

The

SIDE LOAD

Constant Force Balance System
Patent Pending

Installation Instructions

Components



Sash Guide
2 piece



Spring

Loads available: $\left\{ \begin{array}{l} 3 \text{ lb.} \\ 4 \text{ lb.} \\ 5 \text{ lb.} \\ 6 \text{ lb.} \end{array} \right.$
for

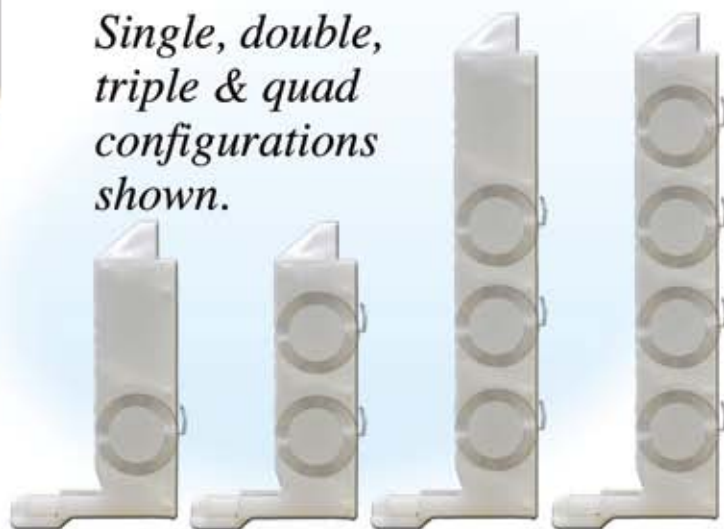
Window sashes weighing: 6 lb. to 48 lb.



Spring Carrier



Single, double, triple & quad configurations shown.



Dbl. Carrier

Quad Carrier



Snap-on design of Spring Carrier

John Evans' Sons, Inc.
America's Oldest Springmaker Est. 1850

ph: 215-368-7700 fx: 215-368-9019
www.springcompany.com
sales@springcompany.com

fig. 1

Attached with
#6 flat head
screw

Sash Guide Base
Installation Detail

fig. 2

Spring / Sash
Attachment Detail

fig. 3

Fully Engaged

fig. 3a

Partially Engaged

fig. 4

Slide to engage
cover to base

Sash Guide Cover
Installation Detail

Both Sash Guide Covers
(1" wide, shown left &
1-3/8" wide, shown right)
mount using the universal
sash guide base.
(shown in fig. 1)

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 sash lock is in alignment with lock slot in jamb, press sash lock completely into lock slot. **The sash lock must be flush with carrier for full engagement.** (see fig. 3 & 3a)
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 sash locks on both sides.
2. Using both index fingers, apply outward force to sash locks while raising sash. When sash locks are in alignment with lock slots in jamb, ensure sash locks slide completely into lock slots for proper engagement.

(see fig. a)

