

LITTLE BEAVER[®]

EARTH DRILLS & AUGERS

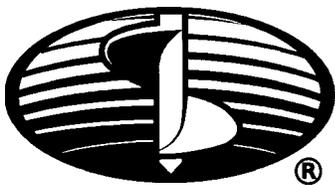
**MECHANICAL
EARTH DRILLS**



**OPERATORS MANUAL
WITH
MAINTENANCE AND
PARTS INFORMATION**

1-800-227-7515

0199



LITTLE BEAVER, INC.

P.O. BOX 840 • LIVINGSTON, TEXAS 77351

PHONE 936/327-3121 • FAX 936/327-4025

Web: www.littlebeaver.com • E-Mail: sales@littlebeaver.com

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

CUSTOMER SERVICE

Ph: 800/227-7515 or 936/327-3121 or Fax 936/327-4025

ORDERS...

Place your orders by telephone, fax, or mail. When calling, please have your parts manual handy for reference. Our hours are 8:00 am - 4:30 pm central time, Monday thru Friday. When ordering by mail or fax, include a description and LITTLE BEAVER part number for the items you are ordering, your return address, and payment or your authorization for COD shipment.

All orders are shipped UPS where possible. Freight charges will be added to your invoice. Some items are oversize, resulting in a higher shipping cost. Power units and larger augers are shipped via motor freight due to their weight.

PAYMENT TERMS...

COD, Cash in Advance, Visa, Mastercard or NET 30 with approved credit. COD limit for new accounts is \$500.00. Personal or company checks on new accounts will be held until they clear the bank. To eliminate this delay, you may pay by wire transfer or send a certified or cashiers check. For a NET 30 open account, please call or write for a credit application.

SERVICE AND REPAIR...

Your LITTLE BEAVER Earth Drill has been designed for user repair with ordinary hand tools. No special tools are required. Consult the appropriate section of the parts manual for instructions.

Service or technical consultation is available, free of charge, from the factory in Livingston, Texas. We will be pleased to help you with any problems or questions. Just write, fax, or call. Our hours are 8:00am - 4:30pm central time, Monday thru Friday.

Factory repair is available. If you return a part to the factory, please include the following information: Your name and return address, a description of the problem and payment or authorization to return the repaired item COD for the repair and shipping charges.

RETURNS...

Please call the factory for a return authorization. This will help to ensure that your parts are handled properly. Include your name and address, customer account #, invoice # under which the returned parts were ordered, and a brief description of the problem with the parts or the reason for returning them. Parts to be considered for warranty must be returned to the factory for inspection within 10 days after receipt of replacement parts. Be sure to prepay the shipping charges, we will not accept collect or COD packages.

Our mailing address...

LITTLE BEAVER, Inc.
2009 South Houston
P. O. Box 840
Livingston, Texas 77351



SAFETY ALERT SYMBOL



The symbol shown above is used to call your attention to instructions concerning your personal safety.

WATCH THIS SYMBOL — It points out important safety precautions.

It means — **ATTENTION! BECOME ALERT! YOUR PERSONAL SAFETY IS INVOLVED!**

Read the message that follows and be alert to the possibility of *Personal Injury or Death!*

	<p>WARNING: The Engine Exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.</p>
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<p>1 YEAR LIMITED WARRANTY</p> <p>For 1 year from purchase, LB EQUIPMENT, INC. will replace for the original purchaser, free of charge, any part or parts, found upon examination by any factory authorized service center, or by the factory at Livingston, Texas, to be defective in material or workmanship or both. If your equipment cannot be repaired, it will be replaced. All transportation charges on parts submitted for replacement under this warranty must be borne by purchaser.</p> <p>There is no other express warranty.</p> <p>Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to 1 year from purchase and to the extent permitted by law. Any and all implied warranties are excluded. This is the exclusive remedy and liability for consequential damages under any and all warranties are excluded to the extent exclusion is permitted by law.</p> <p>*Notice: Engines are warranted by the manufacturer of the engine. See separate engine warranty enclosed.</p>

MACHINE SERIAL NUMBER

The machine serial number for your mechanical Earth Drill is located on the carrier. For your convenience, when requiring service or parts information, refer to this number and your model number. Record the model number, engine make, machine serial number and date of purchase in the space provided below:

MODEL NUMBER _____ ENGINE MAKE _____

MACHINE SERIAL NUMBER _____ DATE OF PURCHASE _____



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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 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.



