

# COX SERIES 21B

## ASSEMBLY PROCEDURE

### STEEL FRAME, BYPASSING DOORS WITH TOP GUIDE CHANNEL AND BOTTOM ROLLER HARDWARE

#21-708  
Self-Adjusting  
Top Guide Bracket

#21-243  
Reversible Steel Top Guide  
Channel. Full  $1\frac{1}{8}$ " depth

#21-133  
Steel Rails

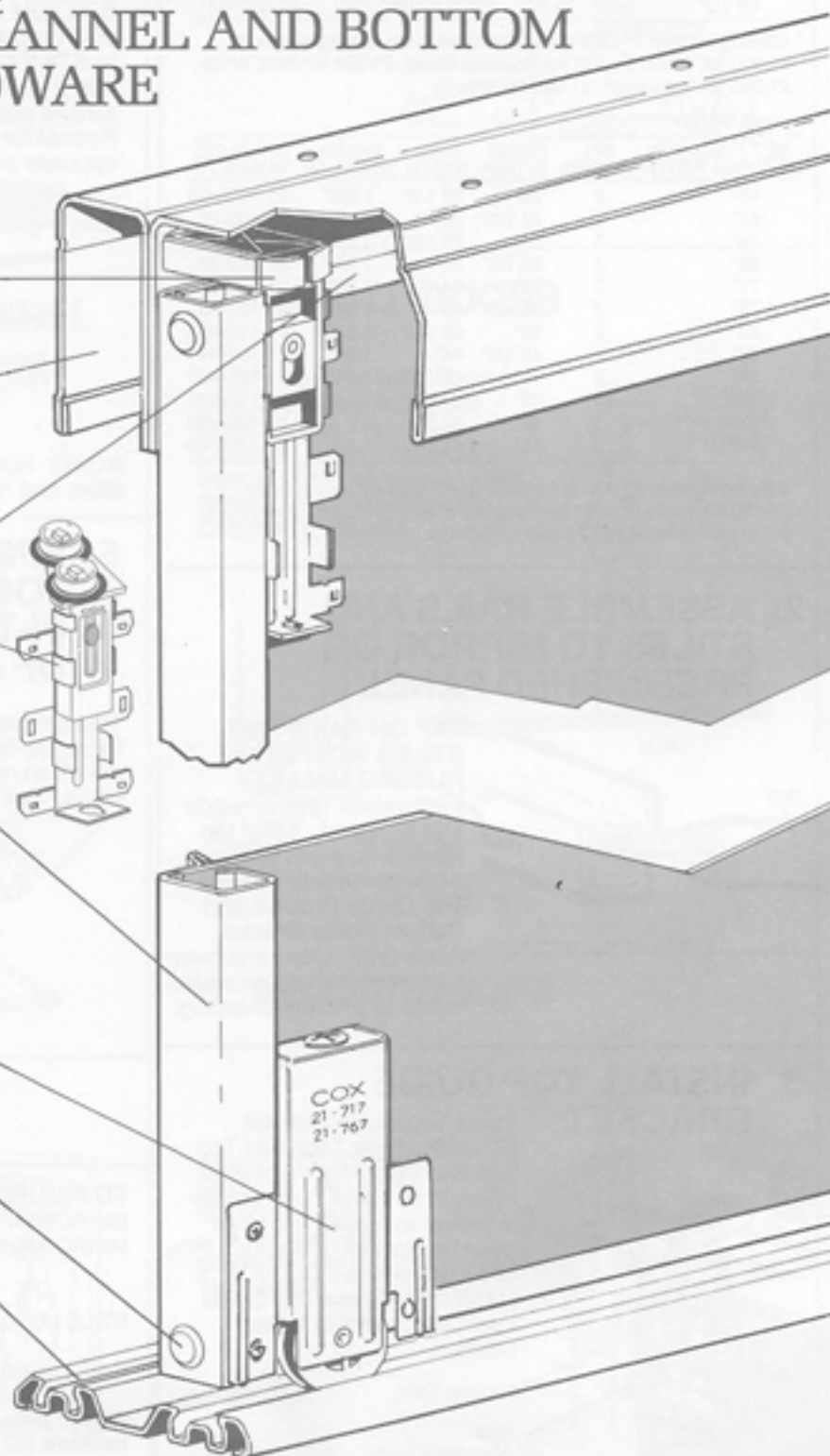
#21-702  
Self-Adjusting  
Top Roller Bracket  
(optional)

#21-323  
Steel Stiles with Integral Pull

#21-717/767  
Plated Steel Roller Assembly.  
 $1\frac{1}{4}$ " overall vertical adjustment  
with durable Delrin® spoked axle  
or double steel race ball bearing  
wheels.  $1\frac{1}{2}$ " diameter.

