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EASY AUGER

SAFETY FIRST

Before using the Easy Auger familiarize yourself with all the controls and their functions. Review all the safety warnings and cautions found on the machine. Please review the illustrations in Appendix B in the rear of this manual for information regarding the Easy Auger.

1. Operating Control Lever

The operating control lever is the hand-operated lever that pivots left or right and controls the rotation of the drilling auger bit. When operating the Easy Auger, always keep both hands firmly grasped to the frame handle and the operating control lever.

2. Engine Stop Switch

There are two engine stop switches on the Easy Auger. One switch is mounted on the engine and the other is mounted on the auger control handle. Both switches must be in the "ON" position before the engine will start.

3. Auger Head Locking Clamp

The locking clamp secures the auger head assembly (auger, motor, control lever, etc.) from rotating. The locking clamp may be loosened to pivot the entire Assy to allow for drilling on the side of a hill or uneven ground. Always re-tighten the locking clamp before drilling.

4. Auger Motor Plate Locking Pin

The locking pin prevents the auger bit from freely swinging back and forth when moving the entire machine from place to place. When the auger bit hydraulic motor plate is locked in place the machine can be moved without the auger bit moving. Always lock the hydraulic motor plate before moving to the next drilling position.

6. Tow Hitch

The tow hitch secures the Easy Auger to your vehicle, which must be equipped with a 2" ball. Secure the coupler over the ball by locking down the lever and securing with cotter pin. Be sure to check that the coupler jaw completely grasps the hitch ball. When you arrive at your destination leave the coupler attached to the ball and remove the two pins securing the hitch to the auger frame. Pull down on handle to free hitch from auger.

DRILLING A HOLE WITH THE EASY AUGER

1. Check with all area utilities before drilling any hole. Buried pipes and cables may be under the surface where you intend to dig. Never drill a hole before you are aware of what might be beneath the surface of the ground.

2. Remove the auger motor locking pin so the auger drilling head is free to rotate.

3. Attach the proper diameter auger to the drilling head hydraulic motor using the quick release pin. The pin will prevent the auger from falling off of the hydraulic motor.

4. Start the engine. Drill at full throttle of 3600 RPM.

5. Position yourself behind the unit in a comfortable stance. Grasp the control handle and the operating lever with both hands. Keep your legs and feet clear of the auger at all times. Proper attire will include safety glasses and work boots.

6. When the operating lever is pulled towards the control handle with the right hand, the auger will begin to rotate in a clockwise direction into the ground. A minimum amount of travel is required before the auger begins to rotate. Be Prepared!

7. Exert downward pressure on the control handle to start the drilling process. Once the auger bit enters the ground, carefully monitor the depth. Stop the auger and clear the loose dirt from the hole frequently. The dirt can be cleared by lifting the auger clear of the hole. The auger wheels must be free of any obstructions during the drilling process. It will be necessary to move the machine forward or backward while drilling to maintain a vertical hole.

8. Ground conditions and soil type will affect how the Easy Auger operates. Loose sandy type soils are easy to drill and require a minimum of effort. The RPM of the auger will remain constant and the engine will not labor. Heavier types of soil such as clay will require more downward pressure and engine horsepower. As the force required to drill a hole increases the RPM of the auger will slow in proportion. This is a normal condition. The auger will cease to rotate once the resistance of the ground exceeds the torque of the hydraulic motor. A high-pitched squealing noise can be heard from the control valve when the auger stops rotating. Release the operating control lever to neutral immediately! The noise is caused by hydraulic fluid passing the internal relief valve. This condition causes a rapid heat build up in the hydraulic fluid and must be avoided. If the auger stops rotating, reverse the direction of rotation by pulling the operating control lever with the left hand. The auger should then back out of the ground in a counter-clockwise rotation. The auger may stop rotating for a number of reasons. Underground rocks and tree roots are commonly encountered while drilling. These obstructions will have to be cleared before drilling can continue. Heavy wet soil poses a different drilling problem. The auger can literally "pull" itself into the ground when drilling in this type of condition. If the auger starts to pull downward without the operator exerting any pressure, stop immediately and clear the hole. Heavy wet soil will also stick to the auger flights and shaft; clean the auger frequently in this type of condition. The