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



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 at least 10 feet 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 use of replacement engines greater than eight (8) horsepower.

LB EQUIPMENT, INC. does not recommend or condone any unauthorized modifications to the earth drill, especially those which would eliminate or reduce the effectiveness of the torque tube.

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.



MAINTENANCE AND LUBRICATION

Engines are shipped without oil or gasoline. Refer to MANUFACTURER'S INSTRUCTIONS for proper procedures and recommended fluids.

The TRANSMISSION and FLEXIBLE SHAFT are shipped fully oiled/greased and **READY FOR USE**. Refer below for proper maintenance and lubrication instructions. Refer to the associated repair parts section for proper disassembly and assembly instructions.



SHUT OFF ENGINE to adjust, service or clean the machine.

All nuts, fasteners and fittings must be kept properly torqued.

TRANSMISSION:

The transmission oil should be checked each day prior to operation, and during the day as conditions warrant.

RECOMMENDED OIL: Amalie Tri-Vis Plus Oil 80/85/140

Available in quart bottles, individually or
in case of 12. ORDER PART #10280.

If this oil is not available, it is very important that you use a high quality gear oil.

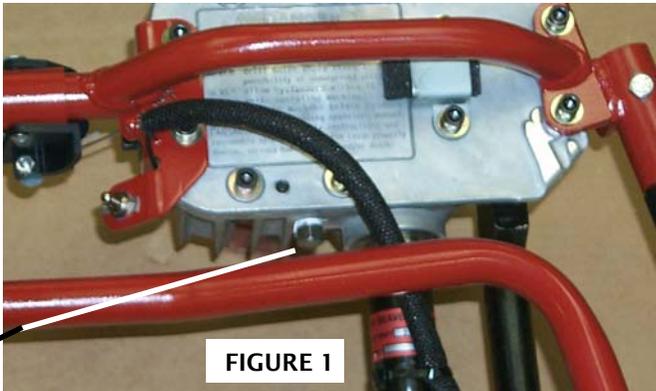


FIGURE 1

LUBRICATING INSTRUCTIONS:

When adding oil to the transmission, hold the transmission so that the top is level, then remove the pipe plug (Item A, see figure 1) and squeeze oil into transmission until oil just comes out of the hole. Replace pipe plug and tighten to 10 ft lbs.

WARNING: Failure to securely replace pipe plug (A) may allow it to back out of the hole during operation. This could result in serious bodily injury to the operator or bystanders.



Maintenance and lubrication...(cont.)

FLEXIBLE SHAFT:

The flexible shaft should be examined every 50 hours of operation and greased if necessary, using the recommended grease.

RECOMMENDED GREASE: Lubriplate Portable Tool Grease - GR-132
Available in 10 ounce Tubes, individually or in case of 12.
ORDER PART #9070-L.

CLEANING AND GREASING INSTRUCTIONS: Follow the instructions provided for proper flexible shaft dis-assembly (See page P-9 of Parts Manual and follow steps 1, 2, 4 & 5). After the flexible shaft core has been removed, wipe off the old grease with a cloth. Clean the inside of the flexible shaft housing by pulling a clean rag through with a long piece of wire. It may be necessary to make several passes before all grease is removed. Then apply a light coat of recommended grease to the core and re-assemble. **DO NOT** over-lubricate, as this will cause excessive heat to build up in the shaft.

INSPECTION: HOUSING - Check for tears or breaks in the rubber casing. Small tears may be repaired by covering with duct tape or shrink tubing. If deep cuts are found and the wire braid is torn, the housing should be replaced.

CORE - Check for broken wires and kinks. The core should be replaced if a broken wire is found. Small kinks or twists are OK but if a sharp kink is found, the core should be replaced.

IMPORTANT: Excessive amounts of grease inside the flexible shaft assembly will cause the shaft to produce excessive heat and reduce the shaft's life. If the shaft becomes over-heated (too hot to touch), it must be cleaned, inspected (see above) and re-greased. It is also important to follow the proper procedure when greasing the transmission so that excess grease is not forced into the flexible shaft assembly.

