

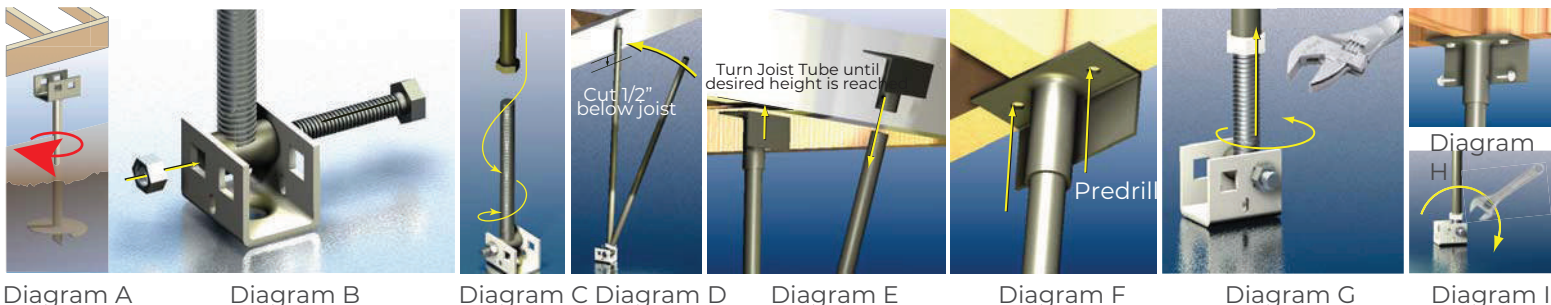
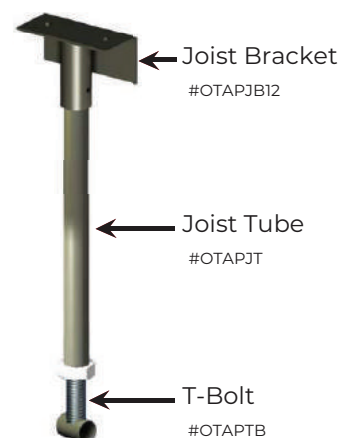
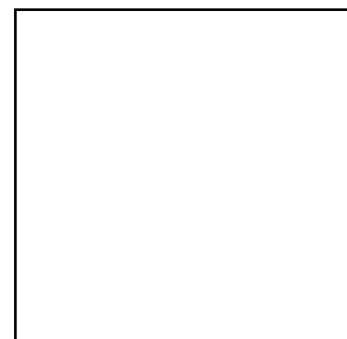
# OTI ANCHOR PIER INSTALLATION INSTRUCTIONS

## PREPARATION

- Determine what anchor to use for the soil conditions at the desired location of installation. (see *Soil Classification Chart* below)
- When installing the Anchor Pier in freezing climates, the helix shall be at or below the frost line.

