

TROUBLE

CAUSE

Engine will not start	<ol style="list-style-type: none">1) Stop switch in off position on handle.2) Engine stop switch is in "OFF" or "O" position.3) Low fuel level in gas tank.4) Low oil level in "Oil Guard" or "Oil Alert" equipped engines.5) Spark plug is fouled.6) Engine fuel valve lever in OFF position.
Cannot connect or disconnect auger.	<ol style="list-style-type: none">1) Foreign matter clogging auger adaptor.2) 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) Linkage between control lever and valve is mis-adjusted. With engine off, ensure that neither lever touches handle bar when moved to full forward or reverse position. Re adjust linkage if necessary.
Auger turns but will not dig.	<ol style="list-style-type: none">1) Foreign matter collected around point.2) Point or blade is dull.3) Wrong blade type for soil conditions. Contact dealer or factory for Little Beaver carbide blades.
Auger with extension will not dig.	<ol style="list-style-type: none">1) Auger or extensions bent or running out of line.2) Number of extensions exceeds machine capacity.
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 will not stop turning when lever is released	<ol style="list-style-type: none">1) Valve or linkage is binding. Do not use. Contact your dealer or factory.
Problems not listed in table.	<ol style="list-style-type: none">1) Consult your dealer or factory.

SAFETY PRECAUTIONS

⚠ 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 drill holes where there is a possibility of underground power cables or other hazards.

⚠ DANGER: NEVER tow at a rate of speed greater than 25 mph. Adjust coupler to 2" ball only. Properly install safety chains.

⚠ 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.

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

⚠ CAUTION:

- READ and understand your operator's manual and the operator's manual for the engine.
- NEVER Remove auger from hole while auger is turning.
- NEVER Operate auger at less than full throttle.
- NEVER Operate drill with damaged auger or other damaged or missing parts.
- KEEP Hands, Feet and Clothing away from moving parts while engine is running.
- KEEP All safety shields and devices in place.
- MAKE Certain everyone is clear before operating the machine.
- KEEP Bystanders away from work area.
- WEAR SAFETY GLASSES.
- SHUT OFF Engine to adjust, service or clean the machine.
- KEEP the SMV identification sign clean. The SMV identification sign must be replaced if it becomes faded or damaged.

Little Beaver How-To Series

Basic Operating Instructions* for the Hydraulic Towable Earth Drill



Balanced, Torque-Free Hydraulic Towable Earth Drill features:

- Reversible auger rotation
- Two-position handle allows drilling right next to building walls or other obstructions
- 20° head tilt allows drilling vertically on slopes or uneven terrain.

*These instructions are a supplement to the Operator's Manual, not a replacement.

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Towable Earth Drill

OPERATING INSTRUCTIONS

How to operate the Earth Drill

BEFORE STARTING THE ENGINE

Be certain that:

- (1) The tow bar is detached.
- (2) The auger is attached.
- (3) All stop switches are in the "ON" position.
- (4) The engine fuel valve lever is in ON position.

TO START THE ENGINE

Set the choke lever to the "ON" position and pull the starter rope. The engine should start after two or three pulls. Set the choke lever to "OFF" and allow the engine to warm up for two or three minutes. Run engine at full throttle while drilling.

AFTER THE ENGINE HAS WARMED UP

There are two methods of operation for drilling with the towable hydraulic. Since the auger is driven about an arc around the axle, compensation must be made for the arc motion to ensure a vertical hole.

METHOD I: Starting with the auger in vertical alignment, the machine must be rolled away from the auger slightly as the auger is advance downward. Conversely, the machine must be rolled toward the auger slightly as the auger is removed upward.

METHOD II: Starting with the auger in an angled alignment, the point of the auger should be positioned away from the axle, creating an angle from vertical. Without moving the position of the wheels or axle, advance the auger to the desire depth. At the desired depth, the top of the auger should be in vertical alignment with the bottom of the auger. This procedure will allow the removal of the auger from the hole without moving the position of the wheels or axle.

⚠ DANGER: NEVER Drill holes where there is a possibility underground power cable or other hazards.

⚠ CAUTION: MAKE certain everyone is clear before operating the machine.

⚠ CAUTION: KEEP hands, feet and clothing away from moving parts while engine is running.

START THE AUGER TURNING by pulling the actuator 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.

NOTE: Only use reverse to free the auger if it becomes lodged in the ground.

IF THE AUGER STALLS repeatedly or slows down significantly; stop the auger by releasing actuator lever, slightly lift up on auger, start auger by pulling actuator lever, and allow the auger to turn at full speed while slowing lowering it to the bottom of hole. When the desired depth is reached, stop the auger by releasing the actuator lever. Then pull the auger completely out of the hole.

⚠ CAUTION: NEVER Remove auger from hole while auger is turning.

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

CHECK THE CUTTING BLADE

Check the sharpness of the cutting blade frequently. If it becomes dull, check with your dealer or factory for a replacement. Do not use an auger blade which has worn even with the auger flighting.

⚠ CAUTION: NEVER operate the earth drill with a damaged auger.



1 Unhook tow bar from 2" ball (vehicle). Remove tow bar from machine.



2 Fold handle into operating position. Machine can also be operated with handle in the rearward position for drilling next to a wall.



3 Release latch & attach auger. (Machine may be moved w/ auger attached & locked.) Move into position & adjust side-to-side position if necessary.



4 Be sure that: The stop switch on the handle is ON. The stop switch on the engine is ON. The engine fuel valve is ON.



5 Start engine and allow to warm up. Set engine speed control to high speed position.



6 Stand clear—pull with right hand to drill. Start auger angled away from engine. Handle may be repositioned as needed to ease control (stop to adjust).



7 Reverse & raise if obstruction is encountered.



8 Stop auger from turning and pull out when clear.



9 Attach extension if necessary to drill deeper (1 max.) Must compensate for arc (push machine back) while drilling.



10 Fold handle to rear, remove auger & pull drive head handle forward to lock.



11 Attach tow bar by slipping under reservoir and lifting over hooks. Lift up, attach pin & secure with clip.



12 Secure to 2" ball. Attach chains. Turn fuel valve off for transporting. Be sure engine fuel valve is in the OFF position.