DECAL LOCATION:

The decals which are provided with your machine are shown at the rear of this manual. The decals are important and should be maintained in good condition in the locations as described. If any of the decals are missing or illegible, order replacement kit #9020-O and install before operating the machine.



Maintenance and lubrication...(cont.)

CLUTCH: (See pg. P-1 3)

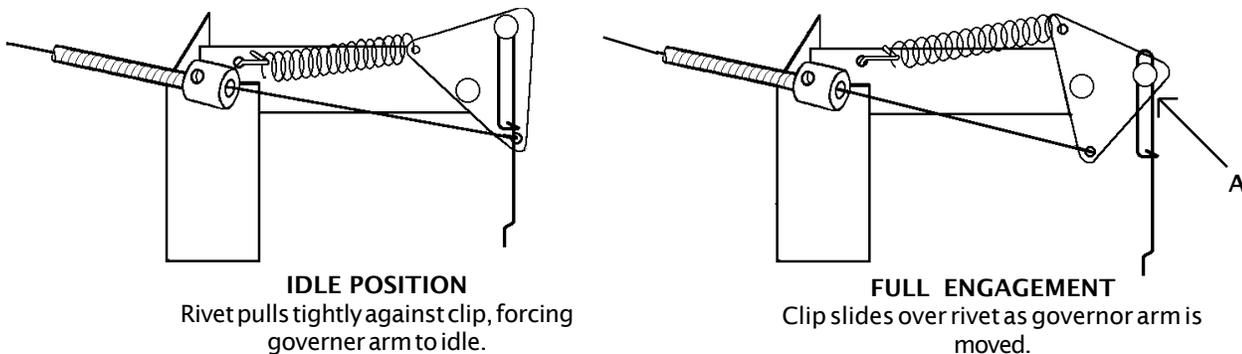
Your **LITTLE BEAVER** Earth Drill utilizes a centrifugal clutch to engage the auger as the engine is accelerated from idle to full speed. The clutch begins to engage at about 2100 to 2200 rpm, so engine idle should be kept below 1900 rpm.

The clutch requires no routine maintenance, but should be inspected when the flexible shaft is lubricated (see above). If excessive slippage occurs, check the shoes and drum and clean or replace if necessary.

If the auger turns when the engine is at idle, first check the engine for proper idle speed (1900 rpm). Also check the throttle linkage as indicated below. If the problem persists, check for stretched, discolored or broken clutch springs and/or broken clutch shoes and replace if necessary.

THROTTLE CABLE AND THROTTLE BRACKET ASSEMBLY: (See pg. P-2/3 OR P-4/5)

ADJUST WITH ENGINE OFF. Inspect the throttle cable and throttle bracket assembly before each use or if abnormal operation is noticed while operating the earth drill. The throttle lever should pull smoothly and freely with no binding. The throttle wire should be adjusted so that there is minimal slack at the idle position (no more than 1" movement at the end of the lever). Then check that the throttle bracket is fully engaged before the lever "bottoms out" against the handle bar. Also check that the clip moves smoothly over the rivet head (see "A") when the throttle is fully engaged. If binding does occur, remove the clip and twist it slightly, then re-install and re-check.



Note: The 5HP Briggs & Stratton models (standard black engine or Industrial/Commercial only) do not use the sliding clip. With these models, check that the moving arm on the bracket pulls away from the governor arm in the full throttle position. In the idle position it should push against the governor arm.



TROUBLESHOOTING

TROUBLE

CAUSE

Engine will not start.

- 1.) Toggle Kill Switch on handle is off.
- 2.) Torque tube is not connected at engine end.
- 3.) "Oil Guard" protected engines must be filled with oil to full mark on dipstick or to point of overflowing.
- 4.) If the light inside the engine on/off switch flashes (Briggs & Stratton only), this is an indication that the oil level is low.
- 5.) Fuel level is too low in gas tank.
- 6.) Spark Plug is fouled.

Cannot Connect or Disconnect Auger.

- 1.) Foreign Matter clogging adaptor.
- 2.) Spring and button in top of auger is bent or broken.
- 3.) Adaptor is bent.

Auger turns too slowly and will not dig.

- 1.) Too much downward pressure or binding on side of hole. Hold back, if necessary, to allow auger to turn at full speed.

Auger turns but will not dig.

- 1.) Foreign matter collected around point.
- 2.) Point or blade is dull.
- 3.) Use carbide blade for hard pan soil.

