

⚠ WARNING

Proper Eye and Hearing Protection must always be worn when installing, removing or performing adjustments to Kolbe window & door products.

**READ THESE INSTRUCTIONS COMPLETELY
BEFORE ATTEMPTING ANY INSTALLATION!**

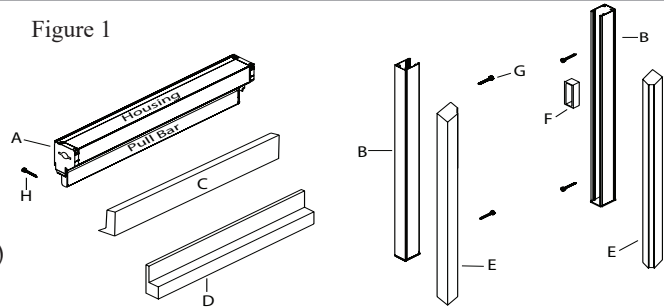
TOOLS REQUIRED BEFORE STARTING

- Safety glasses/goggles
- Tape Measure
- Rubber Mallet
- Phillips screwdriver
- Drill & 9/64" Drill bit
- Clamp

PARTS SENT IN KIT: Quantities ()

- A - Cassette (screen housing & pull bar) (1)
- B - Side Rails (1 L & 1 R)
- C - Wood Trim for Housing (1)
- D - Wood Trim for Pull Bar (1)
- E - Wood Trim for Side Rails (2)
- F - Small Pile Opener (1)
- G - #8 x 5/8" Phillips Pan Head screws (10)
- H - #6 x 3/4" Phillips Flat Head screws (4) (head painted black)

Figure 1



INTRODUCTION

These instructions are for installing a retractable screen to the interior of your Kolbe product.

PRELIMINARY PREPARATION

Lay out and identify all parts shown in figure 1 before installation. Double check the parts for quality (scratches, dents, etc..).

PREPARE PARTS FOR INSTALLATION

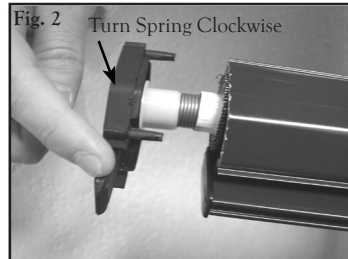
Check the spring tension by holding the cassette (A) in your hand and pulling down on the pull bar with the other hand. If you don't like the amount of tension, you may adjust it to your personal preference.

To adjust the spring tension hold the cassette so the flat side of the housing faces towards you. The spring is connected to the right side housing end cap. Gently pry the right side housing end cap out about 2". Holding the end cap **tightly** unwind the spring in a counter-clockwise motion until the spring is completely unwound.

⚠ CAUTION

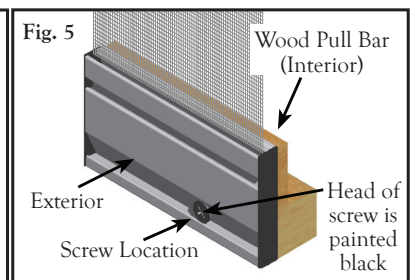
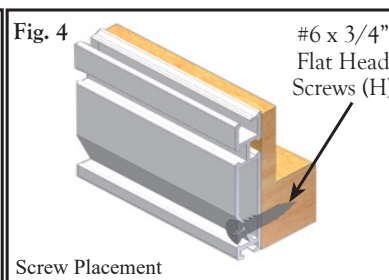
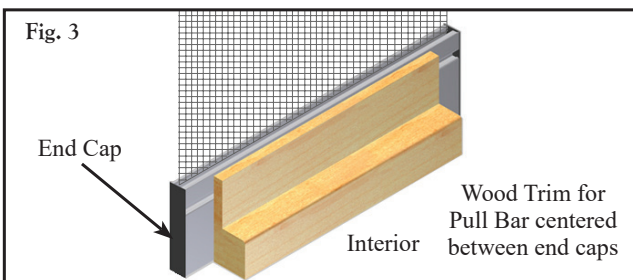
Be sure to firmly grip the end cap and unwind spring. The spring is loaded and may cause injury if not properly secured while unwinding.

See fig. 2. To reset the spring tension, turn the spring in a clockwise winding motion. See the chart below for the correct amount of turns. The chart is only a guideline, you may set the screen tightness to your personal preference.



| Housing Length | Spring Tension |
|----------------|----------------|
| 16 - 20" | 4-8 Turns |
| 24 - 26" | 8-14 Turns |
| 30 - 36" | 14-20 Turns |
| 40 - 48" | 20-26 Turns |
| 60" | 26-32 Turns |

