



Installing a Roof Ring

Quantity and part numbers of roof ring kits vary with the location placement and with the size of each bin. The following procedure will be similar for each kit.

What You Should Know

The roof ring and threaded stud may become dislocated from each other during high winds or when the inside pressure of the bin is too great. If a threaded stud is dislocated, the entire roof ring will become disjointed. Prevent this by staking the expansion bolt threads at the jam nut location (after the rings have been installed and expanded to the correct size), use of suitable thread locking compounds or other effective methods. (See Figure 2 on Page 2.)

1. Determine the quantity of roof ring clips (C) needed for the roof ring section (B) being installed.

NOTE: Each roof panel rib must have a roof ring clip installed.

2. Install a flange bolt (A) to the roof ring clip (C) and install a sealing washer (E) to the underside of the roof ring clip (C).
3. Slide each assembled roof ring clip (C) onto a roof ring section (B) and position each roof ring clip (C) over each roof panel rib.
4. Install a flange nut (D) to each roof ring clip (C). (See Figure 1.)

NOTE: Do not tighten hardware until all roof ring sections have been installed.

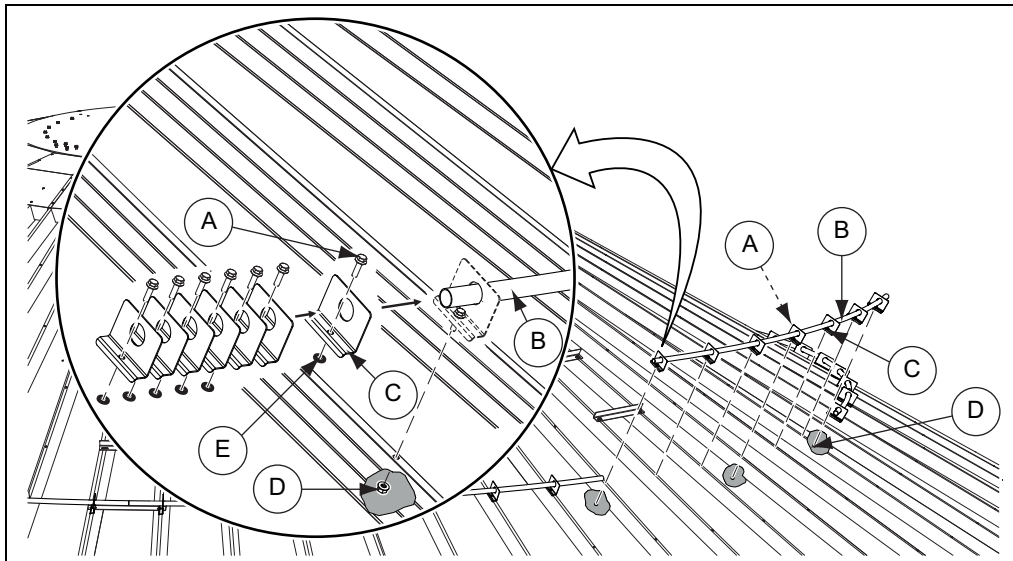


Figure 1 Exhauster Roof Ring Shown

Ref #	Part #	Description
A	S-10260	5/16"-18 x 1" Flange Bolt
B	CRP-5363-XX	Exhauster Roof Ring Section
C	R-997	Roof Ring Clip
D	S-3611	5/16"-18 Flange Nut YDP Grade 2
E	S-3558	Sealing Washer

(-XX) Denotes the bin diameter.



Installing a Roof Ring (Continued)

5. Locate a threaded stud (F) and install stud nuts (G) evenly and to the center of the threaded stud (F).
6. Install the threaded stud (F) with stud nuts (G) to the end of the roof ring section (B).

NOTE: *Install the threaded stud (F) to the side where the next roof ring section will be installed.*

7. Repeat this process, installing each new roof ring section end onto the preceding threaded stud just installed.
8. When all roof ring sections are installed, tighten each roof ring clip (B) to the recommended torque specifications.
9. Adjust each stud nut (G) outward, expanding each roof ring section. Continue this procedure evenly until the roof ring raises the roof, showing a slight crown.

NOTE: *Expansion bolts should be fully contracted when assembling support rings. When you have completely assembled both rings, (but prior to expanding the bolts) tighten all roof bolts including eave clip bolts. Now extend expansion bolts by running the nut out on the threads. This procedure should be continued evenly around the roof until the ring raises the roof to show a slight crown.*

NOTE: *Roof ring expansion bolts may become dislodged from the roof ring during the life of the bin due to the influence of wind or other factors. If one expansion bolt is dislodged, the entire ring will become ineffective. After expansion to the jam nuts final position, the nuts on the expansion bolt should be secured to prevent this. This may be done by staking the expansion bolt threads at the jam nut location, use of suitable thread locking compounds or other effective methods.*

In addition, drilling holes through the support pipe and expansion bolt and connecting together with a 1/4" diameter bolt is an effective way to prevent the bolt from dislodging during certain wind and pressure conditions.

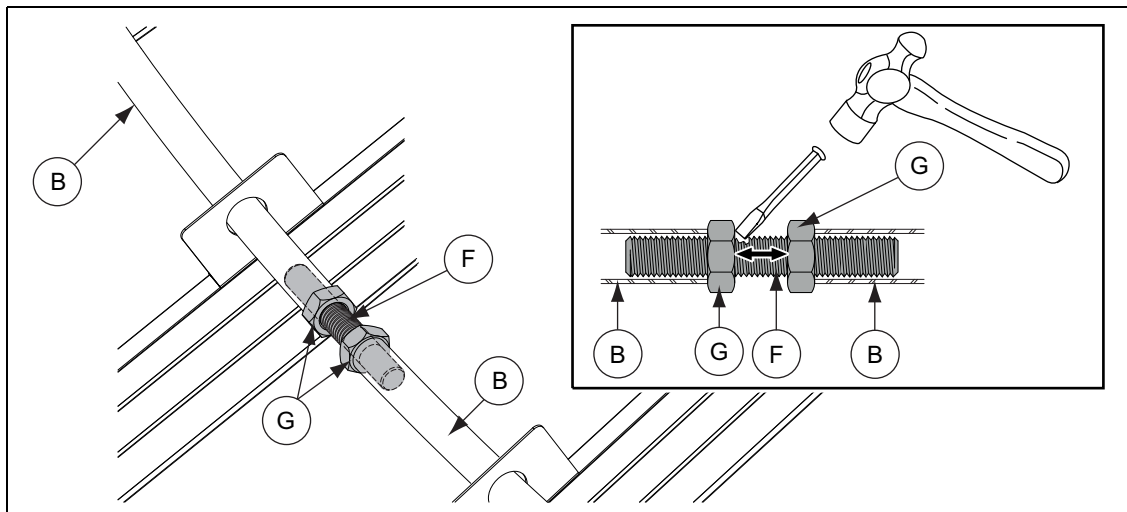


Figure 2 Exploded View of Threaded Stud

Ref #	Part #	Description
B	CRP-5363-XX	Exhauster Roof Ring Section
F	S-8765	Threaded Stud
G	S-8926	Stud Nut

(-XX) Denotes the bin diameter.