Auger with extension will not dig.

- 1.) Auger or extensions bent or running out of line.

Transmission over-heats.

- 1.) It is normal for the transmission to run hot to the touch. If it is very hot, check for proper oil and freeturning.

Auger turns when engine idles.

- 1.) Engine idle is set too high.
- 2.) Sliding wire clip on throttle bracket stuck. (should move freely when throttle lever is closed.)
- 3.) Clutch Spring broken.



OPERATING INSTRUCTIONS

CONNECT TORQUE TUBE

The torque tube consists of a steel tube approx. 66" long with a 1-1/2" square fitting on one end. Part #2 is 29" long with a pivot hole on one end. To assemble, slide the other end of the tube onto the torque arm rod extending from the transmission as shown in figure 2. Attach the square end of the torque tube to the engine bracket as shown in figure 3. Make sure that the safety kill switch is pushed in and that the snap button is aligned with the mating hole provided so that the snap button securely snaps into place.. Attach the other end to the handle using the nylon bushings, shoulder bolt and lock washer, (included).



FIGURE 2



FIGURE 3



WARNING: NEVER use the Earth Drill unless the torque tube is properly connected.

BEFORE STARTING THE ENGINE, Be sure that:

- 1.) Engine is properly prepared to Manufacturer's specifications. Note: Engines with "Oil Guard" protection must be filled with oil to the **full mark on dipstick** or to point of overflowing to allow the engine to start. If the light inside the engine on/off switch flashes (Briggs & Stratton only), this is an indication that the oil level is low.
- 2.) The torque tube is properly attached.
- 3.) There is no auger connected to the handle.
- 4.) The safety kill switch is in "ON" position on the handle and the Torque Tube has engaged the safety kill switch at the engine bracket.

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. If the engine does not start, re-check all safety kill switches, then refer to the engine manufacturers operator manual.

NOTE: If it is necessary to 'gas' or 'rev up' the engine while starting, push slightly with your thumb against the bell crank on the throttle bracket. (The bell crank is the pivoting triangular plate to which the throttle wire, spring and clip are attached.) This will release spring tension against the governor and allow the carburetor to open slightly.

DO NOT push directly against or try to move the carburetor butterfly or idle screw. Doing so will bend the governor linkage rod.



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 can operate the throttle. 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 figure 4). Note the safety instructions in this manual and on the machine's decals.



FIGURE 4

-  **NEVER** Drill holes where there is a possibility of underground power cables or other hazards.
-  **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. When the desired depth is reached, stop the auger by releasing the throttle lever. Then pull the auger completely out of the hole.

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

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.

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.



FIGURE 5



NOTE: If the auger becomes lodged in roots, rocks, or other underground obstructions, and cannot be pulled free; disconnect the handle from the auger and turn the auger counter-clockwise. It may be necessary to use a pipe wrench to turn the auger. If the auger cannot be dislodged by turning counter-clockwise, it may be necessary to manually dig the auger free.

 **WHEN WORKING WITH CUTTING BLADE, Point and Auger Flighting, be careful not to be cut by sharp edges.**

STANDARD CUTTING BLADE & POINT

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.

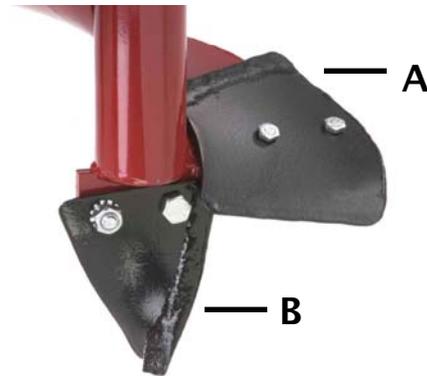


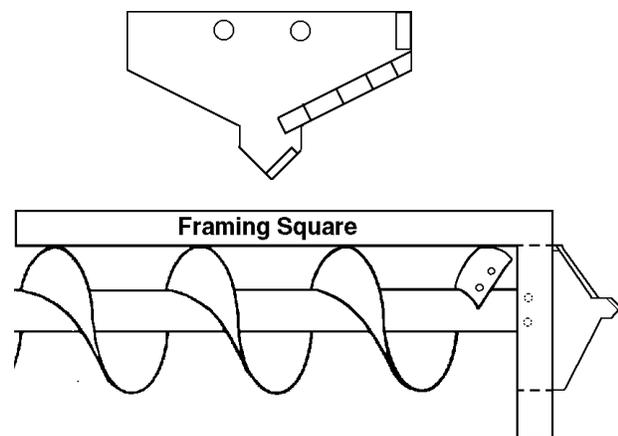
FIGURE 6

OPTIONAL CARBIDE BLADE:

