

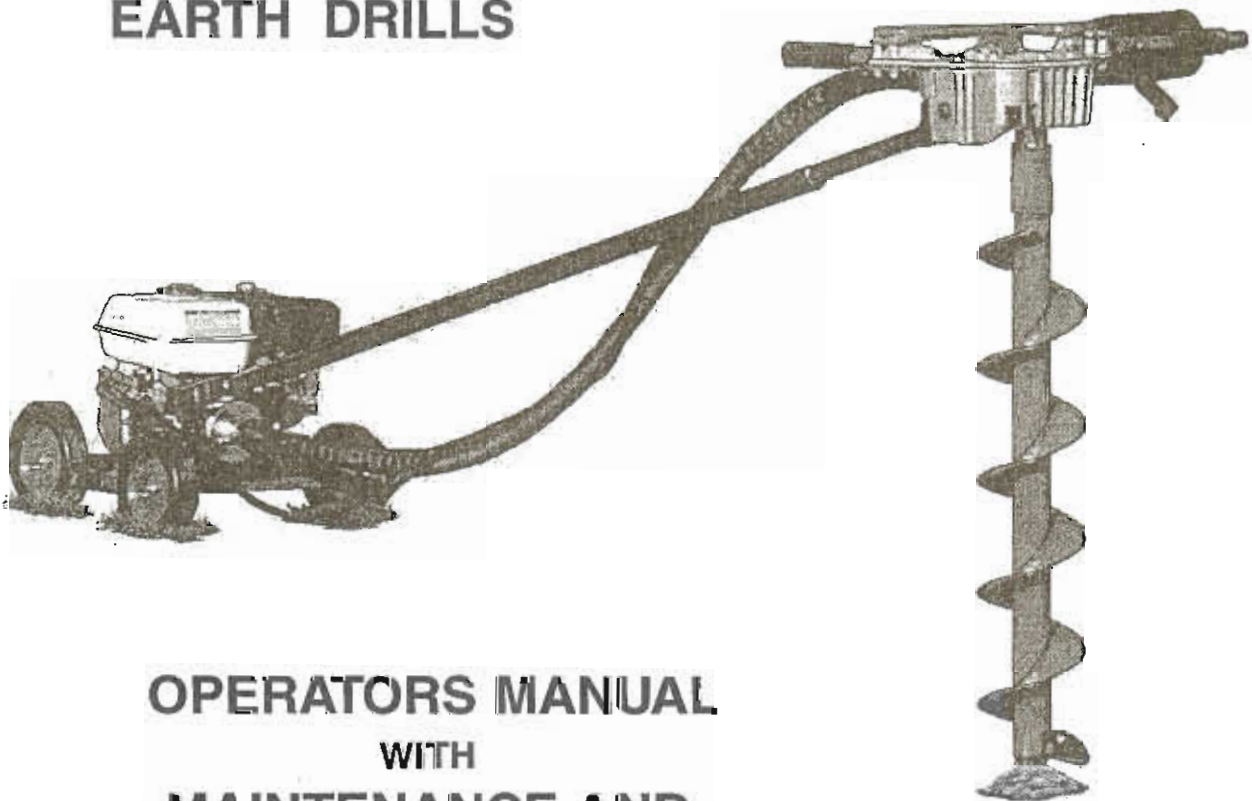


# **LITTLE BEAVER<sup>®</sup>**

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## **EARTH DRILLS & AUGERS**

**MECHANICAL  
EARTH DRILLS**



**OPERATORS MANUAL  
WITH  
MAINTENANCE AND  
PARTS INFORMATION**

**1-800-227-7515**

0199



***LITTLE BEAVER, INC.***

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P.O. BOX 840 • LIVINGSTON, TEXAS 77351

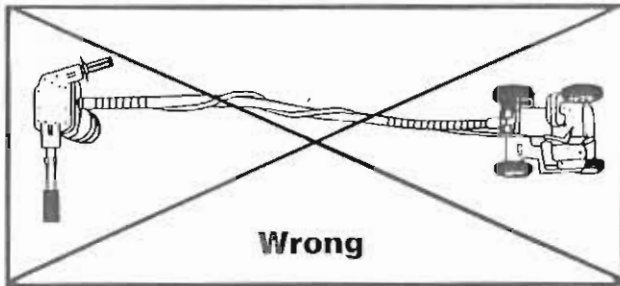
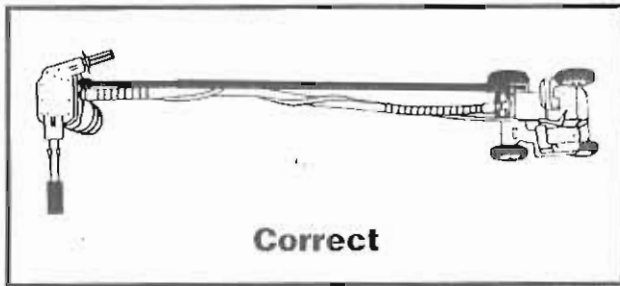
PHONE 936/327-3121 • FAX 936/327-4025

Web: [www.littlebeaver.com](http://www.littlebeaver.com) • E-Mail: [sales@littlebeaver.com](mailto:sales@littlebeaver.com)

MFG. BY: LB EQUIPMENT, INC. - LIVINGSTON, TEXAS USA

# Operating Instructions

## ALWAYS USE TORQUE TUBE



The most important safety feature of the Little Beaver earth drill is the patented torque tube. It functions to transfer any counter torque produced by the auger away from the operator, resulting in safe and simple operation. The torque tube must be installed before use. A safety switch prevents the engine from starting unless it is attached.