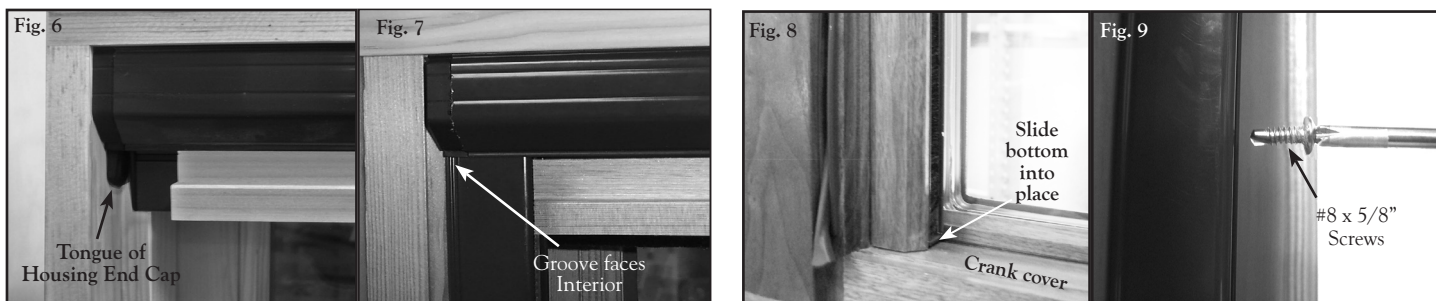
ATTACH WOOD TRIM TO PULL BAR: See fig. 3, 4 & 5. To attach the wood trim (D) to the pull bar (A), place the wood trim on the interior (flat side) of the pull bar so it is flush on the bottom and centered between the end caps. Use a clamp to hold it in place. Drill a 9/64" (4mm) diameter lead hole 2" in from each end of the pull bar and every 8" between. Use the #6 x 3/4" black painted flat head screws (H) to attach the wood trim to the pull bar. Screw from the exterior to the interior. Tighten the screws until the head of the screw just hits the exterior of the pull bar. Overtightening screws will distort the pull bar.



INSTALL INTERIOR STOPS AND SCREEN IN WINDOW

Remove the head interior stop from the window and properly dispose of it.

The head interior stop will be replaced with the cassette (screen housing and pull bar). See **fig. 6**, position the flat side of the cassette so it faces the exterior of the window and slide it into position at the head (top) of the window (the side rails will secure the housing in place once they have been installed).



The flat side of the side rails should face the exterior, and the side with the groove should face the interior. See **fig. 7**, take the left side rail and slide the top of it onto the tongue of the cassette housing end cap. See **fig. 8**, gently slide the bottom into place on top of the crank cover at the sill. Repeat for the right side.

A small pile opener is included in the parts kit. Locate where the pre-drilled holes are in each side rail and place the small pile opener centered over a hole for easy access to the screw hole. See **fig. 9**, secure the side rail in place using the supplied #8 x 5/8" screws (G). Repeat for all screw holes on each side rail. The small pile opener is only used to separate the pile while applying the screws. Take out when all screws are installed. On the lock side of the unit, the pre-drilled holes in the side rail may need to be disregarded due to the interference with the locking hardware. With the unit open, operate the lock bar vertically to make sure the screws are located properly to clear the locking points and lever assembly. If there is interference, locate the screws where they will not interfere with the locking hardware.

ATTACH WOOD TRIM

Take the wood trim for the housing (C) and peel the backing off the tape. Place the top edge of the wood trim against the head and then firmly press it onto the housing. Make sure it is pushed down tight. Take the wood trim for the side rails (E) and peel the backing off the tape. Place the side edge of the wood trim against the side stops and press firmly onto the side rails (B). Repeat for other side rail. Be sure to place the wood sides so the beveled edges face the center of the window.

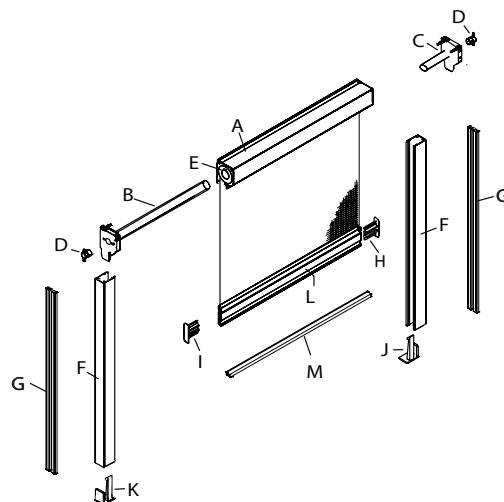
OPERATION OF SCREEN

Pull down on the pull bar and fully extend the screen to engage the latching mechanism. To retract the screen, gently push the pull bar towards the exterior of the window near the center of the pull bar to disengage the latching mechanism and retract the roller screen.

COMPONENT PART REPLACEMENT

The diagram below is to help you identify component parts if you need to re-order any parts from Kolbe for your Retractable Screen. Please specify window size when re-ordering parts.

- | | |
|---|--|
| A - Screen Housing | G - Side Rail Wind Pile |
| B - Spring Assembly Frame width up to 20" = 8" Spring Frame width 21" - 28" = 11.5" Spring Frame width 29" and up = 16" Spring | H - Plug Endcap Right for Pull Bar |
| C - Right Endcap Assembly | I - Plug Endcap Left for Pull Bar |
| D - Plug for Endcap | J - Internal Latch Right for Guide 30x22mm (Csmt) |
| E - Screen Mesh on Tube Frame height up to 65" = 66" Screen Mesh Frame height 66" - 90" = 92" Screen Mesh | K - Internal Latch Left for Guide 30x22mm (Csmt) |
| F - Side Rails 30mm (Csmt) | L - Pull Bar |
| | M - Pull Bar Pile |
| | N - Bag of Screws |



Contact your Kolbe window & door supplier or visit us at
www.kolbe-kolbe.com for further information.

THANK YOU FOR PURCHASING KOLBE PRODUCTS.

Kolbe & Kolbe Millwork Co., Inc. reserves the right
to change specifications without notice.