

INSTALLATION GUIDE FOR STEEL PIERS



WITH CONCENTRIC LIFT BRACKET

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Survey Site

- ✓ Call 811, the national call-before-you-dig phone number, to request that the approximate location of buried utilities be marked with paint or flags so that you don't unintentionally dig into any underground utilities
- ✓ Evaluate and record Benchmarks for your job, (An established elevation i.e. Manhole Cover, Fire Hydrant or Gas Meter)
- ✓ Check local laws and regulations regarding licenses and permits
- ✓ Follow all guidelines set by the Occupational Safety and Health Administration (OSHA)
- ✓ Identify and overcome obstacles
- ✓ Take before and after photos
- ✓ For additional product information visit us at getecp.com

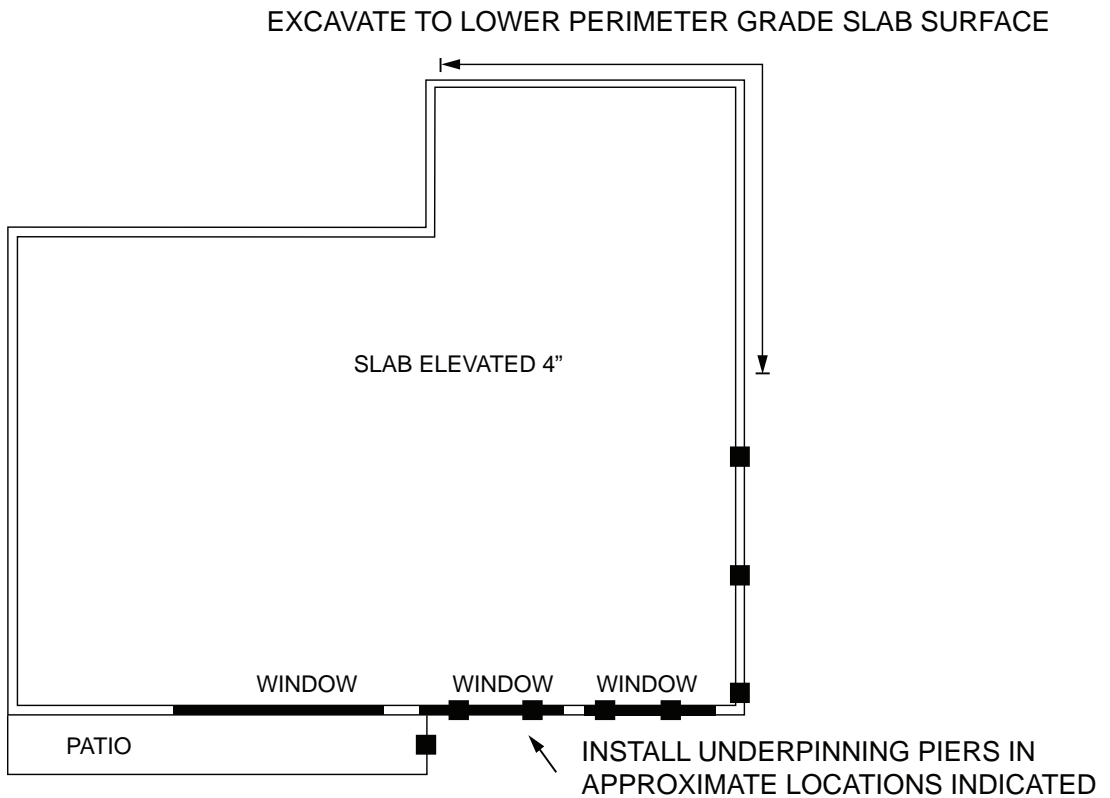


Pier Placement

Pier layout should follow Engineer or design drawings

Be aware of the obstacles the structure may have

- Electrical Wiring
- Ductwork
- Plumbing Pipes
- Vents
- Vapor Barrier
- Beams (Wood or Steel)
- Drains/Pumps
- Dehumidifier
- Encapsulation



