

Installation Instructions for C150-0239 Light-Duty Underpinning Bracket

This product must be installed by Chance certified dealers trained to install the CHANCE® Helical Pier Foundation System..

Bracket features:

1. Mechanical rating: 5,000 lb (22.3 kN) working load
2. Used primarily under porches, patios, light concrete slabs with low dead and live loads.
3. Designed to fit concrete slabs — 4" (100 mm) minimum thickness
4. Bracket weight: 18½ lb (8.4 kg)
5. Bracket has 4" (100 mm) of lifting capacity.
6. Bracket is designed to be used with a 1½" (38 mm) round-cornered-square (RCS) shaft helical pier installed vertically next to a concrete slab.
7. Bolt guide reduces effort needed to torque lifting bolt by creating a floating pad on top of anchor shaft.

⚠ WARNING

Potential structural collapse.

Can cause severe property damage, personal injury, or death.

Verify structural integrity of the slab before lifting or stabilizing is attempted.

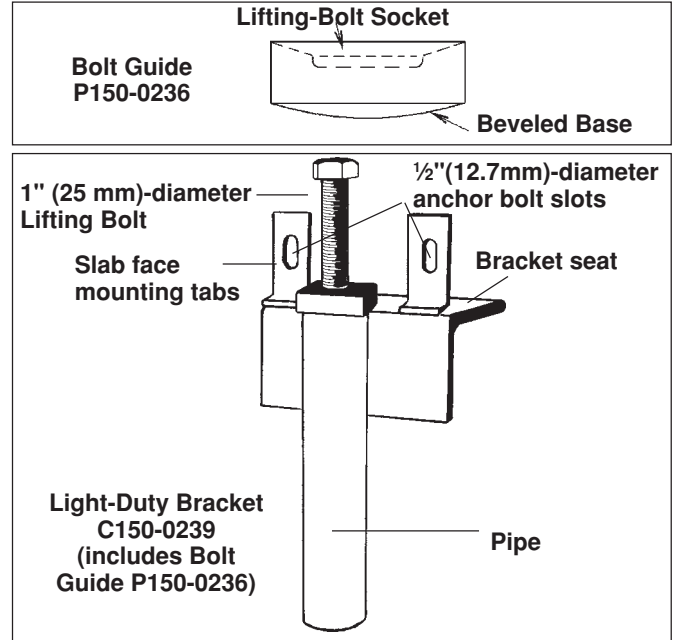
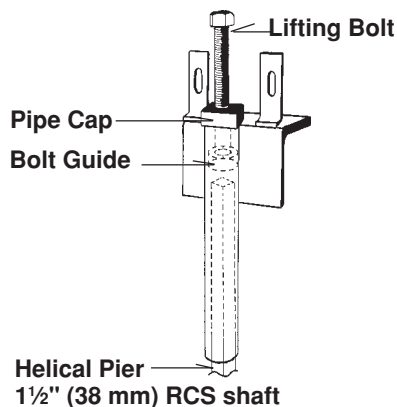
Bracket installation:

1. Excavate hole about 12" (300 mm) below the bottom of concrete slab. Hole must also be approximately 12" to 18" (300 mm to 450 mm) wide.
2. Prepare slab by chipping away irregularities from bottom and side surfaces. Bracket must fit flush against both surfaces.
3. Install helical pier **vertically** next to front face of slab. Pier should be as close to slab face as possible.
Note: For detailed Helical Pier Foundation System installation instructions, see Chance Bulletin 01-8906 contained in your underpinning training manual.
4. Continue installing helical pier to predetermined torque by adding extensions as necessary. Terminate installation or cut off shaft 1" (25 mm) below bottom of slab.
5. Lubricate socket and base of the bolt guide. Any type of lubrication grease should work. Place the bolt guide with its socket side facing up on top of the anchor shaft.
6. With seat of bracket rotated away from concrete slab face, slip pipe over helical pier shaft.

NOTICE

Slip the pipe over the helical pier shaft very carefully. Do not knock the bolt guide off the top of the helical pier shaft. The bolt guide reduces the effort needed to turn the lifting bolts.

Installation Detail



7. Rotate bracket under slab. Helical pier shaft will have to be pulled back away from slab face to allow anchor bolt mounting tabs to clear.
8. Seat bracket firmly against slab. Mark and drill anchor bolt holes for ½" (12.7 mm) diameter anchor bolts.
9. Install anchor bolts following the recommended procedure as outlined by the bolt manufacturer. Bracket requires two ½-inch (12.7 mm) bolts, each with at least 3,500 lb (15.6 kN) tension capacity.
10. Lubricate threads of 1" (25 mm) diameter lifting bolt with grease and install into bracket. Stabilize or lift slab by torquing bolt. With a properly installed bracket and helical pier, application of 120 ft-lb to 160 ft-lb (163 Nm to 217 Nm) of torque to the lubricated bolt will develop 5,000 lb (22.3 kN) of lift.

⚠ WARNING

Potential structural collapse.

Can cause personal injury or death.

Stay clear of any voids under the slab that were created during the lifting or stabilizing process

⚠ WARNING

Potential structural collapse.

Can cause personal injury or death.

Do not exceed 200 ft-lb (271 Nm) of torque on the lifting bolt.

11. Complete installation by cutting off revealed lifting bolt flush with the pipe cap.

⚠ CAUTION

Potential tripping hazard.

Can cause personal injury.

Cut off the lifting bolt flush with the top of the pipe cap.

12. Backfill any voids created under the slab. Backfill and tamp the installation holes.

NOTE: Because Hubbell has a policy of continuous product improvement, we reserve the right to change design and specifications without notice.



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