



LITTLE BEAVER
EARTH DRILLS & AUGERS

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“Little Beaver How-To Series”

Basic Drilling Instructions for the Big Beaver Auger Drill Rig

-  **DANGER:** Never dig where there is a possibility of underground power lines or other hazards. Electrocutation or serious bodily injury may result. Before you dig, call your local one-call agency.
-  **DANGER:** Keep the machine and drilling tools away from overhead electric wires and devices. Electrocutation can occur without direct contact. Failure to keep away will result in serious injury and/or death.
-  **CAUTION:** Read and understand all operator’s manuals for equipment being used before operating. These “Operating Instructions” are to be used as a supplemental aid, not replacement, with the Big Beaver Operator’s Manual.

Big Beaver Auger Drill Rig

SETUP PROCEDURE:



- When moving Big Beaver Drill:
- 1) Drill head in lowered position
 - 2) Drill mast adjusted near vertical
 - 3) Maintain proper tire inflation



Stand drill upright, into desired position to drill hole.



Lift back stay base. Pivot and extend back stay into position.



Unhook back stay anchor chain.



Loosen set bolt on side brace.



Adjust drilling angle by turning the crank handle. Tighten set bolt on side brace after adjustment.



Initial angle adjustment should be slightly back from desired drilling angle.



Pin the center (third) hole (or the nearest hole which allow clearance from obstructions) of back stay.



Push the top of the mast forward and hook a link in the chain to the back stay. Pull back on back stay to remove slack in chain.

SETUP cont...



10

The rear of the base frame should be slightly off the ground with the chain taut.



11

Position the valve plate by removing the snap pin and pivoting to desired operating position. Reinsert the snap pin.



12

Connect male end of torque tube to drill frame. Connect female end of torque tube to power source (or other secure anchor point).

DRILLING PROCEDURE:



1

Connect the hydraulic hoses to the power source. Start the hydraulic power source. Push the throttle control to full speed. Move the hydraulic control lever to "ON" position.



2

Pull right valve to lower drill head. Push to raise drill head.



3

Pull left valve for forward (cw) rotation. Push for reverse (ccw) rotation.



4

Connect auger to drill head with pin.



5

While keeping auger parallel to mast, lower auger until point contacts ground



6

Begin drilling by rotating auger at full forward rotation and lowering the auger at a controlled rate as dictated by drilling conditions. At end of stoke, remove pin to disconnect auger.

DRILLING cont...



7 Raise drill head to connect extension. Connect extension bottom with



8 Lower drill head to connect extension top with pin. Repeat procedure until desired depth is reached.



9 Once desired depth is reached, raise drill string to top of stroke. Insert auger fork (stop) around auger (extension) barrel approximately 6-8 inches below the top of the auger (extension).



10 Lower drill head until the weight of auger string is resting on the auger fork (stop).



11 Disconnect extension bottom by removing pin.



12 Raise drill head. Disconnect extension top by removing pin.



13 Connect retrieval ring to drill head with pin.



14 Lower retrieval ring over auger (extension) top and connect with pin. Remove auger fork (stop) after auger string is secured by retrieval ring.



15 Continue procedure until lead auger is removed.



NOTE: It may be beneficial to pivot drill head to the side when adding or removing extensions.