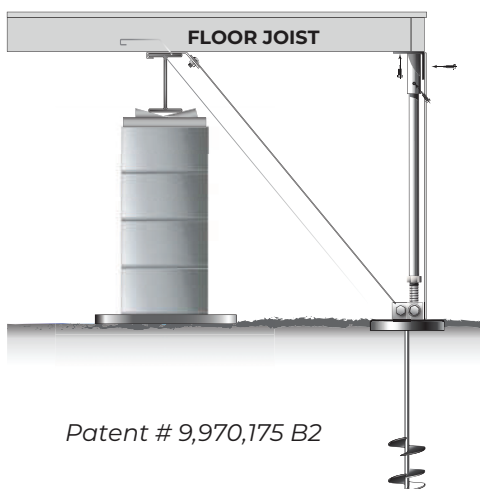
## INSTRUCTIONS

- Locate the floor/rim joist that requires support.
- Mark the ground directly beneath the floor/rim joist where OTI anchor is to be installed. You may use a plumb bob if necessary. (Diagram A)
- Install an approved OTI anchor per Oliver Technologies ground anchor installation instructions.
- Place the threaded T-Bolt (OTAPTB) inside of the anchor head. Insert 2 3/4" x 5/8" grade 5 bolt through the anchor head and the T-Bolt, hand-tighten nut. (Diagram B)
- Thread the 1 1/4" Joist Tube (OTAPJT) completely onto the T-Bolt. (Diagram C)
- Raise the Joist Tube to the side of the home and cut the tube 1/2" below the bottom of the floor/rim joist. (Diagram D)
- Place the 1 1/2" Joist Bracket (OTAPJB12) over the Joist Tube. (Diagram E)
- Raise the assembly to a vertical position. (Diagram E) Using a 1/4" drill bit, make two pilot holes through the pre-drilled holes and secure the Joist Bracket plate with two (2) 3" x 3/8" lag screws to the bottom side of the floor/rim joist. (Diagram F)
- Bottom board and insulation may be between Joist Bracket and floor/rim joist.
- Use a 1 1/8" wrench to adjust the Joist Tube by turning counter-clockwise until Anchor Pier has been set to desired height. Maximum allowable adjustment on threaded T-Bolt is 2" (Diagram G)
- Secure the Joist Tube to the Joist Bracket using two (2) 1/4" - 14 x 3/4" self tapping tech screws in the pre-drilled holes. (Diagram H)
- Tighten the 2 3/4" x 5/8" bolt. (Diagram I)



## NOTES

- This product is not shall not be used in place of mainline piers. Maximum length of Joist Tube (OTAPJT) is 60".
- Working pier load shall not exceed 4,800 lbs w/ Stabilizer Cap (OTCAPI) Working pier load shall not exceed 3,200 lbs w/o Stabilizer Cap (OTCAPI)
- The OTAP12K Anchor Pier shall not exceed a 10 degree angle of variance from vertical in any direction.
- When tech screws are installed on Anchor Pier, the working load for tie down is 3,150 lbs. If not used as vertical securement, tech screws are not required.
- When using Anchor Pier for lateral securement, an Oliver Technologies anchor stabilization device shall be used.
- Minnesota: Only anchors which extend below the frost line are approved for use in Minnesota. Refer to MSBC 1303.1600 frost depth map.
- North Carolina: The frost line depth for each county in North Carolina is indicated in Table 3.5.2 of the state regulations.

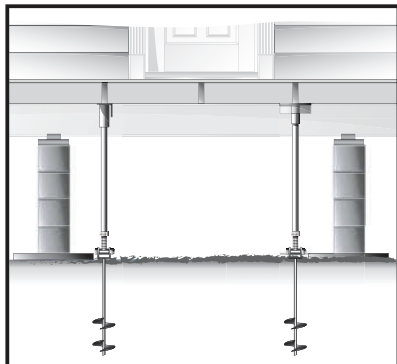


## Soil Classification Chart\*

Approved Anchors	
OTI Anchor Model #	Soil Class
OTCAD (P or G)	Concrete
OT2444B (P or G)	2
OT3044B (P or G)	3
OT3646B (P or G)	4A
OT4844B (P or G)	3
OT486B (P or G)	4A

P = painted G = galvanized

\*Only these anchors shall be used with the OTI Anchor Pier, or as specified with written consent from Oliver Technologies Inc.

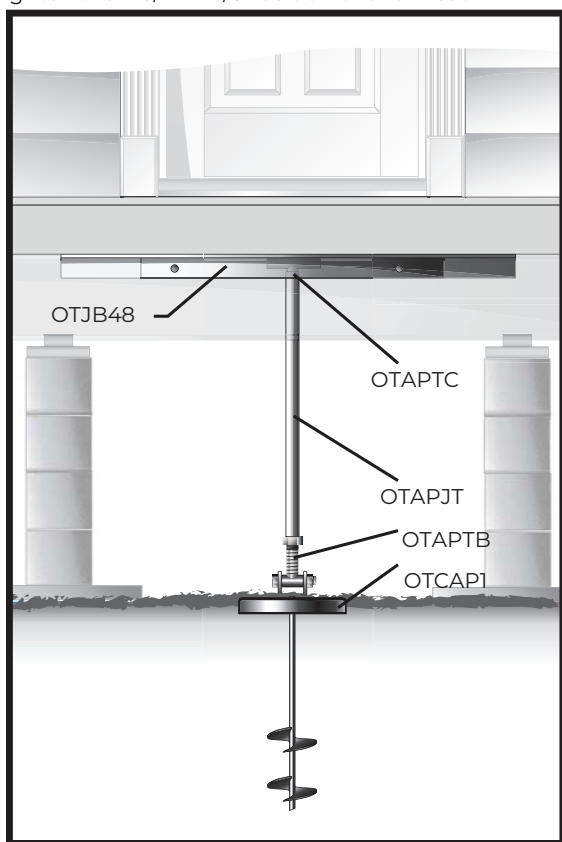


### Joist Bracket Options & Placement

When using the Joist Bracket (OTAPJB12), the anchor pier may be installed on either the outside rim joist or may also be inset on the floor joist. (see illustration)  
The Joist Bracket (OTAPJB12) only replaces one single perimeter pier up to a 4,800 lb maximum working load.  
When using Joist Bracket (OTAPJB12) with the Anchor Pier it is designed to replace one (1) perimeter pier.  
(For eliminating two piers via load distribution, see other Joist Bracket options below)