## BEFORE STARTING THE ENGINE

Be certain that:

- (1) The torque tube is properly attached.
- (2) There is no auger connected to the handle.
- (3) All kill switches are "ON".

## 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.

## AFTER THE ENGINE HAS WARMED UP

Insert the auger into the drive adaptor on the bottom of the handle. Make sure that the button snaps into place. Hold the handle so that your left index finger can operate the throttle. Grasp the right handle bar with your right hand. Stand so that the auger is straight up and down and is properly positioned to dig your hole. **Note the cautions and warnings on the unit.**

**Important: Keep your back as vertical as possible by bending your legs as required during the operation and lifting procedure.**

## START THE AUGER TURNING

Pull the throttle lever in completely. Always allow the auger to turn at full speed and let it cut its way into the soil. In loose sand, hold back so the auger will not screw into the ground. In harder soils, you may have to apply slight pressure, but not enough to stall the auger or slow it down significantly. The auger works best when it turns at full speed. When the desired depth is reached, stop the auger by releasing the throttle lever. Pull the auger completely out of the hole. **Never remove the auger from the hole while it is still turning.**

## 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. **Never operate the earth drill with a damaged auger.**

# How to operate Earth Drill



**1** Slide round end of torque tube onto torque bar attached to handle.



**2** Snap torque tube into connector at engine end.



**3** Flip kill switch to "ON" position.



**4** Starting position: pull starter rope.



**5** Attach auger to transmission adaptor.



**6** Stand with feet well clear of auger. Pull throttle lever in completely to start the auger turning.



**7** For safety, always keep leg pad against leg while digging.



**8** When hole is complete stop auger and pull out for clean hole.



**9** For greater depths, un-snap auger from transmission



**10** Snap extension to auger.



**11** Continue digging with auger and extension.



**12** Remove handle, then remove auger and extension from hole.

TROUBLE	CAUSE
Motor will not start.	<ol style="list-style-type: none"> <li>1) Toggle kill switch on handle is off.</li> <li>2) Engine stop switch is in "OFF" or "O" position.</li> <li>3) Torque tube is not connected at the engine end.</li> <li>4) Fuel level is too low in gas tank.</li> <li>5) On oil guard equipped engine, oil level is too low.</li> <li>6) Spark plug is fouled.</li> </ol>
Cannot connect or disconnect auger.	<ol style="list-style-type: none"> <li>1) Foreign matter clogging adaptor.</li> <li>2) Spring and button in top of auger is bent or broken.</li> <li>3) Adaptor is bent.</li> </ol>
Auger turns too slowly and will not dig.	<ol style="list-style-type: none"> <li>1) Too much downward pressure or binding on side of hole. Hold back if necessary to allow auger to turn at full speed.</li> </ol>
Auger turns but will not dig.	<ol style="list-style-type: none"> <li>1) Foreign matter collected around point.</li> <li>2) Point or blade is dull.</li> <li>3) Wrong type blade for soil conditions. Contact dealer or factory for Little Beaver carbide blades.</li> </ol>
Auger with extension will not dig.	<ol style="list-style-type: none"> <li>1) Auger or extensions bent or running out of line.</li> <li>2) Number of extensions exceeds machine capacity.</li> </ol>
Transmission overheats.	<ol style="list-style-type: none"> <li>1) It is normal for the transmission to run very warm to the touch. If you feel it is too hot, consult your dealer or factory.</li> </ol>
Auger turns when engine idles.	<ol style="list-style-type: none"> <li>1) Do not use. Contact your dealer or factory.</li> </ol>
Problems not listed in table.	<ol style="list-style-type: none"> <li>1) Contact your dealer or factory.</li> </ol>

## 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.**

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

**CAUTION:**

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

## OPERATION

### SAFE OPERATING PRECAUTIONS

Before operating the engine for the first time, please review the *IMPORTANT SAFETY INFORMATION* on page 5 and the chapter titled *BEFORE OPERATION*.

