

The

SIDE LOAD

Constant Force Balance System®

Installation Instructions

Components



Sash Guide
2 piece



Spring

Loads available: $\left\{ \begin{array}{l} 2 \text{ lb.} \\ \text{to} \\ 6 \text{ lb.} \end{array} \right.$

for

Window sashes weighing: $\left\{ \begin{array}{l} 6 \text{ lb.} \\ \text{to} \\ 48 \text{ lb.} \end{array} \right.$



Sash Cam
1 piece



Spring Carrier

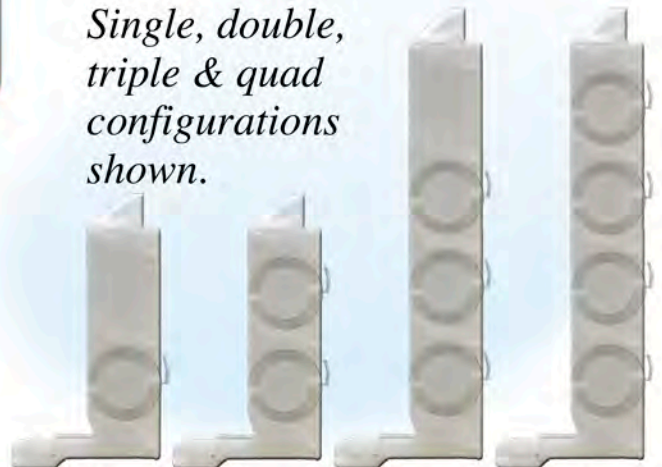
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Covered by one or more of the following patents & patents pending. found at <http://www.springcompany.com/downloads>

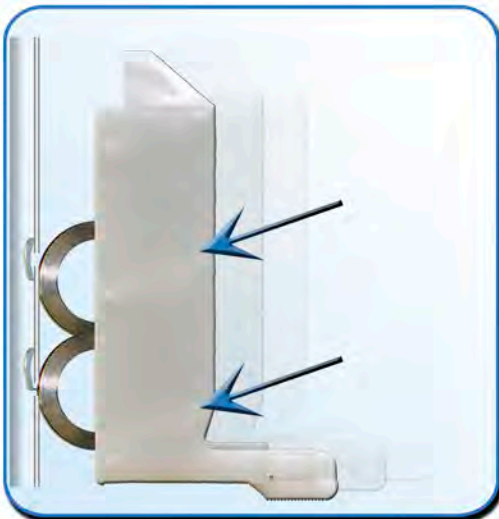
Pat. 7,980,028

Single, double, triple & quad configurations shown.



Dbl. Carrier

Quad Carrier



Snap-on design of Spring Carrier

ph: 215-368-7700

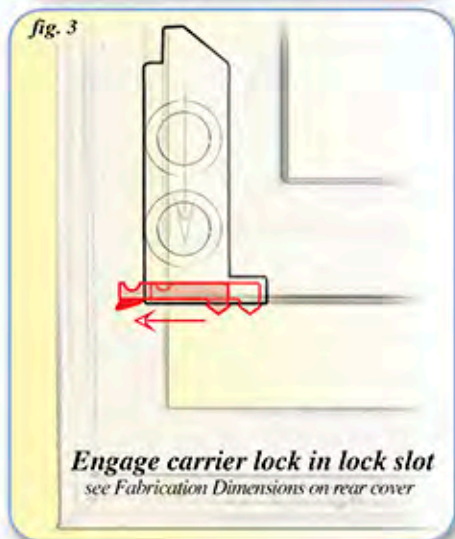
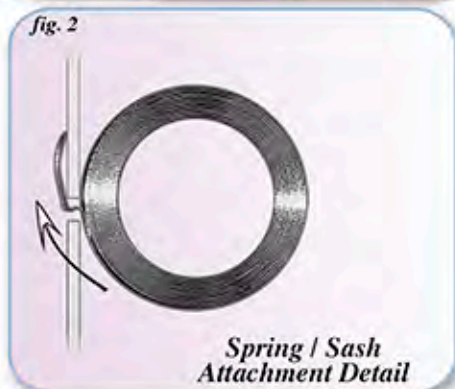
fx: 215-368-9019

