

DOUBLE HUNG REPLACEMENT SASH KITS



KOLBE
■ WINDOWS & DOORS ■

See the Difference Quality Makes®



Renovating Your Home

Updating your home with new, energy-efficient windows that have the convenience of tilt-in sash is easy with Double Hung Replacement Sash Kits by Kolbe. There are no worries about tearing into walls or ruining specialty mouldings that give your home character and charm, because sash are made to fit into your existing window frames. Plus, installation is a snap and done from the interior of your home, so second floor windows are not a problem. Kits include Traditional double hung sash, spring-loaded block-and-tackle mechanical balances and easy-sliding jamb liners. Both sash open for ventilation and tilt in or may be removed for easy cleaning. Sash are also available as cottage-style and reverse cottage-style double hungs. Many options such as exterior finishes for wood or clad units, glazing options and grille options help to preserve the original design of your home or add a new twist.

Double Hung Standard Features

TRADITIONAL SASH:

- > 1-3/8" thick sash
- > 9/16" LoE²-270 insulating glass filled with argon gas*
- > 3-3/8" jambliner depth

MAGNUM SASH:

- > 1-3/4" thick sash
- > 7/8" LoE²-270 insulating glass filled with argon gas*
- > 4-5/16" jambliner depth

TRADITIONAL & MAGNUM SASH:

- > Constructed of unfinished pine
- > Glazed to the interior with wood glazing beads
- > All exterior wood parts are preservative-treated
- > Exterior sash are latex primed on wood units
- > Rigid PVC head parting stop with flexible fins
- > Fully weatherstripped for a tight seal
- > Clay-colored heavy duty sash lock and keeper
- > Machined finger grooves on the top rail of the upper sash and bottom rail of the lower sash
- > Spring-loaded block-and-tackle mechanical balances to carry the sash weight
- > Beige PVC jambliners with compression foam backing

Hardware

Clay-colored cam locks and keepers are factory-applied to double hung units as standard. Sash lift handles are an option for units without finger grooves. All double hung hardware is available in Clay (standard), White, Beige, Brass, Antique Brass, Satin Nickel, Antique Nickel, Matte Black and Rustic Umber.



sash lock in Clay
(standard)



sash lift handle in White
(optional)

Double Hung Optional Features

GLASS:

- > LoE² -240*
- > LoE³ -366*
- > ThermaPlus LoE
- > Patterned-, bronze- or gray-lite
- > Tempered or laminated
- > Other options standard to the industry

DIVIDED LITES:

- > Grilles-in-the-air-space
- > Interior removable wood grilles with 7/8" or 1-1/8" bars and full surrounds
- > Performance divided lites (PDL) with 5/8", 7/8", 1-1/8", 1-3/4" or 2-1/4" bars
- > True divided lites (TDL) with 1/2" LoE² insulating glass for Traditional sash and 5/8" LoE² insulating glass for Magnum sash and 1-1/8" bars**
- > Single-pane TDL with 7/8" or 1-1/8" bars**

EXTERIOR FINISHES:

- > K-Kron II high performance exterior finish
- > Prefinished, heavy gauge roll-formed aluminum cladding

OTHER OPTIONS: (custom options are also available)

- > Other wood species including FSC certified wood
- > Ovolo and square profile glazing beads and interior grille bars
- > Interior prefinishing
- > No finger grooves in top, bottom or both sash
- > Sash lift handles in Clay, White, Beige, Brass, Antique Brass, Satin Nickel, Antique Nickel, Rustic Umber and Matte Black
- > Sash locks and keepers in White, Beige, Brass, Antique Brass, Satin Nickel, Antique Nickel, Rustic Umber and Matte Black
- > White jambliners
- > Full screens with aluminum frames in exterior clad colors and fiberglass mesh (additional prep to existing frame is required)***
- > StormGuard combination storm/screen units (Traditional sash only; additional prep to existing frame is required)

NOTES:

All measurements are nominal.

* Argon gas may not be included with units to be installed in or shipped through high altitude areas.

** Not available with aluminum cladding on the sash.

*** BetterVue® fiberglass screen mesh will be used as standard. UltraVue® fiberglass screen mesh and aluminum mesh is also available.

LoE², LoE²-240, LoE²-270, and LoE³-366 are trademarks of Cardinal IG.

SASH KIT DETAILS

Traditional

TRADITIONAL REPLACEMENT SASH KITS INCLUDE:

- (1) Top sash
- (2) PVC jamb liners with compression-foam backing
- (3) Wood head parting stop
- (4) Vinyl head parting stop
- (5) Tacks
- (6) Jamb liner clips
- (7) Vinyl sash stops
- (8) Foam pads
- (9) Screws
- (10) Bottom sash
- (11) LoE² insulating glass filled with argon gas*
- (12) Heavy duty sash lock and keeper
- (13) Spring-loaded block-and-tackle mechanical balances (not pictured)

* Units to be installed in or shipped through high altitude areas may not include argon gas.