#### **▲ WARNING**

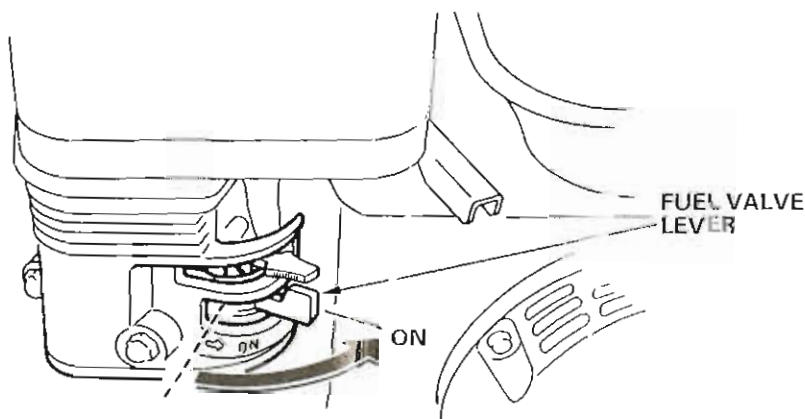
Carbon monoxide gas is toxic.  
Breathing it can cause  
unconsciousness and even kill you.

Avoid any areas or actions that  
expose you to carbon monoxide.

Review the instructions provided with the equipment powered by this engine for any safety precautions that should be observed in conjunction with engine startup, shutdown, or operation.

### STARTING THE ENGINE

1. Move the fuel valve lever to the ON position.

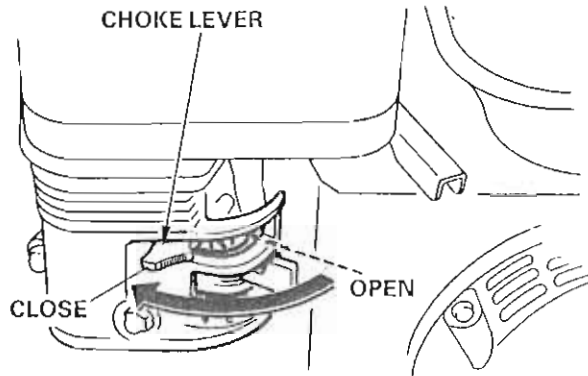


## OPERATION

2. To start a cold engine, move the choke lever to the CLOSED position.

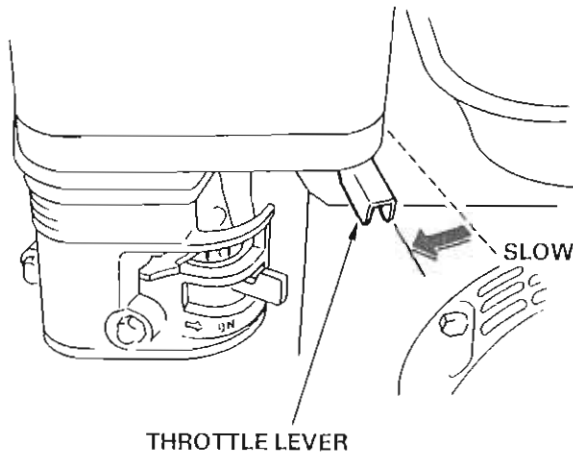
To restart a warm engine, leave the choke lever in the OPEN position.

Some engine applications use a remotely-mounted choke control rather than the engine-mounted choke lever shown here.



3. Move the throttle lever away from the SLOW position, about 1/3 of the way toward the FAST position.

Some engine applications use a remotely-mounted throttle control rather than the engine-mounted throttle lever shown here.



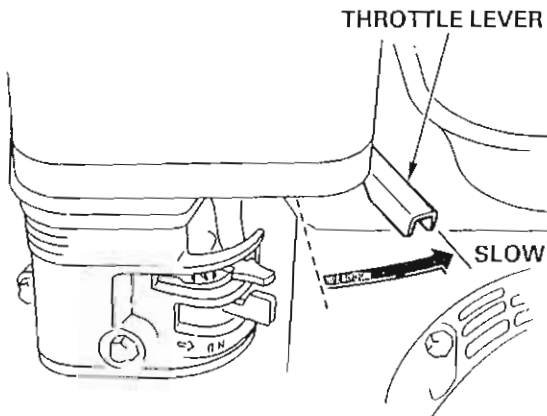
## OPERATION

### STOPPING THE ENGINE

To stop the engine in an emergency, simply turn the engine switch to the OFF position. Under normal conditions, use the following procedure.

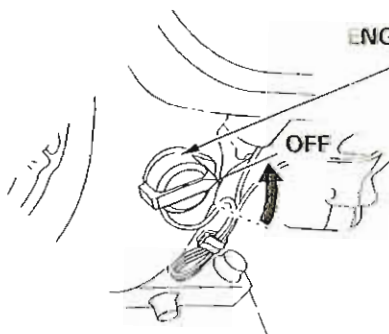
1. Move the throttle lever to the SLOW position.

Some engine applications use a remotely-mounted throttle control rather than the engine-mounted throttle lever shown here.



2. Turn the engine switch to the OFF position.

ALL ENGINES EXCEPT QXE2



QXE2 TYPE

