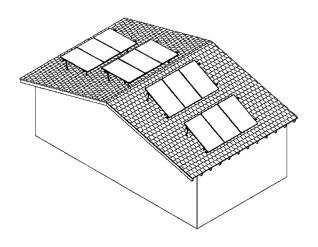
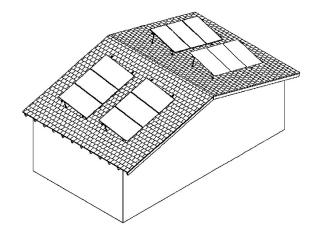
SERIES 100 TILT KIT GUIDE

SnapNrack Residential PV Mounting Systems

STEP 1: Determine relationship between modules and selected roof surface(s).





STEP 2: Determine structural member spacing and orientation.

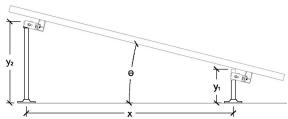
- 16" rafter spacing
- 24" rafter spacing
- Other

- Racking rails run parallel to rafters*
- Racking rails run perpendicular to rafters

STEP 3: Identify desired module tilt (from roof surface) and determine standoff heights.

$$y_2 = y_1 + x \tan\theta$$
 Excel: =Y1+X*(TAN(RADIANS(THETA)))

Where y_2 is the height of the rear standoff, y_1 is the height of the front standoff, x is the N-S span between standoffs, and θ is the desired module tilt off the roof surface. See the image below.



*When rails run parallel to rafters, North-South spacing x will be determined by rafter spacing.

STEP 4a: Determine which standoff base to use.



232-01039 SNAPNRACK, STANDOFF BASE, 4-HOLE



232-04038 SNAPNRACK, HD STANDOFF BASE, 6-HOLE



242-00018 SNAPNRACK, STAND-OFF BASE ASSEMBLY, 1-HOLE

STEP 4b: Determine which standoffs to use. The lengths will be based on the calculations performed in Step 3. Note that standard standoff shafts also double as extensions, and multiple standoff shafts may be used to reach desired total length. (Maximum total standoff height is 18" and is not to be exceeded.)



232-01053SnapNrack, Standoff Spacer 1" **232-01048**

SnapNrack, Standoff Shaft, 3"

232-01054

SnapNrack, Standoff Shaft 51/2"

232-01055

SnapNrack, Standoff Shaft, 7"

232-01056

SnapNrack, Standoff Shaft, 81/2"

232-01057

SnapNrack, Standoff Shaft, 10"



232-01062

SnapNrack, HD Standoff Shaft, 7"

232-02408

SnapNrack, HD Standoff Shaft 9½" Mill

232-01063

SnapNrack, HD Standoff Shaft, 12"

232-01021

SnapNrack, HD Standoff Shaft, 18"

STEP 4c: Include standoff clamp assemblies, along with the rest of the racking components needed to finish the installation.



242-09002 SnapNrack, Standoff Clamp Assembly w/ L-Foot, Clear



162-07301

SCREW, SET, 5/16IN -18 X 1IN, SS

STEP 5: Tilt kits are also available with other SnapNrack components, like seam clamps. Please contact the SnapNrack Applications Engineering team if you would like to look at those other options, or if you have any other questions at all. The team can be reached at **appeng@snapnrack.com**.



(877) 732-2860

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