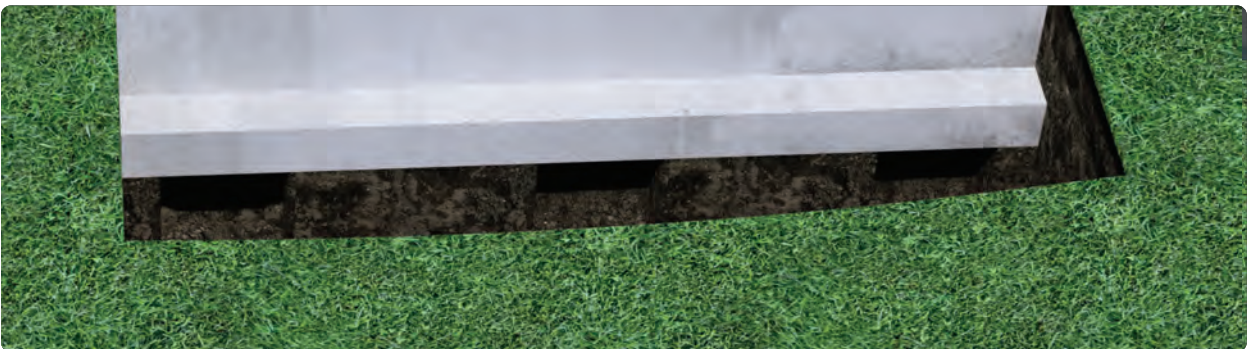
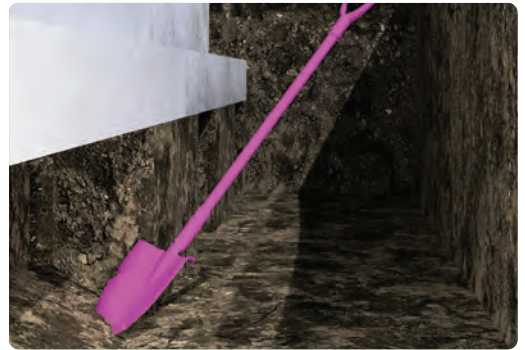
Engineer/Design Drawing

Crawlspace Excavation

- Observe and evaluate the beams and make sure they can withstand the driving process of the PPB-250
- Have roughly 28" of space from the top of the beam to the soil for the drive cylinder, starter/sections, and pier bracket



Outside Excavation



Footing procedure

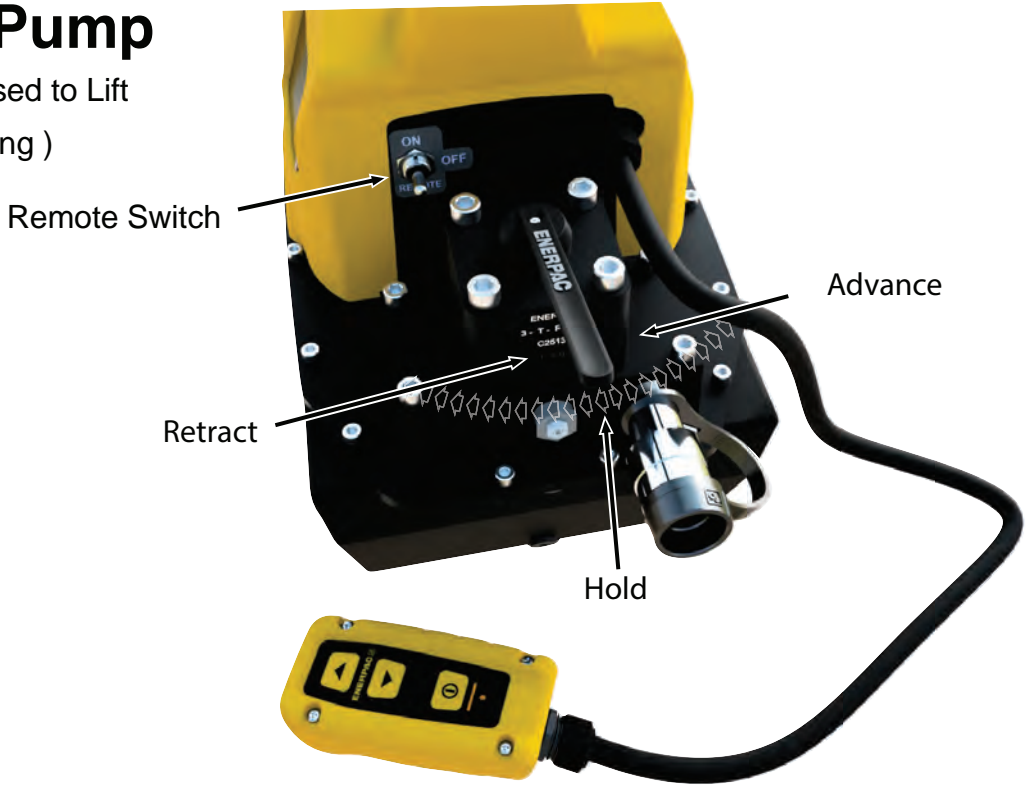
- Remove soil 28" both vertically and horizontally below footing
- Smooth underneath the footing for leveling purposes

