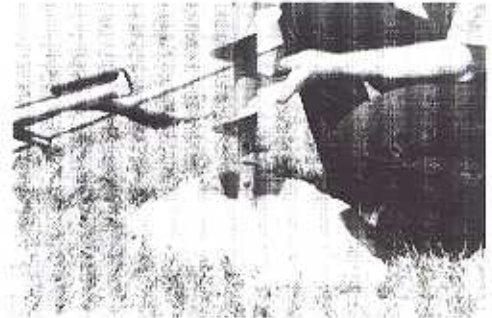



FIGURE 5

When the desired depth is reached, stop the auger and disconnect the drive adaptor from the extension then remove the extension(s) and auger from the hole.

 When working with cutting blade, point and auger flighting; be careful not to be cut by sharp edges.

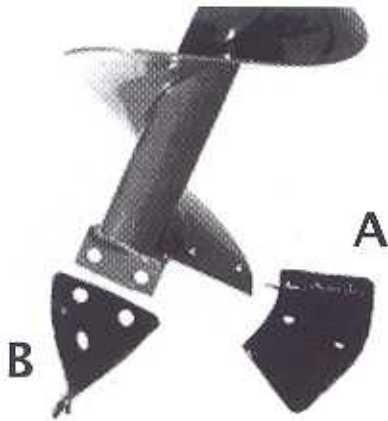


FIGURE 6

CUTTING BLADE

Check the cutting blade (Item A, Figure 6) on the auger frequently. If it becomes dull, it may be reversed to use the other cutting edge. If the outside of the blade wears even with the auger flighting, replace the blade or rebuild it with a hard surfacing rod. This is very important to reduce auger flighting wear and damage. The point (Item B, Figure 6) should be replaced when it loses its cutting shape.

TROUBLESHOOTING

<u>TROUBLE</u>	<u>CAUSE</u>
Engine will not start	<ol style="list-style-type: none">1) Torque tube is not connected at power source2) Engine stop switch is in "off" or "O" position3) Low fuel level in gas tank4) Low oil level in "Oil Guard" or "Oil Alert" equipped engines5) Spark plug fouled
Cannot connect or disconnect auger	<ol style="list-style-type: none">1) Foreign matter clogging auger adaptor2) Spring and button in top of auger is bent or broken
Auger turns too slowly and will not dig	<ol style="list-style-type: none">1) Too much downward pressure or binding on side of hole. Hold back if necessary to allow auger to turn at full speed.2) Bent linkage between control level and valve. With engine off, ensure that neither lever touches handle bar when moved to full forward or reverse position.
Auger turns but will not dig	<ol style="list-style-type: none">1) Foreign matter collected around point2) Point or blade is dull3) Wrong blade type for soil condition. Contact your dealer or factory for Little Beaver carbide blade
Auger with extension will not dig	<ol style="list-style-type: none">1) Auger or extension bent or running out of line2) Number of extensions exceeds capacity of machine
Hydraulic oil and/or hoses overheats	<ol style="list-style-type: none">1) It is normal for the hoses and reservoir to be warm to the touch. If it is very hot, consult your dealer or factory.
Auger turns when engine idles	<ol style="list-style-type: none">1) Valve or linkage is binding. Do not use. Consult your dealer or factory.
Problems not listed in table	<ol style="list-style-type: none">1) Consult your dealer or factory.

