

**CJT KIT** *Concealed Joist Tie Kit*

The CJT is a concealed connector that can be installed three different ways: with no routing of the header/post or beam, a routed header/post, or a routed beam. The CJT Kit comes with the required Simpson Strong-Tie® Strong Drive® SDS 1/4" x 3" screws and a choice of 1/2" x 2 3/4" or 1/2" x 4 3/4" pins.

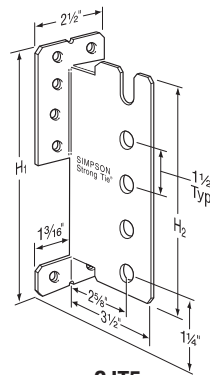
- MATERIAL:** 12 gauge  
**FINISH:** Galvanized  
**INSTALLATION:** Use all specified fasteners. Refer to the current *Wood Construction Connectors* catalog for General Notes and warranty information.  
**NOTE:** Pins aligned across the grain may cause splitting if the wood shrinks excessively. Install only in glulam, composite lumber (PSL, LSL and LVL) or well dried lumber.  
**CODES:** ICC-ES ESR-2614

Each CJT Kit comes complete with all pins and screws needed. Part numbers:

- |                               |                               |
|-------------------------------|-------------------------------|
| <b>CJT3S</b> with 2 3/4" pins | <b>CJT3L</b> with 4 3/4" pins |
| <b>CJT4S</b> with 2 3/4" pins | <b>CJT4L</b> with 4 3/4" pins |
| <b>CJT5S</b> with 2 3/4" pins | <b>CJT5L</b> with 4 3/4" pins |
| <b>CJT6S</b> with 2 3/4" pins | <b>CJT6L</b> with 4 3/4" pins |

Spare pins and screws may be ordered:

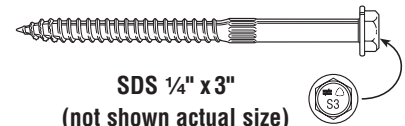
- CJTPS** sold in full cartons of ten 1/2" x 2 3/4" pins.  
**CJTPL** sold in full cartons of ten 1/2" x 4 3/4" pins.  
**SDS 1/4" x 3"-RC10** sold in full cartons of ten self-drilling hex head screws.



**CJT5**  
(others similar)



**1/2" x 2 3/4" or 4 3/4"**  
**Chamfered Steel Pin**  
(Galvanized)



**SDS 1/4" x 3"**  
(not shown actual size)

U.S. Patent  
6,109,850  
5,897,280  
5,044,853

Min. Joist Size	Model No.	Dimensions (in)		Fasteners		Allowable Loads			
		H <sub>1</sub>	H <sub>2</sub>	Screws	Pins	Uplift (160)	Floor (100)	Snow (115)	Roof (125)
<b>DOUGLAS-FIR</b>									
4 x 8	CJT3	5 9/16	4 7/16	6	3-2 3/4 3-4 3/4	1655 1725	1050 1050	1050 1050	1050 1050
4 x 10	CJT4	7	5 15/16	8	4-2 3/4 4-4 3/4	2460 2460	2440 2440	2805 2805	2815 2815
4 x 12	CJT5	8 9/16	7 7/16	10	5-2 3/4 5-4 3/4	3255 3490	3005 3070	3455 3530	3755 3840
4 x 12	CJT6	10	8 15/16	12	6-2 3/4 6-4 3/4	4005 4775	3535 3535	3990 3990	3990 3990
<b>GLULAM BEAM</b>									
3 1/8 x 7 1/2	CJT3	5 9/16	4 7/16	6	3-2 3/4 3-4 3/4	1655 1725	1240 1240	1240 1240	1240 1240
3 1/8 x 9	CJT4	7	5 15/16	8	4-2 3/4 4-4 3/4	2460 2460	2440 2440	2805 2805	2900 2900
3 1/8 x 10 1/2	CJT5	8 9/16	7 7/16	10	5-2 3/4 5-4 3/4	3255 3490	3005 3070	3455 3530	3755 3840
3 1/8 x 12	CJT6	10	8 15/16	12	6-2 3/4 6-4 3/4	4005 4775	3535 3685	4065 4240	4420 4605
<b>PSL</b>									
3 1/2 x 9 1/2	CJT3	5 9/16	4 7/16	6	3-2 3/4 3-4 3/4	1655 1725	1840 2160	2115 2160	2160 2160
3 1/2 x 9 1/2	CJT4	7	5 15/16	8	4-2 3/4 4-4 3/4	2460 2460	2145 2145	2145 2145	2145 2145
3 1/2 x 9 1/2	CJT5	8 9/16	7 7/16	10	5-2 3/4 5-4 3/4	3255 3490	3005 3070	3455 3530	3755 3840
3 1/2 x 11 7/8	CJT6	10	8 15/16	12	6-2 3/4 6-4 3/4	4005 4775	3535 3685	4065 4240	4420 4605