#22-004  
Clear Bumper (optional)

#21-673  
Steel V-Groove Threshold



# ASSEMBLY INSTRUCTIONS

## 1. SIZE DOORS TO FIT OPENINGS

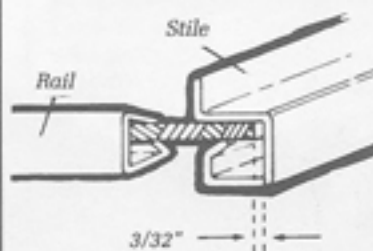
STILE HEIGHT			
NET FINISHED OPENING HEIGHT	PANEL LENGTH	STILE LENGTH	CATALOG NUMBER*
80 1/2"	77 7/8"	78"	21-323-78
84"	81 3/8"	81 1/2"	21-323-815
96"	93 3/8"	93 1/2"	21-323-935
98 1/2"	95 7/8"	96"	21-323-96

\* Catalog number 21-323 is for Brite Gold. Use catalog numbers 21-320 for White, 21-321 for Polished Brass, 21-324 for Brite White, 21-325 for Satin Gold, 21-326 for Bronze.

RAIL WIDTH					
NET FINISHED OPENING WIDTH	NO. DOORS	PANEL WIDTH	RAIL WIDTH	DOOR OVERLAP	CATALOG NUMBER*
47"	2	24"	22 1/2"	1 3/8"	21-133-225
54"	2	27 1/2"	26"	1 3/8"	21-133-26
59"	2	30"	28 1/2"	1 3/8"	21-133-285
66"	2	33 1/2"	32"	1 3/8"	21-133-32
71"	2	36"	34 1/2"	1 3/8"	21-133-345
78"	2	39 1/2"	38"	1 3/8"	21-133-38
83"	2	42"	40 1/2"	1 3/8"	21-133-405
90"	2	45 1/2"	44"	1 3/8"	21-133-44
95"	2	48"	46 1/2"	1 3/8"	21-133-465
106"	3	36"	34 1/2"	1 1/4"	21-133-345
118"	3	42"	40 1/2"	4"	21-133-405
142"	3	48"	46 1/2"	1 1/4"	21-133-465

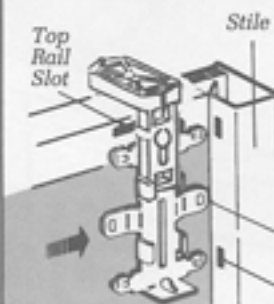
\* Catalog number 21-133 is for Brite Gold. Use catalog number 21-130 for White, 21-131 for Polished Brass, 21-132 for Satin Gold, 21-134 for Brite White, 21-136 for Bronze.

## 2. ASSEMBLE RAILS AND STILES TO MIRROR OR PREFINISHED PANEL



**TAP ON RAILS AND STILES WITH WHITE RUBBER Mallet**—First center rails on each end of Panel. Then tap stiles onto sides of Panel. Align corners to receive Top Guide Bracket and Bottom Roller Bracket. Allow 3/32" gap as shown. Edges of mirror should be taped to prevent chipping.