Connecting Hydraulics

- Connect 4" gauge to the cylinder
- Connect one hydraulic hose from pump to cylinder (single action pump)
- Always use an onsite generator when connecting the pump and avoid using power from the customer's home

Electric Pump

Electric Pump used to Lift
(Single Acting)



Cylinder and Gauge



Pier Pipe Installation

- Take the 12" starter (friction ring) and place it in the pier location
- Take the cylinder and place directly on top of the starter
- Use a torpedo level to make sure the starter and cylinder are straight
- Set the electric pump to remote and use the remote button to advance the pier into the soil
- Advance the cylinder approximately 7"
- Retract the cylinder and connect 6" drive tool to previously driven pipe
- Continue to drive the pipe and drive tool down roughly 7"
- Insert new pier section and continue the driving process until specified pressure is reached



Insert Starter tube



Advance



Insert Drive tool



Place cylinder on
Drive tool



Advance



Insert Pier section and
repete process until specified
pressure is reached

Cutting Pier Pipe Ending Above Bracket

- Measure roughly 11" from the bottom of the footing or steel/wooden beam
- Remove pier pipe and cut using a cold Saw or dry saw
- Insert pier pipe after cut has been made
- Take the bracket and slide the bottom end over the pier pipe section



(DW872)



(Makita LC1230)

Lift Assembly

- PPB 250 lift assembly is built into the bracket (Max lift 4")



6-Way Manifold Closeup



Close-Up of the 6-Way Manifold

- To open the V-82 valves, turn the handles to the "left"
- To close the V-82 valves, turn the handles to the "right"

6-Pier Manifold Setup and Lift

6 Pier Manifold Hydraulic Setup

- Layout hoses to each completed pier/lift point
- Connect hoses to each HYD-254 cylinder and into the 6-way manifold
- After all hoses are connected to the manifold, connect the 4" gauge to the lift pump
- Connect the last hose from the 4" gauge to the back of the manifold

6 Pier Manifold Lift

- Pressurize hoses between 500-1000 PSI
- Check all brackets and tighten heavy hex nuts above the pier cap
- Begin lifting at the lowest point
- After you have reached your desired lift, tighten all valves down on the manifold to hold pressure
- Tighten heavy hex nuts down on the bracket



Multiple Manifold Setup and Lift

Multiple Manifold Lift Hydraulic Setup (More than 6 Piers)

- Layout hoses to the first 5 piers
- Connect hoses to each HYD-254 cylinder and into the 6-way manifold
- Connect an additional hose to last open port on the manifold to the back of a new manifold
- Take remaining hoses and insert to both HYD-254 cylinders and 2nd manifold
- Once all hoses are connected to manifolds, your setup is complete to begin lifting

Multiple Manifold Lift

- Pressurize hoses between 500-1000 PSI
- Check all brackets and tighten heavy hex nuts above the pier cap
- Begin lifting at the lowest point
- After you have reached your desired lift, tighten all valves down on the manifold to hold pressure
- Tighten heavy hex nuts down



Hydraulic Release

Releasing Hydraulic Oil from Cylinders & Verifying the Lift

- Verify your lift points
- Open the valves on the manifold and release the pressure back to the electric pump
- Remove hydraulics and lift assemblies

Note: Make sure nuts are tight before releasing oil

Inspections and Sign-Off of Completed Work

Home Check and Finalization

- Check all doors and windows to make sure they are working correctly
- Complete crack repair and waterproofing
- Inspect drain tile for damage, replace as needed
- Backfill with clean rock then add 12" of topsoil for landscaping
- Clean up
- Take final elevation readings





Certified Installer



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