1. The joist/beam may be sloped up or down to a maximum 45° with full table loads.  
 2. Center pin within beam. Short pin for use with 3 1/8" Glulam Beam, 4x sawn lumber or 3 1/2" PSL.  
 Long pin for use with 5 1/8" Glulam Beam, 6x sawn lumber or greater widths.

**Installation:**

**Tools required:**

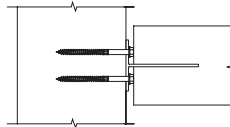
- 10" diameter circular saw
- Drill press recommended; or high power, low speed drill (5 amp+) with drill guide.
- 1/2" diameter drill
- 3/8" hex driver

**Optional:**

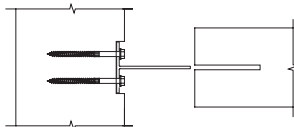
- Router

**Top View of Installation:**

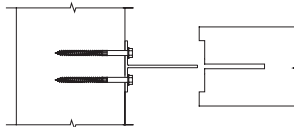
**NO ROUTING –**  
3/8" gap between header/post and beam



**ROUTED HEADER/POST –**  
No gap between header/post and beam

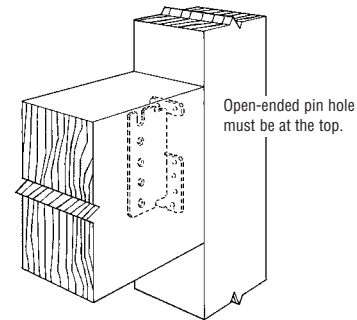


**ROUTED BEAM –**  
No gap between header/post and beam.



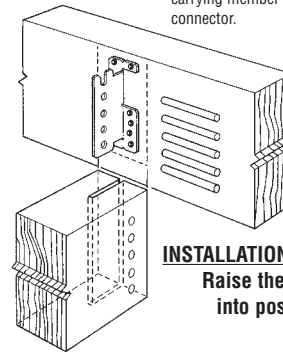
**Installation Procedure:**

1. **Drill pin holes in beam –**  
Position connector on the side of the beam to locate and mark pin holes. If routing into the header/post or beam, allow for 3/8" routing depths. If not routing, add 1/4" for screw heads.  
Drill clean 1/2" holes exactly perpendicular to the beam.
2. **Optional routing –**  
If routing header/post or beam for no gap, use connector as a template. Routing must be 3/8" deep.
3. **Attach connector to header/post –**  
Position the connector at the predetermined height and attach it using the SDS1/4 x 3 screws provided in all holes. Pre-drilling may be helpful in hard woods.
4. **Cut slot in beam –**  
Using a 10" circular blade, cut a slot in the center of the beam to the full depth (3 3/4") of the blade.
5. **Position beam –**  
Install a pin in the uppermost hole, center pin within the beam. Then lower the beam to the connector and insert the remaining pins centered within the beam. Or, raise the beam to the connector and then insert all the pins centered within the beam.
6. **Optional finishing –**  
Fill ends of pin holes and slot with dowels or putty.



**CJT5 Installed on a Post**  
(installed on a header similar).

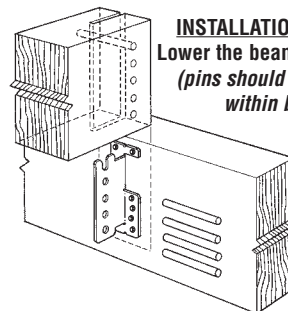
Minimum 1/8" from top of carrying member to top of connector.



**INSTALLATION OPTION 1**  
Raise the beam into position

**WARNING**

Take special care installing this connector. The beam must be installed perpendicular to the support member. The connection's components may be damaged if the beam is rotated from its opposite end during or after installation. Damaged components may not be noticeable and may reduce the connector's load-carrying capacity.



**INSTALLATION OPTION 2**  
Lower the beam into position  
(pins should be centered within beam).