An optional carbide blade is available for auger sizes 1-1/2" thru 12". It is designed for use in smooth hard-pan soils, asphalt or frost. It is not recommended for use in rocky soils. The 4" thru 12" carbide blade bolts on to the auger in place of the standard point. The standard blade is not used.

(4-12")

Mount the blade to the auger using the included 3/8" x 1-1/4" bolts and nylon lock-nuts. Use a framing square to carefully align the blade at 90 degrees to the auger. Tighten the nuts slowly until snug, then re-check alignment and adjust if necessary. Torque the bolts to 45



CAUTION: If the blade is not installed properly, mis-alignmant may cause the auger to vibrate and "walk" in use.

ATTACHMENTS:

Several attachments are available for your LITTLE BEAVER Earth Drill; including both wet and dry type horizontal boring kits and a drill chuck adaptor which allows you to use a wood bit. Refer to the specific operating instructions supplied with the attachment. If these become lost or misplaced, replacements may be obtained from the factory.



DECAL LOCATION

D

OPERATIONAL and MAINTENANCE INSTRUCTIONS

BEFORE starting your engine be sure torque tube is properly attached and snap-button locked in place.

CHECK oil in engine and transmission.

DO NOT start engine with auger attached.

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

FOR SAFETY always keep leg pad against leg while digging.

WHEN digging in soft soil hold up slightly on auger. In hard pan, apply pressure, but not enough to stall or slip clutch.

KEEP transmission and flexible shaft properly lubricated. Refer to operator's manual for type of lubricant and instructions.

KEEP throttle cable adjusted, so carburetor completely opens and closes.

KEEP blades and point sharp. Some blades are reversible. Replace before the blades wear even with the flighting.

FOR COMPLETE INSTRUCTIONS SEE MANUAL.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR, OWNER AND USER TO MAINTAIN AND OPERATE THE EARTH DRILL IN COMPLIANCE WITH OPERATING INSTRUCTIONS PROVIDED. NON-COMPLIANCE MAY RESULT IN PERSONAL INJURY.



LITTLE BEAVER, INC. Livingston, Texas U.S.A.

E

CAUTION

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!

IT IS THE RESPONSIBILITY OF THE CONTRACTOR, OWNER AND USER TO MAINTAIN AND OPERATE THE EARTH DRILL IN COMPLIANCE WITH OPERATING INSTRUCTIONS PROVIDED. READ AND UNDERSTAND YOUR OPERATORS MANUAL. OBSERVE ALL CAUTION, WARNINGS, AND DANGER INSTRUCTIONS AND OTHER REASONABLE SAFETY PRACTICES. L.B. EQUIPMENT, INC. ACCEPTS NO RESPONSIBILITY FOR DAMAGES TO THIS MACHINE, AND OTHER PROPERTY DAMAGE AND/OR BODILY INJURY DUE TO CARELESS OR IMPROPER OPERATIONS.