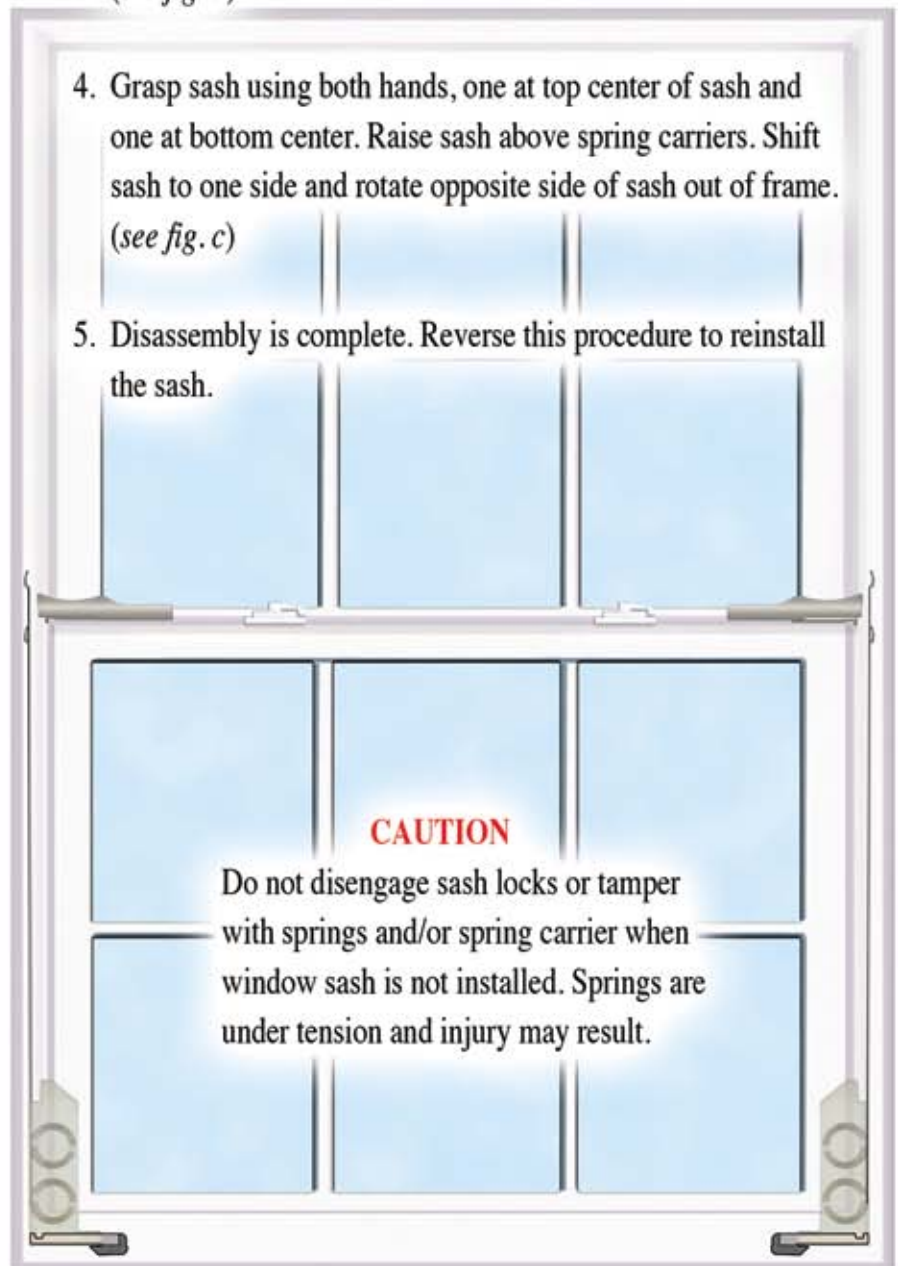
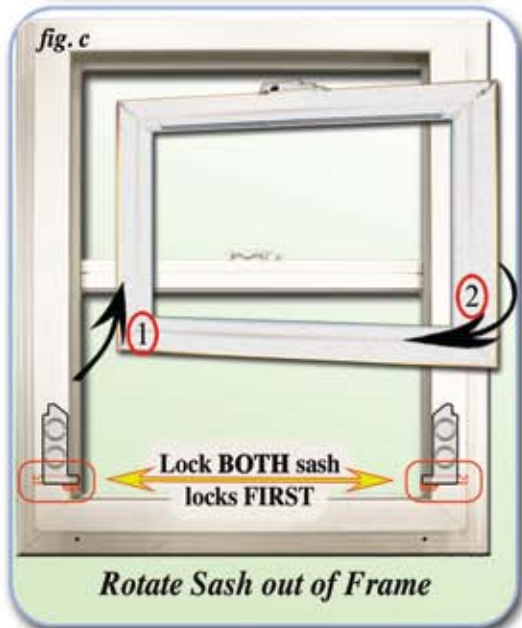
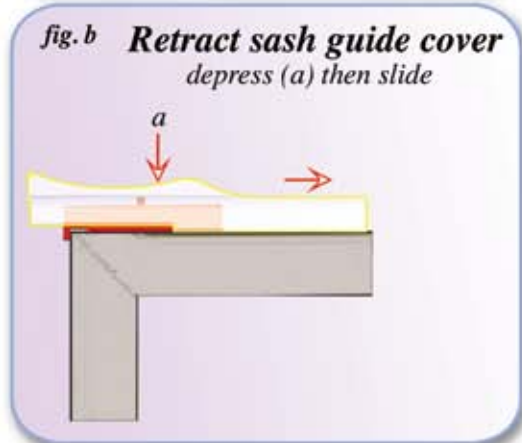
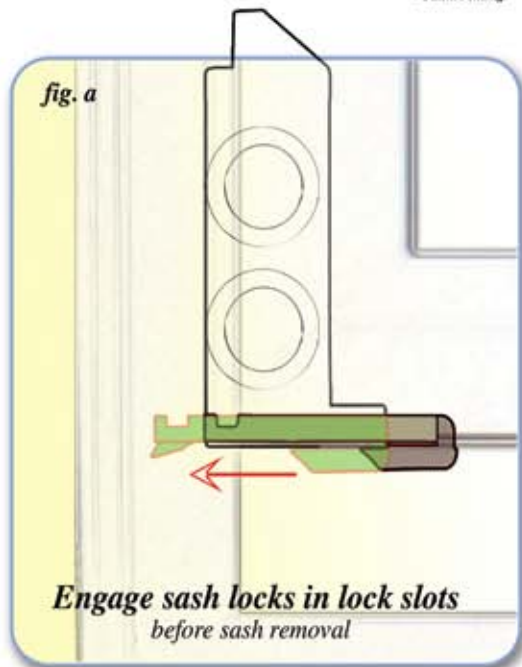
3. Once locks are engaged, retract sash guide covers.

(see fig. b)

4. Grasp sash using both hands, one at top center of sash and one at bottom center. Raise sash above spring carriers. Shift sash to one side and rotate opposite side of sash out of frame.