## 3. INSTALL TOP GUIDE BRACKET

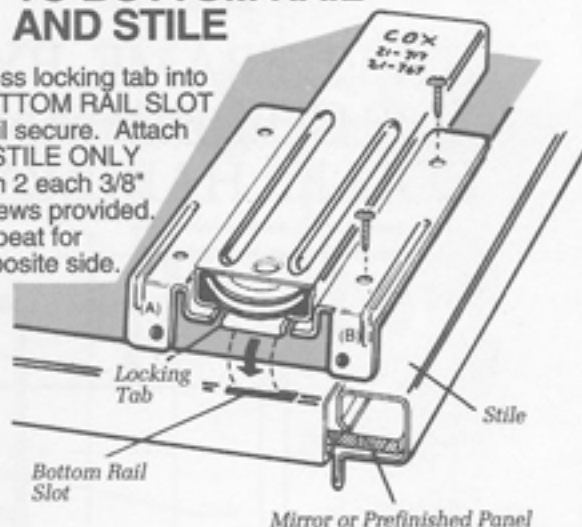


Insert Top Guide Bracket (21-708). Lock Tabs into Top Rail and Stile Alignment slots. Press in by **HAND** until corner is locked in place. Pressure must be applied until spur locks under stile. **DO NOT HAMMER**. Press Top Guide insert down until in locked position.

Locking Spur  
Stile Alignment Slots

## 4. ATTACH BOTTOM ROLLER BRACKETS (21-717 OR 21-767) TO BOTTOM RAIL AND STILE

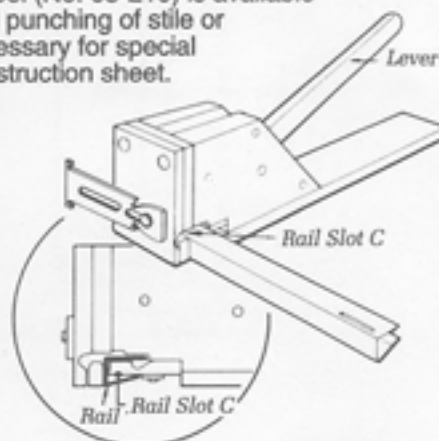
Press locking tab into **BOTTOM RAIL SLOT** until secure. Attach to **STILE ONLY** with 2 each 3/8" screws provided. Repeat for opposite side.



NOTE: Holes (A) and (B) are used only with wood stiles and rails.

## 5. SPECIAL COX HAND TOOL NO. 05-210 FOR IN-THE-FIELD PUNCHING OF ALIGNMENT SLOTS.

This special tool (No. 05-210) is available for in-the-field punching of stile or rail when necessary for special sizes. See instruction sheet.



### TO FIGURE SPECIAL SIZES:

**MIRROR HEIGHT:** — Finished opening height less (-) 2 5/8".

**MIRROR WIDTH:** — Finished opening width plus (+) 1" per overlap divided (+) by number of doors.

**STILE LENGTH:** — Cut bottom end only, 1/8" longer than mirror height.

**RAIL LENGTH:** — Cut 1 1/2" less than mirror width and repunch with 05-210 tool.

NOTE: When cutting stiles and rails, use a fine tooth hacksaw (32 teeth per inch).

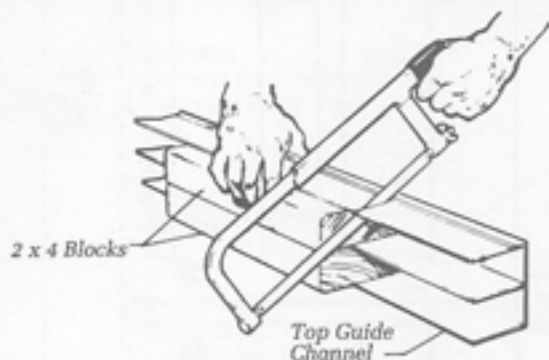
# INSTALLATION INSTRUCTIONS

## 1. FIT DOORS TO OPENINGS

WIDTHS			HEIGHTS	
OPENING	NUMBER DOORS	DOOR	OPENING	DOOR
47"	2	24"	80 1/2"	78"
54"	2	27 1/2"	84"	81 1/2"
59"	2	30"	96"	93 1/2"
66"	2	33 1/2"		
71"	2	36"	98 1/2"	96"
78"	2	39 1/2"		
83"	2	42"		
90"	2	45 1/2"		
95"	2	48"		
106"	3	36"		
118"	3	42"		
142"	3	48"		

Height of door should be 2 1/2" less than finished opening – doors should overlap a minimum of 1".

## 2. TRIM TOP GUIDE CHANNEL



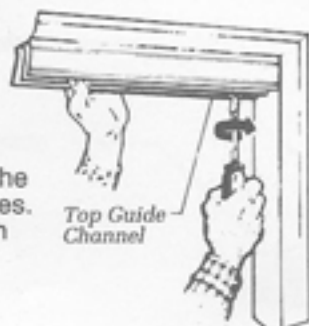
Cut Top Guide channel to exact opening width using a fine tooth hacksaw (32 teeth per inch blade). Support channel with 2 x 4 blocks while making cut.