G Little Beaver Decal

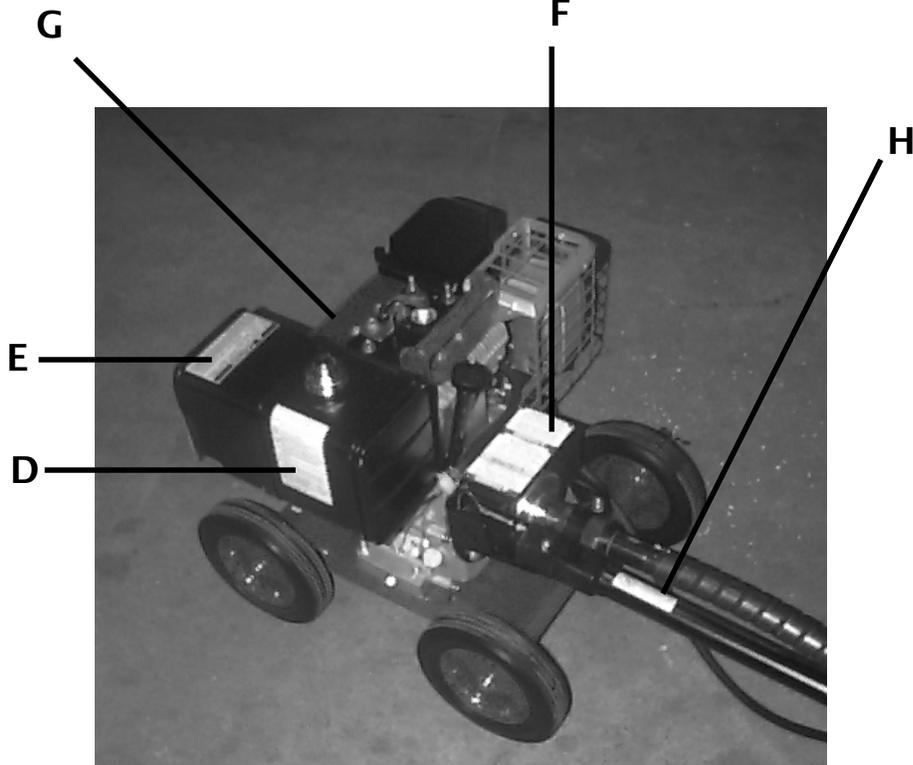
H Torque Tube Patent Decal

F

WARNING

The Catch Drum must be installed and fastened over shoe drive assembly before starting engine. Failure to install properly can cause severe personal injury. FOLLOW INSTRUCTIONS CAREFULLY.

WARNING



FOR DECAL SET,

ORDER KIT #9020-O for machines with **Oil Bath** Transmission

ORDER KIT #9020-D for machines with **Grease** lubricated Transmission which also includes the Decals for the Handle (not shown).



TORQUE INFORMATION

 TYPE SIZE	HEX HEAD			SOCKET	
	 GRADE 5	 GRADE 8	 WRENCH SIZE	 WRENCH SIZE	 WRENCH SIZE
	ft. lb.	ft. lb.	inch	ft. lb.	
No. 4	6 in lb	9 in lb	1/4"	12 in lb	3/32"
No. 6	12 in lb	17 in lb	5/16"	21 in lb	7/64"
No. 8	22 in lb	31 in lb	11/32"	42 in lb	9/64"
No.10	32 in lb	45 in lb	3/8"	60 in lb	5/32"
1/4"	6 ft lb	9 ft lb	7/16"	12 ft lb	3/16"
5/16"	13 ft lb	19 ft lb	1/2"	24 ft lb	1/4"
3/8"	23 ft lb	33 ft lb	9/16"	43 ft lb	5/16"
7/16"	37 ft lb	52 ft lb	5/8"	69 ft lb	3/8"
1/2"	56 ft lb	80 ft lb	3/4"	105 ft lb	3/8"
9/16"	82 ft lb	115 ft lb	13/16"	158 ft lb	-----
5/8"	112 ft lb	159 ft lb	15/16"	195 ft lb	1/2"
3/4"	200 ft lb	282 ft lb	1-1/8"	353 ft lb	5/8"

ENGLISH TO METRIC CONVERSION CHART

1 ft lb	=	1.357 nm	1 nm	=	.737 ft lb
1 inch	=	25.4 mm	1 mm	=	.03937 inch
1 ft	=	30.48 cm	1 cm	=	.3937 inch
1 yard	=	.9144 meters	1 m	=	39.37 inch
			1 m	=	3.281 feet
			1 m	=	1.094 yard
1 cubic in.	=	16.39 cc	1 cc	=	.061 cubic in.
1 pint	=	.4732 liter	1 liter	=	2.113 pints
1 quart	=	.9463 liter	1 liter	=	1.057 quart
1 gallon	=	3.785 liter	1 liter	=	.2642 gallon
1 ounce	=	28.349 grams	1 gram	=	.03527 ounces
1 pound	=	453.59 grams			
1 pound	=	.4536 kg	1 kg	=	2.2046 lbs



**THINK
SAFETY
FIRST!**



LITTLE BEAVER[®]
EARTH DRILLS & AUGERS

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