

Porta-Mole Operating Instructions For **Joy Stick** Aiming Device

1. Measure the bore and make sure you have at least 10 to 20 EXTRA feet of Drill Stem Rods when you use your Porta-Mole.
2. Dig the entrance and destination trench (in most cases this trench will already exist because of the service being put in, but you need to dig a trench if there isn't one already.) The entrance trench needs to be 10' -15' in length to give adequate room for the stem to flex down to the depth of the bore.
3. Starting at the Power Unit, assemble enough Drill Rod Sections to complete the bore, plus an additional 10'.



5. Screw on the desired bit. **Use the 3 1/2" bit in STICKY CLAY conditions!**



WARNING!

DO NOT OPERATE THIS MACHINE OTHER THAN SPECIFIED BY THIS MANUAL.

KEEP HANDS AND FEET AWAY FROM STEM AND CABLE WHILE MACHINE IS RUNNING

DO NOT CHANGE DRILL STEMS, BITS OR ANY PART OF THE MACHINE WHILE RUNNING

DO NOT OPERATE THIS MACHINE WITHOUT USING THE JOYSTICK OR SURFACE BORE GUIDE AIMING / STABILIZATION DEVICE

DO NOT ADVANCE THE MACHINE FORWARD WITH ENOUGH FORCE TO LIFT THE STEM OFF THE GROUND

4. Slide the Drill Rods through the Joy Stick.



6. Pull out enough winch line to complete the the bore.



7. Drive a stake in the ground 1-2 feet to the left of the Drill Stems and attach the winch line loop to the stake.

8. Attach a garden hose to the Water Shut-Off Valve (normal city water pressure of 15-80 lbs will be fine.)



9. Lower the Joy Stick into the trench and set the depth of bore with the adjustment rod. In most cases aiming is done by pulling back slightly on the Joy Stick to bring the stem back to a level condition, since each boring condition is different you will need to use the Joy Stick to visually aim the stem in the desired direction.



10. Start the Power Unit Running, then turn on the Water Shut-Off Valve and wait until you have a steady constant water flow, then slowly advance the machine and bit into the bore with the hand winch.