Magnum

MAGNUM REPLACEMENT SASH KITS INCLUDE:

- (1) Top sash
- (2) PVC jamb liners with compression-foam backing
- (3) Vinyl head parting stop
- (4) Wood head parting stop
- (5) Screws
- (6) Tacks
- (7) Jamb liner clips
- (8) Vinyl sash stops
- (9) Foam pads
- (10) Bottom sash
- (11) LoE² insulating glass filled with argon gas*
- (12) Heavy duty sash locks and keepers
- (13) Spring-loaded block-and-tackle mechanical balances (not pictured)

* Units to be installed in or shipped through high altitude areas may not include argon gas.

KOLBE MEASURING YOUR WINDOW OPENING

Measuring the Width



Using a carpenter's square, verify that the sash opening is square. Measure the width of the opening from the left jamb face (not the inside stop) straight across to the right jamb face. For units with jamb liners, it will be necessary to remove the jamb liners to access the jamb face. Double-check the width by measuring three more points. Write down the smallest dimension obtained.

Measuring the Height



Measure the height from the head jamb straight down to the point where the outside of the bottom sash touches the sill when closed. Double-check the height by measuring three more points. Write down the smallest dimension. Check that the angle or slope of the sill is 14°.

Compare your width dimensions to the standard sizes on page 9. If your opening width is up to 1/4" (max.) larger than a standard size, you may shim behind the jamb liner clips to make the standard size replacement sash fit your opening. Determine the difference between the standard width and actual width and divide by two. The result is the width of shims that may be used to make up the difference. If the opening cannot be shimmed (i.e. the opening width is over 1/4" larger than a standard size, or is smaller than a standard size), the replacement sash must be ordered as a special.

Oversized weatherstripping is available for frames that are slightly out of square or have a sill variance of 10-14°.

More complete instructions are available from your Kolbe dealer.

INSTALLING YOUR REPLACEMENT SASH

STEP 1



Gently remove the sash stops using a pry bar or putty knife. If they are screwed on, use a screwdriver, then a pry bar or putty knife if necessary.

Save the sash stops, as they will be reapplied after the replacement sash has been installed.

STEP 2



Lift the bottom sash out. If your windows have rope-and-pulley operation, cut the rope and remove the pulley and counter weights.

STEP 3



Carefully remove the side parting stops. Loosen them with a pry bar or putty knife, then pull them out with a pliers and discard them.

Next, remove the upper sash, ropes, pulleys and counter weights.

STEP 4



Carefully remove the head parting stop. Loosen it with a pry bar or putty knife, then pull it out with a pliers and discard it.

NOTE: Insulate the counter weight cavity at this time.

STEP 5



The jambliner clips should be tacked on using the proper spacing shown in the installation instructions provided with the kit.

NOTE: The clips should be flush against the outside blind stop as shown.

STEP 6



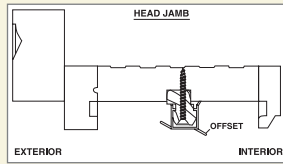
Slide the vinyl sash stops into the top inside track of each jambliner, then apply the self-sticking foam pads to each jambliner head.

STEP 7



Snap the jambliners in place over the jambliner clips.

STEP 8



Screw the wood head parting stop into the channel that held the old parting stop.
NOTE: Make sure the offset is toward the interior, as illustrated. Now snap the vinyl parting stop over the wood parting stop.

STEP 9



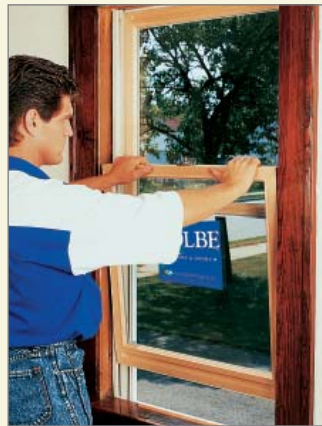
Install the sash, starting with the top one. Hold it at an angle as shown. Insert the clutch pivot above the clutch in the track farthest from you.

STEP 10



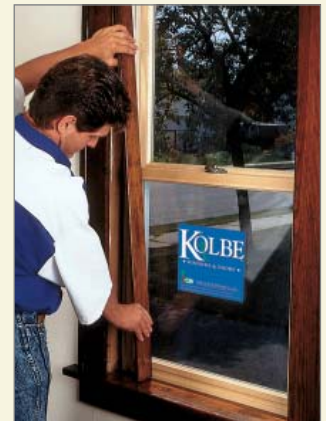
Level the sash horizontally to a 90° angle, then tilt the sash up to the vertical position. Press the jambliner in while pushing the sash into the track farthest from you. Slide the sash down to engage the clutches, then up to the top.

STEP 11



Repeat steps 9 and 10 for the bottom sash, but insert the clutch pivots and snap the sash into the track closest to you.

STEP 12



Replace the original sash stops that were removed in step 1.

That's all there is to it!

AVAILABLE SIZES

Order by existing sash opening or glass size. Ask your Kolbe dealer about special sizes and other available options.