Channel Threshold is pre-cut for standard widths 47, 59, 71, 83 & 95. For other non-standard widths Channel Threshold must also be cut to size.



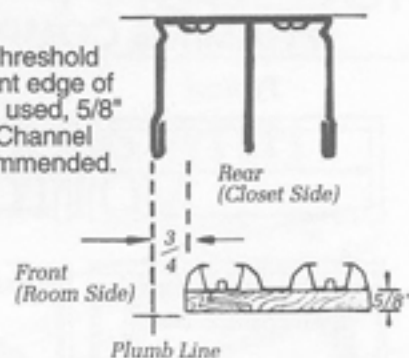
## 3. INSTALL TOP GUIDE CHANNEL

Top Guide channel has the same design on both sides. Locate channel flush with front edge of jamb.



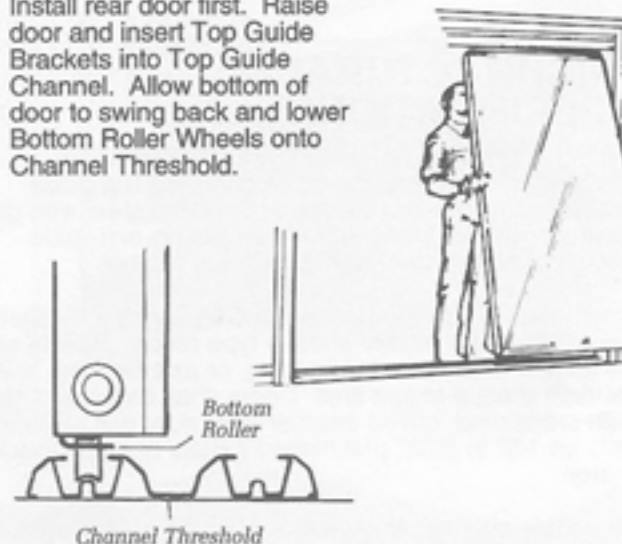
## 4. INSTALL THRESHOLD

Locate Channel Threshold 3/4" back from front edge of Jamb. If carpet is used, 5/8" wood riser under Channel Threshold is recommended.



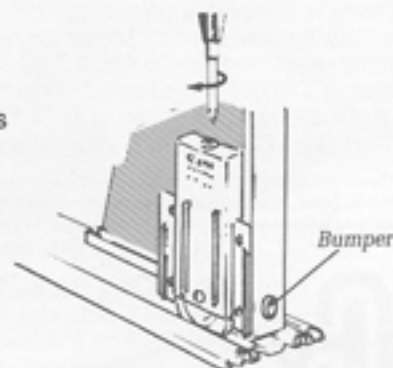
## 5. INSTALL DOORS

Install rear door first. Raise door and insert Top Guide Brackets into Top Guide Channel. Allow bottom of door to swing back and lower Bottom Roller Wheels onto Channel Threshold.



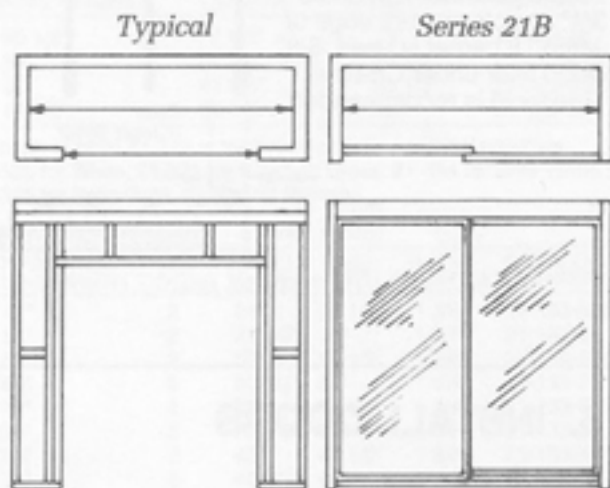
## 6. ADJUST DOORS

ADJUST DOORS as shown to align side of doors to jambs and to clear high points of Channel Threshold.