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diameter of the auger used will also affect the ability of the machine to drill a hole. The larger the diameter of the auger, the more torque required to dig. If the auger frequently stalls while operating it may be necessary to drill a hole of smaller diameter first and then finish the job with a larger unit. 9. When drilling on uneven or sloping ground (Ref. Illustration #4) special precautions must be taken. Never drill a hole on a slope with the machine parallel to the slope. The operator must never be above or below the machine in this circumstance. Always position the machine across the slope for this type of condition. To drill a vertical hole, it will be necessary to rotate the control head of the auger. Loosen the auger head-locking clamp and rotate the auger control handle until the drill is vertical to the ground; tighten the clamp securely and proceed as normal. The maximum grade the Easy Auger can operate on is 15 degrees.

10. Once you have completed drilling:

A) Stop the engine

B) Remove the Auger from the Hydraulic Motor.

C) Lock the hydraulic drive motor plate in place.

ADDITION NOTES

•CAUTION: Moving the control lever handle rapidly in either direction will cause the machine to abruptly start or stop.

•Check with all area utilities before drilling. Buried pipes and cables may be under the surface where you intend to dig.

NEVER drill a hole before you are aware of what might be beneath the surface.

•Do not operate the Easy Auger while under the influence of alcohol, drugs or medication. A clear mind is essential for safety.

•Do not allow anyone who is not alert to operate this machine.

•WARNING: The engine must be off when cleaning the auger drill bit. Serious injury will occur if the hydraulic drive motor should begin rotating.

•The diameter of the auger used will also affect the ability of the machine to drill a hole. The larger the diameter of the auger, the more torque required to dig. If the auger frequently stalls while operating it may be necessary to drill a hole of smaller diameter first and then finish the job with a larger unit.

•When drilling on uneven or sloping ground special precautions must be taken. NEVER drill a hole on a slope with the machine parallel to the slope. The operator must never be above or below the machine in this circumstance. Always position the machine across the slope for this type of condition. To drill a vertical hole it will be necessary to rotate the control head of the auger. Loosen the auger head locking clamp and rotate the auger control handle until the auger bit is vertical to the ground; tighten the clamp securely and proceed as normal. The maximum grade the Easy Auger can operate on is 15 degrees.

TRANSPORTING THE EASY AUGER

•The Easy Auger can be towed with a trailer hitch kit.

•WARNING: The engine shall be off when removing or attaching auger drill to the hydraulic drive motor. Serious injury can occur if the hydraulic drive motor should begin rotating.

•WARNING: The auger must be removed from the hydraulic drive motor before the Easy Auger can be transported. The auger "SHALL NOT" remain attached while the unit is being towed or tailored.

•WARNING: Stop the auger rotation and turn off the engine before attempting to remove the auger from the hydraulic motor. Serious injury could result from contact with the rotating auger bit.

•Insure all pins are locked in place and safety chains are connected to the tow vehicle and through the tow eyes on the auger frame before moving.

•When towing the Easy Auger care must be taken to insure that the towing vehicle is equipped with the proper size ball hitch. The Easy Auger Hitch Kit is available in one size with a 2" ball coupler. Do not use a 1 7/8" ball. It is too small. A 2" ball must be used.

•WARNING: Do not exceed 45 MPH when towing the Easy Auger. Exceeding the 45 MPH limit could result in damage to the Easy Auger and unsafe towing conditions. Always slow down when crossing train tracks, potholes, or any other items in or on the road that might cause the Easy Auger to bounce, ride unevenly or tip over. Always use care and common sense when towing the Auger. Do not tow in a manner that would not conform to the conditions or environment when towing.

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