SASH OPG.	GLASS SIZE	SASH OPG.	GLASS SIZE	SASH OPG.	GLASS SIZE	SASH OPG.	GLASS SIZE	SASH OPG.	GLASS SIZE
1-8 x 2-10	16 x 14	2-0 x 2-10	20 x 14	2-4 x 2-10	24 x 14	2-6 x 2-10	26 x 14	2-8 x 2-10	28 x 14
1-8 x 3-2	16 x 16	2-0 x 3-2	20 x 16	2-4 x 3-2	24 x 16	2-6 x 3-2	26 x 16	2-8 x 3-2	28 x 16
1-8 x 3-10	16 x 20	2-0 x 3-10	20 x 20	2-4 x 3-10	24 x 20	2-6 x 3-10	26 x 20	2-8 x 3-10	28 x 20
1-8 x 4-2	16 x 22	2-0 x 4-2	20 x 22	2-4 x 4-2	24 x 22	2-6 x 4-2	26 x 22	2-8 x 4-2	28 x 22
1-8 x 4-6	16 x 24	2-0 x 4-6	20 x 24	2-4 x 4-6	24 x 24	2-6 x 4-6	26 x 24	2-8 x 4-6	28 x 24
1-8 x 4-10	16 x 26	2-0 x 4-10	20 x 26	2-4 x 4-10	24 x 26	2-6 x 4-10	26 x 26	2-8 x 4-10	28 x 26
1-8 x 5-2	16 x 28	2-0 x 5-2	20 x 28	2-4 x 5-2	24 x 28	2-6 x 5-2	26 x 28	2-8 x 5-2	28 x 28
1-8 x 5-6	16 x 30	2-0 x 5-6	20 x 30	2-4 x 5-6	24 x 30	2-6 x 5-6	26 x 30	2-8 x 5-6	28 x 30
1-8 x 5-10	16 x 32	2-0 x 5-10	20 x 32	2-4 x 5-10	24 x 32	2-6 x 5-10	26 x 32	2-8 x 5-10	28 x 32
1-8 x 6-2	16 x 34	2-0 x 6-2	20 x 34	2-4 x 6-2	24 x 34	2-6 x 6-2	26 x 34	2-8 x 6-2	28 x 34
1-8 x 6-6	16 x 36	2-0 x 6-6	20 x 36	2-4 x 6-6	24 x 36	2-6 x 6-6	26 x 36	2-8 x 6-6	28 x 36
*1-8 x 5-6	16 x 24/36	*2-0 x 5-6	20 x 24/36	*2-4 x 5-6	24 x 24/36	*2-6 x 5-6	26 x 24/36	*2-8 x 5-6	28 x 24/36
**1-8 x 5-6	16 x 36/24	**2-0 x 5-6	20 x 36/24	**2-4 x 5-6	24 x 36/24	**2-6 x 5-6	26 x 36/24	**2-8 x 5-6	28 x 36/24

SASH OPG.	GLASS SIZE	SASH OPG.	GLASS SIZE	SASH OPG.	GLASS SIZE	SASH OPG.	GLASS SIZE
2-10 x 2-10	30 x 14	3-0 x 2-10	32 x 14	3-4 x 2-10	36 x 14	3-8 x 2-10	40 x 14
2-10 x 3-2	30 x 16	3-0 x 3-2	32 x 16	3-4 x 3-2	36 x 16	3-8 x 3-2	40 x 16
2-10 x 3-10	30 x 20	3-0 x 3-10	32 x 20	3-4 x 3-10	36 x 20	3-8 x 3-10	40 x 20
2-10 x 4-2	30 x 22	3-0 x 4-2	32 x 22	3-4 x 4-2	36 x 22	3-8 x 4-2	40 x 22
2-10 x 4-6	30 x 24	3-0 x 4-6	32 x 24	3-4 x 4-6	36 x 24	3-8 x 4-6	40 x 24
2-10 x 4-10	30 x 26	3-0 x 4-10	32 x 26	3-4 x 4-10	36 x 26	3-8 x 4-10	40 x 26
2-10 x 5-2	30 x 28	3-0 x 5-2	32 x 28	3-4 x 5-2	36 x 28	3-8 x 5-2	40 x 28
2-10 x 5-6	30 x 30	3-0 x 5-6	32 x 30	3-4 x 5-6	36 x 30	3-8 x 5-6	40 x 30
2-10 x 5-10	30 x 32	3-0 x 5-10	32 x 32	3-4 x 5-10	36 x 32	3-8 x 5-10	40 x 32
2-10 x 6-2	30 x 34	3-0 x 6-2	32 x 34	3-4 x 6-2	36 x 34	3-8 x 6-2	40 x 34
2-10 x 6-6	30 x 36	3-0 x 6-6	32 x 36	3-4 x 6-6	36 x 36	3-8 x 6-6	40 x 36
*2-10 x 5-6	30 x 24/36	*3-0 x 5-6	32 x 24/36	*3-4 x 5-6	36 x 24/36	*3-8 x 5-6	40 x 24/36
**2-10 x 5-6	30 x 36/24	**3-0 x 5-6	32 x 36/24	**3-4 x 5-6	36 x 36/24	**3-8 x 5-6	40 x 36/24

*Cottage-style double hung (top sash smaller than bottom sash)

**Reverse cottage-style double hung (bottom sash smaller than top sash)



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