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JOHN EVANS' SONS Est. 1850

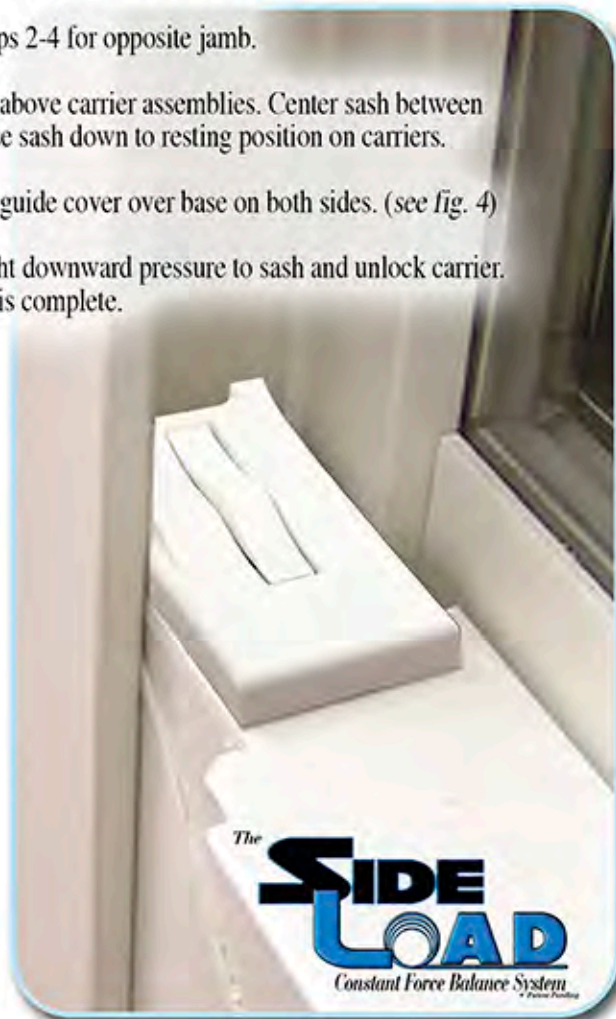
SPRINGS MADE BETTER



Installation Instructions

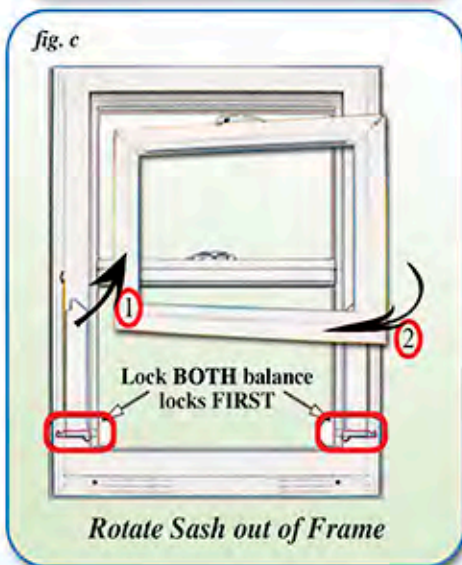
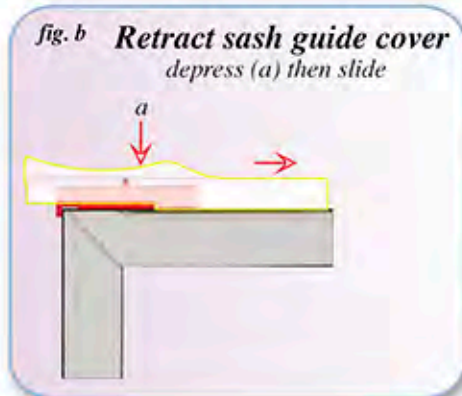
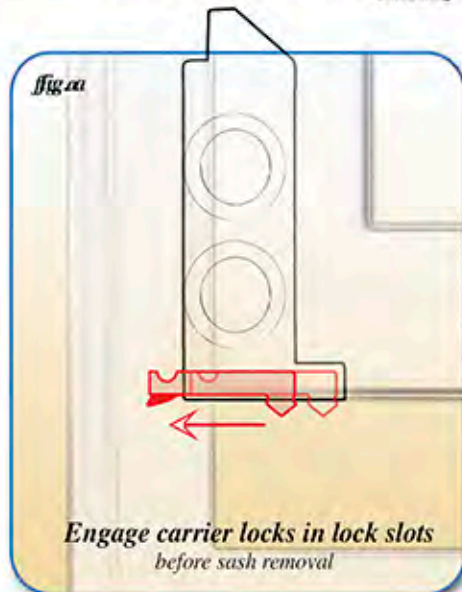
Fabrication Dimensions are shown on last page

1. Attach sash guide *bases*, on centerline of both top corners of sash using #6 flat head screws. (see *fig. 1*)
2. Rotate spring into spring slot with tab end facing upwards. (see *fig. 2*)
3. Snap carrier over spring(s) (*lowest pocket must always be used first*).
4. **USE CAUTION** with this step as springs are loaded under tension.
 - a. With both hands, apply outward pressure to hold carrier firmly against jamb.
 - b. Carefully extend carrier/spring assembly downward.
 - c. When carrier lock is in alignment with lock slot in jamb, ensure carrier lock slides completely into lock slot for proper engagement. (see *fig. 3*)
5. Repeat steps 2-4 for opposite jamb.
6. Load sash above carrier assemblies. Center sash between jambs. Ease sash down to resting position on carriers.
7. Slide sash guide cover over base on both sides. (see *fig. 4*)
8. Apply slight downward pressure to sash and unlock carrier. Assembly is complete.