# SERIES 21B

## FRAMING COMPARISON



## ARCHITECTURAL SPECIFICATIONS

Sliding doors shall be guided by Cox Series 21B prefinished reversible top guide channel. Top guide brackets shall be Cox Series 21B, plated steel with guide inserts of polyethylene and self-adjusting anti-rattle design or plated steel with dual nylon wheels.

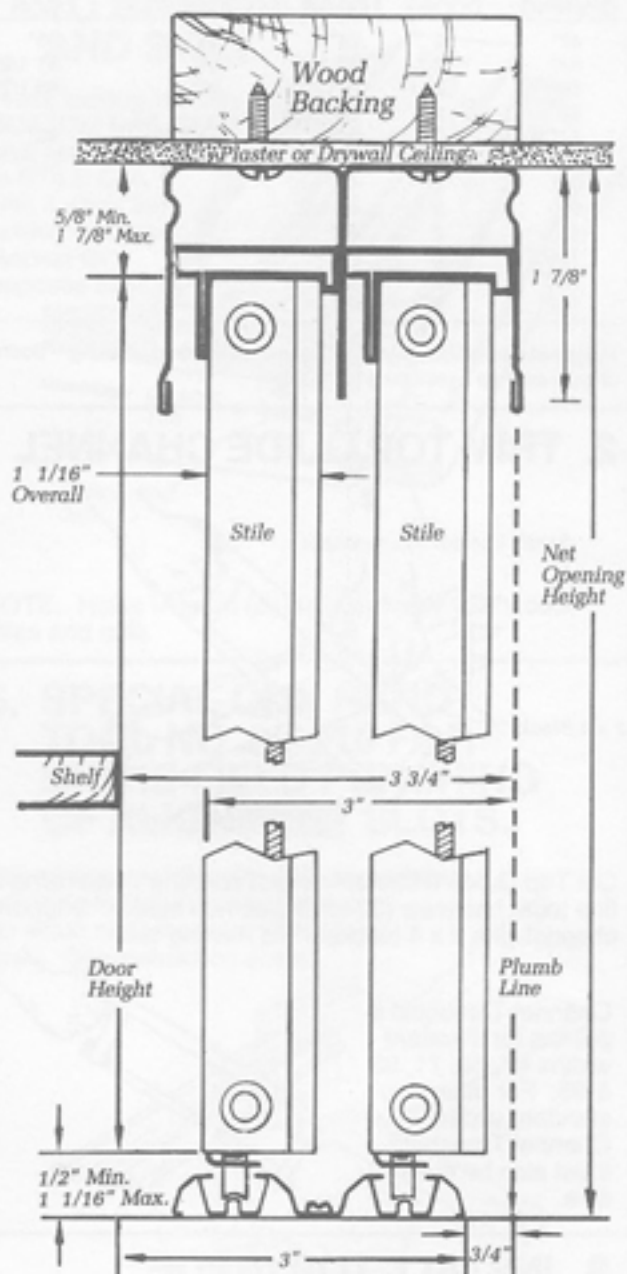
Doors shall roll at the bottom on Cox Series 21B sheave threshold by adjustable sheave type rollers. Rollers shall be double steel race ball bearing, or axle bearing, with Delrin® sheave shape tires. Doors shall be assembled with prepainted, baked enamel steel door pull stiles and rails on 1/8" to 5/32" prefinished panels or safety-backed mirror.

Top guide channel, threshold and all other hardware shall be manufactured by Arthur Cox and Sons, Incorporated, Industry, California.

## MIRROR PANEL SPECIFICATIONS

COX Series 21B Mirror Door hardware is manufactured ready to assemble on pre-cut 1/8" or 5/32" (3 or 4mm) safety-backed mirror. Mirror for reach-in closet applications must conform to ANSI Z 97.1-1984 Category 1 Safety Glazing Standards.\* Mirror for passage door applications must conform to CPSC 42 FR 1428; 16 CFR Part 1201 Category 2 Safety Glazing Standards.\*\*

\*American National Standards Institute 1430 Broadway, New York, N.Y. 10018  
 \*\*U.S. Consumer Product Safety Commission, Washington, D.C. 20207



COX HARDWARE MAKES GOOD DOORS BETTER!  
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