### Joist Bracket II (OTAPJB48)

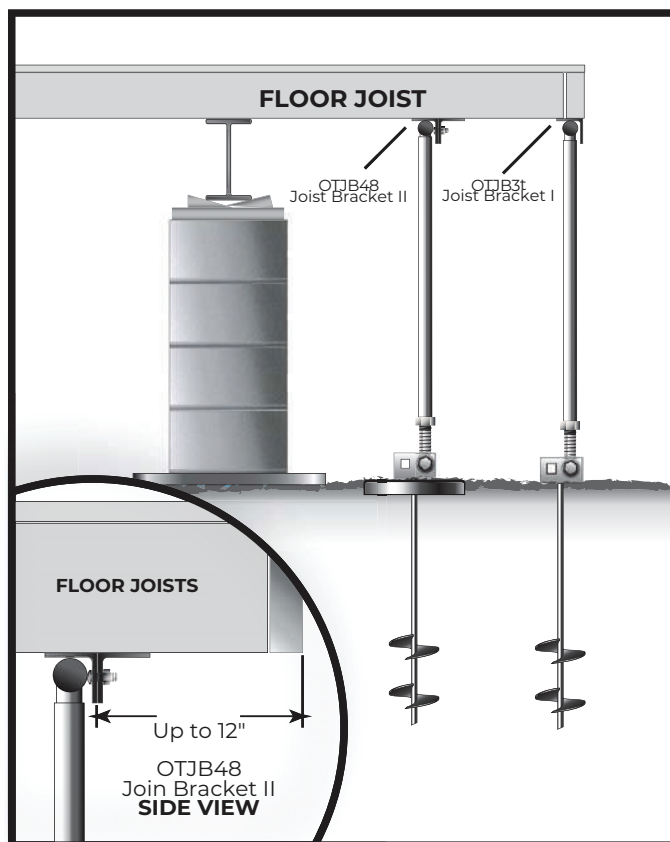
1. Follow Steps 1 thru 6 on Page 1.
2. Assemble the OTAPJB48 by aligning the two (2) holes on the 48" angle iron to the matching two (2) holes on the 38" angle iron.
3. Insert the two (2) 3/8" x 1" supplied carriage bolts and tighten the nuts.
4. Center Joist Bracket II (OTJB48) up to 12" from outside rim joist of home at required location. (note that the pre-drilled holes on Joist Bracket II are spaced for 16" OC & 24" OC, other holes may be drilled as needed)
5. Using a 1/4" drill bit, make three (3) pilot holes through the predrilled holes and secure the Joist Bracket II with three (3) 3" x 3/8" lag screws to three (3) separate floor joists.
6. Insert the T-Cap (OTAPTC) into the Joist Tube and raise assembly into position. Use a 1" wrench to adjust the Joist Tube (OTAPJT) by turning counter-clockwise until the Anchor Pier has been set to desired height. (maximum allowable adjustment on threaded T-Bolt is 2")
7. Tighten the 2-3/4" x 5/8" bolt on anchor head.



Anchor Pier shown with Joist Bracket II (OTJB48)  
- takes the place of two perimeter piers for openings up to 48"

### Joist Bracket I (OTAPJB38)

1. Follow Steps 1 thru 6 on Page 1.
2. Center Joist Bracket I on outside rim joist at desired location.
3. Using a 1/4" drill bit, make three (3) pilot holes through the pre-drilled holes and secure the Joist Bracket I with two (2) 3" x 3/8" lag screws to outside rim joist.
4. Insert the T-Cap (OTAPTC) into the Joist Tube and raise assembly into position.
5. Use a 1" wrench to adjust the Joist Tube by turning counter-clockwise until the Anchor Pier has been set to desired height. (maximum allowable adjustment on threaded T-Bolt is 2")
6. Tighten the 2-3/4" x 5/8" bolt on anchor head.



### Joist Bracket II (OTJB48)

- Span across floor joists
- Openings up to 48"

### Joist Bracket I (OTJB38)

- Only for outside rim joist
- Openings up to 38"