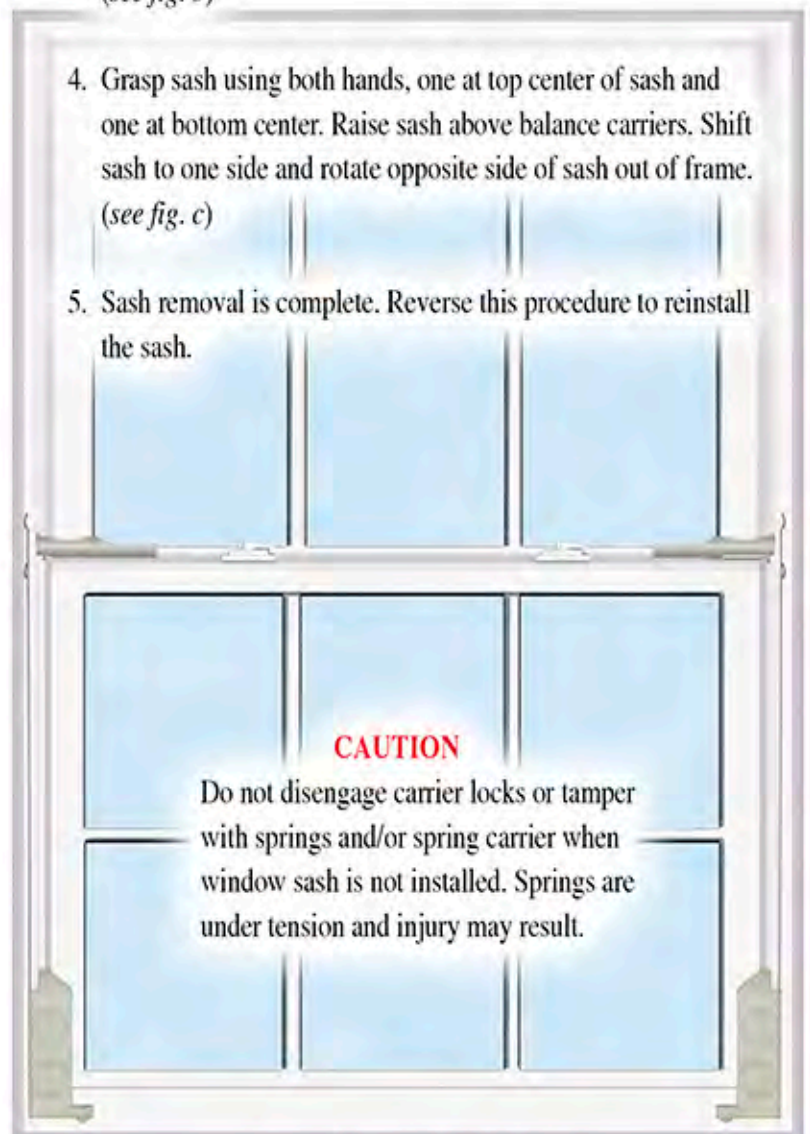


Field Sash Removal Instructions

1. Open sash slightly to create necessary clearance to locate carrier locks on both sides of bottom rail.
2. Using both index fingers, apply outward force to carrier locks while raising sash. When carrier locks are in alignment with lock slots in jamb, ensure carrier locks slide completely into lock slots for proper engagement.
(see fig. a)
3. Once locks are engaged, retract sash guide covers (both sides).
(see fig. b)