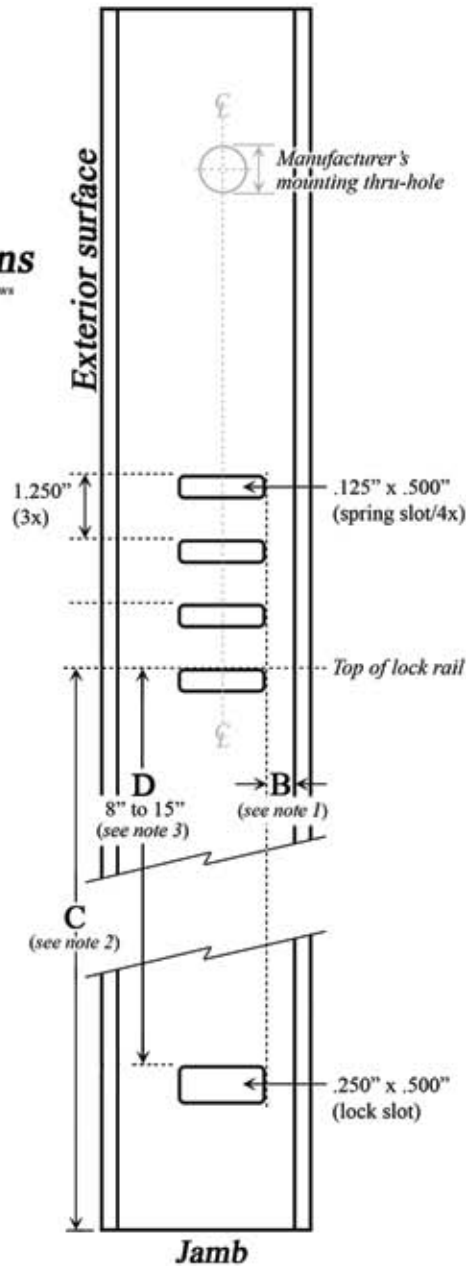
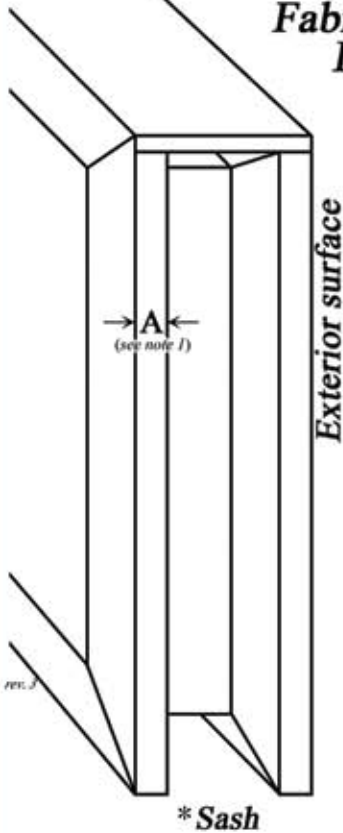
(see fig. c)

5. Disassembly is complete. Reverse this procedure to reinstall the sash.



(Shown as viewed from inside)

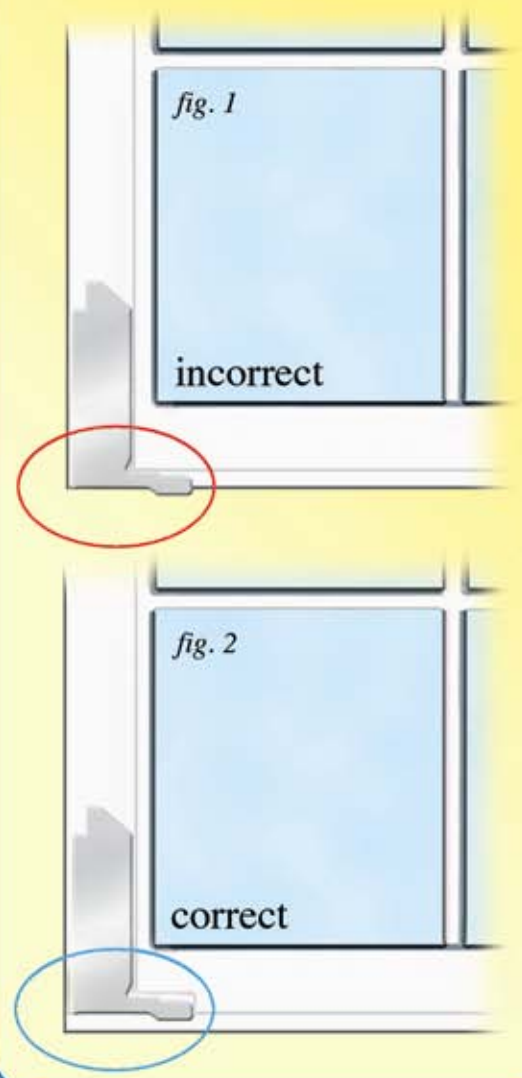
Fabrication Dimensions
For vinyl side load windows



Notes:

1. Dimension A +.050"= 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.

* 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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