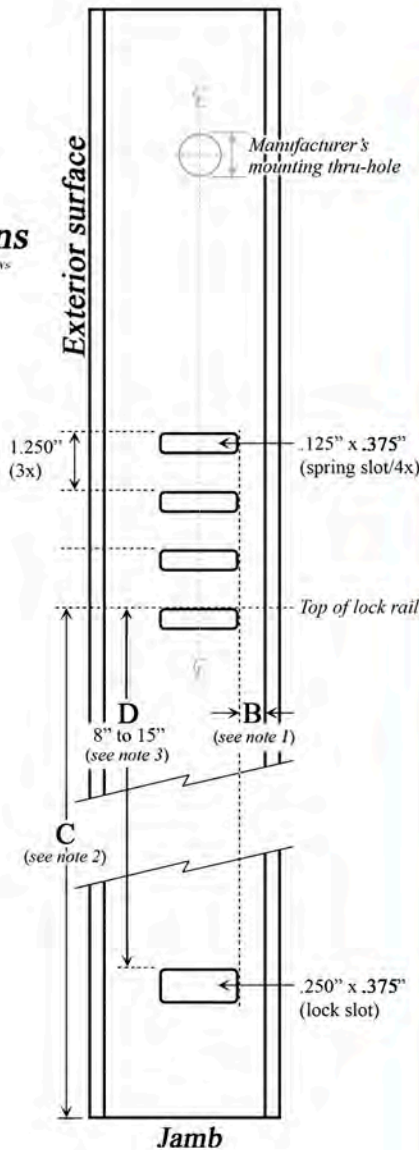
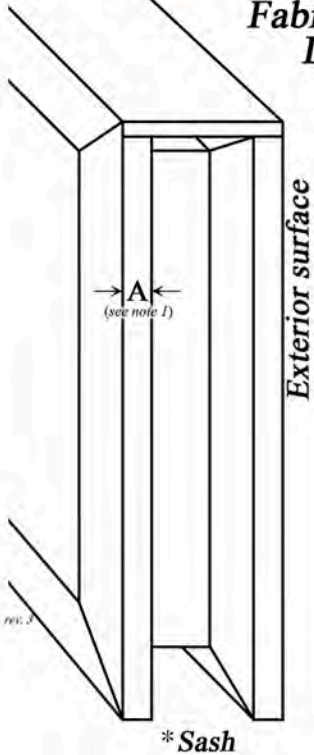


4. Grasp sash using both hands, one at top center of sash and one at bottom center. Raise sash above balance carriers. Shift sash to one side and rotate opposite side of sash out of frame.
(see fig. c)
5. Sash removal is complete. Reverse this procedure to reinstall the sash.



(Shown as viewed from inside)

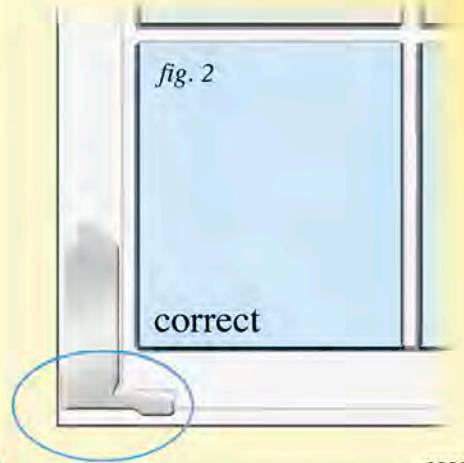
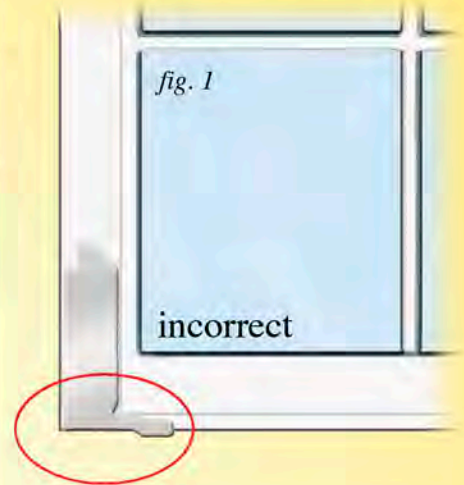
Fabrication Dimensions
For vinyl side load windows



Notes:

1. Dimension A + .125" = Dimension B
2. Dimension C must not exceed 35.5"
3. Having the lock slots & spring slots closer together:
 - a) simplifies balance system installation by reducing the distance the spring carrier must be extended downward, and,
 - b) may benefit tooling considerations. However, there must be sufficient clearance to install the sash over the spring carriers.
4. When the sash is fully raised, make sure that the springs are extended at least 1/2 inch (attach appropriate length vent stops) so springs do not become detached from the jamb.

* If the profile of the bottom rail and the stile of your sash are not of equal cross-section (fig. 1), a pocket underneath the bottom rail may be required. The goal is to recess the lowest horizontal area of the spring carrier under the bottom rail, without compromising the clearances required for proper closing and sealing of sash (fig. 2).



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We invite you to discuss this innovative new product. Please contact our Sales Department for more information and/or technical assistance.